February 4, 2019

Mr. Todd Davis
EPA Site Assessment Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Subject: Phase II Targeted Brownfields Assessment
Holden Business Park Site, Holden, Missouri
U.S. EPA Region 7, START 4, Contract No. EP-S7-13-06, Task Order No. 0002.056
Task Monitor: Todd Davis, EPA Site Assessment Manager

Dear Mr. Davis:

Tetra Tech, Inc. (Tetra Tech) is submitting the attached Phase II Targeted Brownfields Assessment (TBA) report regarding the Holden Business Park Site in Holden, Missouri. The Phase II TBA report describes investigations to date to assess environmental conditions present on the site to support planned redevelopment activities.

If you have any questions or comments, please contact the Project Manager at (816) 412-1777.

Sincerely,

Joshua Mellema
START Project Manager

Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Debra Dorsey, START Project Officer (cover letter only)
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PHASE II TARGETED BROWNFIELDS ASSESSMENT REPORT

HOLDEN BUSINESS PARK
HOLDEN, MISSOURI

Superfund Technical Assessment and Response Team (START) 4 Contract

Contract No. EP-S7-13-06, Task Order No. 0002.056

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Boulevard
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February 4, 2019

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EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of the Holden Business Park Site (the site), in Holden, Missouri. EPA's TBA program is designed to assist states, tribes, and local governments to minimize uncertainties regarding contamination often associated with Brownfields sites. TBAs supplement and align with other efforts under EPA's Brownfields Program to promote cleanup and redevelopment of Brownfields properties. The Johnson County Economic Development Corporation (JCEDC) in partnership with the City of Holden, Missouri (the City), requested that EPA perform a Phase II Environmental Site Assessment (ESA) for hazardous substances in accordance with the Missouri Department of Natural Resources (MDNR) Brownfields/Voluntary Cleanup Program (BVCP) to support planned redevelopment of the site.

START conducted this Phase II TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

Numerous environmental investigations have occurred at the site beginning in the mid-1980s when the southern portion of the site hosted a polychlorinated biphenyl (PCB) processing facility under the name Martha C. Rose Chemicals, Inc. (Rose Chemical); facility operations ceased in early 1986. EPA issued the first of three Administrative Orders on Consent (AOC) in November 1986 that ordered containerization and security of remaining PCB solids and liquids. Removal of the containerized waste was ordered under a second AOC in November 1987. This AOC also ordered completion of a Remedial Investigation/Feasibility Study (RI/FS) to determine the extent of PCB contamination on the site. The RI/FS revealed PCB and volatile organic compound (VOC) impacts on surface soils, subsurface soils, surface water, groundwater, and sediments on and off site. Several PCB compounds were detected, as well as several VOC compounds including the solvents tetrachloroethene (PCE) and trichloroethene (TCE). To address the contamination, EPA issued a Record of Decision (ROD) in March 1992 that specified the following remedial actions to be taken: removal and off-site disposal of PCB-contaminated soils and sediments, dismantlement and removal of the facility buildings, backfilling of excavated areas with clean soil, installation and monitoring of site groundwater, and an addition to the chain of title restricting future groundwater use. EPA issued a third AOC in 1992 directing the facility to perform a Remedial Design (RD) and to implement the RD by conducting a Remedial Action (RA). The RA, completed in 1995,

involved removal of more than 31,000 tons of contaminated soil. Monitoring of the site's groundwater continued until November 1999 when a Well Abandonment Closure Plan was approved by EPA. A Restrictive Covenant filed with the Johnson County Recorder's Office in 1997 disallowed installation of shallow groundwater wells except for the purposes of groundwater monitoring for possible contamination. The term of the covenant was set at 50 years from the date of record.

A Phase I Environmental Site Assessment of the site on behalf of the MDNR BVCP occurred in December 2016. The assessment revealed several Recognized Environmental Conditions (REC) including presence of petroleum storage containers and visibly stained soil and gravel at the adjoining Holden Street Department facility, and historical records of drycleaner and metal polish manufacturing facilities along McKissock Street. Additionally, the operation and resulting regulatory actions against Rose Chemicals were identified as a Historical Recognized Environmental Condition (HREC). The Phase I ESA report recommended completion of a Phase II ESA to address the identified RECs and HREC.

Purposes of this Phase II TBA were to determine if historical activities at the site and at properties surrounding the site had impacted soils and groundwater. During this investigation at the site, soil samples were collected for laboratory analysis, and results were compared to EPA Regional Screening Levels (RSL) and Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTL) and Risk-Based Target Levels (RBTL). Groundwater was not encountered during the assessment.

Findings of this Phase II TBA and recommendations are as follows:

A total of 41 soil samples, including 20 surface soil samples and 21 subsurface soil samples, were collected from 21 soil borings across the site (see Figure 3 of Appendix A). Soil borings were advanced during two field events, in December 2018 and January 2019. Samples collected during the December 2018 event (borings B-1 to B-10) were analyzed for PCBs, Metals, VOCs, semivolatile organic compounds (SVOC), and total petroleum hydrocarbons (TPH). Samples collected during the January 2019 event (borings B-11 to B-21) were analyzed for VOCs. Resulting concentrations were compared to EPA RSLs for industrial soil and MDNR LDTLs, and Tier 1 RBTLs for non-residential surface and subsurface soil.

In the approved Quality Assurance Project Plan (QAPP), groundwater sampling was proposed as part of the assessment; however, shallow bedrock prevented collection of groundwater by application of direct-push technology (DPT) methods. Notably, analytical results presented in the 1992 ROD had revealed that site groundwater had been impacted by site activities. Additional assessment may be

warranted to identify current groundwater conditions and whether impacts pose a significant threat of vapor intrusion into future structures on the site.

Arsenic concentrations exceeded EPA screening levels in all surface soil samples and in eight of the 10 subsurface soil samples analyzed for metals. Arsenic concentrations can be naturally occurring and routinely exceed these screening levels. No arsenic concentration in any soil sample exceeded the mean background concentration established for Johnson County, Missouri. Lead concentrations exceeded the MDNR LDTL in all surface soil samples and in nine of the 10 subsurface soil samples analyzed for metals. As with arsenic, lead concentrations can be naturally occurring, and no reported concentration exceeded the background concentration established for Johnson County, Missouri.

Three VOC analytes exceeded associated regulatory values in four soil samples. 4,6-Dinitro-2-methylphenol was detected in sample B-2 (12-14) at a concentration (57 µg/kg) exceeding the MDNR LDTL for soil of 2 µg/kg. PCE was detected in sample B-10 (12-14) at a concentration (3,800 µg/kg) exceeding the MDNR Tier 1 RBTL for subsurface soil of 3,110 µg/kg. PCE was also detected in sample B-10 (0-2) at a concentration (860 µg/kg) exceeding the MDNR LDTL for soil of 141 µg/kg. TCE was detected in sample B-3 (12-14) at a concentration (2,900 µg/kg) exceeding the EPA RSL of 1,900 µg/kg. A review of historical records pertaining to the site indicated that the VOC concentrations detected appear to be localized, residual impacts of the Rose Chemical facility (EPA 1992b). Further soil testing near the locations of these detections may be helpful in determining whether further remedial activity is necessary at the site.

1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Targeted Brownfields Assessment (TBA) of the Holden Business Park Site (the site) in Holden, Johnson County, Missouri. The assessment area includes the former location of the Martha C Rose Chemical (Rose Chemical) site (EPA ID. MOD980633069). EPA investigated that site in the late 1980s and early 1990s for releases of PCBs and VOCs during operation of a PCB processing facility there. The Johnson County Economic Development Corporation, in partnership with the City of Holden, Missouri (the City), requested assessment assistance under the TBA program from EPA Region 7 prior to redevelopment of the site. Tetra Tech conducted this TBA in general accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-97-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312) (ASTM 2011).

The following sections address the background and history of the site, describe Phase II TBA activities, present and evaluate analytical results, discuss findings, and offer conclusions.

1.1 PURPOSES

A purpose of this Phase II TBA was to determine if historical activities at the site had impacted soil and groundwater. During this investigation at the site, surface and subsurface soil samples were collected for laboratory analysis, and results were compared to EPA Regional Screening Levels (RSL) and Missouri Department of Natural Resources (MDNR) Lowest Default Target Levels (LDTL) and Risk Based Target Levels (RBTSL) for non-residential soil. Though collection of groundwater samples was proposed as part of the assessment, shallow bedrock prevented collection of groundwater samples. This Phase II TBA proceeded concurrently with an updated Phase I TBA and an Analysis of Brownfields Cleanup Alternatives (ABCA).

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during the Phase II TBA.

2.0 BACKGROUND AND SITE HISTORY

This section briefly describes the site: the physical setting, including geology, hydrogeology, and hydrology; site history; and a summary of previous assessments.

2.1 SITE DESCRIPTION AND FEATURES

The site encompasses approximately 29.2 acres of City-owned land north of W. 2nd Street and south of a railroad right-of-way (ROW) in the City of Holden, Johnson County, Missouri. The site is depicted on the U.S. Geological Survey (USGS) 7.5-minute series Holden, Missouri topographic quadrangle map (USGS 1959) in northeast ¼, Section 10, Township 45 north, Range 28 west (see Figure 1, Appendix A). Coordinates at the approximate center of the site are 38.720117 north latitude and 93.996503 west longitude (Google Earth 2018).

2.2 PHYSICAL SETTING

Most of the site is vacant land within the northwest portion of the City of Holden. Several structures historically present on the site were demolished in the early 1990s as part of a cleanup at the site. Currently, the City of Holden Street Department operates on the northeast portion of the site, and continuously operates on a portion of the eastern adjoining property. The site is bounded north by a railroad ROW; east by residential property (except for the property operated by the City), with commercial property beyond along W. 2nd and N. Lexington Streets; south by W. 2nd Street and a residential property; and west by pastureland, with a City-operated solid waste treatment facility beyond (see Figure 2, Appendix A).

2.2.1 Geologic Setting

Johnson County is within the Osage Plains of the Great Plains physiographic province. MDNR's GeoStrat website identified bedrock in the Holden area of western Johnson County as the Pennsylvanian-aged Marmaton Group. The Marmaton Group consists of cyclic deposits of shales, limestones, and sandstones, with some coal beds. The Marmaton Group is generally not considered to be water bearing. The Cherokee Group underlies the Marmaton and consists of thin sandstone and siltstone beds separated by shales containing some coal beds. The Cherokee Group contains more sandstone beds, while the Marmaton Group contains more limestones layers. The Mississippian-aged Burlington limestone underlies the Pennsylvanian rocks at about 500 feet below ground surface (bgs) (Miller and Vandike 1997, MDNR 2019a).

Dominant soil in the site vicinity consists of Sampsel and Haig series soils. The Haig silty clay loam forms from clayey loess on convex, nearly flat, ridgetops. The Sampsel silty clay loam forms from weathered alkali or calcareous shale and has 5 to 9 percent slopes. Both soil types are somewhat poorly drained and have slow permeability (USDA 1980, 2019).

Weathered shales have been encountered beneath clayey soils at the site; DPT refusal was encountered between 4 and about 15 feet bgs during the Phase II investigation. Limited records from previous investigations were available for review. MDNR well completion logs indicate that installations of now-abandoned Rose Chemical monitoring wells MW113 and MW114 encountered 8-13 feet of silty clay, and then alternating shales and limestone to 60 feet bgs (MDNR 2019a, b).

2.2.2 Hydrogeology

The site also lies within the West-Central Missouri groundwater province, generally north of the Springfield Plateau and west of the Salem Plateau where abundant, good-quality groundwater is produced from the Springfield Plateau, Ozark, and St. Francois aquifers in Mississippian and older strata. In the West-Central Missouri province, groundwater in these rocks is too highly mineralized for most uses. Low yields of marginal-quality water may be produced from sandstones or limestones in the Pennsylvanian-aged rocks (Miller and Vandike 1997).

The Holden Public Water Supply supplies water to a population of 2,389. It obtains surface water from an intake at Holden City Lake, about 3.5 miles northwest of the site. Johnson County Public Water District 2, which serves a population of 13,500 (including the Holden area), obtains groundwater from wells in eastern Johnson County, about 16 miles east of the site (EPA 2019, Center for Applied Research and Environmental Systems 2019).

Previous investigations in the 1990s indicated overburden permeabilities of 4×10^{-5} centimeters per second (cm/sec), and shale and limestone bedrock permeabilities of 1×10^{-7} cm/sec. Because of this difference in permeability, a small amount of groundwater becomes perched at the soil/bedrock interface. The flowrate for groundwater through the overburden was reported as 360 gallons per day (gpd), with an average linear velocity of 15 feet per year; this recharges the unnamed tributary at the southwestern portion of the site. The Englevale sandstone member in the Labette Formation, near the base of the Marmaton Group, reportedly has a hydraulic conductivity of 1×10^{-6} cm/sec. Groundwater in the sandstone member flows horizontally toward the northwest at approximately 1.2 gpd, average linear velocity of 0.03 feet per year. This groundwater discharges to outcrops in a ravine bottom for East Pine Oak Creek about 1.3 miles north

of the site. Additional shales and limestones of the Labette Group and underlying Cherokee Group are below the Englevale sandstone member. Hydraulic conductivities in the sandstone, as well as in the shale and limestone layers, are too low to render these aquifers viable. Contaminated groundwater could migrate through the shales and limestones to the sandstone member; however, the low hydraulic conductivities of the units suggest that over a long time only limited amounts of contaminant migration would occur (EPA 1992b).

2.2.3 Site Features

The City of Holden Street Department operates within the northern portion of the site. A helicopter landing pad with associated lighting is along the northeast boundary of the site. A concrete road provides access to the pad and connects to an east/west gravel drive that spans the northern portion of the site. A metal pre-fabricated shed and a Quonset hut are the only two permanent structures on the site, within the northern portion of the site. The metal shed contains several small roll-off dumpsters used for collection of recyclable materials (cardboard, newspaper, aluminum, etc.). The Quonset hut contains salt and sand material utilized by the Street Department. Two steel aboveground storage tanks (AST) are present within the City-operated portion of the site. The tanks are within a concrete secondary containment structure. The tanks appeared to be empty at the time of the assessment. The containment structure also served for chemical storage and contained approximately nine 55-gallon drums and several smaller containers of unknown contents. The area immediately south of the Quonset hut was used for miscellaneous equipment storage and included two shipping containers that held miscellaneous used furniture. West of the Street Department portion of the site along the east/west gravel drive, storage of organic materials (tree limbs, brush, grass clippings, etc.) and waste concrete were observed during the Phase II TBA (see Figure 2 of Appendix A).

Most of the southern portion of the site is vacant land currently maintained by the City of Holden. On a large strip of disturbed earth within this portion, a tractor pull community event occurs annually. The strip is lined with concrete jersey barriers on the north. Two sewer access manholes are present within the southern portion of the site. Appendix B contains a photographic log that shows current site conditions and features.

2.3 SITE HISTORY AND LAND USE

The development of the site began in the 1940s with construction of the structure just north of W. 2nd Street (see Figure 2 of Appendix A), referred to as the “South Warehouse” in historical records. This

structure is believed to have been operated by International Harvester as a repair shop. The larger structure north of the South Warehouse was built in several stages in the 1960s. This structure is described as the "Main Building" in historical records. Royal Industries, the first tenant of the Main Building, signed a lease with the City of Holden in June 1976. Royal Industries operated the Main Building as a farm implement assembly and painting facility. Royal Industries underwent a corporate restructure and merged with Lear Siegler, Inc. (Lear) in 1977 (EPA 1992b).

In 1979, Lear entered into a sub-lease agreement with W.C. Carolan Company, Inc., (Carolan), which then assigned Lear's option to purchase the facility property to Carolan. Carolan's principal owner, Walter Carolan, brought in a second company he owned, American Steel Works, to operate the purchased facility. Mr. Carolan eventually leased a portion of the facility to a separate company, "PCB Eliminators," which began disposal of polychlorinated biphenyls (PCB) there. PCB Eliminators operated for approximately 1 year before ceasing operations in 1982. PCB disposal activities included collection of PCB materials from regional municipalities, rural electric coops, and other businesses, followed by consolidation of the materials and shipment of those materials to other disposers. In 1982, Mr. Carolan appeared to continue operating the former PCB Eliminators facility under his own company, Rose Chemical. At this time, Mr. Carolan owned and operated several companies at the site including Dust Suppression, Inc.; American Steel Works, Inc.; W.C. Carolan Company, Inc.; and Rose Chemical. Rose Chemical operated until early 1986 and received approximately 23 million tons of PCB-containing materials. Operation at the site was granted under three approvals by EPA under 40 *Code of Federal Regulations* (CFR) Part 761 of the Toxic Substances Control Act (TSCA). Specifically, the facility was authorized to decontaminate mineral oil dielectric fluids containing PCBs at concentrations equal to or less than 10,000 parts per million (ppm), and to process PCB transformers and capacitors for disposal. The EPA authorizations required the facility to drain and flush the transformers and capacitors, disassemble them, and then clean salvageable parts prior to recycling. Records indicate that Rose Chemical utilized a sodium reduction process to detoxify the PCB-containing fluids. Subsequently it was discovered that approximately 14 million pounds of PCB materials had been abandoned on site following cessation of operations in 1986 (EPA 1992b).

The City of Holden Street Department currently operates in a facility on the northeastern portion of the site and a southern adjoining parcel.

2.4 SUMMARY OF PREVIOUS ASSESSMENTS

EPA Facility Inspections & Enforcements

Several assessments and enforcements were conducted at the site during operation of Rose Chemical as described in a 1992 Record of Decision (ROD) (EPA 1992b). The earliest assessment occurred in 1982 as a pre-operation inspection of the Rose Chemical facility by EPA. This inspection indicated no violations, and, at the time, few PCB materials were stored on site. An EPA inspection in November 1983 revealed several violations of 40 CFR Part 761. Specific violations included failure to properly label PCB items and storage of PCB-containing containers for more than 1 year. EPA issued an administrative complaint because of the violations identified during the inspection. A subsequent Consent Agreement in July 1984 required the facility to bring operations into compliance with 40 CFR Part 761 and to pay a civil penalty of $30,000 USD. In 1984, EPA conducted a compliance inspection of the facility to assess if the terms of the Consent Agreement were being enforced. The inspection not only revealed non-compliance with the terms of the Consent Agreement, but also the following new violations of 40 CFR Part 761:

- Non-compliance with the terms of the capacitor processing approval
- Non-compliance with the terms of the transformer processing approval
- Non-compliance with the terms of the oil processing approval
- Storage of PCBs and PCB items for more than 1 year
- Improper disposal of PCB items
- Improper records of the PCB items at the facility
- Three improperly marked PCB transformers
- Improper storage of PCBs resulting in spills inside the storage area
- Improper containment of PCBs.

Inspections and enforcement actions continued in 1985 with an inspection of the facility by the Occupational Safety and Health Administration (OSHA) in July that resulted in an issued order that required improvement in the worker protection program, and a fine. A second Consent Agreement signed by EPA in September 1985 required Rose Chemical to resubmit applications for all three processes previously approved by EPA prior to operation by January 1986, to implement an inventory control system by April 1986, to pay a civil penalty, and to come into compliance with all PCB regulations specified in 40 CFR Part 761. To assess compliance with the second Consent Agreement, EPA conducted inspections in December 1985 and again in January 1986. The two inspections revealed continued improper PCB storage that included storage of PCB items in wooden crates, in a large metal bin, in paper stacks, and in

transformers that had been partially disassembled by use of a torch. Continued storage of PCB items beyond 1 year was also observed, as well as poor condition of the required containment area.

In February 1986, Rose Chemical was notified by EPA that the processing approvals previously authorized by EPA would be revoked unless the facility would come into compliance with 40 CFR Part 761 and the previous two Consent Agreements by March 1986. Following receipt of this notice, Rose Chemical ceased operations and abandoned the site in late February 1986.

Following abandonment of the site, a release of PCB liquid from a tanker trailer was observed in May 1986. An estimated 200 gallons of PCB liquid had leaked from the tanker into an on-site holding pond and subsequently into an unnamed tributary of East Pin Oak Creek. EPA responded to the release by increasing site security and removing many drums containing elemental sodium, 1,1,1-trichloroethane (TCA), and the spilled PCB liquid. In response to the compliance failure and the PCB release, EPA issued a unilateral Administrative Order (AO) under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requiring the principal owner of Rose Chemical, Walter C. Carolan, and his related companies to develop and implement a plan for site cleanup. Mr. Carolan and his associated companies refused to comply with this order.

Administrative Orders and Removal Actions

Several regional entities that had generated PCB waste and sent materials to Rose Chemical formed the Rose Chemicals Steering Committee (RCSC) in spring 1986 to pursue response actions at the site. Under the Resource Conservation and Recovery Act of 1976 (RCRA), waste generators are wholly responsible for disposal of generated hazardous materials per a provision commonly referred to as “Cradle-To-Grave Responsibility.” Under this provision, EPA began notifying approximately 800 potentially responsible parties (PRP) in 1986, informing them of the problems at Rose Chemical and inviting them to voluntarily participate in response actions at the site. To address the site, the RCSC entered into two AOs with EPA Region 7. Under the first AO, effective November 1986, several initial response actions occurred on site that included construction of a security fence; provision of 24-hour security guard services; securing of on-site reactive chemicals; draining and containerization of liquids in several open pits; collection and disposal of miscellaneous debris; inventory and inspection of bulk storage tanks; initial sampling of surface soil, sludge, and air; and removal of PCB oil in tanks (EPA 1992b).

Under the first AO, removal of bulk liquids began in July 1987 and continued through December 1987. Approximately 165,000 gallons of liquids was removed and incinerated at Pyrochem in Coffeyville,

Kansas (EPA 1992b). Pyrochem was a joint venture of Westinghouse Electric Corporation and National Electric, Inc. (*Chemical Engineering News* 1987).

The second AO went into effect in October 1987 and required PRPs to initiate removal of PCB material and to perform a Remedial Investigation/Feasibility Study (RI/FS). RCSC began activities required by the second AO in March 1988 and completed them by October 1988. During this period, approximately 15 million pounds of liquid PCBs, PCB equipment, and PCB debris, as well as 3.6 million pounds of PCB-contaminated soil, were removed from the site. About 11.1 million pounds of material was incinerated at the Rollins Environmental Services facility in Deer Park, Texas. Disposal of materials not requiring incineration (10 million pounds) occurred at the Chemical Waste Management landfill in Emelle, Alabama. In total, 21.1 million pounds of PCB-contaminated material was removed from the site under the two AOs.

RI/FS

From January 1989 to January 1990, under EPA oversight, RCSC conducted the RI/FS, which included the following activities (EPA 1992b):

- A geologic and hydrogeologic study that included installation of a large groundwater well network (as many as 30 wells), and collection and analysis of site soil and groundwater samples.
- Collection and analysis of surface soil samples from excavation areas.
- Collection and analysis of surface tracking samples from present and former traffic routes to/from the site.
- A sewer investigation that included sediment and soil sampling from 11 test pits adjacent to on-site sewer structures.
- Collection and analysis of surface water and sediment samples from East Pin Oak Creek and its unnamed tributary, and from on-site surface water features (see Figure 2 of Appendix A).
- Collection and analysis of air quality samples.
- Analysis of site structures that included a structural evaluation, collection and analysis of wipe samples from building surfaces, collection and analysis of samples from slab concrete and insulation, and collection and analysis of subsurface samples from borings and two test trenches beneath the Main Building.

Soil samples collected during the RI/FS were analyzed for PCBs, VOCs, and SVOCs. A total of 37 soil borings were drilled during the assessment, allowing collections of surface and subsurface soil samples. Surface soils were analyzed only for PCBs. PCBs in surface soil were detected along the eastern portion of

the site within the operational footprint of Rose Chemical. The highest concentration of PCBs in surface soil (540 ppm) was found within a 50- by 50-foot grid at the southwest corner of the site near the South Warehouse structure. The RI/FS estimated the volume of PCB- and VOC-impacted surface soil requiring remediation as 2,600 cubic yards. Subsurface soil samples were collected from soil borings and test pits near the Main Building and adjacent to sub-grade sewers. The highest concentration of PCBs in subsurface soil (700 ppm) was detected in a sample collected from a test pit adjacent to the storm and sanitary sewers leading from the Main Building. The highest total VOCs concentration in subsurface soil (9,400 parts per billion [ppb]) was detected in a sample collected from a test pit near the Holden sanitary sewer. The RI/FS estimated the volume of PCB- and VOC-impacted subsurface soil requiring remediation as 1,200 cubic yards (EPA 1992b).

Sediment samples collected during the RI/FS were analyzed for PCBs, VOCs, and SVOCs. Samples were collected from East Pin Oak Creek, the unnamed tributary, and the on-site spill containment pond and associated drainage ditch. The highest concentration of PCBs in sediment (293 ppm) was detected in a sample collected from East Pin Oak Creek within a segment extending from the Holden Publicly Owned Treatment Works (POTW) outfall to approximately 500 feet downstream. Elevated PCB concentrations (as high as 122 ppm) were also detected in sediment samples collected from the on-site spill containment pond. Several VOCs were also detected in sediment samples. Most notably, PCE was detected at maximum concentration of 6 ppb, and TCE was detected at maximum concentration of 53 ppb. (The RI/FS estimated the volume of PCB- and VOC-impacted sediment that would require remediation as approximately 826 cubic yards [EPA 1992b]).

During the RI/FS, surface water samples were collected from East Pin Oak Creek, the unnamed tributary, the spill containment pond, a concrete pit near the Main Building, and the storm sewer discharge point to the unnamed tributary. Samples were analyzed for PCBs, VOCs, and SVOCs. The highest concentration of PCBs in surface water (21 micrograms per liter [µg/L]) was detected in a sample collected from East Pin Oak Creek. Total VOCs concentrations in surface water were highest in samples collected in the concrete pit near the Main Building. Specifically, concentrations of 1,1-dichloroethene (DCE) (68 µg/L), 1,1,1-TCA (490 µg/L), 1,2,4-trichlorobenzene (410 µg/L), and 1,2,4,5-tetrachlorobenzene (230 µg/L) were elevated in these samples. PCE and TCE were also detected in surface water samples at maximum concentrations of 8 and 9 ppb, respectively. The highest total VOCs concentration among samples not collected from the concrete pit (78 µg/L) was detected in a sample from East Pin Oak Creek (EPA 1992b).

During the RI/FS, groundwater samples were collected in four rounds from the installed monitoring wells. Samples were analyzed for PCBs, VOCs, and SVOCs. It was suspected that samples from rounds 1 and 2 may have been contaminated with airborne dust that could contain PCBs. Changes in sampling methodology in rounds 3 and 4 were implemented to address this concern. The highest concentration of PCBs detected in groundwater samples (22.5 µg/L) was in a sample from a monitoring well immediately southwest of the Main Building. The highest concentration of VOCs detected in groundwater samples (75,300 ppb) was detected in monitoring well MW-204, immediately north of the Main Building. PCBs were not detected above detection limits in any sample collected during round 4 (EPA 1992b).

Air samples were collected during the RI/FS to monitor potential exposure to site workers. Particulate concentrations ranged from 0.2 to 0.5 milligrams per cubic meter (mg/m^3) and did not contain concentrations of PCBs or VOCs above detection limits (EPA 1992b).

Wipe samples were collected in both the Main Building and South Warehouse. The highest concentration of PCBs in wipe samples (1,160,000 micrograms per 100 cubic centimeters [$\mu g/100\ cm^2$]) was in a wipe sample from the floor of the Main Building. Concrete samples were also collected from the slab of on-site structures. The highest concentration of PCBs in concrete samples (670,000 ppm) was collected from the slab of the Main Building. Insulation cores were collected from both on-site structures and analyzed for PCBs. The highest concentration of PCBs in insulation (25,800 micrograms/sample) was collected from the ceiling of the Main Building. The RI/FS estimated the volume of PCB-impacted building materials requiring remediation as 4,620 tons for the Main Building and 462 tons for the South Warehouse.

As part of the RI/FS process, remedial actions were proposed to address site contamination in order to limit exposure of site contaminants to future human occupancy.

Based on the above-described criteria, EPA selected the sixth alternative proposed in the RI/FS. The sixth alternative includes a combination of disposal and treatment methods to address contaminated media, removal and disposal of site structures, deed restrictions to restrict shallow groundwater wells, and groundwater monitoring for a minimum 10-year period. EPA estimated that the alternative would cost approximately 13,600,000 USD and would take approximately 15 months to complete (EPA 1992b).

Post-RI/FS Assessments

To complete the remedial alternative chosen during the RI/FS, a third AOC was issued by EPA in September 1992 directing RCSC to perform a Remedial Design (RD) and to implement the RD via a Remedial Action (RA). The RA was completed in July 1995 (Seagull Environmental Technologies

[Seagull] 2016). Groundwater monitoring continued at the site until 1999 when EPA approved a Well Abandonment Closure Plan submitted by RCSC (EPA 1999). MDNR records indicate that 29 monitoring wells were decommissioned in January 2000 by Clean Sites, Inc., in accord with MDNR regulations. Well plugging forms were included for MW101 through MW115, excluding MW108; and for MW201 through MW215. Well completion forms dated as 1994-1995 were available for MW112 through MW115 and MW212 and MW213 (MDNR 2019b).

A Limited Geotechnical Exploration was completed in September of 2014 on the site for the Pioneer Trails Regional Planning Commission. The exploration included advancement of two borings to depths between 15 and 19.5 feet bgs. Nine soil samples were collected via a combination of collection methods that included thin-walled Shelby tube and a split barrel sampler (commonly referred to as a "split spoon"). The exploration report described soil conditions as generally lean to fat clay soils underlain by weathered shale bedrock. Bedrock was encountered between 13.5 and 19 feet bgs. Groundwater was encountered only in one of the borings, at a static level of approximately 13.5 feet bgs, measured after drilling at 8.6 feet bgs. The report indicated that conditions were sufficient to support light to moderately loaded structures on shallow foundations. Recommendation was to construct intermediate or deep foundation systems for heavily loaded structures (Olsson Associates [Olsson] 2014).

Seagull completed a Phase I ESA in 2016 for MDNR BVCP, identifying three RECs involving visible staining and chemical storage at the City of Holden Street Department, and historical drycleaning and metal polish manufacturing facilities upgradient of the site. Presence of the Rose Chemical facility was identified as an HREC. The assessment recommended a Phase II investigation to determine whether historical contamination, because of operation of Rose Chemical or the identified RECs, would pose a risk to future development of the property as a business park (Seagull 2016).

3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES

The following sections describe the scope of the Phase II TBA, methods applied, and field exploration. START members Joshua Mellema, Lauren Holt, and Jenna Mead conducted field activities in two phases, in December 2018 and January 2019.

3.1 SCOPE OF THE ASSESSMENT

START conducted environmental sampling to determine if soil and/or groundwater had been impacted by historical activities at the site, as well as to identify geological conditions at the site pertaining to future development. Sampling proceeded in accordance with an EPA-approved QAPP (Tetra Tech 2018).

3.1.1 Conceptual Site Model and Sampling Plan

The proposed sampling scheme for collection of soil and groundwater samples was biased/judgmental, in accordance with the Guidance for Performing Site Inspections under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (EPA 1992a). Objectives were to determine soil and groundwater quality in anticipation of future development of the site.

START collected 41 surface and subsurface soil samples from 21 soil borings by application of a DPT drilling method (see Figure 3 of Appendix A). Generally, surface samples were collected within the 0- to 2-foot bgs interval, and subsurface samples were collected within the interval immediately above DPT refusal. Additionally, to provide a measure of data quality, four quality assurance (QA) / quality control (QC) samples were collected. Groundwater was not encountered during the assessment. Sampling methods and activities are described in Section 3.2.

3.1.2 Chemical Testing Plan

Laboratory analyses for chemical parameters were selected based on possibly present contaminants associated with historical uses of the site and surrounding properties. All samples were submitted to the START-contracted laboratory ALS Environmental (ALS) of Holland, Michigan, for analyses. All samples were analyzed according to standard operating procedures (SOP) and methods specified in the site-specific QAPP, which had been approved by EPA in 2018. Appropriate containers and physical/chemical preservation techniques were employed during field activities to help ensure acquisition of representative analytical results. Table 1 lists analytical methods applied to collected samples.

TABLE 1

SAMPLE ANALYTICAL METHODS
HOLDEN BUSINESS PARK SITE – HOLDEN, MISSOURI

Samples	Analytical Methods
Surface Soil (Borings 1-10) *9 Samples*	PCBs via EPA Method SW846 8082 Mercury via EPA Method SW846 7471B RCRA Metals via EPA Method SW846 6010C Diesel-Range Organics via EPA Method SW846 8270 SVOCs via EPA Method SW846 8270D Gasoline-Range Organics via EPA Method SW846 8260GRO VOCs via EPA Method SW846 8260C
Subsurface Soil (Borings 1-10) *10 Samples*	PCBs via EPA Method SW846 8082 Mercury via EPA Method SW846 7471B RCRA Metals via EPA Method SW846 6010C Diesel-Range Organics via EPA Method SW846 8270 SVOCs via EPA Method SW846 8270D Gasoline-Range Organics via EPA Method SW846 8260GRO VOCs via EPA Method SW846 8260C
Surface Soil (Borings 11-21) *11 Samples*	VOCs via EPA Method SW846 8260C
Subsurface Soil (Borings 11-21) *11Samples*	VOCs via EPA Method SW846 8260C

Notes*:*

Surface soil is defined as soil between 0 and 2 feet below ground surface.

EPA U.S. Environmental Protection Agency
PCB Polychlorinated biphenyl
RCRA Resource Conservation and Recovery Act
SVOC Semivolatile organic compound
VOC Volatile organic compound

3.1.3 Deviations from the QAPP

Deviations from the QAPP and rationales for these are as follows:

Groundwater was not encountered during the assessment. Weathered bedrock induced DPT refusal, and no perched groundwater was encountered on top of competent bedrock. An attempt was made at boring locations B-1, B-3, and B-5 to collect groundwater in a temporary polyvinyl chloride (PVC) piezometer. The piezometer was installed and allowed to remain in the open bore hole for approximately 24 hours. After this time, water levels were checked, and no measurable groundwater had accumulated.

Shallow refusal was encountered at boring location B-4 (~4 feet bgs). The boring was offset to the south by approximately 3 feet. The offset boring also encountered shallow refusal. Due to the shallow refusal and limited sampling interval, only one soil sample was collected (2-4 feet bgs).

The original QAPP specified collection of samples from 10 borings. Following receipt of analytical data from the first 10 borings, it was decided that the data were insufficient to reach assessment goals. In January 2019, 21 additional soil samples were collected from 11 additional DPT borings advanced within the northern portion of the assessment area.

3.2 FIELD EXPLORATION AND METHODS

Field activities at the site occurred during separate field events in December 2018 and January 2019. START members Joshua Mellema, Lauren Holt, and Jenna Mead completed sampling events. See Appendix B for a photographic log of sampling activities. Log book entries describing sampling activities are in Appendix C.

3.2.1 DPT Surface and Subsurface Soil Sampling

On December 10-11, 2019 START subcontractor, Plains Environmental of Salina, Kansas (Plains), completed 10 DPT borings ranging in total depths from 4 to 15 feet bgs. An additional 11 borings were advanced by Plains on January 16, 2019, to depths ranging from 9 to 12 feet bgs. Soil cores were obtained by use of a truck-mounted Geoprobe Systems 5410 DPT rig fixed with a stainless steel, 4-foot continuous sampler. Cores were opened and immediately screened by use of a Rae Systems MiniRAE 3000 photoionization detector (PID) utilizing a 10.6 election volt (eV) lamp. During the January 2019 mobilization, ambient moisture content interfered with PID measurements, resulting in no or limited PID data from borings 12-17, 19, and 21. A START geologist logged pertinent physical and geological characteristics of cores before samples from these were placed into laboratory-provided sample containers.

All sample containers were stored in a cooler maintained at a temperature at or below 4 degrees Celsius (˚C). Samples were shipped via FedEx to ALS in Holland, Michigan, a START-approved contract laboratory, on December 11, 2018, and January 18, 2019. Table 2 below lists boring locations and sampling information. Figure 2 of Appendix A shows sample locations. Pertinent data, including sample locations, depths, and soil conditions and attributes were recorded on individual boring logs (see Appendix D). A copy of the chain of custody is included with the Analytical Report provided by ALS in Appendix E.

TABLE 2

SURFACE AND SUBSURFACE SOIL SAMPLE SUMMARY
HOLDEN BUSINESS PARK SITE - HOLDEN, MISSOURI

Boring Number	Sample Interval (feet bgs)	Sample Date	Sample Time	Coordinates
B-1	0-2	12/10/2018	12:30	38.719286
	10-12		13:05	-93.995286
B-2	0-2	12/10/2018	13:55	38.719246
	12-14		13:55	-93.996176
B-3	0-2	12/10/2018	14:10	38.718246
	12-14		14:30	-93.996197
B-4	2-4	12/10/2018	14:45	38.718628 -93.995779
B-5	0-2	12/10/2018	15:00	38.718990
	13-15		15:15	-93.996839
B-6	0-2	12/10/2018	15:35	38.719779
	8-10		15:55	-93.998163
B-7	0-2	12/11/2018	09:15	38.719646
	4-6		09:35	-93.996088
B-8	0-2	12/11/2018	09:50	38.719574
	8-10		10:15	-93.996603
B-9	0-2	12/11/2018	10:25	38.720023
	6-8		10:40	-93.996822
B-10	0-2	12/11/2018	10:50	38.720259
	12-14		11:15	-93.995784
B-11	0-2	1/16/2019	08:25	38.720118
	10.5-11.5		08:48	-93.994506
B-12	0-2	1/16/2019	09:00	38.720139
	9.5-10.5		09:19	-93.994675
B-13	0-2	1/16/2019	09:35	38.720022
	11-12		09:50	-93.994632
B-14	0-2	1/16/2019	10:08	38.720253
	10-11		10:15	-93.995057
B-15	0-2	1/16/2019	10:26	38.720504
	8-9		10:39	-93.994673
B-16	0-2	1/16/2019	10:50	38.720424
	10.5-11.5		11:15	-93.995142
B-17	0-2	1/16/2019	11:28	38.720349
	9-10		11:40	-93.995404
B-18	0-2	1/16/2019	12:45	38.720436
	9-10		12:55	-93.995564
B-19	0-2	1/16/2019	13:10	38.720977
	8-9		13:20	-93.995344
B-20	0-2	1/16/2019	13:36	38.720810
	9-10		13:45	-93.996072
B-21	0-2	1/16/2019	13:56	38.720961
	10-11		14:05	-93.996777

Note:

bgs Below ground surface

3.2.2 Quality Control Sampling

QC samples were collected during the assessment to provide a measure of overall data quality. Specific samples collected included trip blanks, rinse blanks, and field duplicates. Soil and water trip blank samples (one for each media) were prepared by the START-contracted analytical laboratory to assess sample handling procedures. A rinse blank was collected to assess decontamination procedures. The rinse sample was collected from the cutting shoe of the DPT rig following standard decontamination procedures. The rinse blank was prepared by START member Joshua Mellema. Three duplicate samples were collected to assess laboratory precision. In accordance with the EPA-approved QAPP, three duplicate samples were collected during the assessment. Table 3 below lists QC samples collected as part of the Phase II TBA.

TABLE 3

QC SAMPLE SUMMARY
HOLDEN BUSINESS PARK SITE – HOLDEN, MISSOURI

Sample Name	Sample Preparation	Sample Date	Sample Time
Trip Blank (Soil)	Laboratory Blank	12/12/2018	N/A
Trip Blank (Water)	Laboratory Blank	12/12/2018	N/A
Rinse Blank	Field Prepared	12/11/2018	11:20
Duplicate	Field Prepared	12/11/2018	10:25
Dup-1	Field Prepared	1/16/2019	13:36
Dup-2	Field Prepared	1/16/2019	14:05

Notes:

Duplicate sample collected with sample B-9 (0-2).
Dup-1 sample collected with sample B-20 (0-2).
Dup-2 sample collected with sample B-21 (10-11).
Rinse blank collected from the cutting shoe of DPT sampler.

N/A Not Available
QC Quality control

4.0 DATA VERIFICATION, VALIDATION, AND QUALITY ASSESSMENT

The QA objective for this project was to provide valid data of known and documented quality. As such, laboratory data packages have been verified and validated by a qualified Tetra Tech chemist.

5.0 PRESENTATION AND EVALUATION OF RESULTS

The following sections summarize analytical data from samples collected during the Phase II TBA. Only analytes detected at concentrations above regulatory screening levels are reported in this section. Data tables listing concentrations of analytes exceeding laboratory detection limits are in Appendix F. The complete analytical report provided by the START-approved laboratory, ALS, is in Appendix E. See Figure 3 of Appendix A for sample locations.

Results from surface and subsurface soil samples were compared to EPA RSLs for industrial soil. RSLs had been conservatively calculated, assuming a target risk value of 1.0×10^{-6} and a target hazard quotient value of 0.1 (EPA 2018). Additionally, sample results were compared to MDNR LDTLs and Tier 1 RBTLs for non-residential soil. Tier 1 RBTLs have been established for surface and subsurface samples. Samples collected within 0-2 feet bgs were compared to surface RBTLs, while samples collected deeper than 2 feet bgs were compared to subsurface RBTLs.

Concentrations of RCRA metals in soil can be naturally occurring and can often exceed established regulatory values. To provide a general assessment considering background concentrations, mercury, arsenic, lead, and selenium concentrations also were compared to USGS mean background soil concentrations in Johnson County, Missouri (USGS 2018).

5.1 SURFACE SOIL SAMPLES

Exceedances of EPA RSL Values

Concentrations of arsenic exceeded the EPA RSL value of 3 milligrams per kilogram (mg/kg) in all nine surface soil samples submitted for metals analysis. Arsenic concentrations ranged from 5.5 mg/kg in B-7 (0-2) to 10 mg/kg in B-5 (0-2). No other analyte concentration exceeded an EPA RSL.

Exceedances of MDNR LDTLs

Concentrations of arsenic exceeded the MDNR LDTL value of 3.89 mg/kg in all nine surface soil samples submitted for metals analysis. Arsenic concentrations ranged from 5.5 mg/kg in B-7 (0-2) to 10 mg/kg in B-5 (0-2). Concentrations of lead exceeded the MDNR LDTL value of 3.74 mg/kg in all nine surface soil samples submitted for metals analysis. Lead concentrations ranged from 9.1 mg/kg in B-6 (0-2) to 39 mg/kg in B-9 (0-2). Concentrations of tetrachloroethene (PCE) exceeded the MDNR LDTL value of

141 µg/kg in sample B-10 (0-2) (860 µg/kg). PCE was not detected in any other surface soil sample submitted for analysis.

Exceedances of MDNR Tier 1 RBTLs (Non-Residential)

In no surface soil sample did an analyte concentration exceed a Tier 1 RBTL. RBTLs had been calculated under the non-residential scenario, silty soil matrix.

Jackson County Background Exceedances

Background concentrations of analytes in Johnson County, Missouri, were obtained from USGS (USGS 2018). Values were reported either in ppm or percent weight (%w). These values were converted to mg/kg for comparisons to analytical data. Although arsenic and lead concentrations exceeded regulatory screening levels, concentrations did not exceed arsenic (17.479 mg/kg) or lead (35.174 mg/kg) background concentrations in Johnson County, with the exception of the lead concentration at B-9 (39 mg/kg). Metal concentrations can be naturally occurring, and commonly exceed established regulatory values. Table 4 below compares analytical concentrations in surface soil exceeding regulatory screening values.

TABLE 4

SUMMARY OF SIGNIFICANT ANALYTE CONCENTRATIONS IN SURFACE SOIL
HOLDEN BUSINESS PARK – HOLDEN, MISSOURI

Analyte	Units	EPA RSL	MDNR RBTL	MDNR LDTL	JCB	B-1	B-2	B-3	B-5	B-6	B-7	B-8	B-9	B-10
Arsenic	mg/kg	3	15.9	3.89	17.479	**7**	**6.2**	**5.5**	**10**	**6.4**	**5.5**	**5.9**	**7**	**6.7**
Lead	mg/kg	800	660	3.74	35.174	**14**	**15**	**14**	**30**	**9.1**	**10**	**9.9**	**39**	**22**
PCE	µg/kg	39,000	52,700	141	N/A	ND	ND	ND	ND	ND	ND	ND	ND	**860**

Notes:

All samples collected within the 0- to 2-foot bgs interval.
Bold Shading: Concentration exceeds laboratory detection limits.
Yellow Shading: Concentration exceeds MDNR LDTL.
Concentrations that exceed multiple screening levels are shaded with the corresponding color of the highest screening level.
Samples from B-11 to B-21 were not analyzed for metals.

bgs	Below ground surface	mg/kg	Milligrams per kilogram
EPA	U.S. Environmental Protection Agency	N/A	Not available
JCB	Johnson County background concentrations	ND	Not detected above laboratory detection limits
LDTL	Lowest Default Target Level	RBTL	Risk-Based Target Level (non-residential scenario)
MDNR	Missouri Department of Natural Resources	RSL	Regional Screening Level
µg/kg	Micrograms per kilogram		

5.2 SUBSURFACE SOIL SAMPLES

Exceedances of EPA RSL Values

Concentrations of arsenic exceeded the EPA RSL value of 3 mg/kg in eight of the 10 subsurface samples submitted for metals analysis. Arsenic concentrations ranged from 0.66 mg/kg in B-5 (13-15) to 16 mg/kg in B-9 (6-8). Concentration of TCE exceeded the EPA RSL of 1,900 micrograms per kilogram (µg/kg) in one sample submitted for VOC analysis. TCE was reported at 2,900 µg/kg in sample B-3 (12-14). No other analyte concentration exceeded an EPA RSL.

Exceedances of MDNR LDTLs

Concentrations of arsenic exceeded the MDNR LDTL value of 3.89 mg/kg in eight of the 10 subsurface samples submitted for metals analysis. Arsenic concentrations ranged from 0.66 mg/kg in B-5 (13-15) to 16 mg/kg in B-9 (6-8). Concentrations of lead exceeded the MDNR LDTL value of 3.74 mg/kg in nine of the 10 subsurface samples submitted for metals analysis. Lead concentrations ranged from 2.7 mg/kg in B-5 (13-15) to 24 mg/kg in B-8 (8-10). Concentrations of 4,6-dinitro-2-methylphenol exceeded the MDNR LDTL of 2 µg/kg in sample B-2 (12-14) (57 µg/kg). Concentrations of PCE exceeded the MDNR LDTL value of 141 µg/kg in sample B-10 (12-14) (3,800 µg/kg). Concentrations of TCE exceeded the MDNR LDTL value of 141 µg/kg in sample B-3 (12-14) (2,900 µg/kg). No additional analytes were detected in concentrations exceeding their respective MDNR LDTL values.

Exceedances of MDNR Tier 1 RBTLs

Concentrations of PCE exceeded the MDNR Tier 1 RBTL of 3,110 µg/kg in one sample submitted for VOC analysis. PCE was reported at 3,800 µg/kg in sample B-10 (12-14). No other analyte concentration exceeded an MDNR Tier 1 RBTL.

Johnson County Background Exceedances

Although arsenic and lead concentrations exceeded regulatory screening levels, concentrations did not exceed the background concentration of arsenic (17.479 mg/kg) and lead (35.174 mg/kg) in Johnson County. Metal concentrations can be naturally occurring, and commonly exceed established regulatory values. Table 5 below compares analytical concentrations in subsurface soil to regulatory screening values.

TABLE 5

SUMMARY OF SIGNIFICANT ANALYTE CONCENTRATIONS IN SUBSURFACE SOIL
HOLDEN BUSINESS PARK – HOLDEN, MISSOURI

Analyte	Units	EPA RSL	MDNR RBTL	MDNR LDTL	JCB	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
						Depth (feet bgs)									
						10-12	12-14	12-14	2-4	13-15	8-10	4-6	8-10	6-8	12-14
Arsenic	mg/kg	3	15.9	3.89	17.479	**2.7**	**4.8**	**14**	**14**	**0.66**	**13**	**10**	**10**	**16**	**11**
Lead	mg/kg	800	3.74	3.74	35.174	**10**	**9.3**	**19**	**21**	**2.7**	**14**	**15**	**24**	**16**	**13**
4,6-Dinitro-4-methylphenol	µg/kg	4.1×10^6	6.7×10^5	2	N/A	ND	**57**	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/kg	39,000	3,110	141	N/A	ND	ND	ND	**17 J**	ND	ND	ND	ND	ND	**3,800**
Trichloroethene	µg/kg	1,900	15,300	141	N/A	ND	ND	**2,900**	ND	ND	ND	ND	ND	ND	ND

Notes:

Bold Shading: Concentration exceeds laboratory detection limits.
Yellow Shading: Concentration exceeds MDNR LDTL.
Orange Shading: Concentration exceeds EPA RSL.
Red Shading: Concentration exceeds MDNR subsurface RBTL.
Concentrations that exceed multiple screening levels are shaded with the corresponding color of the highest screening level.
Samples from B-11 to B-21 did not have analyte concentrations reported above regulatory screening levels.

bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
J	Value is a laboratory estimate
JCB	Johnson County Background concentrations
LDTL	Lowest Default Target Level
MDNR	Missouri Department of Natural Resources
µg/kg	Micrograms per kilogram
mg/kg	Milligrams per kilogram
N/A	Not available
ND	Not detected above laboratory detection limits
RBTL	Risk-Based Target Level (non-residential scenario)
RSL	Regional Screening Level

5.3 QUALITY CONTROL SAMPLES

All QC samples from the December 2018 sampling event were submitted to the START-contracted analytical laboratory for analyses for VOCs, SVOCs, PCBs, Metals, and TPH – gasoline-range organics (GRO) / diesel-range organics (DRO) / oil-range organics (ORO). QC samples collected during the January 2019 sampling event were submitted to the START-contracted analytical laboratory for analysis for VOCs. Analytical results are conveyed below.

Blank Samples:

Four blank samples were analyzed by the contract laboratory. The samples included three trip blank samples and one rinse blank sample. Trace detections of VOCs were reported in all four blank samples, including di-n-butyl phthalate, acetone, chloroform, chloromethane, methyl acetate, and methylene chloride. The detected compounds are common laboratory contaminants introduced during analysis, and therefore not considered to exert significant impact on data quality.

Duplicate Samples:

Three duplicate samples were collected during the assessment. Duplicate sample “Duplicate” was collected with sample B-9 (0-2), duplicate sample “Dup-1” was collected with sample B-20 (0-2), and duplicate sample “Dup-2” was collected with sample B-21 (10-11).

6.0 DISCUSSION OF FINDINGS AND CONCLUSIONS

EPA tasked START to complete a Phase II TBA of the Holden Business Park Site in Holden, Missouri. The assessment was to support proposed redevelopment of the property into a commercial business park. The southern portion of the assessment area is the former location of the Rose Chemical facility, which operated a PCB processing center on site during the 1980s. Several environmental assessments of the site have been completed, and several EPA Administrative Orders on Consent and a ROD have been issued.

A total of 41 soil samples, including 20 surface soil samples and 21 subsurface soil samples, were collected from 21 soil borings across the site (see Figure 3 of Appendix A). Soil borings were advanced during two field events, in December 2018 and January 2019. Samples collected during the December 2018 event (borings B-1 to B-10) were analyzed for PCBs, Metals, VOCs, SVOCs, and TPH-DRO/ORO/GRO. Samples collected during the January 2019 event (borings B-11 to B-21) were analyzed for VOCs. Analytical concentrations were compared to EPA RSLs for industrial soil and MDNR LDTLs and Tier 1 RBTLs for non-residential surface and subsurface soil.

In the EPA-approved QAPP, groundwater sampling was proposed as part of the assessment; however, shallow bedrock prevented collection of groundwater by application of DPT methods. Notably, according to analytical results presented in the 1992 ROD, site groundwater is known to have been impacted by site activities. Additional assessment may be warranted to identify current groundwater conditions and whether the impacts pose a significant threat of vapor intrusion into future structures on the site.

Arsenic concentrations exceeded EPA screening levels in all surface soil samples and in eight of the 10 subsurface soil samples analyzed for metals. Arsenic concentrations can be naturally occurring and routinely exceed these screening levels. No arsenic concentration in any soil sample exceeded the USGS mean background concentration established for Johnson County, Missouri. Lead concentrations exceeded the MDNR LDTL in all surface soil samples and in nine of the 10 subsurface soil samples analyzed for metals. As with arsenic, lead concentrations can be naturally occurring, and only one reported concentration exceeded the USGS background concentration established for Johnson County, Missouri.

Three VOC analytes exceeded associated regulatory values in four soil samples. 4,6-Dinitro-2-methylphenol was detected in sample B-2 (12-14) at a concentration (57 µg/kg) exceeding the MDNR LDTL for soil of 2 µg/kg. PCE was detected in sample B-10 (12-14) at a concentration (3,800 µg/kg) exceeding the MDNR Tier 1 RBTL for subsurface soil of 3,110 µg/kg. PCE was also detected in sample B-10 (0-2) at a concentration (860 µg/kg) exceeding the MDNR LDTL for soil of 141 µg/kg. TCE was

detected in sample B-3 (12-14) at a concentration (2,900 µg/kg) exceeding the EPA RSL of 1,900 µg/kg. A review of historical records pertaining to the site indicated that the VOC concentrations detected appear to be localized, residual impacts of the Rose Chemical facility (EPA 1992b). Further soil testing near the locations of these detections may be helpful in determining whether further remedial activity is necessary at the site.

7.0 REFERENCES

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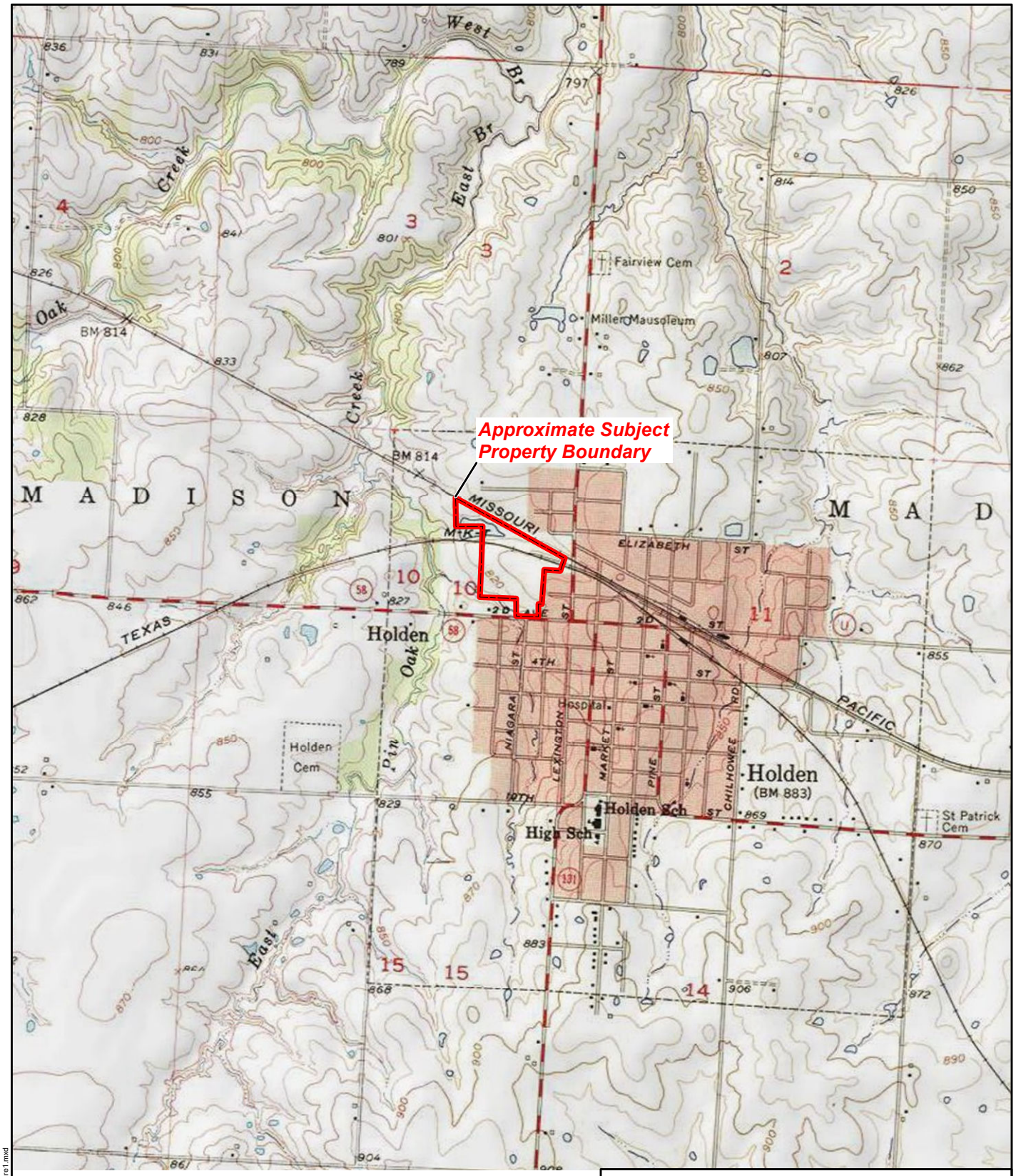
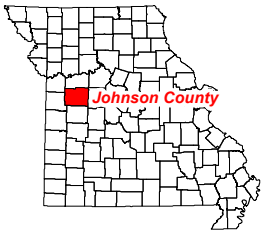
APPENDIX A

FIGURES





N

0 1,000 2,000

Feet

Source: USGS Holden, MO 7.5 Minute Topo Quad, 1959; USGS Kingsville, MO 7.5 Minute Topo Quad, 1959

Holden Business Park
Holden, Missouri

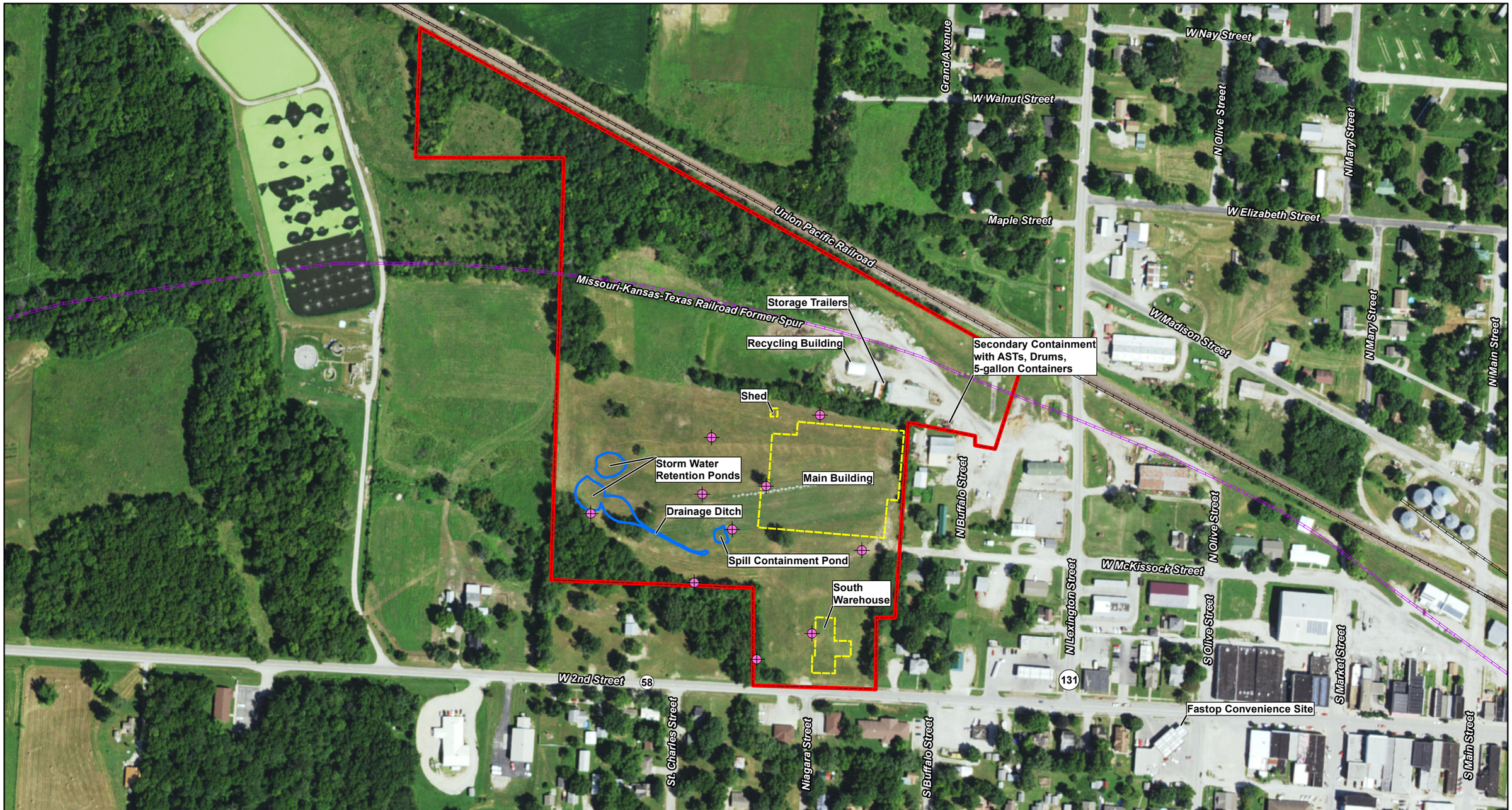
Figure 1

Site Location Map

TETRA TECH

Date: 1/20/2019 Drawn By: Nick Wiederholt Project No: X9025.14.0002.056

C:\GIS_Workspace\X\G\9025\0002\056\Projects\mxd\Figure1.mxd



Legend

- Former monitoring well location
- Existing railroad
- Former railroad spur
- Approximate subject property boundary
- Former structure
- Former surface water feature
- AST Aboveground storage tank

Note: Locations of former features are approximate and derived from the sourced georeferenced figure.

N

0 125 250

Feet

Holden Business Park
Holden, Missouri

Figure 2
Site Layout Map

TETRA TECH

Date: 1/29/2019 Drawn By: Nick Wiederholt Project No: X9025.14.0002.056

Source: NAIP, 2016; U.S. Environmental Protection Agency (EPA), Record of Decision, Martha C. Rose Chemicals Site, Holden, Missouri, Figure 2 - Site Layout, 1992

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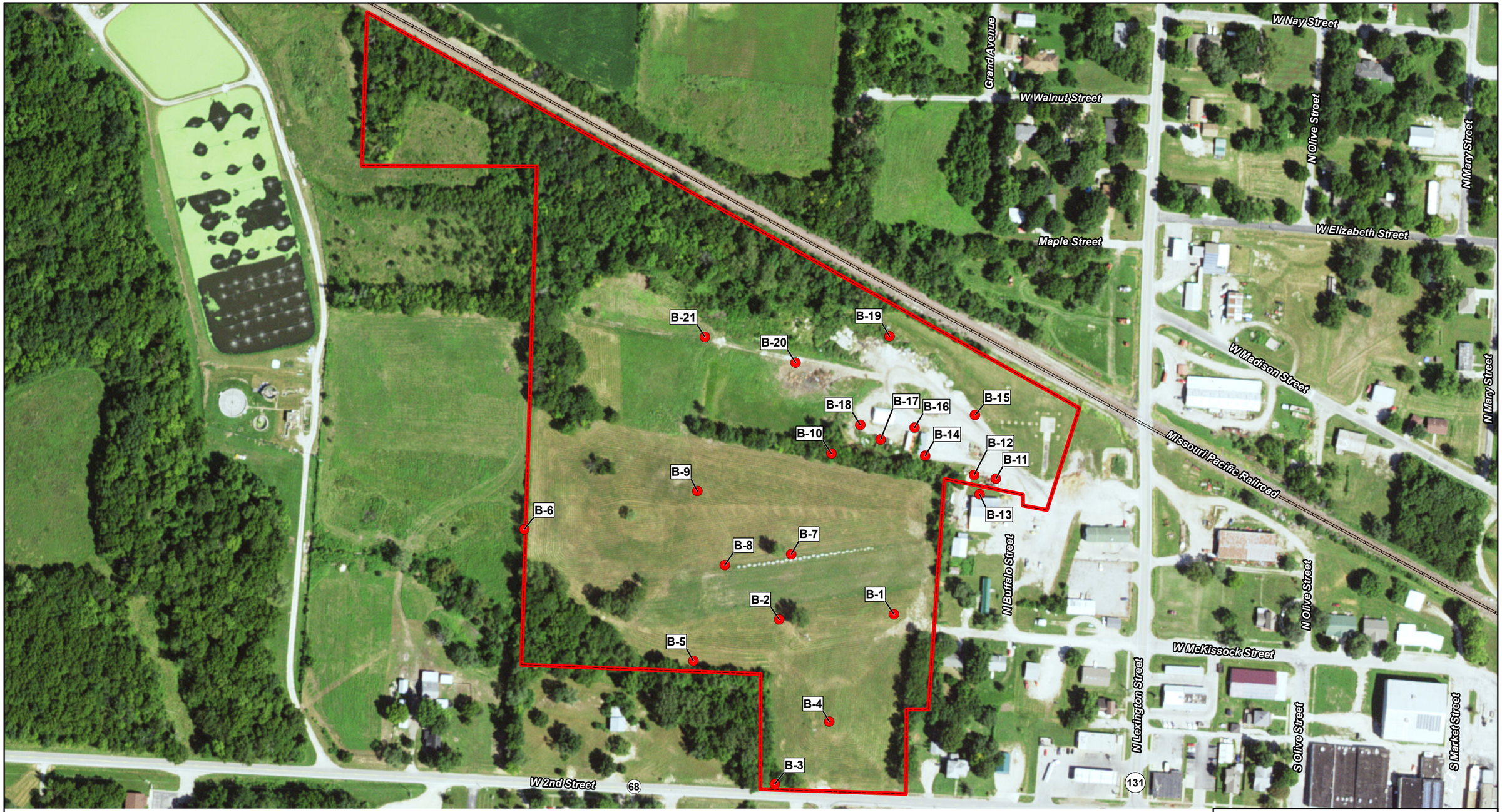


Legend

- DPT soil boring location (December 2018 - January 2019)
- Existing railroad
- Approximate subject property boundary

DPT Direct push technology

N

0 105 210

Feet

Holden Business Park
Holden, Missouri

Figure 3
Sample Location Map

TETRA TECH

Date: 1/29/2019 Drawn By: Nick Wiederholt Project No: X9025.14.0002.056

Source: NAIP, 2016; U.S. Environmental Protection Agency (EPA), Record of Decision, Martha C. Rose Chemicals Site, Holden, Missouri, Figure 2 - Site Layout, 1992

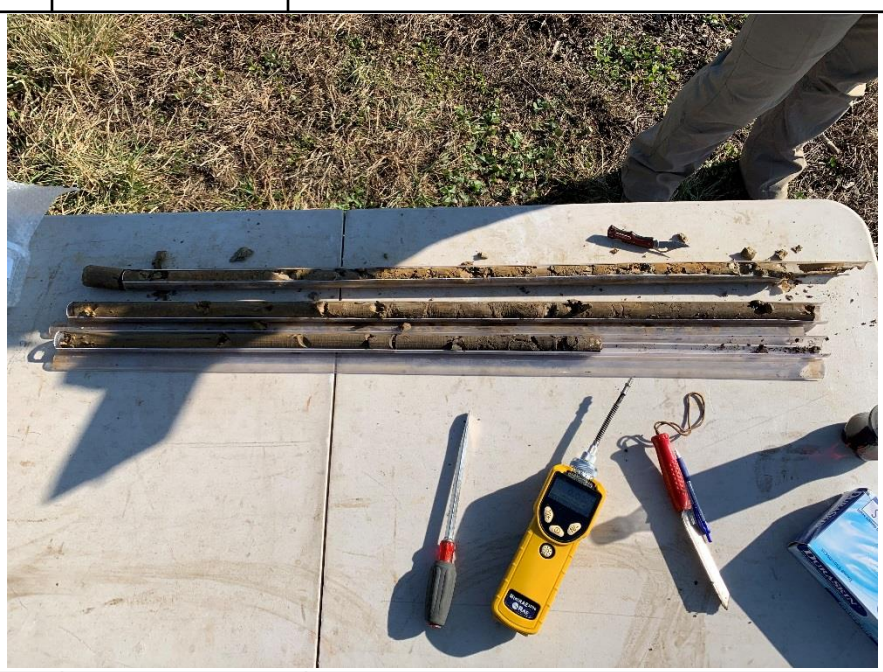
X:\G\9025\0002\056\Projects\mxd\Figure3.mxd

APPENDIX B

PHOTOGRAPH LOG

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the direct-push technology (DPT) rig at boring location B-1.	1
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/10/2018



TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows continuous soil cores at boring location “B-1”	2
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/10/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows silty clay soils from boring location B-1.	3
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/10/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows temporary groundwater casing installed at boring location B-1.	4
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: North	PHOTOGRAPHER	J. Mellema	12/10/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-3.	5
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	J. Mellema	12/10/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows continuous soil cores at boring location B-3.	6
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	J. Mellema	12/10/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows temporary groundwater casing installed at boring location B-3.	7
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	J. Mellema	12/10/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig and the geologist at boring location B-4.	8
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	J. Mellema	12/10/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-4.	9
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: North	PHOTOGRAPHER	J. Mellema	12/10/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-5.	10
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/10/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-5.	11
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	J. Mellema	12/10/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows temporary groundwater casing installed at boring location B-5.	12
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	J. Mellema	12/10/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-6.	13
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	J. Mellema	12/10/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-6.	14
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southwest	PHOTOGRAPHER	J. Mellema	12/10/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows continuous soil cores at boring location B-6.	15
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	J. Mellema	12/10/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-7.	16
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/11/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-7.	17
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	J. Mellema	12/11/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-8.	18
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/11/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-8.	19
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: West	PHOTOGRAPHER	J. Mellema	12/11/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows continuous soil cores at boring location B-8.	20
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: North	PHOTOGRAPHER	J. Mellema	12/11/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows boring location B-9.	21
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: West	PHOTOGRAPHER	J. Mellema	12/11/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-9.	22
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northwest	PHOTOGRAPHER	J. Mellema	12/11/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-10.	23
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/11/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-10.	24
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northeast	PHOTOGRAPHER	J. Mellema	12/11/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-10.	25
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/11/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-10.	26
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northeast	PHOTOGRAPHER	J. Mellema	12/11/2018

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows continuous soil cores at boring location B-10.	27
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	J. Mellema	12/11/2018

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-11.	28
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northeast	PHOTOGRAPHER	J. Mellema	1/16/2019

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows continuous soil cores at boring location B-11.	29
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: North	PHOTOGRAPHER	J. Mellema	1/16/2019

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-12.	30
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northeast	PHOTOGRAPHER	J. Mellema	1/16/2019

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows continuous soil cores at boring location B-12.	31
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: North	PHOTOGRAPHER	J. Mellema	1/16/2019

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-13.	32
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northeast	PHOTOGRAPHER	J. Mellema	1/16/2019

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-14.	33
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: West	PHOTOGRAPHER	J. Mellema	1/16/2019

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-15.	34
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: North	PHOTOGRAPHER	J. Mellema	1/16/2019

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-16.	35
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	J. Mellema	1/16/2019

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-17.	36
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northwest	PHOTOGRAPHER	J. Mellema	1/16/2019

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-18.	37
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southwest	PHOTOGRAPHER	J. Mellema	1/16/2019

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-19.	38
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: North	PHOTOGRAPHER	J. Mellema	1/16/2019

Holden Business Park Phase II
Holden Business Park

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-20.	39
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	J. Mellema	1/16/2019

TETRA TECH PROJECT NO. 103X9025140002.056	DESCRIPTION	This photograph shows the DPT rig at boring location B-21.	40
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	J. Mellema	1/16/2019

APPENDIX C

LOG BOOK ENTRY

KS 1715

Rite in the Rain®

ALL-WEATHER

ENVIRONMENTAL

№ 550F

MELLEMA

Location HOLDEN, MO Date 12/10/18

Project / Client HOLDEN - BUSINESS PARK PHASE II

1020 J. MELCEMA DEPARTS TETRA TECH IN KCMO FOR SITE IN HOLDEN, MO
PERSONAL VEHICLE
START MILES: 173415

1115 ARRIVE AT SITE
BEGIN MARKING LOCATIONS AND CONDUCTING SITE RECON FOR PHASE I REPORT.

1130 L. HOLT ARRIVES FROM TETRA TECH

1208 LINN W/ PLANS ARRIVES ONSITE

1210 SAFETY TAILGATE MEETING

1235 START DRILLING ON B-1
B-1: 38.719284 -93.945284
SAMPLE B-1 (0-2) COLLECTED @ 1230
GEOPROBE: TRUCK MOUNTED 5410
PID: MINI RAE 3000 (077970X)
S/N: 592-903736
SAMPLE B-1 (10-12) COLLECTED @ 1305
REFUSAL @ 12' BGS
SWITCHED TO MACRO CORE TOOLING
REFUSAL @ 13' BGS

1315 NO SIGN OF GROUNDWATER. PLACED SCREEN IN BOREHOLE TO CHECK FOR GROUNDWATER

1325 SET UP ON B-2
START DRILLING @ 1330

Location HOLDEN, MO Date 12/10/18

Project / Client HOLDEN BUSINESS PARK PHASE II

SAMPLE B2 (0-2) @ 1335
SAMPLE B-2 (12-14) @ 1355
REFUSAL @ 14.2' BGS

1400 - SET UP ON B-3

1405 - START DRILLING
SAMPLE B-3 (0-2) @ 1410
SAMPLE B-3 (12-14) @ 1430
PLACED PVC SCREEN TO CHECK FOR GROUNDWATER.

1435 SET UP ON B-4
SHALLOW REFUSAL @ 4' BGS
OFFSET BOREHOLE ~3' TO THE SOUTH
SHALLOW REFUSAL @ 4' BGS
SAMPLE B-4 (2-4) @ 1445

1450 SET UP ON B-5
SAMPLE B-5 (0-2) @ 1500
SAMPLE B-5 (13-15) @ 1515
REFUSAL @ 15' BGS
PLACED PVC SCREEN TO CHECK FOR GROUNDWATER.

Rite in the Rain.

Location HOLDEN, MO Date 12/10/18

Project / Client HOLDEN BUSINESS PARK PHASE II

1530 SET UP ON B-4
SAMPLE B-4 (0-2) @ ~~1530~~ 1535
SAMPLE B-4 (8-10) @ 1555, REFUSAL @ 15
PACK UP SUPPLIES
1610 LEAVE SITE FOR KC TERRA TECH
1710 ARRIVE @ TERRA TECH
FINAL MILES: 173529
UNPACK SUPPLIES
1745 FINISH FOR DAY

12/10/18

Location HOLDEN, MO Date 12/11/18

Project / Client HOLDEN BUSINESS PARK

0730 - ARRIVE AT TERRA TECH, KCMO
PACK SUPPLIES
0745 - DEPART KCMO FOR SITE
START MILEAGE: 173533
0840 - ARRIVE ONSITE
PREPARE HASP TAILGATE
0845 - L. HOLT ARRIVES ONSITE
0850 - PLAINS ENVIRONMENTAL ARRIVES
- SET UP ON B-7
- SAMPLE B-7 (0-2) @ 0915
- SAMPLE B-7 (4-6) @ 0935
- NO GROUNDWATER ENCOUNTERED
0940 - SET UP ON B-8
- SAMPLE B-8 (0-2) @ 0950
- REFUSAL @ 12.3 BGS
- SAMPLE B-8 (8-10) @ 105
1020 - SET UP ON B-9
- SAMPLE B-9 (0-2) @ 1035
- DUPLICATE COLLECTED @ B-9 (0-2) @ 1030
- REFUSAL @ 8.2' BGS
- SAMPLE B-9 (6-8) @ 1040
1045 - SET UP ON B-10
- SAMPLE B-10 (0-2) @ 1050
- SAMPLE B-10 (12-14) @ 1115

Rite in the Rain

Location HOLDEN, MO Date 12/10/18

Project / Client HOLDEN BUSINESS PARK

	REFUSAL @ 14' BGS
1120	RINSE BLANK COLLECTED FROM CUTTING SHOE OF DPT RIG.
1130	CHECK WATER LEVELS IN CASINGS SET ON 12/10/18
	SWL B-5: DRY
	SWL B-3: DRY
	SWL B-1: DRY
	PULLED CASING + PLUGGED BOREHOLES
1145	L. HOLT LEAVES SITE FOR TETRA TECH, KC
1200	S. MELLEMA DEPARTS SITE FOR TETRA TECH
1300	ARRIVE AT TETRA TECH
	UNPACK SUPPLIES
	PREP CHAIN OF CUSTODY
	PACK SAMPLES

12/11/18

Location HASTINGS, NE Date 1/14/19

Project / Client W. HIGHWAY 6

0640	ARRIVE AT TETRA TECH OFFICES IN KANSAS CITY (KC)
0700	DEPART KC FOR HASTINGS, NE
	START MILEC: 33,530
0725	STOP IN PLATTE CITY FOR GAS
1145	ARRIVE AT SITE
	SPOKE WITH FACILITY MANAGER BRIAN WITH HASTINGS EQUITY CRAIN BIN. LOOKED AT WELL. BRIAN INDICATED SLOW LEAK NEAR WELL HEAD
1155	TURN ON WELLS 3+4
	• LET PURGE ~5 MIN, FLOW RATE METER INDICATES 41 GPM FLOW FROM 3+4
	• CHECK WELLHEAD AT RW-3, NO OBVIOUS LEAK AFTER ~5 MIN
1206	CHECK PUMP UNITS AT RW-4
	• POWER OFF AT WELLHEAD - TURNED ON
	• RW-3 NOT FUNCTIONING
	• POWER BUTTON ON RW-3 CONTROL UNIT WAS OFF - TURNED ON AND FUNCTIONING
1235	NO IMMEDIATE SIGNS OF LEAKAGE WELL CONTINUE TO OPERATE AND MONITOR.

Rite in the Rain

Location HASTINGS, NE Date 1/14/19

Project / Client W. HIGHWAY 6

1245	MINOR LEAK NOW EVIDENT
1315	DONNEY DRILLING ARRIVES ONSITE
	MET AND DISCUSSED LEAK - DONNEY
	BELIEVES CRACK IN CONNECTOR
	BEHIND PIPELESS ADAPTOR. WILL PROVIDE
	AN ESTIMATE LATER IN THE WEEK
1400	DONNEY LEFT SITE
1415	DEPART SITE FOR ~~X~~ HOTEL
1430	ARRIVE AT HOTEL
	END OF DAY

1/14/19

Location HOLDEN, MO Date 1/16/19

Project / Client HOLDEN BUSINESS PARK PHASE II

0445	- MEET J. MEAD @ TETRA TECH OFFICES
0700	- DEPART TETRA TECH FOR SITE.
0800	- ARRIVE ONSITE AND MEET PLAINS DRILLER
	- SET UP AT BORING B-11
0825	- COLLECT B-11 (0-2)
0848	- COLLECT B-11 (10.5-11.5)
	- TOTAL DEPTH @ 12 FT
	- MOVE TO BORING B-12
0900	- COLLECT B-12 (0-2)
0919	- COLLECT B-12 (9.5-10.5)
	- REFUSAL @ 10.5 FT
	- MOVE TO BORING B-13
	- PID NOT COLLECTED DUE TO MOISTURE INTERFERENCE - PLACED IN CAR TO WARM
0935	- COLLECT B-13 (0-2)
0950	- COLLECT B-13 (11-12)
	- REFUSAL @ 12 FT
	- MOVE TO BORING B-14
1008	- COLLECT B-14 (0-2)
1015	- COLLECT B-14 (10-11)
	- REFUSAL @ 12 FT
	- MOVE TO BORING 15
1024	- COLLECT B-15 (0-2)

Rite in the Rain

Location HOLDEN, MO Date 1/14/19

Project / Client HOLDEN BUSINESS PARK PHASE II

1039 - COLLECT B-15 (6-9)
- REFUSAL @ 9 FT
- MOVE TO B-16
1050 - COLLECT B-16 (0-2)
1115 - COLLECT B-16 (10.5-11.5)
- REFUSAL @ 11.5 FT
- MOVE TO BORING 17
1128 - COLLECT B-17 (0-2)
1140 - COLLECT B-17 (9-10)
- REFUSAL @ 10 FT.
1145 - BREAK FOR LUNCH
1240 - ARRIVE BACK ONSITE, SET UP ON B-18
1245 - COLLECT B-18 (0-2)
1255 - COLLECT B-18 (10-11)
- REFUSAL @ 11 FT
- MOVE TO B-19
1310 - COLLECT B-19 (0-2)
1320 - COLLECT B-19 (6-9)
- REFUSAL @ 9 FT
- MOVE TO B-20
1334 - COLLECT B-20 (0-2) (DUP-1 COLLECTED)
1345 - COLLECT B-20 (7-10)
- REFUSAL @ 12 FT
- MOVE TO B-21

Location HOLDEN, MO Date 1/14/19

Project / Client HOLDEN BUSINESS PARK PHASE II

1354 - COLLECT B-21 (0-2)
1405 - COLLECT B-21 (10-11) (DUP-2 COLLECTED)
- REFUSAL @ 11 FT
- PACK UP SAMPLES
1430 - PLANS DRILLING LEFT SITE
- TAKE PHOTOS OF HOLDEN ~~BUS~~ STREET DEPARTMENT STRUCTURE
1500 - DEPART SITE
1600 - ARRIVE AT TETRA TECH OFFICES
- UNPACK VEHICLE
- STORE SAMPLES IN FRIDGE
1700 - END OF DAY

1/14/19

Rite in the Rain

APPENDIX D

BORING LOGS

Boring Log Form

Site Name: Holden Business Park Phase II **Boring Number:** B-1

Date Drilled (Start/Finish): 12/10/18

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:**

Coordinates: 38.719286 - 93.955286

Depth to Water: **Geologist:** J. Mellema / L. Holt

Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
S-1 (0-2) X			0.2 0.8 0.5					0-0.5 Topsoil brown soft ~~dry~~ moist Clay silty tan brown grading to tan, soft plastic moist. Trace VFG sand becoming orange w/depth ~~mod~~ mod plastic slightly firm
			1.8 1.0 0.9 0.8	5 8				Clay as above tan w/mottling decreasing Plasticity 7-8 firm non plastic damp ~~[illegible]~~
S-1 (10-12) X				10 12				Clay grading to weathered shale firm damp grey tan becoming grey and then dryer w/depth iron mottled brown hard
			0 0 0 0	15 16				Grey weathered waxy shale. Friable "Flakey" dry Refusal @ 13 ft
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park Phase II **Boring Number:** B-2

Date Drilled (Start/Finish): 12/10/18

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:** 14.2 ft

Coordinates: 38.719246 -93.996176

Depth to Water: — **Geologist:** J. Mellema / L. Holt

Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
B-2 (0-2) X	0-4		0 0 0 0					0-0.5 Topsoil brown, soft, damp clay, silty, trace vfg sand, tan, plastic, moist gravel fragments not native grading brown mod plastic tan brown increasing silty content silty clay brown, damp-dry crumbly
			0 0 0 0	5				clay dry crumbly brown grading tan orange mottling then 7-8 shale grey weathered dry, wavy
			0 0 0 0	8				Grey tan brown shale weathered, friable dry grading to grey w/ iron mottling
			0 0 0 0	10				Grey shale dry weathered, platy twin coal layers 13-14
B-2 (12-14) X			0 0	12 14				Refusal @ 14.2
				15				
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park Phase II
Boring Number: B-3
Date Drilled (Start/Finish): 12/10/18
Drilling Method: DPT (Geoprobe)
Drilling Company: Plains Environmental
Elevation:
Total Depth:
Coordinates: 38.718434, -93.996197
Depth to Water:
Geologist: J. Mellema / L. Holt
Project Number: 103X9025140002.056
Weather:

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
X (B-3 (0-2))			0					0.- 0.5 Topsoil Brown, soft
			0					Clay silty, trace VFG sand tan brown
			0					soft, plastic moist smelly 1-2
			0					grades to dark brown.
			0	5				Clay, silty, dark brown, soft plastic moist
			0.1					6 becoming med. brown w/ iron mottling
			0.1					w small granules soft mod plastic moist
			0.2	8				coal fragments 7-8
			0.2					As above to 10
			0.2	10				10 Clay silty, fat, plastic trace vfg sand med
			1.1					brown w/ iron mottling banded flat very
			1.6	12				small disc pebbles
X (B-3 (12-14))			0.3					Clay as above ✓ coal fragments sand & pebbles
			2.2					Refusal encountered at 14.6 ft. Sandy shale, grey, hard
			13.4	15				Refusal at 14.6 ft
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park Phase II
Boring Number: B-4
Date Drilled (Start/Finish): 12/10/18
Drilling Method: DPT (Geoprobe)
Drilling Company: Plains Environmental
Elevation:
Total Depth:
Coordinates: 38.718628, -93.995779
Depth to Water:
Geologist: J. Mellema / L. Holt
Project Number: 103X9025140002.056
Weather:

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
X (2-4)			0 0 0 0					0-0.25 top soil, brown, soft, moist Clay silty, trace VFG sand tan grading to grey brown plastic becoming mod plastic Fine grain crystalline rock Quartzite? Refusal encountered @ 4 ft
				5				
				8				
				10				
				12				
				15				
				16				
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park Phase II
Boring Number: B-5
Date Drilled (Start/Finish): 12/10/18
Drilling Method: DPT (Geoprobe)
Drilling Company: Plains Environmental
Elevation:
Total Depth: 15 ft
Coordinates: 38.718990, -93.996839
Depth to Water:
Geologist: J. Mellema / L. Holt
Project Number: 103X9025140002.056
Weather: Sunny, Breezy, 38°

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
B-5 (0-2) X			0					0.0-0.5 Top soil, brown soft moist
			0					Clay silty, trace vfg sand brown moist, mod plastic decreasing moisture w/depth iron mottling with granules 2-4 ft (Silt)
			0					
			0					
			0	5				Silty Clay / Clayey silt, trace vfg sand
			0					Med firm, non plastic, iron mottling. coal
			0					Fragments, from 7-8 ft damp becoming
			0	8				moist
			0					As above mod plastic moist becoming
			0	10				plastic
			0					
			0	12				
			0					As above TO 13.5 ft
B-5 (13-15 X			0					13.5 Rock, quartzite? Mudstone? Followed by Weathered
			0					Grey Shale friable soft damp waxy
			0	15				Refusal @ 15 ft
			0	16				
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park Phase II **Boring Number:** B-6

Date Drilled (Start/Finish): 12/10/18

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:**

Coordinates: 38.719779, -93.998163

Depth to Water: **Geologist:** J. Mellema / L. Holt

Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
B-6 (0-2) X			0					0.0-0.5 Top soil, brown, soft, moist
			0					Clayey silt / silty clay, trace VFG sand brown
			0					damp, crumbly, grading to grey tan
			0					grey tan 3-4ft
			0	5				grey tan crumbly silty clay / clayey silt
			0					dry-damp w/ iron mottling becoming shaley
			0					friable
			0	8				
			6					8-10 as above
			0	10				
B-6 (8-10)			0					10-12 ↓
			0	12				weathered shale tan/grey w/ iron staining
			0					Weathered shale tan becoming grey
			0					14-15 w coal thin layer
			0	15				Refusal @ 15
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park Phase II **Boring Number:** B-7

Date Drilled (Start/Finish): 12·11·18

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:** 12.8

Coordinates: 38.7196046, -93.996088

Depth to Water: **Geologist:** J. Mellema / L. Holt

Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
B-7 (0-2) X			0					0-0.5 Top Soil, brown, moist, mod firm
			0					Clay, silty, trace VFG Sand, soft, plastic, moist
			0					tan grading to brown, non native gravel 3.5-4.0
			0	4				decreasing plasticity & moisture w/ depth
B-7 (4-6) X			0	5				Clay, silty, tan brown, w/ iron mottling,
			0					damp, non plastic trace VFG sand
			0					crumbly becoming dry weathered shale
			0	8				
			0					weathered shale friable, dry, platy, grey tan w/
			0	10				iron mottling grading to brown, tan
			0					
			0	12				
			0					12.8 Refusal Grey brown Shale weathered
								dry friable, platy
				15				
				16				
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park Phase II
Boring Number: B-8
Date Drilled (Start/Finish): 12.11.18
Drilling Method: DPT (Geoprobe)
Drilling Company: Plains Environmental
Elevation:
Total Depth: 12.3 ft
Coordinates: 38.719574, -93.996603
Depth to Water:
Geologist: J. Mellema / L. Holt
Project Number: 103X9025140002.056
Weather:

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
B-8 (0-2) X			0					0-0.75 Top soil, brown, moist soft
			0					Clay, Silty, trace vFG sand, tan soft, plastic - grades to brown, decreasing moisture w/ depth to damp mottled weathered shale damp grey tan 3.5-4
			0					
			0					
			0	5				As above becoming dry at 6 ft. gray iron mottled shale grades to brown 7.5-8.0 ft w/ coal fragments
			0					
			0					
B-8 (8-10) X			0					Shale as above 8.5-9.0 becomes coal black soft
			0	10				grades to shale dark tomed to light grey w/ minor iron mottling weathered friable, platy
			0					
			0					
coal			0					Weathered shale grey friable dry
				15				Refusal @ 12.3 ft
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park Phase II **Boring Number:** B-9

Date Drilled (Start/Finish): 12.11.18

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:**

Coordinates: 38.720023, -93.996822

Depth to Water: **Geologist:** J. Mellema / L. Holt

Project Number: 103X9025140002.056 **Weather:** Mostly Sunny, breezy 42°

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
B-9 (0-2) X			0					0-0.5 Top soil, brown, soft moist
			0					Clay, silty, tan soft plastic moist.
			0					trace VFG sand decreasing plasticity
			0					and moisture w/ depth. becoming firm
								damp @ 3ft hard non plastic weathered
				5				shale texture
			0					Weathered shale grey tan w/ iron mottling
			0					dry flaky grading to tan w/ less mottling
B-9 (6-8) X			0					
			0					
								8.2 ~~at~~ Refusal
				10				as above
				15				
				20				
				25				Collected duplicate sample at 0-2 "Duplicate"
				30				

Boring Log Form

Site Name: Holden Business Park Phase II **Boring Number:** B-10

Date Drilled (Start/Finish): 12·11·18

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:** 14 ft

Coordinates: 38.720259, -93.995784

Depth to Water: **Geologist:** J. Mellema / L. Holt

Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
B-10 (0-2) X			0 0 0 0					0-0.5 Topsoil, brown, soft, moist Clay silty, trace VFG, brown soft plastic moist grading to light brown w/ decrease plasticity hard & damp 3.5-4 ft
			0 0.8 2.0 3.0	5				Hard silty clay as above tan brown w/ iron mottling becoming weathered shale ~~texture~~ damp at 4 ft
B-10 (9-14)			3.2 10.2 7.5 10.2	10				Clay silty or very weathered shale firm, non plastic moist. tan w/ iron mottling becoming dry & friable at 9.5 ft and brown with iron mottling.
B-10 (12-14)			16 382 130					Very weathered brown iron mottled shale friable dry becoming damp. Refusal at 14 ft
				15				
				20				
				25				
				30				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** B - 11

Date Drilled (Start/Finish): 1-16-19

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: 38. **Total Depth:** 12 ft

Coordinates: 38.720118 / -93.994506

Depth to Water: **Geologist:** J. Mellema / J. Mead

Project Number: 103X9025140002.056 **Weather:** ~33° overcast

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
1825 0 X 2	2		60.1					Gravel w/clay.
			57.3					Clay, dark brown, plastic, moist, (firm)
			17.4					
			20	4				becoming more grey w/ depth
			0					clay, med gy brown, mottled w/ red brown, plastic; moist, softer below 5 ft.
			0					
			0.3					
			0.4	8				~7.9 inc silt/vfg sd? inc. moisture
			0					Clay, orangish tan, moist, plastic, mottled w/grey, stiff to ~11.5 then friable w/ shale lam (grey)
			0					
1848 X	10.5							
	11.5		0	12				weathered shale bedrock - refusal
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** B-12

Date Drilled (Start/Finish): 1-16-19

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:** 10.5

Coordinates: 38.720139 / -93.994675

Depth to Water: **Geologist:** J. Mellema / J. Mead

Project Number: 103X9025140002.056 **Weather:** ~33° overcast

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 0900 2			2.1 0.8 0.6 0.6	4				Clay w/ gravel clay, dark ~~gray~~ brown, plastic ~~soft firm~~, moist. ~2.5ft grades to med tan brown.
				8				clay, med, red brown, plastic, moist grades to grey w/ black minerals @ ~7.8ft
5 10.5 0919				12				clay as above ~9.5 weathered shale w/ friable red brown clay Refusal @ 10.5 ft
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** ~~B-13~~ B-13

Date Drilled (Start/Finish): 1-16-19

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:** 12

Coordinates: 38.720022 -93.994632

Depth to Water: **Geologist:** J. Mellema / J. Mead

Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 1935 2			74					Clay, dark brown, moist, soft plastic
				4				
								Clay, mottled gray + tan, moist becoming firm @ 5 ft
				8				
								clay as above to ~ 10 ft
								Clay, dry, friable, w/ some more shale
11 1950 12				12				@ 11.825 much harder
								Refusal @ 12
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** B-14

Date Drilled (Start/Finish): 1-16-19

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:** 11

Coordinates: 38.720253 -93.995057

Depth to Water: **Geologist:** J. Mellema / J. Mead

Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 1008 2 X								Clay, ~~dark~~ red brown, soft, moist
				4				Clay ~~red~~ orangish brown to gray brown Mottled mod firm, plastic, moist.
				8				as above to ~ 9 ft then alternating Clay as above w/ friable dry clay / weathered shale mostly weathered sh ~ 10.5 ft. — 11 ft Refusal
10 015 11 X				12				
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** B-15
Date Drilled (Start/Finish): 1-16-19
Drilling Method: DPT (Geoprobe) PES
Drilling Company: Plains Environmental
Elevation: **Total Depth:** 9
Coordinates: 38,720 504, -93,994 673
Depth to Water: **Geologist:** J. Mellema / J. Mead
Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 026 2 X				4			0.5	Clay dark brow w/gravel Clay red ~~dark~~ tan, grey brown, mottled stiff, plastic moist..
				8				Clay as above ~ ~ 7ft. Men friable dry into weathered shale ~ 7.75 ft.
8 103.9 X 9				12				weathered platy friable shale, dark grey + tan / limonite stained 9' Refusal
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** B-16

Date Drilled (Start/Finish): 1-16-19

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:** 11.5

Coordinates: 38.720424 -93.995142

Depth to Water: **Geologist:** J. Mellema / J. Mead

Project Number: 103X9025140002.056 **Weather:** ~33° overcast

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 1050 2								clay w/ gravel & brick fragments (Fill), soft, moist
				4				clay dark brown less gravel w/ depth
				8				Clay, dark grey brown, plastic, firm moist. clay greenish orangish tan at 6.5 ft
							8.5	clay, dry, friable, fine in platy texture w/ depth
1115	10.5 11.5			12				11.5' Refusal
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park
Boring Number: B-17
Date Drilled (Start/Finish): 1-16-19
Drilling Method: DPT (Geoprobe) PES
Drilling Company: Plains Environmental
Elevation:
Total Depth:
Coordinates: 38.720349 -93.995404
Depth to Water:
Geologist: J. Mellema / J. Mead
Project Number: 103X9025140002.056
Weather:

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 128 2			0 0 0	4				Clay w/ gravel, v. moist (snow melt) Clay dark brown grading to tan, soft → firm, plastic, moist!
			0 0 0 0	8				Clay, tan brown, plastic moist, more rocky/friable ~ 6.5 ft then 7.5 ft. w/ rocky frags. (not platey)
9 10				12				clay, orange + lt gy to ~ 11 ft then platy, weathered sh bedrock, dry, friable 10' Refusal
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** B-18

Date Drilled (Start/Finish): 1-16-19

Drilling Method: DPT (Geoprobe)

Drilling Company: Plains Environmental

Elevation: **Total Depth:** 11 ft

Coordinates: 38.720436, -93.995564

Depth to Water: **Geologist:** J. Mellema / J. Mead

Project Number: 103X9025140002.056 **Weather:** ~33° Overcast

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
245 X			0 0 0 0	4				Topsoil w/gravel gravel (Crushed Rock) ~1.5 clay soft, grey, wet,
			0 0 0 0	8				clay grey brown to orangish brown mottled w/grey + black mineralize. wet/rocky ~6.75 ft. Then back to plastic mottled clay, fairly dense, firm; moist
1255 10 11 X				12				clay, orange brown, dry, reable ~ 9 ft get platy texture grey weathered shale w/ clay ~10.5' 11 ft Refusal
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** B-19

Date Drilled (Start/Finish): 1-16-19

Drilling Method: DPT (Geoprobe) PES

Drilling Company: Plains Environmental

Elevation: **Total Depth:**

Coordinates: 38.720977 -93.995344

Depth to Water: **Geologist:** J. Mellema / J. Mead

Project Number: 103X9025140002.056 **Weather:** ~33°; lt freezing drizzle

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 1310 2				4				Clay w/ gravel + brick frags. (FILL) Topsoil w/ gravel Clay, dark brown, plastic, moist
				8				clay, mottled orange tan + grey, fairly plastic ~10 ft Then friable, dry
1320 8				12				Clay + weathered sh, limonite std, gy/brown 9 ft Refusal dry platey texture
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park
Boring Number: B-20
Date Drilled (Start/Finish): 1-16-19
Drilling Method: DPT (Geoprobe) PES
Drilling Company: Plains Environmental
Elevation:
Total Depth: 10
Coordinates: 38,720810 -93,996072
Depth to Water:
Geologist: J. Mellema / J. Mead
Project Number: 103X9025140002.056
Weather:

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 1336 2		Dup 1	0	4				clay + gravel, Dark brown tan clay, brown, soft to firm, plastic moist
			0	8				clay dark brown, v soft, v moist to ~6.5 ft w/red clay firm dense, orange tan to hard, friable, clay/weath bedrock clay as above bea platy ~8.5 ft + grey brown
8 10 1345			10	12				10 ft.
				16				
				20				
				24				
				28				

Boring Log Form

Site Name: Holden Business Park **Boring Number:** B-21
Date Drilled (Start/Finish): 1-[illegible]-17
Drilling Method: DPT (Geoprobe) PES
Drilling Company: Plains Environmental
Elevation: **Total Depth:** 11
Coordinates:
Depth to Water: **Geologist:** J. Mellema / J. Mead
Project Number: 103X9025140002.056 **Weather:**

Sample Interval	Interval	Soil Recv.	PID Reading (ppm or ppb)	Depth (Feet)	Color (Munsell or Rock)	Lithology	Graphic Log	Description and Remarks
0 1356 2 X			0 0 0 0	4				clay, silty, lower, brown (fill?) ~ every 0.5-1 ft alternates from friable clay, ~~fs~~ dry + ~~[illegible]~~ to firm plastic
			0 0 0	8				Clay, med brown hard, dense Mottled w/ yel + black, becoming platy texture ~7.5P
10 1405 11 X	DUP 2			12				11 ft Refusal
				16				
				20				
				24				Too much moisture in ash for PID
				28				

APPENDIX E

ANALYTICAL DATA

28-Dec-2018

Emily Fisher
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Holden Business Park (103x9025140002.056)** Work Order: **1812740**

Dear Emily,

ALS Environmental received 24 samples on 12-Dec-2018 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 231.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Ehrland Bosworth
Project Manager

ALS Group, USA

Date: 28-Dec-18

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Work Order: **1812740**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1812740-01	B-1 (0--2)	Soil		12/10/2018 12:30	12/12/2018 09:00	☐
1812740-02	B-1 (10-12)	Soil		12/10/2018 13:05	12/12/2018 09:00	☐
1812740-03	B-2 (0-2)	Soil		12/10/2018 13:35	12/12/2018 09:00	☐
1812740-04	B-2 (12-14)	Soil		12/10/2018 13:55	12/12/2018 09:00	☐
1812740-05	B-3 (0-2)	Soil		12/10/2018 14:10	12/12/2018 09:00	☐
1812740-06	B-3 (12-14)	Soil		12/10/2018 14:30	12/12/2018 09:00	☐
1812740-07	B-4 (2-4)	Soil		12/10/2018 14:45	12/12/2018 09:00	☐
1812740-08	B-5 (0-2)	Soil		12/10/2018 15:00	12/12/2018 09:00	☐
1812740-09	B-5 (13-15)	Soil		12/10/2018 15:15	12/12/2018 09:00	☐
1812740-10	B-6 (0-2)	Soil		12/10/2018 15:35	12/12/2018 09:00	☐
1812740-11	B-6 (8-10)	Soil		12/10/2018 15:55	12/12/2018 09:00	☐
1812740-12	B-7 (0-2)	Soil		12/11/2018 09:15	12/12/2018 09:00	☐
1812740-13	B-7 (4-6)	Soil		12/11/2018 09:35	12/12/2018 09:00	☐
1812740-14	B-8 (0-2)	Soil		12/11/2018 09:50	12/12/2018 09:00	☐
1812740-15	B-8 (8-10)	Soil		12/11/2018 10:15	12/12/2018 09:00	☐
1812740-16	B-9 (0-2)	Soil		12/11/2018 10:25	12/12/2018 09:00	☐
1812740-17	B-9 (6-8)	Soil		12/11/2018 10:40	12/12/2018 09:00	☐
1812740-18	B-10 (0-2)	Soil		12/11/2018 10:50	12/12/2018 09:00	☐
1812740-19	B-10 (12-14)	Soil		12/11/2018 11:15	12/12/2018 09:00	☐
1812740-20	Duplicate	Soil		12/11/2018	12/12/2018 09:00	☐
1812740-21	Rinse	Water		12/10/2018 11:20	12/12/2018 09:00	☐
1812740-22	Trip Blank #1 - Soil	Soil		12/12/2018	12/12/2018 09:00	☐
1812740-23	Trip Blank #2 - Soil	Soil		12/12/2018	12/12/2018 09:00	☐
1812740-24	Trip Blank #3 - Water	Water		12/12/2018	12/12/2018 09:00	☐

Client:	Tetra Tech
Project:	Holden Business Park (103x9025140002.056)
WorkOrder:	**1812740**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Work Order: 1812740

Case Narrative

Samples for the above noted Work Order were received on 12/12/18. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
Batch 129361, Method VOC_8260_S, Sample 1812740-10A MS and -10A MSD: The VOC MS and/or MSD recoveries were above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary for Acetone.

Batch 129361, Method VOC_8260_S, Sample 1812740-10A MS: The VOC MS and/or MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for Chloroethane.

Batch R251775a, Method VOC_8260_SLL, Sample 1812740-01A: One or more VOC surrogate recoveries were below the lower control limits due to the Sodium Triphosphate preservative. Sample results may be biased low.

Batch R251775a, Method VOC_8260_SLL, Sample 1812740-02A: One or more acidic VOC surrogate recoveries were above the upper control limits. The acidic VOC sample results may be biased high.

Batch R251775a, Method VOC_8260_SLL, Sample 1812740-02A: One or more VOC surrogate recoveries were below the lower control limits due to the Sodium Triphosphate preservative. Sample results may be biased low.

Batch R251775a, Method VOC_8260_SLL, Sample 1812740-03A: One or more VOC surrogate recoveries were below the lower control limits due to the Sodium Triphosphate preservative. Sample results may be biased low.

Batch R251775a, Method VOC_8260_SLL, Sample 1812740-11A: One or more VOC surrogate recoveries were below the lower control limits due to the Sodium Triphosphate preservative. Sample results may be biased low.

Batch R251895, Method VOC_8260_SLL, Sample 1812740-05A: One or more VOC surrogate recoveries were below the lower control limits due to the Sodium Triphosphate preservative. Sample results may be biased low.

Batch R251895, Method VOC_8260_SLL, Sample 1812740-05A MS: The VOC MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for multiple analytes. Please reference QC report for full compound list.

Batch R251895, Method VOC_8260_SLL, Sample 1812740-20A: One or more VOC surrogate recoveries were below the lower control limits due to the Sodium Triphosphate preservative. Sample results may be biased low.

Batch R251895, Method VOC_8260_SLL, Sample 1812740-23A: One or more VOC surrogate recoveries were below the lower control limits due to the Sodium Triphosphate preservative. Sample results may be biased low.

Batch R251895, Method VOC_8260_SLL, Sample VLCSS2-181221: The VOC LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for Chloroethane.

No other deviations or anomalies were noted.

Extractable Organics:
Batch 129412, Method DRO_8270_W, Sample DLCSDW1-129412: DRO LCS was double spiked. RPD values will be outside limits due to this error. Actual recovery values meet QC criteria.

Batch 129412, Method DRO_8270_W, Sample DLCSDW1-129412: The DRO RPD between the LCS and LCSD was outside of the control limit. The sample results should be considered estimated for DRO(C10-C21) and ORO(C21-C35).

Batch 129755, Method DRO_8015_S, Sample 1812740-09B MS and -09B MSD: The DRO MS and/or MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for C6-10.

Batch 129753, Method SVO_8270_S, Sample 1812740-09B MSD: The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for this analyte: 4,6-Dinitro-2-methylphenol; Aniline; Hexachlorocyclopentadiene

Batch 129753, Method SVO_8270_S, Sample 1812740-09B MSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Multiple Compounds (See QC Report)

Batch 129753, Method SVO_8270_S, Sample 1812740-10B: One or more acid surrogate recoveries were below the lower control limits. The acidic sample results may be biased low. 2-Fluorophenol

Batch 129777, Method SVO_8270_S, Sample 1812740-14B MS and -14B MSD: The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for 4,6-Dinitro-2-methylphenol and 2,4-Dinitrophenol.

Batch 129777, Method SVO_8270_S, Sample 1812740-14B MS and -14B MSD: The SVOC MS and/or MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for multiple analytes. Please reference QC report for full compound list.

Batch 129777, Method SVO_8270_S, Sample 1812740-14B MSD: The SVOC MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for N-Nitrosodimethylamine.

Batch 129777, Method SVO_8270_S, Sample 1812740-14B MSD: The SVOC RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for Hexachlorocyclopentadiene.

Batch 129777, Method SVO_8270_S, Sample SLCSS1-129777: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for 2,3,4,6-Tetrachlorophenol and Hexachloro-1,3-butadiene.

No other deviations or anomalies were noted.

Metals:
No deviations or anomalies were noted.

Wet Chemistry:
No deviations or anomalies were noted.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (0--2)
Collection Date: 12/10/2018 12:30 PM

Work Order: 1812740
Lab ID: 1812740-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	81	µg/Kg-dry	1	12/21/2018 15:16
Aroclor 1221	U		28	81	µg/Kg-dry	1	12/21/2018 15:16
Aroclor 1232	U		28	81	µg/Kg-dry	1	12/21/2018 15:16
Aroclor 1242	U		28	81	µg/Kg-dry	1	12/21/2018 15:16
Aroclor 1248	U		28	81	µg/Kg-dry	1	12/21/2018 15:16
Aroclor 1254	U		23	81	µg/Kg-dry	1	12/21/2018 15:16
Aroclor 1260	U		23	81	µg/Kg-dry	1	12/21/2018 15:16
Aroclor 1262	U		23	81	µg/Kg-dry	1	12/21/2018 15:16
Aroclor 1268	U		23	81	µg/Kg-dry	1	12/21/2018 15:16
Surr: Decachlorobiphenyl	*84.3*			*40-140*	*%REC*	1	12/21/2018 15:16
Surr: Tetrachloro-m-xylene	*84.8*			*45-124*	*%REC*	1	12/21/2018 15:16
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/20/18		Analyst: **RSH**
Mercury	**0.042**		**0.0020**	**0.020**	**mg/Kg-dry**	1	12/21/2018 19:10
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/14/18		Analyst: **ABL**
Arsenic	**7.0**		**0.11**	**0.44**	**mg/Kg-dry**	1	12/18/2018 08:39
Barium	**180**		**0.17**	**0.44**	**mg/Kg-dry**	1	12/18/2018 08:39
Cadmium	**0.16**	J	**0.042**	**0.87**	**mg/Kg-dry**	1	12/18/2018 08:39
Chromium	**17**		**0.024**	**0.44**	**mg/Kg-dry**	1	12/18/2018 08:39
Lead	**14**		**0.092**	**0.44**	**mg/Kg-dry**	1	12/18/2018 08:39
Selenium	**0.77**	J	**0.24**	**0.87**	**mg/Kg-dry**	1	12/18/2018 08:39
Silver	U		0.054	0.44	mg/Kg-dry	1	12/18/2018 08:39
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	**10**		**1.9**	**6.2**	**mg/Kg-dry**	1	12/22/2018 03:33
ORO (C21-C35)	**26**		**2.1**	**6.2**	**mg/Kg-dry**	1	12/22/2018 03:33
Surr: 4-Terphenyl-d14	*54.5*			*25-137*	*%REC*	1	12/22/2018 03:33
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.6	40	µg/Kg-dry	1	12/24/2018 20:17
1,2,4,5-Tetrachlorobenzene	U		31	400	µg/Kg-dry	1	12/24/2018 20:17
1,4-Dioxane	U		29	200	µg/Kg-dry	1	12/24/2018 20:17
2,2`-Oxybis(1-chloropropane)	U		9.5	40	µg/Kg-dry	1	12/24/2018 20:17
2,3,4,6-Tetrachlorophenol	U		11	81	µg/Kg-dry	1	12/24/2018 20:17
2,4,5-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 20:17
2,4,6-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 20:17
2,4-Dichlorophenol	U		8.5	40	µg/Kg-dry	1	12/24/2018 20:17
2,4-Dimethylphenol	U		8.3	40	µg/Kg-dry	1	12/24/2018 20:17
2,4-Dinitrophenol	U		22	40	µg/Kg-dry	1	12/24/2018 20:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (0--2)
Collection Date: 12/10/2018 12:30 PM

Work Order: 1812740
Lab ID: 1812740-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		11	40	µg/Kg-dry	1	12/24/2018 20:17
2,6-Dinitrotoluene	U		6.7	40	µg/Kg-dry	1	12/24/2018 20:17
2-Chloronaphthalene	U		5.7	8.1	µg/Kg-dry	1	12/24/2018 20:17
2-Chlorophenol	U		13	40	µg/Kg-dry	1	12/24/2018 20:17
2-Methylnaphthalene	U		4.1	8.1	µg/Kg-dry	1	12/24/2018 20:17
2-Methylphenol	U		11	40	µg/Kg-dry	1	12/24/2018 20:17
2-Nitroaniline	U		9.3	40	µg/Kg-dry	1	12/24/2018 20:17
2-Nitrophenol	U		12	40	µg/Kg-dry	1	12/24/2018 20:17
3&4-Methylphenol	U		8.1	40	µg/Kg-dry	1	12/24/2018 20:17
3,3´-Dichlorobenzidine	U		6.0	200	µg/Kg-dry	1	12/24/2018 20:17
3-Nitroaniline	U		9.3	40	µg/Kg-dry	1	12/24/2018 20:17
4,6-Dinitro-2-methylphenol	**57**		**10**	**40**	**µg/Kg-dry**	1	12/24/2018 20:17
4-Bromophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 20:17
4-Chloro-3-methylphenol	U		12	40	µg/Kg-dry	1	12/24/2018 20:17
4-Chloroaniline	U		6.4	81	µg/Kg-dry	1	12/24/2018 20:17
4-Chlorophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 20:17
4-Nitroaniline	U		63	200	µg/Kg-dry	1	12/24/2018 20:17
4-Nitrophenol	**49**		**36**	**40**	**µg/Kg-dry**	1	12/24/2018 20:17
Acenaphthene	**11**		**5.9**	**8.1**	**µg/Kg-dry**	1	12/24/2018 20:17
Acenaphthylene	U		7.0	8.1	µg/Kg-dry	1	12/24/2018 20:17
Acetophenone	U		6.3	40	µg/Kg-dry	1	12/24/2018 20:17
Anthracene	U		5.7	8.1	µg/Kg-dry	1	12/24/2018 20:17
Atrazine	U		6.4	40	µg/Kg-dry	1	12/24/2018 20:17
Benzaldehyde	U		62	81	µg/Kg-dry	1	12/24/2018 20:17
Benzo(a)anthracene	U		7.0	8.1	µg/Kg-dry	1	12/24/2018 20:17
Benzo(a)pyrene	**9.7**		**5.0**	**8.1**	**µg/Kg-dry**	1	12/24/2018 20:17
Benzo(b)fluoranthene	U		6.0	8.1	µg/Kg-dry	1	12/24/2018 20:17
Benzo(g,h,i)perylene	U		6.2	8.1	µg/Kg-dry	1	12/24/2018 20:17
Benzo(k)fluoranthene	U		6.1	8.1	µg/Kg-dry	1	12/24/2018 20:17
Bis(2-chloroethoxy)methane	U		3.9	40	µg/Kg-dry	1	12/24/2018 20:17
Bis(2-chloroethyl)ether	U		11	40	µg/Kg-dry	1	12/24/2018 20:17
Bis(2-ethylhexyl)phthalate	U		7.0	40	µg/Kg-dry	1	12/24/2018 20:17
Butyl benzyl phthalate	U		6.8	40	µg/Kg-dry	1	12/24/2018 20:17
Caprolactam	U		14	40	µg/Kg-dry	1	12/24/2018 20:17
Carbazole	U		4.4	40	µg/Kg-dry	1	12/24/2018 20:17
Chrysene	**8.9**		**6.5**	**8.1**	**µg/Kg-dry**	1	12/24/2018 20:17
Dibenzo(a,h)anthracene	U		4.4	8.1	µg/Kg-dry	1	12/24/2018 20:17
Dibenzofuran	U		5.9	40	µg/Kg-dry	1	12/24/2018 20:17
Diethyl phthalate	U		6.2	40	µg/Kg-dry	1	12/24/2018 20:17
Dimethyl phthalate	U		7.9	40	µg/Kg-dry	1	12/24/2018 20:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (0--2)
Collection Date: 12/10/2018 12:30 PM

Work Order: 1812740
Lab ID: 1812740-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.4	40	µg/Kg-dry	1	12/24/2018 20:17
Di-n-octyl phthalate	U		7.8	40	µg/Kg-dry	1	12/24/2018 20:17
Fluoranthene	U		3.9	8.1	µg/Kg-dry	1	12/24/2018 20:17
Fluorene	U		5.9	8.1	µg/Kg-dry	1	12/24/2018 20:17
Hexachlorobenzene	U		12	40	µg/Kg-dry	1	12/24/2018 20:17
Hexachlorobutadiene	U		22	40	µg/Kg-dry	1	12/24/2018 20:17
Hexachlorocyclopentadiene	U		14	40	µg/Kg-dry	1	12/24/2018 20:17
Hexachloroethane	U		17	40	µg/Kg-dry	1	12/24/2018 20:17
Indeno(1,2,3-cd)pyrene	**9.7**		**5.6**	**8.1**	**µg/Kg-dry**	1	12/24/2018 20:17
Isophorone	U		7.9	200	µg/Kg-dry	1	12/24/2018 20:17
Naphthalene	U		5.2	8.1	µg/Kg-dry	1	12/24/2018 20:17
Nitrobenzene	U		14	200	µg/Kg-dry	1	12/24/2018 20:17
N-Nitrosodi-n-propylamine	U		6.7	40	µg/Kg-dry	1	12/24/2018 20:17
N-Nitrosodiphenylamine	U		3.9	40	µg/Kg-dry	1	12/24/2018 20:17
Pentachlorophenol	**47**		**15**	**40**	**µg/Kg-dry**	1	12/24/2018 20:17
Phenanthrene	U		3.8	8.1	µg/Kg-dry	1	12/24/2018 20:17
Phenol	U		10	40	µg/Kg-dry	1	12/24/2018 20:17
Pyrene	U		1.5	8.1	µg/Kg-dry	1	12/24/2018 20:17
Surr: 2,4,6-Tribromophenol	*69.6*			*38-92*	*%REC*	1	12/24/2018 20:17
Surr: 2-Fluorobiphenyl	*76.8*			*44-107*	*%REC*	1	12/24/2018 20:17
Surr: 2-Fluorophenol	*55.6*			*37-109*	*%REC*	1	12/24/2018 20:17
Surr: 4-Terphenyl-d14	*67.7*			*52-123*	*%REC*	1	12/24/2018 20:17
Surr: Nitrobenzene-d5	*69.5*			*41-94*	*%REC*	1	12/24/2018 20:17
Surr: Phenol-d6	*52.7*			*28-111*	*%REC*	1	12/24/2018 20:17
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,900	7,500	µg/Kg-dry	1	12/19/2018 03:11
Surr: Toluene-d8	*87.4*			*70-130*	*%REC*	1	12/19/2018 03:11
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
Acetone	U		47	150	µg/Kg-dry	1	12/21/2018 16:14
Surr: 1,2-Dichloroethane-d4	*95.9*			*70-130*	*%REC*	1	12/21/2018 16:14
Surr: 4-Bromofluorobenzene	*90.8*			*70-130*	*%REC*	1	12/21/2018 16:14
Surr: Dibromofluoromethane	*100*			*70-130*	*%REC*	1	12/21/2018 16:14
Surr: Toluene-d8	*99.3*			*70-130*	*%REC*	1	12/21/2018 16:14
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **EMR**
1,1,1-Trichloroethane	U		0.89	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,1,2,2-Tetrachloroethane	U		0.31	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,1,2-Trichloroethane	U		0.44	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,1,2-Trichlorotrifluoroethane	U		1.2	5.7	µg/Kg-dry	0.911	12/20/2018 19:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (0--2)
Collection Date: 12/10/2018 12:30 PM

Work Order: 1812740
Lab ID: 1812740-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethane	U		2.3	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,1-Dichloroethene	U		1.1	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,2,3-Trichlorobenzene	U		0.70	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,2,4-Trichlorobenzene	U		0.83	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,2-Dibromo-3-chloropropane	U		1.6	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,2-Dibromoethane	U		0.41	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,2-Dichlorobenzene	U		0.71	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,2-Dichloroethane	U		0.41	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,2-Dichloropropane	U		0.50	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,3-Dichlorobenzene	U		0.59	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
1,4-Dichlorobenzene	U		0.41	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
2-Butanone	U		2.2	11	µg/Kg-dry	0.911	12/20/2018 19:49
2-Hexanone	U		1.1	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
4-Methyl-2-pentanone	**1.5**	J	**0.92**	**5.7**	**µg/Kg-dry**	0.911	12/20/2018 19:49
Benzene	U		0.59	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Bromochloromethane	U		0.56	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Bromodichloromethane	U		0.36	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Bromoform	U		0.35	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Bromomethane	U		0.82	11	µg/Kg-dry	0.911	12/20/2018 19:49
Carbon disulfide	U		0.63	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Carbon tetrachloride	U		0.94	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Chlorobenzene	U		0.36	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Chloroethane	U		0.71	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Chloroform	U		0.34	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Chloromethane	U		0.52	11	µg/Kg-dry	0.911	12/20/2018 19:49
cis-1,2-Dichloroethene	U		0.54	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
cis-1,3-Dichloropropene	U		0.29	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Cyclohexane	U		3.5	11	µg/Kg-dry	0.911	12/20/2018 19:49
Dibromochloromethane	U		0.53	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Dichlorodifluoromethane	U		1.2	11	µg/Kg-dry	0.911	12/20/2018 19:49
Ethylbenzene	U		0.68	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Isopropylbenzene	U		0.72	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
m,p-Xylene	U		1.4	2.8	µg/Kg-dry	0.911	12/20/2018 19:49
Methyl acetate	U		1.4	11	µg/Kg-dry	0.911	12/20/2018 19:49
Methyl tert-butyl ether	U		0.26	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Methylcyclohexane	U		1.7	11	µg/Kg-dry	0.911	12/20/2018 19:49
Methylene chloride	U		0.97	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
o-Xylene	U		0.53	2.8	µg/Kg-dry	0.911	12/20/2018 19:49
Styrene	U		0.45	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Tetrachloroethene	U		1.0	5.7	µg/Kg-dry	0.911	12/20/2018 19:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (0--2)
Collection Date: 12/10/2018 12:30 PM

Work Order: 1812740
Lab ID: 1812740-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.63	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
trans-1,2-Dichloroethene	U		0.45	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
trans-1,3-Dichloropropene	U		0.33	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Trichloroethene	U		0.82	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Trichlorofluoromethane	U		0.80	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Vinyl chloride	U		0.79	5.7	µg/Kg-dry	0.911	12/20/2018 19:49
Surr: 1,2-Dichloroethane-d4	*128*			*83-132*	*%REC*	0.911	12/20/2018 19:49
Surr: 4-Bromofluorobenzene	*89.8*			*83-111*	*%REC*	0.911	12/20/2018 19:49
Surr: Dibromofluoromethane	*65.4*	S		*77-125*	*%REC*	0.911	12/20/2018 19:49
Surr: Toluene-d8	*98.0*			*86-108*	*%REC*	0.911	12/20/2018 19:49
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**20**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (10-12)
Collection Date: 12/10/2018 01:05 PM

Work Order: 1812740
Lab ID: 1812740-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		26	76	µg/Kg-dry	1	12/21/2018 15:31
Aroclor 1221	U		26	76	µg/Kg-dry	1	12/21/2018 15:31
Aroclor 1232	U		26	76	µg/Kg-dry	1	12/21/2018 15:31
Aroclor 1242	U		26	76	µg/Kg-dry	1	12/21/2018 15:31
Aroclor 1248	U		26	76	µg/Kg-dry	1	12/21/2018 15:31
Aroclor 1254	U		21	76	µg/Kg-dry	1	12/21/2018 15:31
Aroclor 1260	U		21	76	µg/Kg-dry	1	12/21/2018 15:31
Aroclor 1262	U		21	76	µg/Kg-dry	1	12/21/2018 15:31
Aroclor 1268	U		21	76	µg/Kg-dry	1	12/21/2018 15:31
Surr: Decachlorobiphenyl	*95.9*			*40-140*	*%REC*	1	12/21/2018 15:31
Surr: Tetrachloro-m-xylene	*88.6*			*45-124*	*%REC*	1	12/21/2018 15:31
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/20/18		Analyst: **RSH**
Mercury	**0.053**		**0.0022**	**0.022**	**mg/Kg-dry**	1	12/21/2018 19:13
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/14/18		Analyst: **ABL**
Arsenic	**2.7**		**0.078**	**0.30**	**mg/Kg-dry**	1	12/18/2018 09:04
Barium	**20**		**0.12**	**0.30**	**mg/Kg-dry**	1	12/18/2018 09:04
Cadmium	U		0.029	0.60	mg/Kg-dry	1	12/18/2018 09:04
Chromium	**9.1**		**0.017**	**0.30**	**mg/Kg-dry**	1	12/18/2018 09:04
Lead	**10**		**0.063**	**0.30**	**mg/Kg-dry**	1	12/18/2018 09:04
Selenium	**0.28**	J	**0.17**	**0.60**	**mg/Kg-dry**	1	12/18/2018 09:04
Silver	U		0.037	0.30	mg/Kg-dry	1	12/18/2018 09:04
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.7	5.8	mg/Kg-dry	1	12/22/2018 04:00
ORO (C21-C35)	U		1.9	5.8	mg/Kg-dry	1	12/22/2018 04:00
Surr: 4-Terphenyl-d14	*95.0*			*25-137*	*%REC*	1	12/22/2018 04:00
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.2	38	µg/Kg-dry	1	12/24/2018 20:38
1,2,4,5-Tetrachlorobenzene	U		30	380	µg/Kg-dry	1	12/24/2018 20:38
1,4-Dioxane	U		27	190	µg/Kg-dry	1	12/24/2018 20:38
2,2`-Oxybis(1-chloropropane)	U		8.9	38	µg/Kg-dry	1	12/24/2018 20:38
2,3,4,6-Tetrachlorophenol	U		9.9	77	µg/Kg-dry	1	12/24/2018 20:38
2,4,5-Trichlorophenol	U		10	38	µg/Kg-dry	1	12/24/2018 20:38
2,4,6-Trichlorophenol	U		10	38	µg/Kg-dry	1	12/24/2018 20:38
2,4-Dichlorophenol	U		8.0	38	µg/Kg-dry	1	12/24/2018 20:38
2,4-Dimethylphenol	U		7.8	38	µg/Kg-dry	1	12/24/2018 20:38
2,4-Dinitrophenol	U		21	38	µg/Kg-dry	1	12/24/2018 20:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (10-12)
Collection Date: 12/10/2018 01:05 PM

Work Order: 1812740
Lab ID: 1812740-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		9.9	38	µg/Kg-dry	1	12/24/2018 20:38
2,6-Dinitrotoluene	U		6.3	38	µg/Kg-dry	1	12/24/2018 20:38
2-Chloronaphthalene	U		5.3	7.6	µg/Kg-dry	1	12/24/2018 20:38
2-Chlorophenol	U		12	38	µg/Kg-dry	1	12/24/2018 20:38
2-Methylnaphthalene	U		3.9	7.6	µg/Kg-dry	1	12/24/2018 20:38
2-Methylphenol	U		10	38	µg/Kg-dry	1	12/24/2018 20:38
2-Nitroaniline	U		8.7	38	µg/Kg-dry	1	12/24/2018 20:38
2-Nitrophenol	U		11	38	µg/Kg-dry	1	12/24/2018 20:38
3&4-Methylphenol	U		7.7	38	µg/Kg-dry	1	12/24/2018 20:38
3,3´-Dichlorobenzidine	U		5.7	190	µg/Kg-dry	1	12/24/2018 20:38
3-Nitroaniline	U		8.7	38	µg/Kg-dry	1	12/24/2018 20:38
4,6-Dinitro-2-methylphenol	U		9.6	38	µg/Kg-dry	1	12/24/2018 20:38
4-Bromophenyl phenyl ether	U		10	38	µg/Kg-dry	1	12/24/2018 20:38
4-Chloro-3-methylphenol	U		11	38	µg/Kg-dry	1	12/24/2018 20:38
4-Chloroaniline	U		6.0	77	µg/Kg-dry	1	12/24/2018 20:38
4-Chlorophenyl phenyl ether	U		11	38	µg/Kg-dry	1	12/24/2018 20:38
4-Nitroaniline	U		59	190	µg/Kg-dry	1	12/24/2018 20:38
4-Nitrophenol	U		34	38	µg/Kg-dry	1	12/24/2018 20:38
Acenaphthene	U		5.5	7.6	µg/Kg-dry	1	12/24/2018 20:38
Acenaphthylene	U		6.6	7.6	µg/Kg-dry	1	12/24/2018 20:38
Acetophenone	U		6.0	38	µg/Kg-dry	1	12/24/2018 20:38
Anthracene	U		5.4	7.6	µg/Kg-dry	1	12/24/2018 20:38
Atrazine	U		6.0	38	µg/Kg-dry	1	12/24/2018 20:38
Benzaldehyde	U		58	77	µg/Kg-dry	1	12/24/2018 20:38
Benzo(a)anthracene	U		6.6	7.6	µg/Kg-dry	1	12/24/2018 20:38
Benzo(a)pyrene	U		4.7	7.6	µg/Kg-dry	1	12/24/2018 20:38
Benzo(b)fluoranthene	U		5.7	7.6	µg/Kg-dry	1	12/24/2018 20:38
Benzo(g,h,i)perylene	U		5.8	7.6	µg/Kg-dry	1	12/24/2018 20:38
Benzo(k)fluoranthene	U		5.8	7.6	µg/Kg-dry	1	12/24/2018 20:38
Bis(2-chloroethoxy)methane	U		3.7	38	µg/Kg-dry	1	12/24/2018 20:38
Bis(2-chloroethyl)ether	U		11	38	µg/Kg-dry	1	12/24/2018 20:38
Bis(2-ethylhexyl)phthalate	**170**		**6.6**	**38**	**µg/Kg-dry**	1	12/24/2018 20:38
Butyl benzyl phthalate	U		6.4	38	µg/Kg-dry	1	12/24/2018 20:38
Caprolactam	U		13	38	µg/Kg-dry	1	12/24/2018 20:38
Carbazole	U		4.1	38	µg/Kg-dry	1	12/24/2018 20:38
Chrysene	U		6.2	7.6	µg/Kg-dry	1	12/24/2018 20:38
Dibenzo(a,h)anthracene	U		4.1	7.6	µg/Kg-dry	1	12/24/2018 20:38
Dibenzofuran	U		5.6	38	µg/Kg-dry	1	12/24/2018 20:38
Diethyl phthalate	U		5.8	38	µg/Kg-dry	1	12/24/2018 20:38
Dimethyl phthalate	U		7.4	38	µg/Kg-dry	1	12/24/2018 20:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (10-12)
Collection Date: 12/10/2018 01:05 PM

Work Order: 1812740
Lab ID: 1812740-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.0	38	µg/Kg-dry	1	12/24/2018 20:38
Di-n-octyl phthalate	U		7.3	38	µg/Kg-dry	1	12/24/2018 20:38
Fluoranthene	U		3.7	7.6	µg/Kg-dry	1	12/24/2018 20:38
Fluorene	U		5.5	7.6	µg/Kg-dry	1	12/24/2018 20:38
Hexachlorobenzene	U		11	38	µg/Kg-dry	1	12/24/2018 20:38
Hexachlorobutadiene	U		21	38	µg/Kg-dry	1	12/24/2018 20:38
Hexachlorocyclopentadiene	U		13	38	µg/Kg-dry	1	12/24/2018 20:38
Hexachloroethane	U		16	38	µg/Kg-dry	1	12/24/2018 20:38
Indeno(1,2,3-cd)pyrene	U		5.3	7.6	µg/Kg-dry	1	12/24/2018 20:38
Isophorone	U		7.4	190	µg/Kg-dry	1	12/24/2018 20:38
Naphthalene	U		4.9	7.6	µg/Kg-dry	1	12/24/2018 20:38
Nitrobenzene	U		13	190	µg/Kg-dry	1	12/24/2018 20:38
N-Nitrosodi-n-propylamine	U		6.3	38	µg/Kg-dry	1	12/24/2018 20:38
N-Nitrosodiphenylamine	U		3.7	38	µg/Kg-dry	1	12/24/2018 20:38
Pentachlorophenol	U		14	38	µg/Kg-dry	1	12/24/2018 20:38
Phenanthrene	U		3.5	7.6	µg/Kg-dry	1	12/24/2018 20:38
Phenol	U		9.5	38	µg/Kg-dry	1	12/24/2018 20:38
Pyrene	U		1.4	7.6	µg/Kg-dry	1	12/24/2018 20:38
Surr: 2,4,6-Tribromophenol	*65.8*			*38-92*	*%REC*	1	12/24/2018 20:38
Surr: 2-Fluorobiphenyl	*70.8*			*44-107*	*%REC*	1	12/24/2018 20:38
Surr: 2-Fluorophenol	*60.3*			*37-109*	*%REC*	1	12/24/2018 20:38
Surr: 4-Terphenyl-d14	*67.1*			*52-123*	*%REC*	1	12/24/2018 20:38
Surr: Nitrobenzene-d5	*64.6*			*41-94*	*%REC*	1	12/24/2018 20:38
Surr: Phenol-d6	*56.1*			*28-111*	*%REC*	1	12/24/2018 20:38
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,700	6,600	µg/Kg-dry	1	12/19/2018 03:26
Surr: Toluene-d8	*87.9*			*70-130*	*%REC*	1	12/19/2018 03:26
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **EMR**
1,1,1-Trichloroethane	U		0.80	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,1,2,2-Tetrachloroethane	U		0.27	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,1,2-Trichloroethane	U		0.39	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,1,2-Trichlorotrifluoroethane	U		1.1	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,1-Dichloroethane	U		2.1	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,1-Dichloroethene	U		0.99	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,2,3-Trichlorobenzene	U		0.62	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,2,4-Trichlorobenzene	U		0.74	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,2-Dibromo-3-chloropropane	U		1.4	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,2-Dibromoethane	U		0.36	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,2-Dichlorobenzene	U		0.63	5.0	µg/Kg-dry	0.871	12/20/2018 20:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (10-12)
Collection Date: 12/10/2018 01:05 PM

Work Order: 1812740
Lab ID: 1812740-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		0.36	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,2-Dichloropropane	U		0.44	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,3-Dichlorobenzene	U		0.52	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
1,4-Dichlorobenzene	U		0.36	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
2-Butanone	U		1.9	10	µg/Kg-dry	0.871	12/20/2018 20:06
2-Hexanone	U		0.99	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
4-Methyl-2-pentanone	U		0.82	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Acetone	**22**		**2.1**	**10**	**µg/Kg-dry**	0.871	12/20/2018 20:06
Benzene	U		0.52	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Bromochloromethane	U		0.49	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Bromodichloromethane	U		0.32	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Bromoform	U		0.31	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Bromomethane	U		0.73	10	µg/Kg-dry	0.871	12/20/2018 20:06
Carbon disulfide	U		0.56	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Carbon tetrachloride	U		0.84	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Chlorobenzene	U		0.32	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Chloroethane	U		0.63	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Chloroform	U		0.30	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Chloromethane	U		0.46	10	µg/Kg-dry	0.871	12/20/2018 20:06
cis-1,2-Dichloroethene	U		0.48	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
cis-1,3-Dichloropropene	U		0.26	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Cyclohexane	U		3.1	10	µg/Kg-dry	0.871	12/20/2018 20:06
Dibromochloromethane	U		0.47	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Dichlorodifluoromethane	U		1.1	10	µg/Kg-dry	0.871	12/20/2018 20:06
Ethylbenzene	U		0.60	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Isopropylbenzene	U		0.64	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
m,p-Xylene	U		1.2	2.5	µg/Kg-dry	0.871	12/20/2018 20:06
Methyl acetate	U		1.2	10	µg/Kg-dry	0.871	12/20/2018 20:06
Methyl tert-butyl ether	U		0.23	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Methylcyclohexane	**2.0**	J	**1.5**	**10**	**µg/Kg-dry**	0.871	12/20/2018 20:06
Methylene chloride	**4.1**	J	**0.87**	**5.0**	**µg/Kg-dry**	0.871	12/20/2018 20:06
o-Xylene	U		0.47	2.5	µg/Kg-dry	0.871	12/20/2018 20:06
Styrene	U		0.40	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Tetrachloroethene	U		0.90	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Toluene	U		0.56	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
trans-1,2-Dichloroethene	U		0.40	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
trans-1,3-Dichloropropene	U		0.29	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Trichloroethene	U		0.73	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Trichlorofluoromethane	U		0.72	5.0	µg/Kg-dry	0.871	12/20/2018 20:06
Vinyl chloride	U		0.71	5.0	µg/Kg-dry	0.871	12/20/2018 20:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-1 (10-12)
Collection Date: 12/10/2018 01:05 PM

Work Order: 1812740
Lab ID: 1812740-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*134*	S		*83-132*	*%REC*	0.871	12/20/2018 20:06
Surr: 4-Bromofluorobenzene	*89.9*			*83-111*	*%REC*	0.871	12/20/2018 20:06
Surr: Dibromofluoromethane	*53.6*	S		*77-125*	*%REC*	0.871	12/20/2018 20:06
Surr: Toluene-d8	*93.4*			*86-108*	*%REC*	0.871	12/20/2018 20:06
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**14**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (0-2)
Collection Date: 12/10/2018 01:35 PM

Work Order: 1812740
Lab ID: 1812740-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		29	84	µg/Kg-dry	1	12/21/2018 15:45
Aroclor 1221	U		29	84	µg/Kg-dry	1	12/21/2018 15:45
Aroclor 1232	U		29	84	µg/Kg-dry	1	12/21/2018 15:45
Aroclor 1242	U		29	84	µg/Kg-dry	1	12/21/2018 15:45
Aroclor 1248	U		29	84	µg/Kg-dry	1	12/21/2018 15:45
Aroclor 1254	U		23	84	µg/Kg-dry	1	12/21/2018 15:45
Aroclor 1260	U		23	84	µg/Kg-dry	1	12/21/2018 15:45
Aroclor 1262	U		23	84	µg/Kg-dry	1	12/21/2018 15:45
Aroclor 1268	U		23	84	µg/Kg-dry	1	12/21/2018 15:45
Surr: Decachlorobiphenyl	*94.6*			*40-140*	*%REC*	1	12/21/2018 15:45
Surr: Tetrachloro-m-xylene	*90.1*			*45-124*	*%REC*	1	12/21/2018 15:45
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/20/18		Analyst: **RSH**
Mercury	**0.042**		**0.0024**	**0.024**	**mg/Kg-dry**	1	12/21/2018 19:23
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/17/18		Analyst: **ABL**
Arsenic	**6.2**		**0.11**	**0.44**	**mg/Kg-dry**	1	12/19/2018 04:10
Barium	**170**		**0.17**	**0.44**	**mg/Kg-dry**	1	12/19/2018 04:10
Cadmium	**0.67**	J	**0.042**	**0.87**	**mg/Kg-dry**	1	12/19/2018 04:10
Chromium	**13**		**0.024**	**0.44**	**mg/Kg-dry**	1	12/19/2018 04:10
Lead	**15**		**0.093**	**0.44**	**mg/Kg-dry**	1	12/19/2018 04:10
Selenium	**0.75**	J	**0.24**	**0.87**	**mg/Kg-dry**	1	12/19/2018 04:10
Silver	U		0.054	0.44	mg/Kg-dry	1	12/19/2018 04:10
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	**11**		**1.9**	**6.4**	**mg/Kg-dry**	1	12/22/2018 04:28
ORO (C21-C35)	**27**		**2.1**	**6.4**	**mg/Kg-dry**	1	12/22/2018 04:28
Surr: 4-Terphenyl-d14	*53.8*			*25-137*	*%REC*	1	12/22/2018 04:28
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.9	42	µg/Kg-dry	1	12/24/2018 19:37
1,2,4,5-Tetrachlorobenzene	U		33	420	µg/Kg-dry	1	12/24/2018 19:37
1,4-Dioxane	U		30	210	µg/Kg-dry	1	12/24/2018 19:37
2,2`-Oxybis(1-chloropropane)	U		9.9	42	µg/Kg-dry	1	12/24/2018 19:37
2,3,4,6-Tetrachlorophenol	U		11	85	µg/Kg-dry	1	12/24/2018 19:37
2,4,5-Trichlorophenol	U		12	42	µg/Kg-dry	1	12/24/2018 19:37
2,4,6-Trichlorophenol	U		11	42	µg/Kg-dry	1	12/24/2018 19:37
2,4-Dichlorophenol	U		8.9	42	µg/Kg-dry	1	12/24/2018 19:37
2,4-Dimethylphenol	U		8.6	42	µg/Kg-dry	1	12/24/2018 19:37
2,4-Dinitrophenol	U		23	42	µg/Kg-dry	1	12/24/2018 19:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (0-2)
Collection Date: 12/10/2018 01:35 PM

Work Order: 1812740
Lab ID: 1812740-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		11	42	µg/Kg-dry	1	12/24/2018 19:37
2,6-Dinitrotoluene	U		7.0	42	µg/Kg-dry	1	12/24/2018 19:37
2-Chloronaphthalene	U		5.9	8.5	µg/Kg-dry	1	12/24/2018 19:37
2-Chlorophenol	U		13	42	µg/Kg-dry	1	12/24/2018 19:37
2-Methylnaphthalene	**36**		**4.3**	**8.5**	**µg/Kg-dry**	1	12/24/2018 19:37
2-Methylphenol	U		11	42	µg/Kg-dry	1	12/24/2018 19:37
2-Nitroaniline	U		9.7	42	µg/Kg-dry	1	12/24/2018 19:37
2-Nitrophenol	U		12	42	µg/Kg-dry	1	12/24/2018 19:37
3&4-Methylphenol	U		8.5	42	µg/Kg-dry	1	12/24/2018 19:37
3,3´-Dichlorobenzidine	U		6.3	210	µg/Kg-dry	1	12/24/2018 19:37
3-Nitroaniline	U		9.7	42	µg/Kg-dry	1	12/24/2018 19:37
4,6-Dinitro-2-methylphenol	U		11	42	µg/Kg-dry	1	12/24/2018 19:37
4-Bromophenyl phenyl ether	U		11	42	µg/Kg-dry	1	12/24/2018 19:37
4-Chloro-3-methylphenol	U		12	42	µg/Kg-dry	1	12/24/2018 19:37
4-Chloroaniline	U		6.7	85	µg/Kg-dry	1	12/24/2018 19:37
4-Chlorophenyl phenyl ether	U		12	42	µg/Kg-dry	1	12/24/2018 19:37
4-Nitroaniline	U		66	210	µg/Kg-dry	1	12/24/2018 19:37
4-Nitrophenol	U		38	42	µg/Kg-dry	1	12/24/2018 19:37
Acenaphthene	U		6.1	8.5	µg/Kg-dry	1	12/24/2018 19:37
Acenaphthylene	U		7.3	8.5	µg/Kg-dry	1	12/24/2018 19:37
Acetophenone	U		6.6	42	µg/Kg-dry	1	12/24/2018 19:37
Anthracene	U		6.0	8.5	µg/Kg-dry	1	12/24/2018 19:37
Atrazine	U		6.7	42	µg/Kg-dry	1	12/24/2018 19:37
Benzaldehyde	U		65	85	µg/Kg-dry	1	12/24/2018 19:37
Benzo(a)anthracene	**20**		**7.3**	**8.5**	**µg/Kg-dry**	1	12/24/2018 19:37
Benzo(a)pyrene	U		5.2	8.5	µg/Kg-dry	1	12/24/2018 19:37
Benzo(b)fluoranthene	U		6.3	8.5	µg/Kg-dry	1	12/24/2018 19:37
Benzo(g,h,i)perylene	U		6.5	8.5	µg/Kg-dry	1	12/24/2018 19:37
Benzo(k)fluoranthene	U		6.4	8.5	µg/Kg-dry	1	12/24/2018 19:37
Bis(2-chloroethoxy)methane	U		4.1	42	µg/Kg-dry	1	12/24/2018 19:37
Bis(2-chloroethyl)ether	U		12	42	µg/Kg-dry	1	12/24/2018 19:37
Bis(2-ethylhexyl)phthalate	**66**		**7.3**	**42**	**µg/Kg-dry**	1	12/24/2018 19:37
Butyl benzyl phthalate	U		7.2	42	µg/Kg-dry	1	12/24/2018 19:37
Caprolactam	U		14	42	µg/Kg-dry	1	12/24/2018 19:37
Carbazole	U		4.6	42	µg/Kg-dry	1	12/24/2018 19:37
Chrysene	**16**		**6.8**	**8.5**	**µg/Kg-dry**	1	12/24/2018 19:37
Dibenzo(a,h)anthracene	U		4.6	8.5	µg/Kg-dry	1	12/24/2018 19:37
Dibenzofuran	U		6.2	42	µg/Kg-dry	1	12/24/2018 19:37
Diethyl phthalate	U		6.5	42	µg/Kg-dry	1	12/24/2018 19:37
Dimethyl phthalate	U		8.3	42	µg/Kg-dry	1	12/24/2018 19:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (0-2)
Collection Date: 12/10/2018 01:35 PM

Work Order: 1812740
Lab ID: 1812740-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.7	42	µg/Kg-dry	1	12/24/2018 19:37
Di-n-octyl phthalate	U		8.1	42	µg/Kg-dry	1	12/24/2018 19:37
Fluoranthene	**34**		**4.1**	**8.5**	**µg/Kg-dry**	1	12/24/2018 19:37
Fluorene	U		6.1	8.5	µg/Kg-dry	1	12/24/2018 19:37
Hexachlorobenzene	U		12	42	µg/Kg-dry	1	12/24/2018 19:37
Hexachlorobutadiene	U		23	42	µg/Kg-dry	1	12/24/2018 19:37
Hexachlorocyclopentadiene	U		14	42	µg/Kg-dry	1	12/24/2018 19:37
Hexachloroethane	U		18	42	µg/Kg-dry	1	12/24/2018 19:37
Indeno(1,2,3-cd)pyrene	U		5.9	8.5	µg/Kg-dry	1	12/24/2018 19:37
Isophorone	U		8.3	210	µg/Kg-dry	1	12/24/2018 19:37
Naphthalene	U		5.4	8.5	µg/Kg-dry	1	12/24/2018 19:37
Nitrobenzene	U		14	210	µg/Kg-dry	1	12/24/2018 19:37
N-Nitrosodi-n-propylamine	U		7.0	42	µg/Kg-dry	1	12/24/2018 19:37
N-Nitrosodiphenylamine	U		4.1	42	µg/Kg-dry	1	12/24/2018 19:37
Pentachlorophenol	U		16	42	µg/Kg-dry	1	12/24/2018 19:37
Phenanthrene	U		3.9	8.5	µg/Kg-dry	1	12/24/2018 19:37
Phenol	U		11	42	µg/Kg-dry	1	12/24/2018 19:37
Pyrene	**28**		**1.5**	**8.5**	**µg/Kg-dry**	1	12/24/2018 19:37
Surr: 2,4,6-Tribromophenol	*74.3*			*38-92*	*%REC*	1	12/24/2018 19:37
Surr: 2-Fluorobiphenyl	*82.6*			*44-107*	*%REC*	1	12/24/2018 19:37
Surr: 2-Fluorophenol	*55.7*			*37-109*	*%REC*	1	12/24/2018 19:37
Surr: 4-Terphenyl-d14	*72.6*			*52-123*	*%REC*	1	12/24/2018 19:37
Surr: Nitrobenzene-d5	*73.4*			*41-94*	*%REC*	1	12/24/2018 19:37
Surr: Phenol-d6	*51.9*			*28-111*	*%REC*	1	12/24/2018 19:37
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,900	7,700	µg/Kg-dry	1	12/19/2018 03:42
Surr: Toluene-d8	*89.2*			*70-130*	*%REC*	1	12/19/2018 03:42
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
Acetone	U		48	150	µg/Kg-dry	1	12/21/2018 16:29
Surr: 1,2-Dichloroethane-d4	*102*			*70-130*	*%REC*	1	12/21/2018 16:29
Surr: 4-Bromofluorobenzene	*91.4*			*70-130*	*%REC*	1	12/21/2018 16:29
Surr: Dibromofluoromethane	*101*			*70-130*	*%REC*	1	12/21/2018 16:29
Surr: Toluene-d8	*95.8*			*70-130*	*%REC*	1	12/21/2018 16:29
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **EMR**
1,1,1-Trichloroethane	U		0.83	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,1,2,2-Tetrachloroethane	U		0.28	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,1,2-Trichloroethane	U		0.41	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,1,2-Trichlorotrifluoroethane	U		1.1	5.2	µg/Kg-dry	0.821	12/20/2018 15:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (0-2)
Collection Date: 12/10/2018 01:35 PM

Work Order: 1812740
Lab ID: 1812740-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethane	U		2.2	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,1-Dichloroethene	U		1.0	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,2,3-Trichlorobenzene	U		0.65	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,2,4-Trichlorobenzene	U		0.76	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,2-Dibromo-3-chloropropane	U		1.4	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,2-Dibromoethane	U		0.38	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,2-Dichlorobenzene	U		0.66	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,2-Dichloroethane	U		0.38	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,2-Dichloropropane	U		0.46	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,3-Dichlorobenzene	U		0.54	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
1,4-Dichlorobenzene	U		0.38	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
2-Butanone	U		2.0	10	µg/Kg-dry	0.821	12/20/2018 15:55
2-Hexanone	U		1.0	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
4-Methyl-2-pentanone	U		0.85	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Benzene	U		0.54	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Bromochloromethane	U		0.51	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Bromodichloromethane	U		0.33	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Bromoform	U		0.32	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Bromomethane	U		0.75	10	µg/Kg-dry	0.821	12/20/2018 15:55
Carbon disulfide	U		0.59	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Carbon tetrachloride	U		0.87	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Chlorobenzene	U		0.33	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Chloroethane	U		0.66	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Chloroform	U		0.31	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Chloromethane	U		0.48	10	µg/Kg-dry	0.821	12/20/2018 15:55
cis-1,2-Dichloroethene	U		0.50	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
cis-1,3-Dichloropropene	U		0.27	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Cyclohexane	U		3.2	10	µg/Kg-dry	0.821	12/20/2018 15:55
Dibromochloromethane	U		0.49	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Dichlorodifluoromethane	U		1.1	10	µg/Kg-dry	0.821	12/20/2018 15:55
Ethylbenzene	U		0.63	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Isopropylbenzene	U		0.67	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
m,p-Xylene	U		1.3	2.6	µg/Kg-dry	0.821	12/20/2018 15:55
Methyl acetate	U		1.3	10	µg/Kg-dry	0.821	12/20/2018 15:55
Methyl tert-butyl ether	U		0.24	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Methylcyclohexane	U		1.6	10	µg/Kg-dry	0.821	12/20/2018 15:55
Methylene chloride	U		0.90	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
o-Xylene	U		0.49	2.6	µg/Kg-dry	0.821	12/20/2018 15:55
Styrene	U		0.42	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Tetrachloroethene	U		0.93	5.2	µg/Kg-dry	0.821	12/20/2018 15:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (0-2)
Collection Date: 12/10/2018 01:35 PM

Work Order: 1812740
Lab ID: 1812740-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.59	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
trans-1,2-Dichloroethene	U		0.42	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
trans-1,3-Dichloropropene	U		0.30	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Trichloroethene	U		0.75	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Trichlorofluoromethane	U		0.74	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Vinyl chloride	U		0.73	5.2	µg/Kg-dry	0.821	12/20/2018 15:55
Surr: 1,2-Dichloroethane-d4	*125*			*83-132*	*%REC*	0.821	12/20/2018 15:55
Surr: 4-Bromofluorobenzene	*91.6*			*83-111*	*%REC*	0.821	12/20/2018 15:55
Surr: Dibromofluoromethane	*57.8*	S		*77-125*	*%REC*	0.821	12/20/2018 15:55
Surr: Toluene-d8	*95.9*			*86-108*	*%REC*	0.821	12/20/2018 15:55
MOISTURE			Method: **SW3550C**				Analyst: **KTP**
Moisture	**21**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (12-14)
Collection Date: 12/10/2018 01:55 PM

Work Order: 1812740
Lab ID: 1812740-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	81	µg/Kg-dry	1	12/21/2018 14:33
Aroclor 1221	U		28	81	µg/Kg-dry	1	12/21/2018 14:33
Aroclor 1232	U		28	81	µg/Kg-dry	1	12/21/2018 14:33
Aroclor 1242	U		28	81	µg/Kg-dry	1	12/21/2018 14:33
Aroclor 1248	U		28	81	µg/Kg-dry	1	12/21/2018 14:33
Aroclor 1254	U		22	81	µg/Kg-dry	1	12/21/2018 14:33
Aroclor 1260	U		22	81	µg/Kg-dry	1	12/21/2018 14:33
Aroclor 1262	U		22	81	µg/Kg-dry	1	12/21/2018 14:33
Aroclor 1268	U		22	81	µg/Kg-dry	1	12/21/2018 14:33
Surr: Decachlorobiphenyl	*72.5*			*40-140*	*%REC*	1	12/21/2018 14:33
Surr: Tetrachloro-m-xylene	*66.3*			*45-124*	*%REC*	1	12/21/2018 14:33
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/20/18		Analyst: **RSH**
Mercury	**0.037**		**0.0023**	**0.023**	**mg/Kg-dry**	1	12/21/2018 19:25
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/17/18		Analyst: **ABL**
Arsenic	**4.8**		**0.11**	**0.42**	**mg/Kg-dry**	1	12/19/2018 04:16
Barium	**26**		**0.17**	**0.42**	**mg/Kg-dry**	1	12/19/2018 04:16
Cadmium	**1.8**		**0.040**	**0.84**	**mg/Kg-dry**	1	12/19/2018 04:16
Chromium	**17**		**0.023**	**0.42**	**mg/Kg-dry**	1	12/19/2018 04:16
Lead	**9.3**		**0.089**	**0.42**	**mg/Kg-dry**	1	12/19/2018 04:16
Selenium	**0.81**	J	**0.23**	**0.84**	**mg/Kg-dry**	1	12/19/2018 04:16
Silver	**0.29**	J	**0.052**	**0.42**	**mg/Kg-dry**	1	12/19/2018 04:16
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	**12**		**1.8**	**6.1**	**mg/Kg-dry**	1	12/22/2018 04:55
ORO (C21-C35)	U		2.0	6.1	mg/Kg-dry	1	12/22/2018 04:55
Surr: 4-Terphenyl-d14	*59.2*			*25-137*	*%REC*	1	12/22/2018 04:55
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.5	39	µg/Kg-dry	1	12/24/2018 19:57
1,2,4,5-Tetrachlorobenzene	U		31	400	µg/Kg-dry	1	12/24/2018 19:57
1,4-Dioxane	U		29	200	µg/Kg-dry	1	12/24/2018 19:57
2,2`-Oxybis(1-chloropropane)	U		9.3	39	µg/Kg-dry	1	12/24/2018 19:57
2,3,4,6-Tetrachlorophenol	U		10	80	µg/Kg-dry	1	12/24/2018 19:57
2,4,5-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/24/2018 19:57
2,4,6-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/24/2018 19:57
2,4-Dichlorophenol	U		8.4	39	µg/Kg-dry	1	12/24/2018 19:57
2,4-Dimethylphenol	U		8.1	39	µg/Kg-dry	1	12/24/2018 19:57
2,4-Dinitrophenol	U		22	39	µg/Kg-dry	1	12/24/2018 19:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (12-14)
Collection Date: 12/10/2018 01:55 PM

Work Order: 1812740
Lab ID: 1812740-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	39	µg/Kg-dry	1	12/24/2018 19:57
2,6-Dinitrotoluene	U		6.6	39	µg/Kg-dry	1	12/24/2018 19:57
2-Chloronaphthalene	U		5.6	8.0	µg/Kg-dry	1	12/24/2018 19:57
2-Chlorophenol	U		13	39	µg/Kg-dry	1	12/24/2018 19:57
2-Methylnaphthalene	**31**		**4.1**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
2-Methylphenol	U		11	39	µg/Kg-dry	1	12/24/2018 19:57
2-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/24/2018 19:57
2-Nitrophenol	U		11	39	µg/Kg-dry	1	12/24/2018 19:57
3&4-Methylphenol	U		8.0	39	µg/Kg-dry	1	12/24/2018 19:57
3,3´-Dichlorobenzidine	U		5.9	200	µg/Kg-dry	1	12/24/2018 19:57
3-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/24/2018 19:57
4,6-Dinitro-2-methylphenol	**57**		**10**	**39**	**µg/Kg-dry**	1	12/24/2018 19:57
4-Bromophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/24/2018 19:57
4-Chloro-3-methylphenol	U		11	39	µg/Kg-dry	1	12/24/2018 19:57
4-Chloroaniline	U		6.3	80	µg/Kg-dry	1	12/24/2018 19:57
4-Chlorophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/24/2018 19:57
4-Nitroaniline	U		62	200	µg/Kg-dry	1	12/24/2018 19:57
4-Nitrophenol	**45**		**36**	**39**	**µg/Kg-dry**	1	12/24/2018 19:57
Acenaphthene	**9.6**		**5.8**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Acenaphthylene	U		6.9	8.0	µg/Kg-dry	1	12/24/2018 19:57
Acetophenone	U		6.2	39	µg/Kg-dry	1	12/24/2018 19:57
Anthracene	**33**		**5.6**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Atrazine	U		6.3	39	µg/Kg-dry	1	12/24/2018 19:57
Benzaldehyde	U		61	80	µg/Kg-dry	1	12/24/2018 19:57
Benzo(a)anthracene	**23**		**6.9**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Benzo(a)pyrene	**9.6**		**4.9**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Benzo(b)fluoranthene	**30**		**5.9**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Benzo(g,h,i)perylene	U		6.1	8.0	µg/Kg-dry	1	12/24/2018 19:57
Benzo(k)fluoranthene	**29**		**6.0**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Bis(2-chloroethoxy)methane	U		3.8	39	µg/Kg-dry	1	12/24/2018 19:57
Bis(2-chloroethyl)ether	U		11	39	µg/Kg-dry	1	12/24/2018 19:57
Bis(2-ethylhexyl)phthalate	**62**		**6.9**	**39**	**µg/Kg-dry**	1	12/24/2018 19:57
Butyl benzyl phthalate	U		6.7	39	µg/Kg-dry	1	12/24/2018 19:57
Caprolactam	U		14	39	µg/Kg-dry	1	12/24/2018 19:57
Carbazole	U		4.3	39	µg/Kg-dry	1	12/24/2018 19:57
Chrysene	**81**		**6.4**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Dibenzo(a,h)anthracene	**8.8**		**4.3**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Dibenzofuran	U		5.9	39	µg/Kg-dry	1	12/24/2018 19:57
Diethyl phthalate	U		6.1	39	µg/Kg-dry	1	12/24/2018 19:57
Dimethyl phthalate	U		7.8	39	µg/Kg-dry	1	12/24/2018 19:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (12-14)
Collection Date: 12/10/2018 01:55 PM

Work Order: 1812740
Lab ID: 1812740-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.3	39	µg/Kg-dry	1	12/24/2018 19:57
Di-n-octyl phthalate	**55**		**7.7**	**39**	**µg/Kg-dry**	1	12/24/2018 19:57
Fluoranthene	**38**		**3.8**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Fluorene	U		5.8	8.0	µg/Kg-dry	1	12/24/2018 19:57
Hexachlorobenzene	U		12	39	µg/Kg-dry	1	12/24/2018 19:57
Hexachlorobutadiene	U		22	39	µg/Kg-dry	1	12/24/2018 19:57
Hexachlorocyclopentadiene	U		14	39	µg/Kg-dry	1	12/24/2018 19:57
Hexachloroethane	U		17	39	µg/Kg-dry	1	12/24/2018 19:57
Indeno(1,2,3-cd)pyrene	**11**		**5.6**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Isophorone	U		7.8	200	µg/Kg-dry	1	12/24/2018 19:57
Naphthalene	**15**		**5.1**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Nitrobenzene	U		13	200	µg/Kg-dry	1	12/24/2018 19:57
N-Nitrosodi-n-propylamine	U		6.6	39	µg/Kg-dry	1	12/24/2018 19:57
N-Nitrosodiphenylamine	U		3.8	39	µg/Kg-dry	1	12/24/2018 19:57
Pentachlorophenol	**49**		**15**	**39**	**µg/Kg-dry**	1	12/24/2018 19:57
Phenanthrene	**30**		**3.7**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Phenol	U		9.9	39	µg/Kg-dry	1	12/24/2018 19:57
Pyrene	**70**		**1.4**	**8.0**	**µg/Kg-dry**	1	12/24/2018 19:57
Surr: 2,4,6-Tribromophenol	*76.6*			*38-92*	*%REC*	1	12/24/2018 19:57
Surr: 2-Fluorobiphenyl	*76.0*			*44-107*	*%REC*	1	12/24/2018 19:57
Surr: 2-Fluorophenol	*67.5*			*37-109*	*%REC*	1	12/24/2018 19:57
Surr: 4-Terphenyl-d14	*68.1*			*52-123*	*%REC*	1	12/24/2018 19:57
Surr: Nitrobenzene-d5	*66.6*			*41-94*	*%REC*	1	12/24/2018 19:57
Surr: Phenol-d6	*57.4*			*28-111*	*%REC*	1	12/24/2018 19:57
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,800	7,200	µg/Kg-dry	1	12/19/2018 03:58
Surr: Toluene-d8	*88.2*			*70-130*	*%REC*	1	12/19/2018 03:58
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		21	45	µg/Kg-dry	1	12/21/2018 16:45
1,1,2,2-Tetrachloroethane	U		20	45	µg/Kg-dry	1	12/21/2018 16:45
1,1,2-Trichloroethane	U		19	45	µg/Kg-dry	1	12/21/2018 16:45
1,1,2-Trichlorotrifluoroethane	U		29	45	µg/Kg-dry	1	12/21/2018 16:45
1,1-Dichloroethane	U		17	45	µg/Kg-dry	1	12/21/2018 16:45
1,1-Dichloroethene	U		15	45	µg/Kg-dry	1	12/21/2018 16:45
1,2,3-Trichlorobenzene	U		21	45	µg/Kg-dry	1	12/21/2018 16:45
1,2,4-Trichlorobenzene	U		16	45	µg/Kg-dry	1	12/21/2018 16:45
1,2-Dibromo-3-chloropropane	U		42	150	µg/Kg-dry	1	12/21/2018 16:45
1,2-Dibromoethane	U		13	45	µg/Kg-dry	1	12/21/2018 16:45
1,2-Dichlorobenzene	U		17	45	µg/Kg-dry	1	12/21/2018 16:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (12-14)
Collection Date: 12/10/2018 01:55 PM

Work Order: 1812740
Lab ID: 1812740-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		19	45	µg/Kg-dry	1	12/21/2018 16:45
1,2-Dichloropropane	U		7.9	45	µg/Kg-dry	1	12/21/2018 16:45
1,3-Dichlorobenzene	U		15	45	µg/Kg-dry	1	12/21/2018 16:45
1,4-Dichlorobenzene	U		11	45	µg/Kg-dry	1	12/21/2018 16:45
2-Butanone	U		37	300	µg/Kg-dry	1	12/21/2018 16:45
2-Hexanone	U		22	45	µg/Kg-dry	1	12/21/2018 16:45
4-Methyl-2-pentanone	U		22	45	µg/Kg-dry	1	12/21/2018 16:45
Acetone	U		47	150	µg/Kg-dry	1	12/21/2018 16:45
Benzene	U		7.7	45	µg/Kg-dry	1	12/21/2018 16:45
Bromochloromethane	U		23	45	µg/Kg-dry	1	12/21/2018 16:45
Bromodichloromethane	U		25	45	µg/Kg-dry	1	12/21/2018 16:45
Bromoform	U		19	45	µg/Kg-dry	1	12/21/2018 16:45
Bromomethane	U		87	150	µg/Kg-dry	1	12/21/2018 16:45
Carbon disulfide	U		23	45	µg/Kg-dry	1	12/21/2018 16:45
Carbon tetrachloride	U		18	45	µg/Kg-dry	1	12/21/2018 16:45
Chlorobenzene	U		15	45	µg/Kg-dry	1	12/21/2018 16:45
Chloroethane	U		16	150	µg/Kg-dry	1	12/21/2018 16:45
Chloroform	U		17	45	µg/Kg-dry	1	12/21/2018 16:45
Chloromethane	U		38	150	µg/Kg-dry	1	12/21/2018 16:45
cis-1,2-Dichloroethene	**18**	J	**14**	**45**	**µg/Kg-dry**	1	12/21/2018 16:45
cis-1,3-Dichloropropene	U		17	45	µg/Kg-dry	1	12/21/2018 16:45
Cyclohexane	U		15	45	µg/Kg-dry	1	12/21/2018 16:45
Dibromochloromethane	U		25	45	µg/Kg-dry	1	12/21/2018 16:45
Dichlorodifluoromethane	U		9.5	45	µg/Kg-dry	1	12/21/2018 16:45
Ethylbenzene	U		9.5	45	µg/Kg-dry	1	12/21/2018 16:45
Isopropylbenzene	U		14	45	µg/Kg-dry	1	12/21/2018 16:45
m,p-Xylene	U		22	91	µg/Kg-dry	1	12/21/2018 16:45
Methyl acetate	**49**	J	**20**	**300**	**µg/Kg-dry**	1	12/21/2018 16:45
Methyl tert-butyl ether	U		13	45	µg/Kg-dry	1	12/21/2018 16:45
Methylcyclohexane	U		17	45	µg/Kg-dry	1	12/21/2018 16:45
Methylene chloride	U		19	45	µg/Kg-dry	1	12/21/2018 16:45
o-Xylene	U		18	45	µg/Kg-dry	1	12/21/2018 16:45
Styrene	U		18	45	µg/Kg-dry	1	12/21/2018 16:45
Tetrachloroethene	U		13	45	µg/Kg-dry	1	12/21/2018 16:45
Toluene	U		12	45	µg/Kg-dry	1	12/21/2018 16:45
trans-1,2-Dichloroethene	U		17	45	µg/Kg-dry	1	12/21/2018 16:45
trans-1,3-Dichloropropene	U		25	45	µg/Kg-dry	1	12/21/2018 16:45
Trichloroethene	U		20	45	µg/Kg-dry	1	12/21/2018 16:45
Trichlorofluoromethane	U		23	45	µg/Kg-dry	1	12/21/2018 16:45
Vinyl chloride	U		9.7	45	µg/Kg-dry	1	12/21/2018 16:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-2 (12-14)
Collection Date: 12/10/2018 01:55 PM

Work Order: 1812740
Lab ID: 1812740-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*96.4*			*70-130*	*%REC*	1	12/21/2018 16:45
Surr: 4-Bromofluorobenzene	*95.1*			*70-130*	*%REC*	1	12/21/2018 16:45
Surr: Dibromofluoromethane	*98.8*			*70-130*	*%REC*	1	12/21/2018 16:45
Surr: Toluene-d8	*101*			*70-130*	*%REC*	1	12/21/2018 16:45
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**18**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (0-2)
Collection Date: 12/10/2018 02:10 PM

Work Order: 1812740
Lab ID: 1812740-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		27	80	µg/Kg-dry	1	12/21/2018 15:59
Aroclor 1221	U		27	80	µg/Kg-dry	1	12/21/2018 15:59
Aroclor 1232	U		27	80	µg/Kg-dry	1	12/21/2018 15:59
Aroclor 1242	U		27	80	µg/Kg-dry	1	12/21/2018 15:59
Aroclor 1248	U		27	80	µg/Kg-dry	1	12/21/2018 15:59
Aroclor 1254	U		22	80	µg/Kg-dry	1	12/21/2018 15:59
Aroclor 1260	U		22	80	µg/Kg-dry	1	12/21/2018 15:59
Aroclor 1262	U		22	80	µg/Kg-dry	1	12/21/2018 15:59
Aroclor 1268	U		22	80	µg/Kg-dry	1	12/21/2018 15:59
Surr: Decachlorobiphenyl	*88.8*			*40-140*	*%REC*	1	12/21/2018 15:59
Surr: Tetrachloro-m-xylene	*80.0*			*45-124*	*%REC*	1	12/21/2018 15:59
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/20/18		Analyst: **RSH**
Mercury	**0.034**		**0.0023**	**0.023**	**mg/Kg-dry**	1	12/21/2018 19:28
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/17/18		Analyst: **ABL**
Arsenic	**5.5**		**0.11**	**0.41**	**mg/Kg-dry**	1	12/19/2018 04:22
Barium	**130**		**0.17**	**0.41**	**mg/Kg-dry**	1	12/19/2018 04:22
Cadmium	U		0.040	0.83	mg/Kg-dry	1	12/19/2018 04:22
Chromium	**13**		**0.023**	**0.41**	**mg/Kg-dry**	1	12/19/2018 04:22
Lead	**14**		**0.088**	**0.41**	**mg/Kg-dry**	1	12/19/2018 04:22
Selenium	**0.62**	J	**0.23**	**0.83**	**mg/Kg-dry**	1	12/19/2018 04:22
Silver	U		0.051	0.41	mg/Kg-dry	1	12/19/2018 04:22
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.9	6.2	mg/Kg-dry	1	12/22/2018 05:22
ORO (C21-C35)	U		2.1	6.2	mg/Kg-dry	1	12/22/2018 05:22
Surr: 4-Terphenyl-d14	*54.6*			*25-137*	*%REC*	1	12/22/2018 05:22
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.5	39	µg/Kg-dry	1	12/24/2018 20:58
1,2,4,5-Tetrachlorobenzene	U		31	400	µg/Kg-dry	1	12/24/2018 20:58
1,4-Dioxane	U		29	200	µg/Kg-dry	1	12/24/2018 20:58
2,2`-Oxybis(1-chloropropane)	U		9.3	39	µg/Kg-dry	1	12/24/2018 20:58
2,3,4,6-Tetrachlorophenol	U		10	80	µg/Kg-dry	1	12/24/2018 20:58
2,4,5-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/24/2018 20:58
2,4,6-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/24/2018 20:58
2,4-Dichlorophenol	U		8.4	39	µg/Kg-dry	1	12/24/2018 20:58
2,4-Dimethylphenol	U		8.1	39	µg/Kg-dry	1	12/24/2018 20:58
2,4-Dinitrophenol	U		22	39	µg/Kg-dry	1	12/24/2018 20:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (0-2)
Collection Date: 12/10/2018 02:10 PM

Work Order: 1812740
Lab ID: 1812740-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	39	µg/Kg-dry	1	12/24/2018 20:58
2,6-Dinitrotoluene	U		6.6	39	µg/Kg-dry	1	12/24/2018 20:58
2-Chloronaphthalene	U		5.6	8.0	µg/Kg-dry	1	12/24/2018 20:58
2-Chlorophenol	U		13	39	µg/Kg-dry	1	12/24/2018 20:58
2-Methylnaphthalene	U		4.1	8.0	µg/Kg-dry	1	12/24/2018 20:58
2-Methylphenol	U		11	39	µg/Kg-dry	1	12/24/2018 20:58
2-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/24/2018 20:58
2-Nitrophenol	U		11	39	µg/Kg-dry	1	12/24/2018 20:58
3&4-Methylphenol	U		8.0	39	µg/Kg-dry	1	12/24/2018 20:58
3,3´-Dichlorobenzidine	U		5.9	200	µg/Kg-dry	1	12/24/2018 20:58
3-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/24/2018 20:58
4,6-Dinitro-2-methylphenol	U		10	39	µg/Kg-dry	1	12/24/2018 20:58
4-Bromophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/24/2018 20:58
4-Chloro-3-methylphenol	U		11	39	µg/Kg-dry	1	12/24/2018 20:58
4-Chloroaniline	U		6.3	80	µg/Kg-dry	1	12/24/2018 20:58
4-Chlorophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/24/2018 20:58
4-Nitroaniline	U		62	200	µg/Kg-dry	1	12/24/2018 20:58
4-Nitrophenol	U		36	39	µg/Kg-dry	1	12/24/2018 20:58
Acenaphthene	U		5.8	8.0	µg/Kg-dry	1	12/24/2018 20:58
Acenaphthylene	U		6.9	8.0	µg/Kg-dry	1	12/24/2018 20:58
Acetophenone	U		6.2	39	µg/Kg-dry	1	12/24/2018 20:58
Anthracene	U		5.6	8.0	µg/Kg-dry	1	12/24/2018 20:58
Atrazine	U		6.3	39	µg/Kg-dry	1	12/24/2018 20:58
Benzaldehyde	U		61	80	µg/Kg-dry	1	12/24/2018 20:58
Benzo(a)anthracene	U		6.9	8.0	µg/Kg-dry	1	12/24/2018 20:58
Benzo(a)pyrene	U		4.9	8.0	µg/Kg-dry	1	12/24/2018 20:58
Benzo(b)fluoranthene	U		5.9	8.0	µg/Kg-dry	1	12/24/2018 20:58
Benzo(g,h,i)perylene	U		6.1	8.0	µg/Kg-dry	1	12/24/2018 20:58
Benzo(k)fluoranthene	U		6.0	8.0	µg/Kg-dry	1	12/24/2018 20:58
Bis(2-chloroethoxy)methane	U		3.8	39	µg/Kg-dry	1	12/24/2018 20:58
Bis(2-chloroethyl)ether	U		11	39	µg/Kg-dry	1	12/24/2018 20:58
Bis(2-ethylhexyl)phthalate	U		6.9	39	µg/Kg-dry	1	12/24/2018 20:58
Butyl benzyl phthalate	U		6.7	39	µg/Kg-dry	1	12/24/2018 20:58
Caprolactam	U		14	39	µg/Kg-dry	1	12/24/2018 20:58
Carbazole	U		4.3	39	µg/Kg-dry	1	12/24/2018 20:58
Chrysene	U		6.4	8.0	µg/Kg-dry	1	12/24/2018 20:58
Dibenzo(a,h)anthracene	U		4.3	8.0	µg/Kg-dry	1	12/24/2018 20:58
Dibenzofuran	U		5.9	39	µg/Kg-dry	1	12/24/2018 20:58
Diethyl phthalate	U		6.1	39	µg/Kg-dry	1	12/24/2018 20:58
Dimethyl phthalate	U		7.8	39	µg/Kg-dry	1	12/24/2018 20:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (0-2)
Collection Date: 12/10/2018 02:10 PM

Work Order: 1812740
Lab ID: 1812740-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.3	39	µg/Kg-dry	1	12/24/2018 20:58
Di-n-octyl phthalate	U		7.6	39	µg/Kg-dry	1	12/24/2018 20:58
Fluoranthene	U		3.8	8.0	µg/Kg-dry	1	12/24/2018 20:58
Fluorene	U		5.8	8.0	µg/Kg-dry	1	12/24/2018 20:58
Hexachlorobenzene	U		12	39	µg/Kg-dry	1	12/24/2018 20:58
Hexachlorobutadiene	U		22	39	µg/Kg-dry	1	12/24/2018 20:58
Hexachlorocyclopentadiene	U		14	39	µg/Kg-dry	1	12/24/2018 20:58
Hexachloroethane	U		16	39	µg/Kg-dry	1	12/24/2018 20:58
Indeno(1,2,3-cd)pyrene	U		5.5	8.0	µg/Kg-dry	1	12/24/2018 20:58
Isophorone	U		7.8	200	µg/Kg-dry	1	12/24/2018 20:58
Naphthalene	U		5.1	8.0	µg/Kg-dry	1	12/24/2018 20:58
Nitrobenzene	U		13	200	µg/Kg-dry	1	12/24/2018 20:58
N-Nitrosodi-n-propylamine	U		6.6	39	µg/Kg-dry	1	12/24/2018 20:58
N-Nitrosodiphenylamine	U		3.8	39	µg/Kg-dry	1	12/24/2018 20:58
Pentachlorophenol	U		15	39	µg/Kg-dry	1	12/24/2018 20:58
Phenanthrene	U		3.7	8.0	µg/Kg-dry	1	12/24/2018 20:58
Phenol	U		9.9	39	µg/Kg-dry	1	12/24/2018 20:58
Pyrene	U		1.4	8.0	µg/Kg-dry	1	12/24/2018 20:58
Surr: 2,4,6-Tribromophenol	*69.5*			*38-92*	*%REC*	1	12/24/2018 20:58
Surr: 2-Fluorobiphenyl	*74.4*			*44-107*	*%REC*	1	12/24/2018 20:58
Surr: 2-Fluorophenol	*64.7*			*37-109*	*%REC*	1	12/24/2018 20:58
Surr: 4-Terphenyl-d14	*72.2*			*52-123*	*%REC*	1	12/24/2018 20:58
Surr: Nitrobenzene-d5	*70.5*			*41-94*	*%REC*	1	12/24/2018 20:58
Surr: Phenol-d6	*57.7*			*28-111*	*%REC*	1	12/24/2018 20:58
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,900	7,500	µg/Kg-dry	1	12/19/2018 04:13
Surr: Toluene-d8	*86.8*			*70-130*	*%REC*	1	12/19/2018 04:13
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
Acetone	U		47	150	µg/Kg-dry	1	12/21/2018 17:00
Surr: 1,2-Dichloroethane-d4	*101*			*70-130*	*%REC*	1	12/21/2018 17:00
Surr: 4-Bromofluorobenzene	*93.3*			*70-130*	*%REC*	1	12/21/2018 17:00
Surr: Dibromofluoromethane	*104*			*70-130*	*%REC*	1	12/21/2018 17:00
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	12/21/2018 17:00
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **BG**
1,1,1-Trichloroethane	U		0.77	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,1,2,2-Tetrachloroethane	U		0.26	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,1,2-Trichloroethane	U		0.38	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,1,2-Trichlorotrifluoroethane	U		1.1	4.9	µg/Kg-dry	0.779	12/21/2018 17:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (0-2)
Collection Date: 12/10/2018 02:10 PM

Work Order: 1812740
Lab ID: 1812740-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethane	U		2.0	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,1-Dichloroethene	U		0.95	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,2,3-Trichlorobenzene	U		0.60	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,2,4-Trichlorobenzene	U		0.71	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,2-Dibromo-3-chloropropane	U		1.3	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,2-Dibromoethane	U		0.35	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,2-Dichlorobenzene	U		0.61	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,2-Dichloroethane	U		0.35	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,2-Dichloropropane	U		0.43	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,3-Dichlorobenzene	U		0.51	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
1,4-Dichlorobenzene	U		0.35	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
2-Butanone	**14**		**1.8**	**9.7**	**µg/Kg-dry**	0.779	12/21/2018 17:05
2-Hexanone	U		0.95	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
4-Methyl-2-pentanone	U		0.79	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Benzene	U		0.51	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Bromochloromethane	U		0.48	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Bromodichloromethane	U		0.31	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Bromoform	U		0.30	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Bromomethane	U		0.70	9.7	µg/Kg-dry	0.779	12/21/2018 17:05
Carbon disulfide	U		0.54	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Carbon tetrachloride	U		0.81	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Chlorobenzene	U		0.31	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Chloroethane	U		0.61	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Chloroform	U		0.29	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Chloromethane	U		0.45	9.7	µg/Kg-dry	0.779	12/21/2018 17:05
cis-1,2-Dichloroethene	U		0.47	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
cis-1,3-Dichloropropene	U		0.25	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Cyclohexane	U		3.0	9.7	µg/Kg-dry	0.779	12/21/2018 17:05
Dibromochloromethane	U		0.46	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Dichlorodifluoromethane	U		1.0	9.7	µg/Kg-dry	0.779	12/21/2018 17:05
Ethylbenzene	U		0.58	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Isopropylbenzene	U		0.62	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
m,p-Xylene	U		1.2	2.4	µg/Kg-dry	0.779	12/21/2018 17:05
Methyl acetate	U		1.2	9.7	µg/Kg-dry	0.779	12/21/2018 17:05
Methyl tert-butyl ether	U		0.22	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Methylcyclohexane	U		1.4	9.7	µg/Kg-dry	0.779	12/21/2018 17:05
Methylene chloride	U		0.84	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
o-Xylene	U		0.46	2.4	µg/Kg-dry	0.779	12/21/2018 17:05
Styrene	U		0.39	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Tetrachloroethene	U		0.86	4.9	µg/Kg-dry	0.779	12/21/2018 17:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (0-2)
Collection Date: 12/10/2018 02:10 PM

Work Order: 1812740
Lab ID: 1812740-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.54	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
trans-1,2-Dichloroethene	U		0.39	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
trans-1,3-Dichloropropene	U		0.28	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Trichloroethene	U		0.70	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Trichlorofluoromethane	U		0.69	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Vinyl chloride	U		0.68	4.9	µg/Kg-dry	0.779	12/21/2018 17:05
Surr: 1,2-Dichloroethane-d4	*128*			*83-132*	*%REC*	0.779	12/21/2018 17:05
Surr: 4-Bromofluorobenzene	*89.9*			*83-111*	*%REC*	0.779	12/21/2018 17:05
Surr: Dibromofluoromethane	*60.9*	S		*77-125*	*%REC*	0.779	12/21/2018 17:05
Surr: Toluene-d8	*92.7*			*86-108*	*%REC*	0.779	12/21/2018 17:05
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**20**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (12-14)
Collection Date: 12/10/2018 02:30 PM

Work Order: 1812740
Lab ID: 1812740-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	81	µg/Kg-dry	1	12/21/2018 16:14
Aroclor 1221	U		28	81	µg/Kg-dry	1	12/21/2018 16:14
Aroclor 1232	U		28	81	µg/Kg-dry	1	12/21/2018 16:14
Aroclor 1242	U		28	81	µg/Kg-dry	1	12/21/2018 16:14
Aroclor 1248	U		28	81	µg/Kg-dry	1	12/21/2018 16:14
Aroclor 1254	U		23	81	µg/Kg-dry	1	12/21/2018 16:14
Aroclor 1260	U		23	81	µg/Kg-dry	1	12/21/2018 16:14
Aroclor 1262	U		23	81	µg/Kg-dry	1	12/21/2018 16:14
Aroclor 1268	U		23	81	µg/Kg-dry	1	12/21/2018 16:14
Surr: Decachlorobiphenyl	*72.4*			*40-140*	*%REC*	1	12/21/2018 16:14
Surr: Tetrachloro-m-xylene	*74.9*			*45-124*	*%REC*	1	12/21/2018 16:14
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/21/18		Analyst: **RSH**
Mercury	**0.091**		**0.0024**	**0.024**	**mg/Kg-dry**	1	12/21/2018 21:34
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/17/18		Analyst: **ABL**
Arsenic	**14**		**0.13**	**0.51**	**mg/Kg-dry**	1	12/19/2018 04:28
Barium	**140**		**0.20**	**0.51**	**mg/Kg-dry**	1	12/19/2018 04:28
Cadmium	**1.3**		**0.049**	**1.0**	**mg/Kg-dry**	1	12/19/2018 04:28
Chromium	**25**		**0.028**	**0.51**	**mg/Kg-dry**	1	12/19/2018 04:28
Lead	**19**		**0.11**	**0.51**	**mg/Kg-dry**	1	12/19/2018 04:28
Selenium	**1.9**		**0.28**	**1.0**	**mg/Kg-dry**	1	12/19/2018 04:28
Silver	U		0.063	0.51	mg/Kg-dry	1	12/19/2018 04:28
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	**19**		**1.9**	**6.4**	**mg/Kg-dry**	1	12/22/2018 05:50
ORO (C21-C35)	**28**		**2.1**	**6.4**	**mg/Kg-dry**	1	12/22/2018 05:50
Surr: 4-Terphenyl-d14	*91.4*			*25-137*	*%REC*	1	12/22/2018 05:50
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.5	40	µg/Kg-dry	1	12/24/2018 21:18
1,2,4,5-Tetrachlorobenzene	U		31	400	µg/Kg-dry	1	12/24/2018 21:18
1,4-Dioxane	U		29	200	µg/Kg-dry	1	12/24/2018 21:18
2,2`-Oxybis(1-chloropropane)	U		9.4	40	µg/Kg-dry	1	12/24/2018 21:18
2,3,4,6-Tetrachlorophenol	U		10	81	µg/Kg-dry	1	12/24/2018 21:18
2,4,5-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 21:18
2,4,6-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 21:18
2,4-Dichlorophenol	U		8.4	40	µg/Kg-dry	1	12/24/2018 21:18
2,4-Dimethylphenol	U		8.2	40	µg/Kg-dry	1	12/24/2018 21:18
2,4-Dinitrophenol	U		22	40	µg/Kg-dry	1	12/24/2018 21:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (12-14)
Collection Date: 12/10/2018 02:30 PM

Work Order: 1812740
Lab ID: 1812740-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	40	µg/Kg-dry	1	12/24/2018 21:18
2,6-Dinitrotoluene	U		6.6	40	µg/Kg-dry	1	12/24/2018 21:18
2-Chloronaphthalene	U		5.6	8.0	µg/Kg-dry	1	12/24/2018 21:18
2-Chlorophenol	U		13	40	µg/Kg-dry	1	12/24/2018 21:18
2-Methylnaphthalene	U		4.1	8.0	µg/Kg-dry	1	12/24/2018 21:18
2-Methylphenol	U		11	40	µg/Kg-dry	1	12/24/2018 21:18
2-Nitroaniline	U		9.2	40	µg/Kg-dry	1	12/24/2018 21:18
2-Nitrophenol	U		11	40	µg/Kg-dry	1	12/24/2018 21:18
3&4-Methylphenol	U		8.1	40	µg/Kg-dry	1	12/24/2018 21:18
3,3´-Dichlorobenzidine	U		6.0	200	µg/Kg-dry	1	12/24/2018 21:18
3-Nitroaniline	U		9.2	40	µg/Kg-dry	1	12/24/2018 21:18
4,6-Dinitro-2-methylphenol	U		10	40	µg/Kg-dry	1	12/24/2018 21:18
4-Bromophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 21:18
4-Chloro-3-methylphenol	U		11	40	µg/Kg-dry	1	12/24/2018 21:18
4-Chloroaniline	U		6.3	81	µg/Kg-dry	1	12/24/2018 21:18
4-Chlorophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 21:18
4-Nitroaniline	U		62	200	µg/Kg-dry	1	12/24/2018 21:18
4-Nitrophenol	U		36	40	µg/Kg-dry	1	12/24/2018 21:18
Acenaphthene	U		5.8	8.0	µg/Kg-dry	1	12/24/2018 21:18
Acenaphthylene	U		7.0	8.0	µg/Kg-dry	1	12/24/2018 21:18
Acetophenone	U		6.3	40	µg/Kg-dry	1	12/24/2018 21:18
Anthracene	U		5.7	8.0	µg/Kg-dry	1	12/24/2018 21:18
Atrazine	U		6.3	40	µg/Kg-dry	1	12/24/2018 21:18
Benzaldehyde	U		62	81	µg/Kg-dry	1	12/24/2018 21:18
Benzo(a)anthracene	U		6.9	8.0	µg/Kg-dry	1	12/24/2018 21:18
Benzo(a)pyrene	U		4.9	8.0	µg/Kg-dry	1	12/24/2018 21:18
Benzo(b)fluoranthene	U		6.0	8.0	µg/Kg-dry	1	12/24/2018 21:18
Benzo(g,h,i)perylene	U		6.1	8.0	µg/Kg-dry	1	12/24/2018 21:18
Benzo(k)fluoranthene	U		6.1	8.0	µg/Kg-dry	1	12/24/2018 21:18
Bis(2-chloroethoxy)methane	U		3.9	40	µg/Kg-dry	1	12/24/2018 21:18
Bis(2-chloroethyl)ether	U		11	40	µg/Kg-dry	1	12/24/2018 21:18
Bis(2-ethylhexyl)phthalate	**64**		**7.0**	**40**	**µg/Kg-dry**	1	12/24/2018 21:18
Butyl benzyl phthalate	U		6.8	40	µg/Kg-dry	1	12/24/2018 21:18
Caprolactam	U		14	40	µg/Kg-dry	1	12/24/2018 21:18
Carbazole	U		4.3	40	µg/Kg-dry	1	12/24/2018 21:18
Chrysene	**18**		**6.5**	**8.0**	**µg/Kg-dry**	1	12/24/2018 21:18
Dibenzo(a,h)anthracene	U		4.3	8.0	µg/Kg-dry	1	12/24/2018 21:18
Dibenzofuran	U		5.9	40	µg/Kg-dry	1	12/24/2018 21:18
Diethyl phthalate	U		6.1	40	µg/Kg-dry	1	12/24/2018 21:18
Dimethyl phthalate	U		7.8	40	µg/Kg-dry	1	12/24/2018 21:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (12-14)
Collection Date: 12/10/2018 02:30 PM

Work Order: 1812740
Lab ID: 1812740-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.3	40	µg/Kg-dry	1	12/24/2018 21:18
Di-n-octyl phthalate	U		7.7	40	µg/Kg-dry	1	12/24/2018 21:18
Fluoranthene	U		3.9	8.0	µg/Kg-dry	1	12/24/2018 21:18
Fluorene	U		5.8	8.0	µg/Kg-dry	1	12/24/2018 21:18
Hexachlorobenzene	U		12	40	µg/Kg-dry	1	12/24/2018 21:18
Hexachlorobutadiene	U		22	40	µg/Kg-dry	1	12/24/2018 21:18
Hexachlorocyclopentadiene	U		14	40	µg/Kg-dry	1	12/24/2018 21:18
Hexachloroethane	U		17	40	µg/Kg-dry	1	12/24/2018 21:18
Indeno(1,2,3-cd)pyrene	U		5.6	8.0	µg/Kg-dry	1	12/24/2018 21:18
Isophorone	U		7.8	200	µg/Kg-dry	1	12/24/2018 21:18
Naphthalene	U		5.1	8.0	µg/Kg-dry	1	12/24/2018 21:18
Nitrobenzene	U		13	200	µg/Kg-dry	1	12/24/2018 21:18
N-Nitrosodi-n-propylamine	U		6.6	40	µg/Kg-dry	1	12/24/2018 21:18
N-Nitrosodiphenylamine	U		3.9	40	µg/Kg-dry	1	12/24/2018 21:18
Pentachlorophenol	U		15	40	µg/Kg-dry	1	12/24/2018 21:18
Phenanthrene	U		3.7	8.0	µg/Kg-dry	1	12/24/2018 21:18
Phenol	U		10	40	µg/Kg-dry	1	12/24/2018 21:18
Pyrene	**22**		**1.5**	**8.0**	**µg/Kg-dry**	1	12/24/2018 21:18
Surr: 2,4,6-Tribromophenol	*63.5*			*38-92*	*%REC*	1	12/24/2018 21:18
Surr: 2-Fluorobiphenyl	*67.7*			*44-107*	*%REC*	1	12/24/2018 21:18
Surr: 2-Fluorophenol	*58.2*			*37-109*	*%REC*	1	12/24/2018 21:18
Surr: 4-Terphenyl-d14	*61.6*			*52-123*	*%REC*	1	12/24/2018 21:18
Surr: Nitrobenzene-d5	*61.7*			*41-94*	*%REC*	1	12/24/2018 21:18
Surr: Phenol-d6	*51.3*			*28-111*	*%REC*	1	12/24/2018 21:18
GASOLINE RANGE ORGANICS BY GC-MS			Method: **SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	**6,400**	J	**1,900**	**7,700**	**µg/Kg-dry**	1	12/19/2018 04:28
Surr: Toluene-d8	*87.4*			*70-130*	*%REC*	1	12/19/2018 04:28
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		21	46	µg/Kg-dry	1	12/21/2018 17:16
1,1,2,2-Tetrachloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:16
1,1,2-Trichloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:16
1,1,2-Trichlorotrifluoroethane	U		29	46	µg/Kg-dry	1	12/21/2018 17:16
1,1-Dichloroethane	U		17	46	µg/Kg-dry	1	12/21/2018 17:16
1,1-Dichloroethene	U		15	46	µg/Kg-dry	1	12/21/2018 17:16
1,2,3-Trichlorobenzene	U		22	46	µg/Kg-dry	1	12/21/2018 17:16
1,2,4-Trichlorobenzene	U		16	46	µg/Kg-dry	1	12/21/2018 17:16
1,2-Dibromo-3-chloropropane	U		42	150	µg/Kg-dry	1	12/21/2018 17:16
1,2-Dibromoethane	U		13	46	µg/Kg-dry	1	12/21/2018 17:16
1,2-Dichlorobenzene	U		17	46	µg/Kg-dry	1	12/21/2018 17:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (12-14)
Collection Date: 12/10/2018 02:30 PM

Work Order: 1812740
Lab ID: 1812740-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:16
1,2-Dichloropropane	U		8.0	46	µg/Kg-dry	1	12/21/2018 17:16
1,3-Dichlorobenzene	U		15	46	µg/Kg-dry	1	12/21/2018 17:16
1,4-Dichlorobenzene	U		11	46	µg/Kg-dry	1	12/21/2018 17:16
2-Butanone	U		38	310	µg/Kg-dry	1	12/21/2018 17:16
2-Hexanone	U		23	46	µg/Kg-dry	1	12/21/2018 17:16
4-Methyl-2-pentanone	U		22	46	µg/Kg-dry	1	12/21/2018 17:16
Acetone	U		48	150	µg/Kg-dry	1	12/21/2018 17:16
Benzene	U		7.9	46	µg/Kg-dry	1	12/21/2018 17:16
Bromochloromethane	U		23	46	µg/Kg-dry	1	12/21/2018 17:16
Bromodichloromethane	U		26	46	µg/Kg-dry	1	12/21/2018 17:16
Bromoform	U		19	46	µg/Kg-dry	1	12/21/2018 17:16
Bromomethane	U		88	150	µg/Kg-dry	1	12/21/2018 17:16
Carbon disulfide	U		24	46	µg/Kg-dry	1	12/21/2018 17:16
Carbon tetrachloride	U		18	46	µg/Kg-dry	1	12/21/2018 17:16
Chlorobenzene	U		15	46	µg/Kg-dry	1	12/21/2018 17:16
Chloroethane	U		16	150	µg/Kg-dry	1	12/21/2018 17:16
Chloroform	U		17	46	µg/Kg-dry	1	12/21/2018 17:16
Chloromethane	U		38	150	µg/Kg-dry	1	12/21/2018 17:16
cis-1,2-Dichloroethene	**230**		**14**	**46**	**µg/Kg-dry**	1	12/21/2018 17:16
cis-1,3-Dichloropropene	U		17	46	µg/Kg-dry	1	12/21/2018 17:16
Cyclohexane	U		15	46	µg/Kg-dry	1	12/21/2018 17:16
Dibromochloromethane	U		26	46	µg/Kg-dry	1	12/21/2018 17:16
Dichlorodifluoromethane	U		9.6	46	µg/Kg-dry	1	12/21/2018 17:16
Ethylbenzene	U		9.7	46	µg/Kg-dry	1	12/21/2018 17:16
Isopropylbenzene	U		14	46	µg/Kg-dry	1	12/21/2018 17:16
m,p-Xylene	U		22	92	µg/Kg-dry	1	12/21/2018 17:16
Methyl acetate	**53**	J	**21**	**310**	**µg/Kg-dry**	1	12/21/2018 17:16
Methyl tert-butyl ether	U		13	46	µg/Kg-dry	1	12/21/2018 17:16
Methylcyclohexane	U		18	46	µg/Kg-dry	1	12/21/2018 17:16
Methylene chloride	U		20	46	µg/Kg-dry	1	12/21/2018 17:16
o-Xylene	U		18	46	µg/Kg-dry	1	12/21/2018 17:16
Styrene	U		18	46	µg/Kg-dry	1	12/21/2018 17:16
Tetrachloroethene	U		13	46	µg/Kg-dry	1	12/21/2018 17:16
Toluene	U		13	46	µg/Kg-dry	1	12/21/2018 17:16
trans-1,2-Dichloroethene	U		17	46	µg/Kg-dry	1	12/21/2018 17:16
trans-1,3-Dichloropropene	U		26	46	µg/Kg-dry	1	12/21/2018 17:16
Trichloroethene	**2,900**		**21**	**46**	**µg/Kg-dry**	1	12/21/2018 17:16
Trichlorofluoromethane	U		23	46	µg/Kg-dry	1	12/21/2018 17:16
Vinyl chloride	U		9.9	46	µg/Kg-dry	1	12/21/2018 17:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-3 (12-14)
Collection Date: 12/10/2018 02:30 PM

Work Order: 1812740
Lab ID: 1812740-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	12/21/2018 17:16
Surr: 4-Bromofluorobenzene	*93.6*			*70-130*	*%REC*	1	12/21/2018 17:16
Surr: Dibromofluoromethane	*98.3*			*70-130*	*%REC*	1	12/21/2018 17:16
Surr: Toluene-d8	*97.6*			*70-130*	*%REC*	1	12/21/2018 17:16
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**21**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-4 (2-4)
Collection Date: 12/10/2018 02:45 PM

Work Order: 1812740
Lab ID: 1812740-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		29	85	µg/Kg-dry	1	12/21/2018 16:42
Aroclor 1221	U		29	85	µg/Kg-dry	1	12/21/2018 16:42
Aroclor 1232	U		29	85	µg/Kg-dry	1	12/21/2018 16:42
Aroclor 1242	U		29	85	µg/Kg-dry	1	12/21/2018 16:42
Aroclor 1248	U		29	85	µg/Kg-dry	1	12/21/2018 16:42
Aroclor 1254	U		24	85	µg/Kg-dry	1	12/21/2018 16:42
Aroclor 1260	U		24	85	µg/Kg-dry	1	12/21/2018 16:42
Aroclor 1262	U		24	85	µg/Kg-dry	1	12/21/2018 16:42
Aroclor 1268	U		24	85	µg/Kg-dry	1	12/21/2018 16:42
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	12/21/2018 16:42
Surr: Tetrachloro-m-xylene	*79.0*			*45-124*	*%REC*	1	12/21/2018 16:42
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/21/18		Analyst: **RSH**
Mercury	**0.064**		**0.0024**	**0.024**	**mg/Kg-dry**	1	12/21/2018 21:36
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/17/18		Analyst: **ABL**
Arsenic	**14**		**0.13**	**0.49**	**mg/Kg-dry**	1	12/19/2018 04:34
Barium	**360**		**0.20**	**0.49**	**mg/Kg-dry**	1	12/19/2018 04:34
Cadmium	**9.6**		**0.047**	**0.99**	**mg/Kg-dry**	1	12/19/2018 04:34
Chromium	**17**		**0.028**	**0.49**	**mg/Kg-dry**	1	12/19/2018 04:34
Lead	**21**		**0.10**	**0.49**	**mg/Kg-dry**	1	12/19/2018 04:34
Selenium	**0.70**	J	**0.28**	**0.99**	**mg/Kg-dry**	1	12/19/2018 04:34
Silver	U		0.061	0.49	mg/Kg-dry	1	12/19/2018 04:34
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.9	6.4	mg/Kg-dry	1	12/22/2018 06:17
ORO (C21-C35)	U		2.1	6.4	mg/Kg-dry	1	12/22/2018 06:17
Surr: 4-Terphenyl-d14	*58.9*			*25-137*	*%REC*	1	12/22/2018 06:17
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.9	42	µg/Kg-dry	1	12/24/2018 21:38
1,2,4,5-Tetrachlorobenzene	U		33	420	µg/Kg-dry	1	12/24/2018 21:38
1,4-Dioxane	U		30	210	µg/Kg-dry	1	12/24/2018 21:38
2,2`-Oxybis(1-chloropropane)	U		9.9	42	µg/Kg-dry	1	12/24/2018 21:38
2,3,4,6-Tetrachlorophenol	U		11	85	µg/Kg-dry	1	12/24/2018 21:38
2,4,5-Trichlorophenol	U		12	42	µg/Kg-dry	1	12/24/2018 21:38
2,4,6-Trichlorophenol	U		11	42	µg/Kg-dry	1	12/24/2018 21:38
2,4-Dichlorophenol	U		8.9	42	µg/Kg-dry	1	12/24/2018 21:38
2,4-Dimethylphenol	U		8.7	42	µg/Kg-dry	1	12/24/2018 21:38
2,4-Dinitrophenol	U		23	42	µg/Kg-dry	1	12/24/2018 21:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-4 (2-4)
Collection Date: 12/10/2018 02:45 PM

Work Order: 1812740
Lab ID: 1812740-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		11	42	µg/Kg-dry	1	12/24/2018 21:38
2,6-Dinitrotoluene	U		7.0	42	µg/Kg-dry	1	12/24/2018 21:38
2-Chloronaphthalene	U		5.9	8.5	µg/Kg-dry	1	12/24/2018 21:38
2-Chlorophenol	U		13	42	µg/Kg-dry	1	12/24/2018 21:38
2-Methylnaphthalene	U		4.3	8.5	µg/Kg-dry	1	12/24/2018 21:38
2-Methylphenol	U		11	42	µg/Kg-dry	1	12/24/2018 21:38
2-Nitroaniline	U		9.7	42	µg/Kg-dry	1	12/24/2018 21:38
2-Nitrophenol	U		12	42	µg/Kg-dry	1	12/24/2018 21:38
3&4-Methylphenol	U		8.5	42	µg/Kg-dry	1	12/24/2018 21:38
3,3´-Dichlorobenzidine	U		6.3	210	µg/Kg-dry	1	12/24/2018 21:38
3-Nitroaniline	U		9.7	42	µg/Kg-dry	1	12/24/2018 21:38
4,6-Dinitro-2-methylphenol	U		11	42	µg/Kg-dry	1	12/24/2018 21:38
4-Bromophenyl phenyl ether	U		11	42	µg/Kg-dry	1	12/24/2018 21:38
4-Chloro-3-methylphenol	U		12	42	µg/Kg-dry	1	12/24/2018 21:38
4-Chloroaniline	U		6.7	85	µg/Kg-dry	1	12/24/2018 21:38
4-Chlorophenyl phenyl ether	U		12	42	µg/Kg-dry	1	12/24/2018 21:38
4-Nitroaniline	U		66	210	µg/Kg-dry	1	12/24/2018 21:38
4-Nitrophenol	U		38	42	µg/Kg-dry	1	12/24/2018 21:38
Acenaphthene	U		6.1	8.5	µg/Kg-dry	1	12/24/2018 21:38
Acenaphthylene	U		7.4	8.5	µg/Kg-dry	1	12/24/2018 21:38
Acetophenone	U		6.6	42	µg/Kg-dry	1	12/24/2018 21:38
Anthracene	U		6.0	8.5	µg/Kg-dry	1	12/24/2018 21:38
Atrazine	U		6.7	42	µg/Kg-dry	1	12/24/2018 21:38
Benzaldehyde	U		65	85	µg/Kg-dry	1	12/24/2018 21:38
Benzo(a)anthracene	U		7.3	8.5	µg/Kg-dry	1	12/24/2018 21:38
Benzo(a)pyrene	U		5.2	8.5	µg/Kg-dry	1	12/24/2018 21:38
Benzo(b)fluoranthene	U		6.3	8.5	µg/Kg-dry	1	12/24/2018 21:38
Benzo(g,h,i)perylene	U		6.5	8.5	µg/Kg-dry	1	12/24/2018 21:38
Benzo(k)fluoranthene	U		6.4	8.5	µg/Kg-dry	1	12/24/2018 21:38
Bis(2-chloroethoxy)methane	U		4.1	42	µg/Kg-dry	1	12/24/2018 21:38
Bis(2-chloroethyl)ether	U		12	42	µg/Kg-dry	1	12/24/2018 21:38
Bis(2-ethylhexyl)phthalate	**68**		**7.4**	**42**	**µg/Kg-dry**	1	12/24/2018 21:38
Butyl benzyl phthalate	U		7.2	42	µg/Kg-dry	1	12/24/2018 21:38
Caprolactam	U		15	42	µg/Kg-dry	1	12/24/2018 21:38
Carbazole	U		4.6	42	µg/Kg-dry	1	12/24/2018 21:38
Chrysene	U		6.9	8.5	µg/Kg-dry	1	12/24/2018 21:38
Dibenzo(a,h)anthracene	U		4.6	8.5	µg/Kg-dry	1	12/24/2018 21:38
Dibenzofuran	U		6.2	42	µg/Kg-dry	1	12/24/2018 21:38
Diethyl phthalate	U		6.5	42	µg/Kg-dry	1	12/24/2018 21:38
Dimethyl phthalate	U		8.3	42	µg/Kg-dry	1	12/24/2018 21:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-4 (2-4)
Collection Date: 12/10/2018 02:45 PM

Work Order: 1812740
Lab ID: 1812740-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.8	42	µg/Kg-dry	1	12/24/2018 21:38
Di-n-octyl phthalate	U		8.1	42	µg/Kg-dry	1	12/24/2018 21:38
Fluoranthene	U		4.1	8.5	µg/Kg-dry	1	12/24/2018 21:38
Fluorene	U		6.2	8.5	µg/Kg-dry	1	12/24/2018 21:38
Hexachlorobenzene	U		12	42	µg/Kg-dry	1	12/24/2018 21:38
Hexachlorobutadiene	U		23	42	µg/Kg-dry	1	12/24/2018 21:38
Hexachlorocyclopentadiene	U		15	42	µg/Kg-dry	1	12/24/2018 21:38
Hexachloroethane	U		18	42	µg/Kg-dry	1	12/24/2018 21:38
Indeno(1,2,3-cd)pyrene	U		5.9	8.5	µg/Kg-dry	1	12/24/2018 21:38
Isophorone	U		8.3	210	µg/Kg-dry	1	12/24/2018 21:38
Naphthalene	U		5.4	8.5	µg/Kg-dry	1	12/24/2018 21:38
Nitrobenzene	U		14	210	µg/Kg-dry	1	12/24/2018 21:38
N-Nitrosodi-n-propylamine	U		7.0	42	µg/Kg-dry	1	12/24/2018 21:38
N-Nitrosodiphenylamine	U		4.1	42	µg/Kg-dry	1	12/24/2018 21:38
Pentachlorophenol	U		16	42	µg/Kg-dry	1	12/24/2018 21:38
Phenanthrene	U		3.9	8.5	µg/Kg-dry	1	12/24/2018 21:38
Phenol	U		11	42	µg/Kg-dry	1	12/24/2018 21:38
Pyrene	U		1.5	8.5	µg/Kg-dry	1	12/24/2018 21:38
Surr: 2,4,6-Tribromophenol	*55.3*			*38-92*	*%REC*	1	12/24/2018 21:38
Surr: 2-Fluorobiphenyl	*70.8*			*44-107*	*%REC*	1	12/24/2018 21:38
Surr: 2-Fluorophenol	*49.7*			*37-109*	*%REC*	1	12/24/2018 21:38
Surr: 4-Terphenyl-d14	*68.3*			*52-123*	*%REC*	1	12/24/2018 21:38
Surr: Nitrobenzene-d5	*69.3*			*41-94*	*%REC*	1	12/24/2018 21:38
Surr: Phenol-d6	*44.2*			*28-111*	*%REC*	1	12/24/2018 21:38
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		2,000	7,800	µg/Kg-dry	1	12/19/2018 04:44
Surr: Toluene-d8	*89.0*			*70-130*	*%REC*	1	12/19/2018 04:44
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **BG**
1,1,1-Trichloroethane	U		21	47	µg/Kg-dry	1	12/21/2018 17:08
1,1,2,2-Tetrachloroethane	U		21	47	µg/Kg-dry	1	12/21/2018 17:08
1,1,2-Trichloroethane	U		20	47	µg/Kg-dry	1	12/21/2018 17:08
1,1,2-Trichlorotrifluoroethane	U		30	47	µg/Kg-dry	1	12/21/2018 17:08
1,1-Dichloroethane	U		17	47	µg/Kg-dry	1	12/21/2018 17:08
1,1-Dichloroethene	U		15	47	µg/Kg-dry	1	12/21/2018 17:08
1,2,3-Trichlorobenzene	U		22	47	µg/Kg-dry	1	12/21/2018 17:08
1,2,4-Trichlorobenzene	U		16	47	µg/Kg-dry	1	12/21/2018 17:08
1,2-Dibromo-3-chloropropane	U		43	160	µg/Kg-dry	1	12/21/2018 17:08
1,2-Dibromoethane	U		13	47	µg/Kg-dry	1	12/21/2018 17:08
1,2-Dichlorobenzene	U		18	47	µg/Kg-dry	1	12/21/2018 17:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-4 (2-4)
Collection Date: 12/10/2018 02:45 PM

Work Order: 1812740
Lab ID: 1812740-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		20	47	µg/Kg-dry	1	12/21/2018 17:08
1,2-Dichloropropane	U		8.2	47	µg/Kg-dry	1	12/21/2018 17:08
1,3-Dichlorobenzene	U		16	47	µg/Kg-dry	1	12/21/2018 17:08
1,4-Dichlorobenzene	U		11	47	µg/Kg-dry	1	12/21/2018 17:08
2-Butanone	U		39	310	µg/Kg-dry	1	12/21/2018 17:08
2-Hexanone	U		23	47	µg/Kg-dry	1	12/21/2018 17:08
4-Methyl-2-pentanone	U		22	47	µg/Kg-dry	1	12/21/2018 17:08
Acetone	U		49	160	µg/Kg-dry	1	12/21/2018 17:08
Benzene	U		8.0	47	µg/Kg-dry	1	12/21/2018 17:08
Bromochloromethane	U		24	47	µg/Kg-dry	1	12/21/2018 17:08
Bromodichloromethane	U		26	47	µg/Kg-dry	1	12/21/2018 17:08
Bromoform	U		20	47	µg/Kg-dry	1	12/21/2018 17:08
Bromomethane	U		90	160	µg/Kg-dry	1	12/21/2018 17:08
Carbon disulfide	U		24	47	µg/Kg-dry	1	12/21/2018 17:08
Carbon tetrachloride	U		18	47	µg/Kg-dry	1	12/21/2018 17:08
Chlorobenzene	U		16	47	µg/Kg-dry	1	12/21/2018 17:08
Chloroethane	U		16	160	µg/Kg-dry	1	12/21/2018 17:08
Chloroform	U		17	47	µg/Kg-dry	1	12/21/2018 17:08
Chloromethane	U		39	160	µg/Kg-dry	1	12/21/2018 17:08
cis-1,2-Dichloroethene	U		15	47	µg/Kg-dry	1	12/21/2018 17:08
cis-1,3-Dichloropropene	U		17	47	µg/Kg-dry	1	12/21/2018 17:08
Cyclohexane	U		15	47	µg/Kg-dry	1	12/21/2018 17:08
Dibromochloromethane	U		26	47	µg/Kg-dry	1	12/21/2018 17:08
Dichlorodifluoromethane	U		9.8	47	µg/Kg-dry	1	12/21/2018 17:08
Ethylbenzene	**10**	J	**9.9**	**47**	**µg/Kg-dry**	1	12/21/2018 17:08
Isopropylbenzene	U		14	47	µg/Kg-dry	1	12/21/2018 17:08
m,p-Xylene	**58**	J	**22**	**94**	**µg/Kg-dry**	1	12/21/2018 17:08
Methyl acetate	U		21	310	µg/Kg-dry	1	12/21/2018 17:08
Methyl tert-butyl ether	U		14	47	µg/Kg-dry	1	12/21/2018 17:08
Methylcyclohexane	U		18	47	µg/Kg-dry	1	12/21/2018 17:08
Methylene chloride	U		20	47	µg/Kg-dry	1	12/21/2018 17:08
o-Xylene	**56**		**18**	**47**	**µg/Kg-dry**	1	12/21/2018 17:08
Styrene	U		19	47	µg/Kg-dry	1	12/21/2018 17:08
Tetrachloroethene	**17**	J	**14**	**47**	**µg/Kg-dry**	1	12/21/2018 17:08
Toluene	U		13	47	µg/Kg-dry	1	12/21/2018 17:08
trans-1,2-Dichloroethene	U		17	47	µg/Kg-dry	1	12/21/2018 17:08
trans-1,3-Dichloropropene	U		26	47	µg/Kg-dry	1	12/21/2018 17:08
Trichloroethene	U		21	47	µg/Kg-dry	1	12/21/2018 17:08
Trichlorofluoromethane	U		24	47	µg/Kg-dry	1	12/21/2018 17:08
Vinyl chloride	U		10	47	µg/Kg-dry	1	12/21/2018 17:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-4 (2-4)
Collection Date: 12/10/2018 02:45 PM

Work Order: 1812740
Lab ID: 1812740-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*98.2*			*70-130*	*%REC*	1	12/21/2018 17:08
Surr: 4-Bromofluorobenzene	*95.1*			*70-130*	*%REC*	1	12/21/2018 17:08
Surr: Dibromofluoromethane	*82.2*			*70-130*	*%REC*	1	12/21/2018 17:08
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	12/21/2018 17:08
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**22**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (0-2)
Collection Date: 12/10/2018 03:00 PM

Work Order: 1812740
Lab ID: 1812740-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	82	µg/Kg-dry	1	12/21/2018 16:57
Aroclor 1221	U		28	82	µg/Kg-dry	1	12/21/2018 16:57
Aroclor 1232	U		28	82	µg/Kg-dry	1	12/21/2018 16:57
Aroclor 1242	U		28	82	µg/Kg-dry	1	12/21/2018 16:57
Aroclor 1248	U		28	82	µg/Kg-dry	1	12/21/2018 16:57
Aroclor 1254	**78**	J	**23**	**82**	**µg/Kg-dry**	1	12/21/2018 16:57
Aroclor 1260	**39**	J	**23**	**82**	**µg/Kg-dry**	1	12/21/2018 16:57
Aroclor 1262	U		23	82	µg/Kg-dry	1	12/21/2018 16:57
Aroclor 1268	U		23	82	µg/Kg-dry	1	12/21/2018 16:57
Surr: Decachlorobiphenyl	*95.9*			*40-140*	*%REC*	1	12/21/2018 16:57
Surr: Tetrachloro-m-xylene	*89.8*			*45-124*	*%REC*	1	12/21/2018 16:57
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/21/18		Analyst: **RSH**
Mercury	**0.055**		**0.0024**	**0.024**	**mg/Kg-dry**	1	12/21/2018 21:39
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/19/18		Analyst: **ABL**
Arsenic	**10**		**0.13**	**0.50**	**mg/Kg-dry**	1	12/20/2018 19:06
Barium	**240**		**0.20**	**0.50**	**mg/Kg-dry**	1	12/20/2018 19:06
Cadmium	**0.12**	J	**0.048**	**1.0**	**mg/Kg-dry**	1	12/20/2018 19:06
Chromium	**12**		**0.028**	**0.50**	**mg/Kg-dry**	1	12/20/2018 19:06
Lead	**30**		**0.11**	**0.50**	**mg/Kg-dry**	1	12/20/2018 19:06
Selenium	**1.2**		**0.28**	**1.0**	**mg/Kg-dry**	1	12/20/2018 19:06
Silver	U		0.063	0.50	mg/Kg-dry	1	12/20/2018 19:06
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.9	6.3	mg/Kg-dry	1	12/22/2018 06:45
ORO (C21-C35)	U		2.1	6.3	mg/Kg-dry	1	12/22/2018 06:45
Surr: 4-Terphenyl-d14	*57.6*			*25-137*	*%REC*	1	12/22/2018 06:45
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.6	40	µg/Kg-dry	1	12/24/2018 21:59
1,2,4,5-Tetrachlorobenzene	U		31	400	µg/Kg-dry	1	12/24/2018 21:59
1,4-Dioxane	U		29	200	µg/Kg-dry	1	12/24/2018 21:59
2,2`-Oxybis(1-chloropropane)	U		9.5	40	µg/Kg-dry	1	12/24/2018 21:59
2,3,4,6-Tetrachlorophenol	U		11	81	µg/Kg-dry	1	12/24/2018 21:59
2,4,5-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 21:59
2,4,6-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 21:59
2,4-Dichlorophenol	U		8.5	40	µg/Kg-dry	1	12/24/2018 21:59
2,4-Dimethylphenol	U		8.3	40	µg/Kg-dry	1	12/24/2018 21:59
2,4-Dinitrophenol	U		22	40	µg/Kg-dry	1	12/24/2018 21:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (0-2)
Collection Date: 12/10/2018 03:00 PM

Work Order: 1812740
Lab ID: 1812740-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		11	40	µg/Kg-dry	1	12/24/2018 21:59
2,6-Dinitrotoluene	U		6.7	40	µg/Kg-dry	1	12/24/2018 21:59
2-Chloronaphthalene	U		5.7	8.1	µg/Kg-dry	1	12/24/2018 21:59
2-Chlorophenol	U		13	40	µg/Kg-dry	1	12/24/2018 21:59
2-Methylnaphthalene	U		4.1	8.1	µg/Kg-dry	1	12/24/2018 21:59
2-Methylphenol	U		11	40	µg/Kg-dry	1	12/24/2018 21:59
2-Nitroaniline	U		9.3	40	µg/Kg-dry	1	12/24/2018 21:59
2-Nitrophenol	U		12	40	µg/Kg-dry	1	12/24/2018 21:59
3&4-Methylphenol	U		8.1	40	µg/Kg-dry	1	12/24/2018 21:59
3,3´-Dichlorobenzidine	U		6.0	200	µg/Kg-dry	1	12/24/2018 21:59
3-Nitroaniline	U		9.3	40	µg/Kg-dry	1	12/24/2018 21:59
4,6-Dinitro-2-methylphenol	U		10	40	µg/Kg-dry	1	12/24/2018 21:59
4-Bromophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 21:59
4-Chloro-3-methylphenol	U		12	40	µg/Kg-dry	1	12/24/2018 21:59
4-Chloroaniline	U		6.4	81	µg/Kg-dry	1	12/24/2018 21:59
4-Chlorophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 21:59
4-Nitroaniline	U		63	200	µg/Kg-dry	1	12/24/2018 21:59
4-Nitrophenol	U		36	40	µg/Kg-dry	1	12/24/2018 21:59
Acenaphthene	U		5.9	8.1	µg/Kg-dry	1	12/24/2018 21:59
Acenaphthylene	U		7.0	8.1	µg/Kg-dry	1	12/24/2018 21:59
Acetophenone	U		6.3	40	µg/Kg-dry	1	12/24/2018 21:59
Anthracene	U		5.7	8.1	µg/Kg-dry	1	12/24/2018 21:59
Atrazine	U		6.4	40	µg/Kg-dry	1	12/24/2018 21:59
Benzaldehyde	U		62	81	µg/Kg-dry	1	12/24/2018 21:59
Benzo(a)anthracene	U		7.0	8.1	µg/Kg-dry	1	12/24/2018 21:59
Benzo(a)pyrene	U		5.0	8.1	µg/Kg-dry	1	12/24/2018 21:59
Benzo(b)fluoranthene	U		6.0	8.1	µg/Kg-dry	1	12/24/2018 21:59
Benzo(g,h,i)perylene	U		6.2	8.1	µg/Kg-dry	1	12/24/2018 21:59
Benzo(k)fluoranthene	U		6.1	8.1	µg/Kg-dry	1	12/24/2018 21:59
Bis(2-chloroethoxy)methane	U		3.9	40	µg/Kg-dry	1	12/24/2018 21:59
Bis(2-chloroethyl)ether	U		11	40	µg/Kg-dry	1	12/24/2018 21:59
Bis(2-ethylhexyl)phthalate	**100**		**7.0**	**40**	**µg/Kg-dry**	1	12/24/2018 21:59
Butyl benzyl phthalate	U		6.9	40	µg/Kg-dry	1	12/24/2018 21:59
Caprolactam	U		14	40	µg/Kg-dry	1	12/24/2018 21:59
Carbazole	U		4.4	40	µg/Kg-dry	1	12/24/2018 21:59
Chrysene	U		6.6	8.1	µg/Kg-dry	1	12/24/2018 21:59
Dibenzo(a,h)anthracene	U		4.4	8.1	µg/Kg-dry	1	12/24/2018 21:59
Dibenzofuran	U		6.0	40	µg/Kg-dry	1	12/24/2018 21:59
Diethyl phthalate	U		6.2	40	µg/Kg-dry	1	12/24/2018 21:59
Dimethyl phthalate	U		7.9	40	µg/Kg-dry	1	12/24/2018 21:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (0-2)
Collection Date: 12/10/2018 03:00 PM

Work Order: 1812740
Lab ID: 1812740-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.4	40	µg/Kg-dry	1	12/24/2018 21:59
Di-n-octyl phthalate	U		7.8	40	µg/Kg-dry	1	12/24/2018 21:59
Fluoranthene	U		3.9	8.1	µg/Kg-dry	1	12/24/2018 21:59
Fluorene	U		5.9	8.1	µg/Kg-dry	1	12/24/2018 21:59
Hexachlorobenzene	U		12	40	µg/Kg-dry	1	12/24/2018 21:59
Hexachlorobutadiene	U		22	40	µg/Kg-dry	1	12/24/2018 21:59
Hexachlorocyclopentadiene	U		14	40	µg/Kg-dry	1	12/24/2018 21:59
Hexachloroethane	U		17	40	µg/Kg-dry	1	12/24/2018 21:59
Indeno(1,2,3-cd)pyrene	U		5.6	8.1	µg/Kg-dry	1	12/24/2018 21:59
Isophorone	U		7.9	200	µg/Kg-dry	1	12/24/2018 21:59
Naphthalene	U		5.2	8.1	µg/Kg-dry	1	12/24/2018 21:59
Nitrobenzene	U		14	200	µg/Kg-dry	1	12/24/2018 21:59
N-Nitrosodi-n-propylamine	U		6.7	40	µg/Kg-dry	1	12/24/2018 21:59
N-Nitrosodiphenylamine	U		3.9	40	µg/Kg-dry	1	12/24/2018 21:59
Pentachlorophenol	U		15	40	µg/Kg-dry	1	12/24/2018 21:59
Phenanthrene	U		3.8	8.1	µg/Kg-dry	1	12/24/2018 21:59
Phenol	U		10	40	µg/Kg-dry	1	12/24/2018 21:59
Pyrene	**8.9**		**1.5**	**8.1**	**µg/Kg-dry**	1	12/24/2018 21:59
Surr: 2,4,6-Tribromophenol	*71.6*			*38-92*	*%REC*	1	12/24/2018 21:59
Surr: 2-Fluorobiphenyl	*76.9*			*44-107*	*%REC*	1	12/24/2018 21:59
Surr: 2-Fluorophenol	*54.2*			*37-109*	*%REC*	1	12/24/2018 21:59
Surr: 4-Terphenyl-d14	*68.5*			*52-123*	*%REC*	1	12/24/2018 21:59
Surr: Nitrobenzene-d5	*71.5*			*41-94*	*%REC*	1	12/24/2018 21:59
Surr: Phenol-d6	*51.9*			*28-111*	*%REC*	1	12/24/2018 21:59
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	**2,000**	J	**1,900**	**7,700**	**µg/Kg-dry**	1	12/19/2018 04:59
Surr: Toluene-d8	*89.6*			*70-130*	*%REC*	1	12/19/2018 04:59
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **BG**
1,1,1-Trichloroethane	U		21	46	µg/Kg-dry	1	12/21/2018 17:30
1,1,2,2-Tetrachloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:30
1,1,2-Trichloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:30
1,1,2-Trichlorotrifluoroethane	U		29	46	µg/Kg-dry	1	12/21/2018 17:30
1,1-Dichloroethane	U		17	46	µg/Kg-dry	1	12/21/2018 17:30
1,1-Dichloroethene	U		15	46	µg/Kg-dry	1	12/21/2018 17:30
1,2,3-Trichlorobenzene	U		22	46	µg/Kg-dry	1	12/21/2018 17:30
1,2,4-Trichlorobenzene	U		16	46	µg/Kg-dry	1	12/21/2018 17:30
1,2-Dibromo-3-chloropropane	U		42	150	µg/Kg-dry	1	12/21/2018 17:30
1,2-Dibromoethane	U		13	46	µg/Kg-dry	1	12/21/2018 17:30
1,2-Dichlorobenzene	U		17	46	µg/Kg-dry	1	12/21/2018 17:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (0-2)
Collection Date: 12/10/2018 03:00 PM

Work Order: 1812740
Lab ID: 1812740-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:30
1,2-Dichloropropane	U		8.0	46	µg/Kg-dry	1	12/21/2018 17:30
1,3-Dichlorobenzene	U		15	46	µg/Kg-dry	1	12/21/2018 17:30
1,4-Dichlorobenzene	U		11	46	µg/Kg-dry	1	12/21/2018 17:30
2-Butanone	U		38	310	µg/Kg-dry	1	12/21/2018 17:30
2-Hexanone	U		23	46	µg/Kg-dry	1	12/21/2018 17:30
4-Methyl-2-pentanone	U		22	46	µg/Kg-dry	1	12/21/2018 17:30
Acetone	U		48	150	µg/Kg-dry	1	12/21/2018 17:30
Benzene	U		7.9	46	µg/Kg-dry	1	12/21/2018 17:30
Bromochloromethane	U		23	46	µg/Kg-dry	1	12/21/2018 17:30
Bromodichloromethane	U		26	46	µg/Kg-dry	1	12/21/2018 17:30
Bromoform	U		19	46	µg/Kg-dry	1	12/21/2018 17:30
Bromomethane	U		88	150	µg/Kg-dry	1	12/21/2018 17:30
Carbon disulfide	U		24	46	µg/Kg-dry	1	12/21/2018 17:30
Carbon tetrachloride	U		18	46	µg/Kg-dry	1	12/21/2018 17:30
Chlorobenzene	U		15	46	µg/Kg-dry	1	12/21/2018 17:30
Chloroethane	U		16	150	µg/Kg-dry	1	12/21/2018 17:30
Chloroform	U		17	46	µg/Kg-dry	1	12/21/2018 17:30
Chloromethane	U		38	150	µg/Kg-dry	1	12/21/2018 17:30
cis-1,2-Dichloroethene	U		14	46	µg/Kg-dry	1	12/21/2018 17:30
cis-1,3-Dichloropropene	U		17	46	µg/Kg-dry	1	12/21/2018 17:30
Cyclohexane	U		15	46	µg/Kg-dry	1	12/21/2018 17:30
Dibromochloromethane	U		26	46	µg/Kg-dry	1	12/21/2018 17:30
Dichlorodifluoromethane	U		9.6	46	µg/Kg-dry	1	12/21/2018 17:30
Ethylbenzene	U		9.7	46	µg/Kg-dry	1	12/21/2018 17:30
Isopropylbenzene	U		14	46	µg/Kg-dry	1	12/21/2018 17:30
m,p-Xylene	U		22	92	µg/Kg-dry	1	12/21/2018 17:30
Methyl acetate	**300**	J	**21**	**310**	**µg/Kg-dry**	1	12/21/2018 17:30
Methyl tert-butyl ether	U		13	46	µg/Kg-dry	1	12/21/2018 17:30
Methylcyclohexane	U		18	46	µg/Kg-dry	1	12/21/2018 17:30
Methylene chloride	U		20	46	µg/Kg-dry	1	12/21/2018 17:30
o-Xylene	U		18	46	µg/Kg-dry	1	12/21/2018 17:30
Styrene	U		18	46	µg/Kg-dry	1	12/21/2018 17:30
Tetrachloroethene	U		13	46	µg/Kg-dry	1	12/21/2018 17:30
Toluene	U		13	46	µg/Kg-dry	1	12/21/2018 17:30
trans-1,2-Dichloroethene	U		17	46	µg/Kg-dry	1	12/21/2018 17:30
trans-1,3-Dichloropropene	U		26	46	µg/Kg-dry	1	12/21/2018 17:30
Trichloroethene	U		21	46	µg/Kg-dry	1	12/21/2018 17:30
Trichlorofluoromethane	U		23	46	µg/Kg-dry	1	12/21/2018 17:30
Vinyl chloride	U		9.9	46	µg/Kg-dry	1	12/21/2018 17:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (0-2)
Collection Date: 12/10/2018 03:00 PM

Work Order: 1812740
Lab ID: 1812740-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*98.5*			*70-130*	*%REC*	1	12/21/2018 17:30
Surr: 4-Bromofluorobenzene	*97.6*			*70-130*	*%REC*	1	12/21/2018 17:30
Surr: Dibromofluoromethane	*80.7*			*70-130*	*%REC*	1	12/21/2018 17:30
Surr: Toluene-d8	*106*			*70-130*	*%REC*	1	12/21/2018 17:30
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**21**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (13-15)
Collection Date: 12/10/2018 03:15 PM

Work Order: 1812740
Lab ID: 1812740-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		27	78	µg/Kg-dry	1	12/21/2018 17:11
Aroclor 1221	U		27	78	µg/Kg-dry	1	12/21/2018 17:11
Aroclor 1232	U		27	78	µg/Kg-dry	1	12/21/2018 17:11
Aroclor 1242	U		27	78	µg/Kg-dry	1	12/21/2018 17:11
Aroclor 1248	U		27	78	µg/Kg-dry	1	12/21/2018 17:11
Aroclor 1254	U		22	78	µg/Kg-dry	1	12/21/2018 17:11
Aroclor 1260	U		22	78	µg/Kg-dry	1	12/21/2018 17:11
Aroclor 1262	U		22	78	µg/Kg-dry	1	12/21/2018 17:11
Aroclor 1268	U		22	78	µg/Kg-dry	1	12/21/2018 17:11
Surr: Decachlorobiphenyl	*83.0*			*40-140*	*%REC*	1	12/21/2018 17:11
Surr: Tetrachloro-m-xylene	*81.0*			*45-124*	*%REC*	1	12/21/2018 17:11
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/21/18		Analyst: **RSH**
Mercury	**0.027**		**0.0022**	**0.022**	**mg/Kg-dry**	1	12/21/2018 21:48
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/19/18		Analyst: **ABL**
Arsenic	**0.66**		**0.13**	**0.48**	**mg/Kg-dry**	1	12/20/2018 19:12
Barium	**39**		**0.19**	**0.48**	**mg/Kg-dry**	1	12/20/2018 19:12
Cadmium	U		0.046	0.97	mg/Kg-dry	1	12/20/2018 19:12
Chromium	**12**		**0.027**	**0.48**	**mg/Kg-dry**	1	12/20/2018 19:12
Lead	**2.7**		**0.10**	**0.48**	**mg/Kg-dry**	1	12/20/2018 19:12
Selenium	**1.9**		**0.27**	**0.97**	**mg/Kg-dry**	1	12/20/2018 19:12
Silver	U		0.060	0.48	mg/Kg-dry	1	12/20/2018 19:12
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.8	6.0	mg/Kg-dry	1	12/22/2018 07:12
ORO (C21-C35)	U		2.0	6.0	mg/Kg-dry	1	12/22/2018 07:12
Surr: 4-Terphenyl-d14	*87.3*			*25-137*	*%REC*	1	12/22/2018 07:12
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.4	39	µg/Kg-dry	1	12/24/2018 16:35
1,2,4,5-Tetrachlorobenzene	U		31	390	µg/Kg-dry	1	12/24/2018 16:35
1,4-Dioxane	U		28	200	µg/Kg-dry	1	12/24/2018 16:35
2,2`-Oxybis(1-chloropropane)	U		9.3	39	µg/Kg-dry	1	12/24/2018 16:35
2,3,4,6-Tetrachlorophenol	U		10	79	µg/Kg-dry	1	12/24/2018 16:35
2,4,5-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/24/2018 16:35
2,4,6-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/24/2018 16:35
2,4-Dichlorophenol	U		8.3	39	µg/Kg-dry	1	12/24/2018 16:35
2,4-Dimethylphenol	U		8.1	39	µg/Kg-dry	1	12/24/2018 16:35
2,4-Dinitrophenol	U		21	39	µg/Kg-dry	1	12/24/2018 16:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (13-15)
Collection Date: 12/10/2018 03:15 PM

Work Order: 1812740
Lab ID: 1812740-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	39	µg/Kg-dry	1	12/24/2018 16:35
2,6-Dinitrotoluene	U		6.5	39	µg/Kg-dry	1	12/24/2018 16:35
2-Chloronaphthalene	U		5.5	7.9	µg/Kg-dry	1	12/24/2018 16:35
2-Chlorophenol	U		12	39	µg/Kg-dry	1	12/24/2018 16:35
2-Methylnaphthalene	U		4.0	7.9	µg/Kg-dry	1	12/24/2018 16:35
2-Methylphenol	U		11	39	µg/Kg-dry	1	12/24/2018 16:35
2-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/24/2018 16:35
2-Nitrophenol	U		11	39	µg/Kg-dry	1	12/24/2018 16:35
3&4-Methylphenol	U		7.9	39	µg/Kg-dry	1	12/24/2018 16:35
3,3´-Dichlorobenzidine	U		5.9	200	µg/Kg-dry	1	12/24/2018 16:35
3-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/24/2018 16:35
4,6-Dinitro-2-methylphenol	U		9.9	39	µg/Kg-dry	1	12/24/2018 16:35
4-Bromophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/24/2018 16:35
4-Chloro-3-methylphenol	U		11	39	µg/Kg-dry	1	12/24/2018 16:35
4-Chloroaniline	U		6.2	79	µg/Kg-dry	1	12/24/2018 16:35
4-Chlorophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/24/2018 16:35
4-Nitroaniline	U		61	200	µg/Kg-dry	1	12/24/2018 16:35
4-Nitrophenol	U		35	39	µg/Kg-dry	1	12/24/2018 16:35
Acenaphthene	U		5.7	7.9	µg/Kg-dry	1	12/24/2018 16:35
Acenaphthylene	U		6.9	7.9	µg/Kg-dry	1	12/24/2018 16:35
Acetophenone	U		6.2	39	µg/Kg-dry	1	12/24/2018 16:35
Anthracene	U		5.6	7.9	µg/Kg-dry	1	12/24/2018 16:35
Atrazine	U		6.2	39	µg/Kg-dry	1	12/24/2018 16:35
Benzaldehyde	U		61	79	µg/Kg-dry	1	12/24/2018 16:35
Benzo(a)anthracene	U		6.8	7.9	µg/Kg-dry	1	12/24/2018 16:35
Benzo(a)pyrene	U		4.8	7.9	µg/Kg-dry	1	12/24/2018 16:35
Benzo(b)fluoranthene	U		5.9	7.9	µg/Kg-dry	1	12/24/2018 16:35
Benzo(g,h,i)perylene	U		6.1	7.9	µg/Kg-dry	1	12/24/2018 16:35
Benzo(k)fluoranthene	U		6.0	7.9	µg/Kg-dry	1	12/24/2018 16:35
Bis(2-chloroethoxy)methane	U		3.8	39	µg/Kg-dry	1	12/24/2018 16:35
Bis(2-chloroethyl)ether	U		11	39	µg/Kg-dry	1	12/24/2018 16:35
Bis(2-ethylhexyl)phthalate	U		6.9	39	µg/Kg-dry	1	12/24/2018 16:35
Butyl benzyl phthalate	U		6.7	39	µg/Kg-dry	1	12/24/2018 16:35
Caprolactam	U		14	39	µg/Kg-dry	1	12/24/2018 16:35
Carbazole	U		4.3	39	µg/Kg-dry	1	12/24/2018 16:35
Chrysene	U		6.4	7.9	µg/Kg-dry	1	12/24/2018 16:35
Dibenzo(a,h)anthracene	U		4.3	7.9	µg/Kg-dry	1	12/24/2018 16:35
Dibenzofuran	U		5.8	39	µg/Kg-dry	1	12/24/2018 16:35
Diethyl phthalate	U		6.0	39	µg/Kg-dry	1	12/24/2018 16:35
Dimethyl phthalate	U		7.7	39	µg/Kg-dry	1	12/24/2018 16:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (13-15)
Collection Date: 12/10/2018 03:15 PM

Work Order: 1812740
Lab ID: 1812740-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.2	39	µg/Kg-dry	1	12/24/2018 16:35
Di-n-octyl phthalate	U		7.6	39	µg/Kg-dry	1	12/24/2018 16:35
Fluoranthene	U		3.8	7.9	µg/Kg-dry	1	12/24/2018 16:35
Fluorene	U		5.7	7.9	µg/Kg-dry	1	12/24/2018 16:35
Hexachlorobenzene	U		12	39	µg/Kg-dry	1	12/24/2018 16:35
Hexachlorobutadiene	U		21	39	µg/Kg-dry	1	12/24/2018 16:35
Hexachlorocyclopentadiene	U		14	39	µg/Kg-dry	1	12/24/2018 16:35
Hexachloroethane	U		16	39	µg/Kg-dry	1	12/24/2018 16:35
Indeno(1,2,3-cd)pyrene	U		5.5	7.9	µg/Kg-dry	1	12/24/2018 16:35
Isophorone	U		7.7	200	µg/Kg-dry	1	12/24/2018 16:35
Naphthalene	U		5.1	7.9	µg/Kg-dry	1	12/24/2018 16:35
Nitrobenzene	U		13	200	µg/Kg-dry	1	12/24/2018 16:35
N-Nitrosodi-n-propylamine	U		6.5	39	µg/Kg-dry	1	12/24/2018 16:35
N-Nitrosodiphenylamine	U		3.8	39	µg/Kg-dry	1	12/24/2018 16:35
Pentachlorophenol	U		15	39	µg/Kg-dry	1	12/24/2018 16:35
Phenanthrene	U		3.7	7.9	µg/Kg-dry	1	12/24/2018 16:35
Phenol	U		9.8	39	µg/Kg-dry	1	12/24/2018 16:35
Pyrene	U		1.4	7.9	µg/Kg-dry	1	12/24/2018 16:35
Surr: 2,4,6-Tribromophenol	*47.2*			*38-92*	*%REC*	1	12/24/2018 16:35
Surr: 2-Fluorobiphenyl	*71.9*			*44-107*	*%REC*	1	12/24/2018 16:35
Surr: 2-Fluorophenol	*63.7*			*37-109*	*%REC*	1	12/24/2018 16:35
Surr: 4-Terphenyl-d14	*60.4*			*52-123*	*%REC*	1	12/24/2018 16:35
Surr: Nitrobenzene-d5	*60.8*			*41-94*	*%REC*	1	12/24/2018 16:35
Surr: Phenol-d6	*49.6*			*28-111*	*%REC*	1	12/24/2018 16:35
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,700	6,900	µg/Kg-dry	1	12/19/2018 05:15
Surr: Toluene-d8	*87.6*			*70-130*	*%REC*	1	12/19/2018 05:15
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		19	41	µg/Kg-dry	1	12/21/2018 18:46
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	12/21/2018 18:46
1,1,2-Trichloroethane	U		18	41	µg/Kg-dry	1	12/21/2018 18:46
1,1,2-Trichlorotrifluoroethane	U		26	41	µg/Kg-dry	1	12/21/2018 18:46
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	12/21/2018 18:46
1,1-Dichloroethene	U		13	41	µg/Kg-dry	1	12/21/2018 18:46
1,2,3-Trichlorobenzene	U		20	41	µg/Kg-dry	1	12/21/2018 18:46
1,2,4-Trichlorobenzene	U		14	41	µg/Kg-dry	1	12/21/2018 18:46
1,2-Dibromo-3-chloropropane	U		38	140	µg/Kg-dry	1	12/21/2018 18:46
1,2-Dibromoethane	U		12	41	µg/Kg-dry	1	12/21/2018 18:46
1,2-Dichlorobenzene	U		16	41	µg/Kg-dry	1	12/21/2018 18:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (13-15)
Collection Date: 12/10/2018 03:15 PM

Work Order: 1812740
Lab ID: 1812740-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		18	41	µg/Kg-dry	1	12/21/2018 18:46
1,2-Dichloropropane	U		7.2	41	µg/Kg-dry	1	12/21/2018 18:46
1,3-Dichlorobenzene	U		14	41	µg/Kg-dry	1	12/21/2018 18:46
1,4-Dichlorobenzene	U		10	41	µg/Kg-dry	1	12/21/2018 18:46
2-Butanone	U		34	280	µg/Kg-dry	1	12/21/2018 18:46
2-Hexanone	U		21	41	µg/Kg-dry	1	12/21/2018 18:46
4-Methyl-2-pentanone	U		20	41	µg/Kg-dry	1	12/21/2018 18:46
Acetone	U		43	140	µg/Kg-dry	1	12/21/2018 18:46
Benzene	U		7.1	41	µg/Kg-dry	1	12/21/2018 18:46
Bromochloromethane	U		21	41	µg/Kg-dry	1	12/21/2018 18:46
Bromodichloromethane	U		23	41	µg/Kg-dry	1	12/21/2018 18:46
Bromoform	U		17	41	µg/Kg-dry	1	12/21/2018 18:46
Bromomethane	U		79	140	µg/Kg-dry	1	12/21/2018 18:46
Carbon disulfide	U		21	41	µg/Kg-dry	1	12/21/2018 18:46
Carbon tetrachloride	U		16	41	µg/Kg-dry	1	12/21/2018 18:46
Chlorobenzene	U		14	41	µg/Kg-dry	1	12/21/2018 18:46
Chloroethane	U		14	140	µg/Kg-dry	1	12/21/2018 18:46
Chloroform	U		15	41	µg/Kg-dry	1	12/21/2018 18:46
Chloromethane	U		35	140	µg/Kg-dry	1	12/21/2018 18:46
cis-1,2-Dichloroethene	U		13	41	µg/Kg-dry	1	12/21/2018 18:46
cis-1,3-Dichloropropene	U		15	41	µg/Kg-dry	1	12/21/2018 18:46
Cyclohexane	U		13	41	µg/Kg-dry	1	12/21/2018 18:46
Dibromochloromethane	U		23	41	µg/Kg-dry	1	12/21/2018 18:46
Dichlorodifluoromethane	U		8.7	41	µg/Kg-dry	1	12/21/2018 18:46
Ethylbenzene	U		8.7	41	µg/Kg-dry	1	12/21/2018 18:46
Isopropylbenzene	U		13	41	µg/Kg-dry	1	12/21/2018 18:46
m,p-Xylene	U		20	83	µg/Kg-dry	1	12/21/2018 18:46
Methyl acetate	**31**	J	**19**	**280**	**µg/Kg-dry**	1	12/21/2018 18:46
Methyl tert-butyl ether	U		12	41	µg/Kg-dry	1	12/21/2018 18:46
Methylcyclohexane	U		16	41	µg/Kg-dry	1	12/21/2018 18:46
Methylene chloride	U		18	41	µg/Kg-dry	1	12/21/2018 18:46
o-Xylene	U		16	41	µg/Kg-dry	1	12/21/2018 18:46
Styrene	U		16	41	µg/Kg-dry	1	12/21/2018 18:46
Tetrachloroethene	U		12	41	µg/Kg-dry	1	12/21/2018 18:46
Toluene	U		11	41	µg/Kg-dry	1	12/21/2018 18:46
trans-1,2-Dichloroethene	U		15	41	µg/Kg-dry	1	12/21/2018 18:46
trans-1,3-Dichloropropene	U		23	41	µg/Kg-dry	1	12/21/2018 18:46
Trichloroethene	U		19	41	µg/Kg-dry	1	12/21/2018 18:46
Trichlorofluoromethane	U		21	41	µg/Kg-dry	1	12/21/2018 18:46
Vinyl chloride	U		8.9	41	µg/Kg-dry	1	12/21/2018 18:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-5 (13-15)
Collection Date: 12/10/2018 03:15 PM

Work Order: 1812740
Lab ID: 1812740-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*107*			*70-130*	*%REC*	1	12/21/2018 18:46
Surr: 4-Bromofluorobenzene	*91.9*			*70-130*	*%REC*	1	12/21/2018 18:46
Surr: Dibromofluoromethane	*103*			*70-130*	*%REC*	1	12/21/2018 18:46
Surr: Toluene-d8	*94.7*			*70-130*	*%REC*	1	12/21/2018 18:46
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**16**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (0-2)
Collection Date: 12/10/2018 03:35 PM

Work Order: 1812740
Lab ID: 1812740-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		27	80	µg/Kg-dry	1	12/21/2018 17:25
Aroclor 1221	U		27	80	µg/Kg-dry	1	12/21/2018 17:25
Aroclor 1232	U		27	80	µg/Kg-dry	1	12/21/2018 17:25
Aroclor 1242	U		27	80	µg/Kg-dry	1	12/21/2018 17:25
Aroclor 1248	U		27	80	µg/Kg-dry	1	12/21/2018 17:25
Aroclor 1254	U		22	80	µg/Kg-dry	1	12/21/2018 17:25
Aroclor 1260	U		22	80	µg/Kg-dry	1	12/21/2018 17:25
Aroclor 1262	U		22	80	µg/Kg-dry	1	12/21/2018 17:25
Aroclor 1268	U		22	80	µg/Kg-dry	1	12/21/2018 17:25
Surr: Decachlorobiphenyl	*94.6*			*40-140*	*%REC*	1	12/21/2018 17:25
Surr: Tetrachloro-m-xylene	*90.6*			*45-124*	*%REC*	1	12/21/2018 17:25
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/21/18		Analyst: **RSH**
Mercury	**0.055**		**0.0023**	**0.023**	**mg/Kg-dry**	1	12/21/2018 21:51
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/19/18		Analyst: **ABL**
Arsenic	**6.4**		**0.12**	**0.47**	**mg/Kg-dry**	1	12/20/2018 19:18
Barium	**180**		**0.19**	**0.47**	**mg/Kg-dry**	1	12/20/2018 19:18
Cadmium	U		0.045	0.94	mg/Kg-dry	1	12/20/2018 19:18
Chromium	**13**		**0.026**	**0.47**	**mg/Kg-dry**	1	12/20/2018 19:18
Lead	**9.1**		**0.099**	**0.47**	**mg/Kg-dry**	1	12/20/2018 19:18
Selenium	**0.69**	J	**0.26**	**0.94**	**mg/Kg-dry**	1	12/20/2018 19:18
Silver	U		0.058	0.47	mg/Kg-dry	1	12/20/2018 19:18
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	**8.5**		**1.9**	**6.3**	**mg/Kg-dry**	1	12/22/2018 07:40
ORO (C21-C35)	U		2.1	6.3	mg/Kg-dry	1	12/22/2018 07:40
Surr: 4-Terphenyl-d14	*76.2*			*25-137*	*%REC*	1	12/22/2018 07:40
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.6	40	µg/Kg-dry	1	12/24/2018 22:19
1,2,4,5-Tetrachlorobenzene	U		32	410	µg/Kg-dry	1	12/24/2018 22:19
1,4-Dioxane	U		29	200	µg/Kg-dry	1	12/24/2018 22:19
2,2`-Oxybis(1-chloropropane)	U		9.5	40	µg/Kg-dry	1	12/24/2018 22:19
2,3,4,6-Tetrachlorophenol	U		11	82	µg/Kg-dry	1	12/24/2018 22:19
2,4,5-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 22:19
2,4,6-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 22:19
2,4-Dichlorophenol	U		8.6	40	µg/Kg-dry	1	12/24/2018 22:19
2,4-Dimethylphenol	U		8.3	40	µg/Kg-dry	1	12/24/2018 22:19
2,4-Dinitrophenol	U		22	40	µg/Kg-dry	1	12/24/2018 22:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (0-2)
Collection Date: 12/10/2018 03:35 PM

Work Order: 1812740
Lab ID: 1812740-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		11	40	µg/Kg-dry	1	12/24/2018 22:19
2,6-Dinitrotoluene	U		6.7	40	µg/Kg-dry	1	12/24/2018 22:19
2-Chloronaphthalene	U		5.7	8.1	µg/Kg-dry	1	12/24/2018 22:19
2-Chlorophenol	U		13	40	µg/Kg-dry	1	12/24/2018 22:19
2-Methylnaphthalene	U		4.1	8.1	µg/Kg-dry	1	12/24/2018 22:19
2-Methylphenol	U		11	40	µg/Kg-dry	1	12/24/2018 22:19
2-Nitroaniline	U		9.3	40	µg/Kg-dry	1	12/24/2018 22:19
2-Nitrophenol	U		12	40	µg/Kg-dry	1	12/24/2018 22:19
3&4-Methylphenol	U		8.2	40	µg/Kg-dry	1	12/24/2018 22:19
3,3´-Dichlorobenzidine	U		6.0	200	µg/Kg-dry	1	12/24/2018 22:19
3-Nitroaniline	U		9.3	40	µg/Kg-dry	1	12/24/2018 22:19
4,6-Dinitro-2-methylphenol	U		10	40	µg/Kg-dry	1	12/24/2018 22:19
4-Bromophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 22:19
4-Chloro-3-methylphenol	U		12	40	µg/Kg-dry	1	12/24/2018 22:19
4-Chloroaniline	U		6.4	82	µg/Kg-dry	1	12/24/2018 22:19
4-Chlorophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 22:19
4-Nitroaniline	U		63	200	µg/Kg-dry	1	12/24/2018 22:19
4-Nitrophenol	U		36	40	µg/Kg-dry	1	12/24/2018 22:19
Acenaphthene	U		5.9	8.1	µg/Kg-dry	1	12/24/2018 22:19
Acenaphthylene	U		7.0	8.1	µg/Kg-dry	1	12/24/2018 22:19
Acetophenone	U		6.4	40	µg/Kg-dry	1	12/24/2018 22:19
Anthracene	U		5.7	8.1	µg/Kg-dry	1	12/24/2018 22:19
Atrazine	U		6.4	40	µg/Kg-dry	1	12/24/2018 22:19
Benzaldehyde	U		62	82	µg/Kg-dry	1	12/24/2018 22:19
Benzo(a)anthracene	U		7.0	8.1	µg/Kg-dry	1	12/24/2018 22:19
Benzo(a)pyrene	U		5.0	8.1	µg/Kg-dry	1	12/24/2018 22:19
Benzo(b)fluoranthene	U		6.1	8.1	µg/Kg-dry	1	12/24/2018 22:19
Benzo(g,h,i)perylene	U		6.2	8.1	µg/Kg-dry	1	12/24/2018 22:19
Benzo(k)fluoranthene	U		6.2	8.1	µg/Kg-dry	1	12/24/2018 22:19
Bis(2-chloroethoxy)methane	U		3.9	40	µg/Kg-dry	1	12/24/2018 22:19
Bis(2-chloroethyl)ether	U		12	40	µg/Kg-dry	1	12/24/2018 22:19
Bis(2-ethylhexyl)phthalate	U		7.0	40	µg/Kg-dry	1	12/24/2018 22:19
Butyl benzyl phthalate	U		6.9	40	µg/Kg-dry	1	12/24/2018 22:19
Caprolactam	U		14	40	µg/Kg-dry	1	12/24/2018 22:19
Carbazole	U		4.4	40	µg/Kg-dry	1	12/24/2018 22:19
Chrysene	U		6.6	8.1	µg/Kg-dry	1	12/24/2018 22:19
Dibenzo(a,h)anthracene	U		4.4	8.1	µg/Kg-dry	1	12/24/2018 22:19
Dibenzofuran	U		6.0	40	µg/Kg-dry	1	12/24/2018 22:19
Diethyl phthalate	U		6.2	40	µg/Kg-dry	1	12/24/2018 22:19
Dimethyl phthalate	U		7.9	40	µg/Kg-dry	1	12/24/2018 22:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (0-2)
Collection Date: 12/10/2018 03:35 PM

Work Order: 1812740
Lab ID: 1812740-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.4	40	µg/Kg-dry	1	12/24/2018 22:19
Di-n-octyl phthalate	U		7.8	40	µg/Kg-dry	1	12/24/2018 22:19
Fluoranthene	U		3.9	8.1	µg/Kg-dry	1	12/24/2018 22:19
Fluorene	U		5.9	8.1	µg/Kg-dry	1	12/24/2018 22:19
Hexachlorobenzene	U		12	40	µg/Kg-dry	1	12/24/2018 22:19
Hexachlorobutadiene	U		22	40	µg/Kg-dry	1	12/24/2018 22:19
Hexachlorocyclopentadiene	U		14	40	µg/Kg-dry	1	12/24/2018 22:19
Hexachloroethane	U		17	40	µg/Kg-dry	1	12/24/2018 22:19
Indeno(1,2,3-cd)pyrene	U		5.7	8.1	µg/Kg-dry	1	12/24/2018 22:19
Isophorone	U		7.9	200	µg/Kg-dry	1	12/24/2018 22:19
Naphthalene	U		5.2	8.1	µg/Kg-dry	1	12/24/2018 22:19
Nitrobenzene	U		14	200	µg/Kg-dry	1	12/24/2018 22:19
N-Nitrosodi-n-propylamine	U		6.7	40	µg/Kg-dry	1	12/24/2018 22:19
N-Nitrosodiphenylamine	U		3.9	40	µg/Kg-dry	1	12/24/2018 22:19
Pentachlorophenol	U		15	40	µg/Kg-dry	1	12/24/2018 22:19
Phenanthrene	U		3.8	8.1	µg/Kg-dry	1	12/24/2018 22:19
Phenol	U		10	40	µg/Kg-dry	1	12/24/2018 22:19
Pyrene	U		1.5	8.1	µg/Kg-dry	1	12/24/2018 22:19
Surr: 2,4,6-Tribromophenol	*54.5*			*38-92*	*%REC*	1	12/24/2018 22:19
Surr: 2-Fluorobiphenyl	*49.5*			*44-107*	*%REC*	1	12/24/2018 22:19
Surr: 2-Fluorophenol	*36.7*	S		*37-109*	*%REC*	1	12/24/2018 22:19
Surr: 4-Terphenyl-d14	*59.0*			*52-123*	*%REC*	1	12/24/2018 22:19
Surr: Nitrobenzene-d5	*44.8*			*41-94*	*%REC*	1	12/24/2018 22:19
Surr: Phenol-d6	*34.2*			*28-111*	*%REC*	1	12/24/2018 22:19
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,900	7,500	µg/Kg-dry	1	12/19/2018 05:31
Surr: Toluene-d8	*85.6*			*70-130*	*%REC*	1	12/19/2018 05:31
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **WH**
1,1,1-Trichloroethane	U		20	45	µg/Kg-dry	1	12/19/2018 18:29
1,1,2,2-Tetrachloroethane	U		20	45	µg/Kg-dry	1	12/19/2018 18:29
1,1,2-Trichloroethane	U		19	45	µg/Kg-dry	1	12/19/2018 18:29
1,1,2-Trichlorotrifluoroethane	U		28	45	µg/Kg-dry	1	12/19/2018 18:29
1,1-Dichloroethane	U		16	45	µg/Kg-dry	1	12/19/2018 18:29
1,1-Dichloroethene	U		15	45	µg/Kg-dry	1	12/19/2018 18:29
1,2,3-Trichlorobenzene	U		21	45	µg/Kg-dry	1	12/19/2018 18:29
1,2,4-Trichlorobenzene	U		16	45	µg/Kg-dry	1	12/19/2018 18:29
1,2-Dibromo-3-chloropropane	U		41	150	µg/Kg-dry	1	12/19/2018 18:29
1,2-Dibromoethane	U		13	45	µg/Kg-dry	1	12/19/2018 18:29
1,2-Dichlorobenzene	U		17	45	µg/Kg-dry	1	12/19/2018 18:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (0-2)
Collection Date: 12/10/2018 03:35 PM

Work Order: 1812740
Lab ID: 1812740-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		19	45	µg/Kg-dry	1	12/19/2018 18:29
1,2-Dichloropropane	U		7.9	45	µg/Kg-dry	1	12/19/2018 18:29
1,3-Dichlorobenzene	U		15	45	µg/Kg-dry	1	12/19/2018 18:29
1,4-Dichlorobenzene	U		11	45	µg/Kg-dry	1	12/19/2018 18:29
2-Butanone	U		37	300	µg/Kg-dry	1	12/19/2018 18:29
2-Hexanone	U		22	45	µg/Kg-dry	1	12/19/2018 18:29
4-Methyl-2-pentanone	U		21	45	µg/Kg-dry	1	12/19/2018 18:29
Acetone	U		47	150	µg/Kg-dry	1	12/19/2018 18:29
Benzene	U		7.7	45	µg/Kg-dry	1	12/19/2018 18:29
Bromochloromethane	U		23	45	µg/Kg-dry	1	12/19/2018 18:29
Bromodichloromethane	U		25	45	µg/Kg-dry	1	12/19/2018 18:29
Bromoform	U		19	45	µg/Kg-dry	1	12/19/2018 18:29
Bromomethane	U		86	150	µg/Kg-dry	1	12/19/2018 18:29
Carbon disulfide	U		23	45	µg/Kg-dry	1	12/19/2018 18:29
Carbon tetrachloride	U		18	45	µg/Kg-dry	1	12/19/2018 18:29
Chlorobenzene	U		15	45	µg/Kg-dry	1	12/19/2018 18:29
Chloroethane	U		16	150	µg/Kg-dry	1	12/19/2018 18:29
Chloroform	U		16	45	µg/Kg-dry	1	12/19/2018 18:29
Chloromethane	U		38	150	µg/Kg-dry	1	12/19/2018 18:29
cis-1,2-Dichloroethene	U		14	45	µg/Kg-dry	1	12/19/2018 18:29
cis-1,3-Dichloropropene	U		17	45	µg/Kg-dry	1	12/19/2018 18:29
Cyclohexane	U		15	45	µg/Kg-dry	1	12/19/2018 18:29
Dibromochloromethane	U		25	45	µg/Kg-dry	1	12/19/2018 18:29
Dichlorodifluoromethane	U		9.4	45	µg/Kg-dry	1	12/19/2018 18:29
Ethylbenzene	U		9.5	45	µg/Kg-dry	1	12/19/2018 18:29
Isopropylbenzene	U		14	45	µg/Kg-dry	1	12/19/2018 18:29
m,p-Xylene	U		21	90	µg/Kg-dry	1	12/19/2018 18:29
Methyl acetate	**110**	J	**20**	**300**	**µg/Kg-dry**	1	12/19/2018 18:29
Methyl tert-butyl ether	U		13	45	µg/Kg-dry	1	12/19/2018 18:29
Methylcyclohexane	U		17	45	µg/Kg-dry	1	12/19/2018 18:29
Methylene chloride	U		19	45	µg/Kg-dry	1	12/19/2018 18:29
o-Xylene	U		17	45	µg/Kg-dry	1	12/19/2018 18:29
Styrene	U		18	45	µg/Kg-dry	1	12/19/2018 18:29
Tetrachloroethene	U		13	45	µg/Kg-dry	1	12/19/2018 18:29
Toluene	U		12	45	µg/Kg-dry	1	12/19/2018 18:29
trans-1,2-Dichloroethene	U		17	45	µg/Kg-dry	1	12/19/2018 18:29
trans-1,3-Dichloropropene	U		25	45	µg/Kg-dry	1	12/19/2018 18:29
Trichloroethene	U		20	45	µg/Kg-dry	1	12/19/2018 18:29
Trichlorofluoromethane	U		23	45	µg/Kg-dry	1	12/19/2018 18:29
Vinyl chloride	U		9.7	45	µg/Kg-dry	1	12/19/2018 18:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (0-2)
Collection Date: 12/10/2018 03:35 PM

Work Order: 1812740
Lab ID: 1812740-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*109*			*70-130*	*%REC*	1	12/19/2018 18:29
Surr: 4-Bromofluorobenzene	*99.8*			*70-130*	*%REC*	1	12/19/2018 18:29
Surr: Dibromofluoromethane	*98.7*			*70-130*	*%REC*	1	12/19/2018 18:29
Surr: Toluene-d8	*101*			*70-130*	*%REC*	1	12/19/2018 18:29
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**20**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (8-10)
Collection Date: 12/10/2018 03:55 PM

Work Order: 1812740
Lab ID: 1812740-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	81	µg/Kg-dry	1	12/21/2018 17:40
Aroclor 1221	U		28	81	µg/Kg-dry	1	12/21/2018 17:40
Aroclor 1232	U		28	81	µg/Kg-dry	1	12/21/2018 17:40
Aroclor 1242	U		28	81	µg/Kg-dry	1	12/21/2018 17:40
Aroclor 1248	U		28	81	µg/Kg-dry	1	12/21/2018 17:40
Aroclor 1254	U		23	81	µg/Kg-dry	1	12/21/2018 17:40
Aroclor 1260	U		23	81	µg/Kg-dry	1	12/21/2018 17:40
Aroclor 1262	U		23	81	µg/Kg-dry	1	12/21/2018 17:40
Aroclor 1268	U		23	81	µg/Kg-dry	1	12/21/2018 17:40
Surr: Decachlorobiphenyl	*96.0*			*40-140*	*%REC*	1	12/21/2018 17:40
Surr: Tetrachloro-m-xylene	*89.5*			*45-124*	*%REC*	1	12/21/2018 17:40
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/21/18		Analyst: **RSH**
Mercury	**0.046**		**0.0022**	**0.022**	**mg/Kg-dry**	1	12/21/2018 21:53
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**13**		**0.13**	**0.49**	**mg/Kg-dry**	1	12/21/2018 03:42
Barium	**120**		**0.20**	**0.49**	**mg/Kg-dry**	1	12/21/2018 03:42
Cadmium	U		0.047	0.99	mg/Kg-dry	1	12/21/2018 03:42
Chromium	**22**		**0.028**	**0.49**	**mg/Kg-dry**	1	12/21/2018 03:42
Lead	**14**		**0.10**	**0.49**	**mg/Kg-dry**	1	12/21/2018 03:42
Selenium	**0.81**	J	**0.28**	**0.99**	**mg/Kg-dry**	1	12/21/2018 03:42
Silver	U		0.061	0.49	mg/Kg-dry	1	12/21/2018 03:42
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.8	6.1	mg/Kg-dry	1	12/22/2018 08:08
ORO (C21-C35)	U		2.0	6.1	mg/Kg-dry	1	12/22/2018 08:08
Surr: 4-Terphenyl-d14	*51.8*			*25-137*	*%REC*	1	12/22/2018 08:08
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.5	40	µg/Kg-dry	1	12/24/2018 22:39
1,2,4,5-Tetrachlorobenzene	U		31	400	µg/Kg-dry	1	12/24/2018 22:39
1,4-Dioxane	U		29	200	µg/Kg-dry	1	12/24/2018 22:39
2,2`-Oxybis(1-chloropropane)	U		9.4	40	µg/Kg-dry	1	12/24/2018 22:39
2,3,4,6-Tetrachlorophenol	U		10	81	µg/Kg-dry	1	12/24/2018 22:39
2,4,5-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 22:39
2,4,6-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/24/2018 22:39
2,4-Dichlorophenol	U		8.5	40	µg/Kg-dry	1	12/24/2018 22:39
2,4-Dimethylphenol	U		8.2	40	µg/Kg-dry	1	12/24/2018 22:39
2,4-Dinitrophenol	U		22	40	µg/Kg-dry	1	12/24/2018 22:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (8-10)
Collection Date: 12/10/2018 03:55 PM

Work Order: 1812740
Lab ID: 1812740-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	40	µg/Kg-dry	1	12/24/2018 22:39
2,6-Dinitrotoluene	U		6.6	40	µg/Kg-dry	1	12/24/2018 22:39
2-Chloronaphthalene	U		5.6	8.1	µg/Kg-dry	1	12/24/2018 22:39
2-Chlorophenol	U		13	40	µg/Kg-dry	1	12/24/2018 22:39
2-Methylnaphthalene	U		4.1	8.1	µg/Kg-dry	1	12/24/2018 22:39
2-Methylphenol	U		11	40	µg/Kg-dry	1	12/24/2018 22:39
2-Nitroaniline	U		9.2	40	µg/Kg-dry	1	12/24/2018 22:39
2-Nitrophenol	U		11	40	µg/Kg-dry	1	12/24/2018 22:39
3&4-Methylphenol	U		8.1	40	µg/Kg-dry	1	12/24/2018 22:39
3,3´-Dichlorobenzidine	U		6.0	200	µg/Kg-dry	1	12/24/2018 22:39
3-Nitroaniline	U		9.2	40	µg/Kg-dry	1	12/24/2018 22:39
4,6-Dinitro-2-methylphenol	U		10	40	µg/Kg-dry	1	12/24/2018 22:39
4-Bromophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 22:39
4-Chloro-3-methylphenol	U		11	40	µg/Kg-dry	1	12/24/2018 22:39
4-Chloroaniline	U		6.4	81	µg/Kg-dry	1	12/24/2018 22:39
4-Chlorophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/24/2018 22:39
4-Nitroaniline	U		62	200	µg/Kg-dry	1	12/24/2018 22:39
4-Nitrophenol	U		36	40	µg/Kg-dry	1	12/24/2018 22:39
Acenaphthene	U		5.8	8.1	µg/Kg-dry	1	12/24/2018 22:39
Acenaphthylene	U		7.0	8.1	µg/Kg-dry	1	12/24/2018 22:39
Acetophenone	U		6.3	40	µg/Kg-dry	1	12/24/2018 22:39
Anthracene	U		5.7	8.1	µg/Kg-dry	1	12/24/2018 22:39
Atrazine	U		6.3	40	µg/Kg-dry	1	12/24/2018 22:39
Benzaldehyde	U		62	81	µg/Kg-dry	1	12/24/2018 22:39
Benzo(a)anthracene	U		7.0	8.1	µg/Kg-dry	1	12/24/2018 22:39
Benzo(a)pyrene	U		4.9	8.1	µg/Kg-dry	1	12/24/2018 22:39
Benzo(b)fluoranthene	U		6.0	8.1	µg/Kg-dry	1	12/24/2018 22:39
Benzo(g,h,i)perylene	U		6.2	8.1	µg/Kg-dry	1	12/24/2018 22:39
Benzo(k)fluoranthene	U		6.1	8.1	µg/Kg-dry	1	12/24/2018 22:39
Bis(2-chloroethoxy)methane	U		3.9	40	µg/Kg-dry	1	12/24/2018 22:39
Bis(2-chloroethyl)ether	U		11	40	µg/Kg-dry	1	12/24/2018 22:39
Bis(2-ethylhexyl)phthalate	U		7.0	40	µg/Kg-dry	1	12/24/2018 22:39
Butyl benzyl phthalate	U		6.8	40	µg/Kg-dry	1	12/24/2018 22:39
Caprolactam	U		14	40	µg/Kg-dry	1	12/24/2018 22:39
Carbazole	U		4.3	40	µg/Kg-dry	1	12/24/2018 22:39
Chrysene	U		6.5	8.1	µg/Kg-dry	1	12/24/2018 22:39
Dibenzo(a,h)anthracene	U		4.3	8.1	µg/Kg-dry	1	12/24/2018 22:39
Dibenzofuran	U		5.9	40	µg/Kg-dry	1	12/24/2018 22:39
Diethyl phthalate	U		6.2	40	µg/Kg-dry	1	12/24/2018 22:39
Dimethyl phthalate	U		7.8	40	µg/Kg-dry	1	12/24/2018 22:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (8-10)
Collection Date: 12/10/2018 03:55 PM

Work Order: 1812740
Lab ID: 1812740-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.4	40	µg/Kg-dry	1	12/24/2018 22:39
Di-n-octyl phthalate	U		7.7	40	µg/Kg-dry	1	12/24/2018 22:39
Fluoranthene	U		3.9	8.1	µg/Kg-dry	1	12/24/2018 22:39
Fluorene	U		5.8	8.1	µg/Kg-dry	1	12/24/2018 22:39
Hexachlorobenzene	U		12	40	µg/Kg-dry	1	12/24/2018 22:39
Hexachlorobutadiene	U		22	40	µg/Kg-dry	1	12/24/2018 22:39
Hexachlorocyclopentadiene	U		14	40	µg/Kg-dry	1	12/24/2018 22:39
Hexachloroethane	U		17	40	µg/Kg-dry	1	12/24/2018 22:39
Indeno(1,2,3-cd)pyrene	U		5.6	8.1	µg/Kg-dry	1	12/24/2018 22:39
Isophorone	U		7.9	200	µg/Kg-dry	1	12/24/2018 22:39
Naphthalene	U		5.1	8.1	µg/Kg-dry	1	12/24/2018 22:39
Nitrobenzene	U		14	200	µg/Kg-dry	1	12/24/2018 22:39
N-Nitrosodi-n-propylamine	U		6.6	40	µg/Kg-dry	1	12/24/2018 22:39
N-Nitrosodiphenylamine	U		3.9	40	µg/Kg-dry	1	12/24/2018 22:39
Pentachlorophenol	U		15	40	µg/Kg-dry	1	12/24/2018 22:39
Phenanthrene	U		3.7	8.1	µg/Kg-dry	1	12/24/2018 22:39
Phenol	U		10	40	µg/Kg-dry	1	12/24/2018 22:39
Pyrene	U		1.5	8.1	µg/Kg-dry	1	12/24/2018 22:39
Surr: 2,4,6-Tribromophenol	*48.1*			*38-92*	*%REC*	1	12/24/2018 22:39
Surr: 2-Fluorobiphenyl	*58.6*			*44-107*	*%REC*	1	12/24/2018 22:39
Surr: 2-Fluorophenol	*52.5*			*37-109*	*%REC*	1	12/24/2018 22:39
Surr: 4-Terphenyl-d14	*52.5*			*52-123*	*%REC*	1	12/24/2018 22:39
Surr: Nitrobenzene-d5	*53.3*			*41-94*	*%REC*	1	12/24/2018 22:39
Surr: Phenol-d6	*45.1*			*28-111*	*%REC*	1	12/24/2018 22:39
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,800	7,200	µg/Kg-dry	1	12/19/2018 05:46
Surr: Toluene-d8	*87.2*			*70-130*	*%REC*	1	12/19/2018 05:46
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **EMR**
1,1,1-Trichloroethane	U		0.75	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,1,2,2-Tetrachloroethane	U		0.26	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,1,2-Trichloroethane	U		0.37	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,1,2-Trichlorotrifluoroethane	U		1.0	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,1-Dichloroethane	U		2.0	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,1-Dichloroethene	U		0.93	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,2,3-Trichlorobenzene	U		0.59	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,2,4-Trichlorobenzene	U		0.69	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,2-Dibromo-3-chloropropane	U		1.3	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,2-Dibromoethane	U		0.34	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,2-Dichlorobenzene	U		0.60	4.7	µg/Kg-dry	0.776	12/20/2018 18:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (8-10)
Collection Date: 12/10/2018 03:55 PM

Work Order: 1812740
Lab ID: 1812740-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		0.34	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,2-Dichloropropane	U		0.42	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,3-Dichlorobenzene	U		0.49	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
1,4-Dichlorobenzene	U		0.34	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
2-Butanone	U		1.8	9.5	µg/Kg-dry	0.776	12/20/2018 18:02
2-Hexanone	U		0.93	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
4-Methyl-2-pentanone	U		0.77	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Acetone	**21**		**2.0**	**9.5**	**µg/Kg-dry**	0.776	12/20/2018 18:02
Benzene	U		0.49	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Bromochloromethane	U		0.46	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Bromodichloromethane	U		0.30	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Bromoform	U		0.29	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Bromomethane	U		0.68	9.5	µg/Kg-dry	0.776	12/20/2018 18:02
Carbon disulfide	U		0.53	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Carbon tetrachloride	U		0.79	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Chlorobenzene	U		0.30	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Chloroethane	U		0.60	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Chloroform	U		0.28	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Chloromethane	U		0.44	9.5	µg/Kg-dry	0.776	12/20/2018 18:02
cis-1,2-Dichloroethene	U		0.46	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
cis-1,3-Dichloropropene	U		0.25	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Cyclohexane	U		2.9	9.5	µg/Kg-dry	0.776	12/20/2018 18:02
Dibromochloromethane	U		0.45	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Dichlorodifluoromethane	U		1.0	9.5	µg/Kg-dry	0.776	12/20/2018 18:02
Ethylbenzene	U		0.57	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Isopropylbenzene	U		0.61	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
m,p-Xylene	U		1.2	2.4	µg/Kg-dry	0.776	12/20/2018 18:02
Methyl acetate	U		1.1	9.5	µg/Kg-dry	0.776	12/20/2018 18:02
Methyl tert-butyl ether	U		0.22	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Methylcyclohexane	U		1.4	9.5	µg/Kg-dry	0.776	12/20/2018 18:02
Methylene chloride	U		0.82	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
o-Xylene	U		0.45	2.4	µg/Kg-dry	0.776	12/20/2018 18:02
Styrene	U		0.38	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Tetrachloroethene	U		0.84	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Toluene	U		0.53	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
trans-1,2-Dichloroethene	U		0.38	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
trans-1,3-Dichloropropene	U		0.27	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Trichloroethene	U		0.68	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Trichlorofluoromethane	U		0.67	4.7	µg/Kg-dry	0.776	12/20/2018 18:02
Vinyl chloride	U		0.66	4.7	µg/Kg-dry	0.776	12/20/2018 18:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-6 (8-10)
Collection Date: 12/10/2018 03:55 PM

Work Order: 1812740
Lab ID: 1812740-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*131*			*83-132*	*%REC*	0.776	12/20/2018 18:02
Surr: 4-Bromofluorobenzene	*88.4*			*83-111*	*%REC*	0.776	12/20/2018 18:02
Surr: Dibromofluoromethane	*64.0*	S		*77-125*	*%REC*	0.776	12/20/2018 18:02
Surr: Toluene-d8	*91.6*			*86-108*	*%REC*	0.776	12/20/2018 18:02
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**18**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (0-2)
Collection Date: 12/11/2018 09:15 AM

Work Order: 1812740
Lab ID: 1812740-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		27	80	µg/Kg-dry	1	12/21/2018 17:54
Aroclor 1221	U		27	80	µg/Kg-dry	1	12/21/2018 17:54
Aroclor 1232	U		27	80	µg/Kg-dry	1	12/21/2018 17:54
Aroclor 1242	U		27	80	µg/Kg-dry	1	12/21/2018 17:54
Aroclor 1248	U		27	80	µg/Kg-dry	1	12/21/2018 17:54
Aroclor 1254	U		22	80	µg/Kg-dry	1	12/21/2018 17:54
Aroclor 1260	U		22	80	µg/Kg-dry	1	12/21/2018 17:54
Aroclor 1262	U		22	80	µg/Kg-dry	1	12/21/2018 17:54
Aroclor 1268	U		22	80	µg/Kg-dry	1	12/21/2018 17:54
Surr: Decachlorobiphenyl	*70.8*			*40-140*	*%REC*	1	12/21/2018 17:54
Surr: Tetrachloro-m-xylene	*76.3*			*45-124*	*%REC*	1	12/21/2018 17:54
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/21/18		Analyst: **RSH**
Mercury	**0.038**		**0.0019**	**0.019**	**mg/Kg-dry**	1	12/21/2018 21:56
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**5.5**		**0.13**	**0.49**	**mg/Kg-dry**	1	12/21/2018 03:48
Barium	**150**		**0.19**	**0.49**	**mg/Kg-dry**	1	12/21/2018 03:48
Cadmium	**0.070**	J	**0.047**	**0.97**	**mg/Kg-dry**	1	12/21/2018 03:48
Chromium	**12**		**0.027**	**0.49**	**mg/Kg-dry**	1	12/21/2018 03:48
Lead	**10**		**0.10**	**0.49**	**mg/Kg-dry**	1	12/21/2018 03:48
Selenium	**0.66**	J	**0.27**	**0.97**	**mg/Kg-dry**	1	12/21/2018 03:48
Silver	U		0.060	0.49	mg/Kg-dry	1	12/21/2018 03:48
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.9	6.3	mg/Kg-dry	1	12/22/2018 08:35
ORO (C21-C35)	U		2.1	6.3	mg/Kg-dry	1	12/22/2018 08:35
Surr: 4-Terphenyl-d14	*58.1*			*25-137*	*%REC*	1	12/22/2018 08:35
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.4	39	µg/Kg-dry	1	12/24/2018 22:59
1,2,4,5-Tetrachlorobenzene	U		31	400	µg/Kg-dry	1	12/24/2018 22:59
1,4-Dioxane	U		28	200	µg/Kg-dry	1	12/24/2018 22:59
2,2`-Oxybis(1-chloropropane)	U		9.3	39	µg/Kg-dry	1	12/24/2018 22:59
2,3,4,6-Tetrachlorophenol	U		10	80	µg/Kg-dry	1	12/24/2018 22:59
2,4,5-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/24/2018 22:59
2,4,6-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/24/2018 22:59
2,4-Dichlorophenol	U		8.4	39	µg/Kg-dry	1	12/24/2018 22:59
2,4-Dimethylphenol	U		8.1	39	µg/Kg-dry	1	12/24/2018 22:59
2,4-Dinitrophenol	U		21	39	µg/Kg-dry	1	12/24/2018 22:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (0-2)
Collection Date: 12/11/2018 09:15 AM

Work Order: 1812740
Lab ID: 1812740-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	39	µg/Kg-dry	1	12/24/2018 22:59
2,6-Dinitrotoluene	U		6.6	39	µg/Kg-dry	1	12/24/2018 22:59
2-Chloronaphthalene	U		5.6	7.9	µg/Kg-dry	1	12/24/2018 22:59
2-Chlorophenol	U		13	39	µg/Kg-dry	1	12/24/2018 22:59
2-Methylnaphthalene	U		4.0	7.9	µg/Kg-dry	1	12/24/2018 22:59
2-Methylphenol	U		11	39	µg/Kg-dry	1	12/24/2018 22:59
2-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/24/2018 22:59
2-Nitrophenol	U		11	39	µg/Kg-dry	1	12/24/2018 22:59
3&4-Methylphenol	U		8.0	39	µg/Kg-dry	1	12/24/2018 22:59
3,3´-Dichlorobenzidine	U		5.9	200	µg/Kg-dry	1	12/24/2018 22:59
3-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/24/2018 22:59
4,6-Dinitro-2-methylphenol	U		10	39	µg/Kg-dry	1	12/24/2018 22:59
4-Bromophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/24/2018 22:59
4-Chloro-3-methylphenol	U		11	39	µg/Kg-dry	1	12/24/2018 22:59
4-Chloroaniline	U		6.3	80	µg/Kg-dry	1	12/24/2018 22:59
4-Chlorophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/24/2018 22:59
4-Nitroaniline	U		62	200	µg/Kg-dry	1	12/24/2018 22:59
4-Nitrophenol	U		36	39	µg/Kg-dry	1	12/24/2018 22:59
Acenaphthene	U		5.7	7.9	µg/Kg-dry	1	12/24/2018 22:59
Acenaphthylene	U		6.9	7.9	µg/Kg-dry	1	12/24/2018 22:59
Acetophenone	U		6.2	39	µg/Kg-dry	1	12/24/2018 22:59
Anthracene	U		5.6	7.9	µg/Kg-dry	1	12/24/2018 22:59
Atrazine	U		6.3	39	µg/Kg-dry	1	12/24/2018 22:59
Benzaldehyde	U		61	80	µg/Kg-dry	1	12/24/2018 22:59
Benzo(a)anthracene	U		6.9	7.9	µg/Kg-dry	1	12/24/2018 22:59
Benzo(a)pyrene	U		4.9	7.9	µg/Kg-dry	1	12/24/2018 22:59
Benzo(b)fluoranthene	U		5.9	7.9	µg/Kg-dry	1	12/24/2018 22:59
Benzo(g,h,i)perylene	U		6.1	7.9	µg/Kg-dry	1	12/24/2018 22:59
Benzo(k)fluoranthene	U		6.0	7.9	µg/Kg-dry	1	12/24/2018 22:59
Bis(2-chloroethoxy)methane	U		3.8	39	µg/Kg-dry	1	12/24/2018 22:59
Bis(2-chloroethyl)ether	U		11	39	µg/Kg-dry	1	12/24/2018 22:59
Bis(2-ethylhexyl)phthalate	U		6.9	39	µg/Kg-dry	1	12/24/2018 22:59
Butyl benzyl phthalate	U		6.7	39	µg/Kg-dry	1	12/24/2018 22:59
Caprolactam	U		14	39	µg/Kg-dry	1	12/24/2018 22:59
Carbazole	U		4.3	39	µg/Kg-dry	1	12/24/2018 22:59
Chrysene	U		6.4	7.9	µg/Kg-dry	1	12/24/2018 22:59
Dibenzo(a,h)anthracene	U		4.3	7.9	µg/Kg-dry	1	12/24/2018 22:59
Dibenzofuran	U		5.8	39	µg/Kg-dry	1	12/24/2018 22:59
Diethyl phthalate	U		6.1	39	µg/Kg-dry	1	12/24/2018 22:59
Dimethyl phthalate	U		7.7	39	µg/Kg-dry	1	12/24/2018 22:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (0-2)
Collection Date: 12/11/2018 09:15 AM

Work Order: 1812740
Lab ID: 1812740-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.3	39	µg/Kg-dry	1	12/24/2018 22:59
Di-n-octyl phthalate	U		7.6	39	µg/Kg-dry	1	12/24/2018 22:59
Fluoranthene	U		3.8	7.9	µg/Kg-dry	1	12/24/2018 22:59
Fluorene	U		5.8	7.9	µg/Kg-dry	1	12/24/2018 22:59
Hexachlorobenzene	U		12	39	µg/Kg-dry	1	12/24/2018 22:59
Hexachlorobutadiene	U		22	39	µg/Kg-dry	1	12/24/2018 22:59
Hexachlorocyclopentadiene	U		14	39	µg/Kg-dry	1	12/24/2018 22:59
Hexachloroethane	U		16	39	µg/Kg-dry	1	12/24/2018 22:59
Indeno(1,2,3-cd)pyrene	U		5.5	7.9	µg/Kg-dry	1	12/24/2018 22:59
Isophorone	U		7.8	200	µg/Kg-dry	1	12/24/2018 22:59
Naphthalene	U		5.1	7.9	µg/Kg-dry	1	12/24/2018 22:59
Nitrobenzene	U		13	200	µg/Kg-dry	1	12/24/2018 22:59
N-Nitrosodi-n-propylamine	U		6.6	39	µg/Kg-dry	1	12/24/2018 22:59
N-Nitrosodiphenylamine	U		3.8	39	µg/Kg-dry	1	12/24/2018 22:59
Pentachlorophenol	U		15	39	µg/Kg-dry	1	12/24/2018 22:59
Phenanthrene	U		3.7	7.9	µg/Kg-dry	1	12/24/2018 22:59
Phenol	U		9.9	39	µg/Kg-dry	1	12/24/2018 22:59
Pyrene	U		1.4	7.9	µg/Kg-dry	1	12/24/2018 22:59
Surr: 2,4,6-Tribromophenol	*59.2*			*38-92*	*%REC*	1	12/24/2018 22:59
Surr: 2-Fluorobiphenyl	*73.9*			*44-107*	*%REC*	1	12/24/2018 22:59
Surr: 2-Fluorophenol	*52.3*			*37-109*	*%REC*	1	12/24/2018 22:59
Surr: 4-Terphenyl-d14	*62.4*			*52-123*	*%REC*	1	12/24/2018 22:59
Surr: Nitrobenzene-d5	*70.2*			*41-94*	*%REC*	1	12/24/2018 22:59
Surr: Phenol-d6	*47.9*			*28-111*	*%REC*	1	12/24/2018 22:59
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,900	7,700	µg/Kg-dry	1	12/19/2018 06:02
Surr: Toluene-d8	*89.1*			*70-130*	*%REC*	1	12/19/2018 06:02
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		21	46	µg/Kg-dry	1	12/21/2018 17:31
1,1,2,2-Tetrachloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:31
1,1,2-Trichloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:31
1,1,2-Trichlorotrifluoroethane	U		29	46	µg/Kg-dry	1	12/21/2018 17:31
1,1-Dichloroethane	U		17	46	µg/Kg-dry	1	12/21/2018 17:31
1,1-Dichloroethene	U		15	46	µg/Kg-dry	1	12/21/2018 17:31
1,2,3-Trichlorobenzene	U		22	46	µg/Kg-dry	1	12/21/2018 17:31
1,2,4-Trichlorobenzene	U		16	46	µg/Kg-dry	1	12/21/2018 17:31
1,2-Dibromo-3-chloropropane	U		42	150	µg/Kg-dry	1	12/21/2018 17:31
1,2-Dibromoethane	U		13	46	µg/Kg-dry	1	12/21/2018 17:31
1,2-Dichlorobenzene	U		17	46	µg/Kg-dry	1	12/21/2018 17:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (0-2)
Collection Date: 12/11/2018 09:15 AM

Work Order: 1812740
Lab ID: 1812740-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 17:31
1,2-Dichloropropane	U		8.0	46	µg/Kg-dry	1	12/21/2018 17:31
1,3-Dichlorobenzene	U		15	46	µg/Kg-dry	1	12/21/2018 17:31
1,4-Dichlorobenzene	U		11	46	µg/Kg-dry	1	12/21/2018 17:31
2-Butanone	U		38	310	µg/Kg-dry	1	12/21/2018 17:31
2-Hexanone	U		23	46	µg/Kg-dry	1	12/21/2018 17:31
4-Methyl-2-pentanone	U		22	46	µg/Kg-dry	1	12/21/2018 17:31
Acetone	U		48	150	µg/Kg-dry	1	12/21/2018 17:31
Benzene	U		7.9	46	µg/Kg-dry	1	12/21/2018 17:31
Bromochloromethane	U		23	46	µg/Kg-dry	1	12/21/2018 17:31
Bromodichloromethane	U		26	46	µg/Kg-dry	1	12/21/2018 17:31
Bromoform	U		19	46	µg/Kg-dry	1	12/21/2018 17:31
Bromomethane	U		88	150	µg/Kg-dry	1	12/21/2018 17:31
Carbon disulfide	U		24	46	µg/Kg-dry	1	12/21/2018 17:31
Carbon tetrachloride	U		18	46	µg/Kg-dry	1	12/21/2018 17:31
Chlorobenzene	U		15	46	µg/Kg-dry	1	12/21/2018 17:31
Chloroethane	U		16	150	µg/Kg-dry	1	12/21/2018 17:31
Chloroform	U		17	46	µg/Kg-dry	1	12/21/2018 17:31
Chloromethane	U		38	150	µg/Kg-dry	1	12/21/2018 17:31
cis-1,2-Dichloroethene	U		14	46	µg/Kg-dry	1	12/21/2018 17:31
cis-1,3-Dichloropropene	U		17	46	µg/Kg-dry	1	12/21/2018 17:31
Cyclohexane	U		15	46	µg/Kg-dry	1	12/21/2018 17:31
Dibromochloromethane	U		26	46	µg/Kg-dry	1	12/21/2018 17:31
Dichlorodifluoromethane	U		9.6	46	µg/Kg-dry	1	12/21/2018 17:31
Ethylbenzene	U		9.7	46	µg/Kg-dry	1	12/21/2018 17:31
Isopropylbenzene	U		14	46	µg/Kg-dry	1	12/21/2018 17:31
m,p-Xylene	U		22	92	µg/Kg-dry	1	12/21/2018 17:31
Methyl acetate	**240**	J	**21**	**310**	**µg/Kg-dry**	1	12/21/2018 17:31
Methyl tert-butyl ether	U		13	46	µg/Kg-dry	1	12/21/2018 17:31
Methylcyclohexane	U		18	46	µg/Kg-dry	1	12/21/2018 17:31
Methylene chloride	U		20	46	µg/Kg-dry	1	12/21/2018 17:31
o-Xylene	U		18	46	µg/Kg-dry	1	12/21/2018 17:31
Styrene	U		18	46	µg/Kg-dry	1	12/21/2018 17:31
Tetrachloroethene	U		13	46	µg/Kg-dry	1	12/21/2018 17:31
Toluene	U		13	46	µg/Kg-dry	1	12/21/2018 17:31
trans-1,2-Dichloroethene	U		17	46	µg/Kg-dry	1	12/21/2018 17:31
trans-1,3-Dichloropropene	U		26	46	µg/Kg-dry	1	12/21/2018 17:31
Trichloroethene	U		21	46	µg/Kg-dry	1	12/21/2018 17:31
Trichlorofluoromethane	U		23	46	µg/Kg-dry	1	12/21/2018 17:31
Vinyl chloride	U		9.9	46	µg/Kg-dry	1	12/21/2018 17:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (0-2)
Collection Date: 12/11/2018 09:15 AM

Work Order: 1812740
Lab ID: 1812740-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*98.3*			*70-130*	*%REC*	1	12/21/2018 17:31
Surr: 4-Bromofluorobenzene	*89.8*			*70-130*	*%REC*	1	12/21/2018 17:31
Surr: Dibromofluoromethane	*97.8*			*70-130*	*%REC*	1	12/21/2018 17:31
Surr: Toluene-d8	*95.4*			*70-130*	*%REC*	1	12/21/2018 17:31
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**21**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (4-6)
Collection Date: 12/11/2018 09:35 AM

Work Order: 1812740
Lab ID: 1812740-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		26	75	µg/Kg-dry	1	12/21/2018 18:08
Aroclor 1221	U		26	75	µg/Kg-dry	1	12/21/2018 18:08
Aroclor 1232	U		26	75	µg/Kg-dry	1	12/21/2018 18:08
Aroclor 1242	U		26	75	µg/Kg-dry	1	12/21/2018 18:08
Aroclor 1248	U		26	75	µg/Kg-dry	1	12/21/2018 18:08
Aroclor 1254	U		21	75	µg/Kg-dry	1	12/21/2018 18:08
Aroclor 1260	U		21	75	µg/Kg-dry	1	12/21/2018 18:08
Aroclor 1262	U		21	75	µg/Kg-dry	1	12/21/2018 18:08
Aroclor 1268	U		21	75	µg/Kg-dry	1	12/21/2018 18:08
Surr: Decachlorobiphenyl	*72.7*			*40-140*	*%REC*	1	12/21/2018 18:08
Surr: Tetrachloro-m-xylene	*65.6*			*45-124*	*%REC*	1	12/21/2018 18:08
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/21/18		Analyst: **RSH**
Mercury	**0.047**		**0.0019**	**0.019**	**mg/Kg-dry**	1	12/21/2018 21:58
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**10**		**0.11**	**0.44**	**mg/Kg-dry**	1	12/21/2018 03:54
Barium	**230**		**0.18**	**0.44**	**mg/Kg-dry**	1	12/21/2018 03:54
Cadmium	**0.083**	J	**0.042**	**0.88**	**mg/Kg-dry**	1	12/21/2018 03:54
Chromium	**17**		**0.025**	**0.44**	**mg/Kg-dry**	1	12/21/2018 03:54
Lead	**15**		**0.094**	**0.44**	**mg/Kg-dry**	1	12/21/2018 03:54
Selenium	**0.84**	J	**0.25**	**0.88**	**mg/Kg-dry**	1	12/21/2018 03:54
Silver	U		0.055	0.44	mg/Kg-dry	1	12/21/2018 03:54
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.8	5.9	mg/Kg-dry	1	12/22/2018 09:02
ORO (C21-C35)	U		2.0	5.9	mg/Kg-dry	1	12/22/2018 09:02
Surr: 4-Terphenyl-d14	*61.0*			*25-137*	*%REC*	1	12/22/2018 09:02
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.3	39	µg/Kg-dry	1	12/25/2018 02:01
1,2,4,5-Tetrachlorobenzene	U		30	390	µg/Kg-dry	1	12/25/2018 02:01
1,4-Dioxane	U		28	190	µg/Kg-dry	1	12/25/2018 02:01
2,2`-Oxybis(1-chloropropane)	U		9.1	39	µg/Kg-dry	1	12/25/2018 02:01
2,3,4,6-Tetrachlorophenol	U		10	78	µg/Kg-dry	1	12/25/2018 02:01
2,4,5-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/25/2018 02:01
2,4,6-Trichlorophenol	U		10	39	µg/Kg-dry	1	12/25/2018 02:01
2,4-Dichlorophenol	U		8.2	39	µg/Kg-dry	1	12/25/2018 02:01
2,4-Dimethylphenol	U		8.0	39	µg/Kg-dry	1	12/25/2018 02:01
2,4-Dinitrophenol	U		21	39	µg/Kg-dry	1	12/25/2018 02:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (4-6)
Collection Date: 12/11/2018 09:35 AM

Work Order: 1812740
Lab ID: 1812740-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	39	µg/Kg-dry	1	12/25/2018 02:01
2,6-Dinitrotoluene	U		6.4	39	µg/Kg-dry	1	12/25/2018 02:01
2-Chloronaphthalene	U		5.4	7.8	µg/Kg-dry	1	12/25/2018 02:01
2-Chlorophenol	U		12	39	µg/Kg-dry	1	12/25/2018 02:01
2-Methylnaphthalene	U		4.0	7.8	µg/Kg-dry	1	12/25/2018 02:01
2-Methylphenol	U		11	39	µg/Kg-dry	1	12/25/2018 02:01
2-Nitroaniline	U		8.9	39	µg/Kg-dry	1	12/25/2018 02:01
2-Nitrophenol	U		11	39	µg/Kg-dry	1	12/25/2018 02:01
3&4-Methylphenol	U		7.8	39	µg/Kg-dry	1	12/25/2018 02:01
3,3´-Dichlorobenzidine	U		5.8	190	µg/Kg-dry	1	12/25/2018 02:01
3-Nitroaniline	U		8.9	39	µg/Kg-dry	1	12/25/2018 02:01
4,6-Dinitro-2-methylphenol	U		9.8	39	µg/Kg-dry	1	12/25/2018 02:01
4-Bromophenyl phenyl ether	U		10	39	µg/Kg-dry	1	12/25/2018 02:01
4-Chloro-3-methylphenol	U		11	39	µg/Kg-dry	1	12/25/2018 02:01
4-Chloroaniline	U		6.2	78	µg/Kg-dry	1	12/25/2018 02:01
4-Chlorophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/25/2018 02:01
4-Nitroaniline	U		60	190	µg/Kg-dry	1	12/25/2018 02:01
4-Nitrophenol	U		35	39	µg/Kg-dry	1	12/25/2018 02:01
Acenaphthene	U		5.6	7.8	µg/Kg-dry	1	12/25/2018 02:01
Acenaphthylene	U		6.7	7.8	µg/Kg-dry	1	12/25/2018 02:01
Acetophenone	U		6.1	39	µg/Kg-dry	1	12/25/2018 02:01
Anthracene	U		5.5	7.8	µg/Kg-dry	1	12/25/2018 02:01
Atrazine	U		6.1	39	µg/Kg-dry	1	12/25/2018 02:01
Benzaldehyde	U		60	78	µg/Kg-dry	1	12/25/2018 02:01
Benzo(a)anthracene	U		6.7	7.8	µg/Kg-dry	1	12/25/2018 02:01
Benzo(a)pyrene	U		4.8	7.8	µg/Kg-dry	1	12/25/2018 02:01
Benzo(b)fluoranthene	U		5.8	7.8	µg/Kg-dry	1	12/25/2018 02:01
Benzo(g,h,i)perylene	U		6.0	7.8	µg/Kg-dry	1	12/25/2018 02:01
Benzo(k)fluoranthene	U		5.9	7.8	µg/Kg-dry	1	12/25/2018 02:01
Bis(2-chloroethoxy)methane	U		3.7	39	µg/Kg-dry	1	12/25/2018 02:01
Bis(2-chloroethyl)ether	U		11	39	µg/Kg-dry	1	12/25/2018 02:01
Bis(2-ethylhexyl)phthalate	U		6.7	39	µg/Kg-dry	1	12/25/2018 02:01
Butyl benzyl phthalate	U		6.6	39	µg/Kg-dry	1	12/25/2018 02:01
Caprolactam	U		13	39	µg/Kg-dry	1	12/25/2018 02:01
Carbazole	U		4.2	39	µg/Kg-dry	1	12/25/2018 02:01
Chrysene	U		6.3	7.8	µg/Kg-dry	1	12/25/2018 02:01
Dibenzo(a,h)anthracene	U		4.2	7.8	µg/Kg-dry	1	12/25/2018 02:01
Dibenzofuran	U		5.7	39	µg/Kg-dry	1	12/25/2018 02:01
Diethyl phthalate	U		6.0	39	µg/Kg-dry	1	12/25/2018 02:01
Dimethyl phthalate	U		7.6	39	µg/Kg-dry	1	12/25/2018 02:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (4-6)
Collection Date: 12/11/2018 09:35 AM

Work Order: 1812740
Lab ID: 1812740-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.1	39	µg/Kg-dry	1	12/25/2018 02:01
Di-n-octyl phthalate	U		7.5	39	µg/Kg-dry	1	12/25/2018 02:01
Fluoranthene	U		3.7	7.8	µg/Kg-dry	1	12/25/2018 02:01
Fluorene	U		5.7	7.8	µg/Kg-dry	1	12/25/2018 02:01
Hexachlorobenzene	U		11	39	µg/Kg-dry	1	12/25/2018 02:01
Hexachlorobutadiene	U		21	39	µg/Kg-dry	1	12/25/2018 02:01
Hexachlorocyclopentadiene	U		13	39	µg/Kg-dry	1	12/25/2018 02:01
Hexachloroethane	U		16	39	µg/Kg-dry	1	12/25/2018 02:01
Indeno(1,2,3-cd)pyrene	U		5.4	7.8	µg/Kg-dry	1	12/25/2018 02:01
Isophorone	U		7.6	190	µg/Kg-dry	1	12/25/2018 02:01
Naphthalene	U		5.0	7.8	µg/Kg-dry	1	12/25/2018 02:01
Nitrobenzene	U		13	190	µg/Kg-dry	1	12/25/2018 02:01
N-Nitrosodi-n-propylamine	U		6.4	39	µg/Kg-dry	1	12/25/2018 02:01
N-Nitrosodiphenylamine	U		3.7	39	µg/Kg-dry	1	12/25/2018 02:01
Pentachlorophenol	U		14	39	µg/Kg-dry	1	12/25/2018 02:01
Phenanthrene	U		3.6	7.8	µg/Kg-dry	1	12/25/2018 02:01
Phenol	U		9.7	39	µg/Kg-dry	1	12/25/2018 02:01
Pyrene	U		1.4	7.8	µg/Kg-dry	1	12/25/2018 02:01
Surr: 2,4,6-Tribromophenol	*55.5*			*38-92*	*%REC*	1	12/25/2018 02:01
Surr: 2-Fluorobiphenyl	*70.1*			*44-107*	*%REC*	1	12/25/2018 02:01
Surr: 2-Fluorophenol	*47.6*			*37-109*	*%REC*	1	12/25/2018 02:01
Surr: 4-Terphenyl-d14	*62.3*			*52-123*	*%REC*	1	12/25/2018 02:01
Surr: Nitrobenzene-d5	*62.2*			*41-94*	*%REC*	1	12/25/2018 02:01
Surr: Phenol-d6	*45.2*			*28-111*	*%REC*	1	12/25/2018 02:01
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,700	6,800	µg/Kg-dry	1	12/19/2018 06:17
Surr: Toluene-d8	*87.8*			*70-130*	*%REC*	1	12/19/2018 06:17
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		20	43	µg/Kg-dry	1	12/21/2018 17:46
1,1,2,2-Tetrachloroethane	U		19	43	µg/Kg-dry	1	12/21/2018 17:46
1,1,2-Trichloroethane	U		18	43	µg/Kg-dry	1	12/21/2018 17:46
1,1,2-Trichlorotrifluoroethane	U		27	43	µg/Kg-dry	1	12/21/2018 17:46
1,1-Dichloroethane	U		16	43	µg/Kg-dry	1	12/21/2018 17:46
1,1-Dichloroethene	U		14	43	µg/Kg-dry	1	12/21/2018 17:46
1,2,3-Trichlorobenzene	U		20	43	µg/Kg-dry	1	12/21/2018 17:46
1,2,4-Trichlorobenzene	U		15	43	µg/Kg-dry	1	12/21/2018 17:46
1,2-Dibromo-3-chloropropane	U		40	140	µg/Kg-dry	1	12/21/2018 17:46
1,2-Dibromoethane	U		12	43	µg/Kg-dry	1	12/21/2018 17:46
1,2-Dichlorobenzene	U		16	43	µg/Kg-dry	1	12/21/2018 17:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (4-6)
Collection Date: 12/11/2018 09:35 AM

Work Order: 1812740
Lab ID: 1812740-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		18	43	µg/Kg-dry	1	12/21/2018 17:46
1,2-Dichloropropane	U		7.5	43	µg/Kg-dry	1	12/21/2018 17:46
1,3-Dichlorobenzene	U		14	43	µg/Kg-dry	1	12/21/2018 17:46
1,4-Dichlorobenzene	U		10	43	µg/Kg-dry	1	12/21/2018 17:46
2-Butanone	U		35	290	µg/Kg-dry	1	12/21/2018 17:46
2-Hexanone	U		21	43	µg/Kg-dry	1	12/21/2018 17:46
4-Methyl-2-pentanone	U		20	43	µg/Kg-dry	1	12/21/2018 17:46
Acetone	U		45	140	µg/Kg-dry	1	12/21/2018 17:46
Benzene	U		7.4	43	µg/Kg-dry	1	12/21/2018 17:46
Bromochloromethane	U		22	43	µg/Kg-dry	1	12/21/2018 17:46
Bromodichloromethane	U		24	43	µg/Kg-dry	1	12/21/2018 17:46
Bromoform	U		18	43	µg/Kg-dry	1	12/21/2018 17:46
Bromomethane	U		82	140	µg/Kg-dry	1	12/21/2018 17:46
Carbon disulfide	U		22	43	µg/Kg-dry	1	12/21/2018 17:46
Carbon tetrachloride	U		17	43	µg/Kg-dry	1	12/21/2018 17:46
Chlorobenzene	U		14	43	µg/Kg-dry	1	12/21/2018 17:46
Chloroethane	U		15	140	µg/Kg-dry	1	12/21/2018 17:46
Chloroform	U		16	43	µg/Kg-dry	1	12/21/2018 17:46
Chloromethane	U		36	140	µg/Kg-dry	1	12/21/2018 17:46
cis-1,2-Dichloroethene	U		13	43	µg/Kg-dry	1	12/21/2018 17:46
cis-1,3-Dichloropropene	U		16	43	µg/Kg-dry	1	12/21/2018 17:46
Cyclohexane	U		14	43	µg/Kg-dry	1	12/21/2018 17:46
Dibromochloromethane	U		24	43	µg/Kg-dry	1	12/21/2018 17:46
Dichlorodifluoromethane	U		9.0	43	µg/Kg-dry	1	12/21/2018 17:46
Ethylbenzene	U		9.1	43	µg/Kg-dry	1	12/21/2018 17:46
Isopropylbenzene	U		13	43	µg/Kg-dry	1	12/21/2018 17:46
m,p-Xylene	U		20	86	µg/Kg-dry	1	12/21/2018 17:46
Methyl acetate	**51**	J	**19**	**290**	**µg/Kg-dry**	1	12/21/2018 17:46
Methyl tert-butyl ether	U		12	43	µg/Kg-dry	1	12/21/2018 17:46
Methylcyclohexane	U		16	43	µg/Kg-dry	1	12/21/2018 17:46
Methylene chloride	U		18	43	µg/Kg-dry	1	12/21/2018 17:46
o-Xylene	U		17	43	µg/Kg-dry	1	12/21/2018 17:46
Styrene	U		17	43	µg/Kg-dry	1	12/21/2018 17:46
Tetrachloroethene	U		13	43	µg/Kg-dry	1	12/21/2018 17:46
Toluene	U		12	43	µg/Kg-dry	1	12/21/2018 17:46
trans-1,2-Dichloroethene	U		16	43	µg/Kg-dry	1	12/21/2018 17:46
trans-1,3-Dichloropropene	U		24	43	µg/Kg-dry	1	12/21/2018 17:46
Trichloroethene	U		19	43	µg/Kg-dry	1	12/21/2018 17:46
Trichlorofluoromethane	U		22	43	µg/Kg-dry	1	12/21/2018 17:46
Vinyl chloride	U		9.2	43	µg/Kg-dry	1	12/21/2018 17:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-7 (4-6)
Collection Date: 12/11/2018 09:35 AM

Work Order: 1812740
Lab ID: 1812740-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*97.4*			*70-130*	*%REC*	1	12/21/2018 17:46
Surr: 4-Bromofluorobenzene	*85.8*			*70-130*	*%REC*	1	12/21/2018 17:46
Surr: Dibromofluoromethane	*99.4*			*70-130*	*%REC*	1	12/21/2018 17:46
Surr: Toluene-d8	*98.8*			*70-130*	*%REC*	1	12/21/2018 17:46
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**15**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (0-2)
Collection Date: 12/11/2018 09:50 AM

Work Order: 1812740
Lab ID: 1812740-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	82	µg/Kg-dry	1	12/21/2018 18:23
Aroclor 1221	U		28	82	µg/Kg-dry	1	12/21/2018 18:23
Aroclor 1232	U		28	82	µg/Kg-dry	1	12/21/2018 18:23
Aroclor 1242	U		28	82	µg/Kg-dry	1	12/21/2018 18:23
Aroclor 1248	U		28	82	µg/Kg-dry	1	12/21/2018 18:23
Aroclor 1254	U		23	82	µg/Kg-dry	1	12/21/2018 18:23
Aroclor 1260	U		23	82	µg/Kg-dry	1	12/21/2018 18:23
Aroclor 1262	U		23	82	µg/Kg-dry	1	12/21/2018 18:23
Aroclor 1268	U		23	82	µg/Kg-dry	1	12/21/2018 18:23
Surr: Decachlorobiphenyl	*80.0*			*40-140*	*%REC*	1	12/21/2018 18:23
Surr: Tetrachloro-m-xylene	*85.8*			*45-124*	*%REC*	1	12/21/2018 18:23
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/26/18		Analyst: **RSH**
Mercury	**0.030**		**0.0021**	**0.021**	**mg/Kg-dry**	1	12/28/2018 12:05
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**5.9**		**0.13**	**0.49**	**mg/Kg-dry**	1	12/21/2018 04:00
Barium	**170**		**0.19**	**0.49**	**mg/Kg-dry**	1	12/21/2018 04:00
Cadmium	**0.11**	J	**0.047**	**0.97**	**mg/Kg-dry**	1	12/21/2018 04:00
Chromium	**12**		**0.027**	**0.49**	**mg/Kg-dry**	1	12/21/2018 04:00
Lead	**9.9**		**0.10**	**0.49**	**mg/Kg-dry**	1	12/21/2018 04:00
Selenium	**0.66**	J	**0.27**	**0.97**	**mg/Kg-dry**	1	12/21/2018 04:00
Silver	U		0.060	0.49	mg/Kg-dry	1	12/21/2018 04:00
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.9	6.3	mg/Kg-dry	1	12/22/2018 09:30
ORO (C21-C35)	U		2.1	6.3	mg/Kg-dry	1	12/22/2018 09:30
Surr: 4-Terphenyl-d14	*55.5*			*25-137*	*%REC*	1	12/22/2018 09:30
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.7	41	µg/Kg-dry	1	12/24/2018 18:36
1,2,4,5-Tetrachlorobenzene	U		32	410	µg/Kg-dry	1	12/24/2018 18:36
1,4-Dioxane	U		29	210	µg/Kg-dry	1	12/24/2018 18:36
2,2`-Oxybis(1-chloropropane)	U		9.6	41	µg/Kg-dry	1	12/24/2018 18:36
2,3,4,6-Tetrachlorophenol	U		11	82	µg/Kg-dry	1	12/24/2018 18:36
2,4,5-Trichlorophenol	U		11	41	µg/Kg-dry	1	12/24/2018 18:36
2,4,6-Trichlorophenol	U		11	41	µg/Kg-dry	1	12/24/2018 18:36
2,4-Dichlorophenol	U		8.6	41	µg/Kg-dry	1	12/24/2018 18:36
2,4-Dimethylphenol	U		8.4	41	µg/Kg-dry	1	12/24/2018 18:36
2,4-Dinitrophenol	U		22	41	µg/Kg-dry	1	12/24/2018 18:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (0-2)
Collection Date: 12/11/2018 09:50 AM

Work Order: 1812740
Lab ID: 1812740-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		11	41	µg/Kg-dry	1	12/24/2018 18:36
2,6-Dinitrotoluene	U		6.8	41	µg/Kg-dry	1	12/24/2018 18:36
2-Chloronaphthalene	U		5.7	8.2	µg/Kg-dry	1	12/24/2018 18:36
2-Chlorophenol	U		13	41	µg/Kg-dry	1	12/24/2018 18:36
2-Methylnaphthalene	U		4.2	8.2	µg/Kg-dry	1	12/24/2018 18:36
2-Methylphenol	U		11	41	µg/Kg-dry	1	12/24/2018 18:36
2-Nitroaniline	U		9.4	41	µg/Kg-dry	1	12/24/2018 18:36
2-Nitrophenol	U		12	41	µg/Kg-dry	1	12/24/2018 18:36
3&4-Methylphenol	U		8.2	41	µg/Kg-dry	1	12/24/2018 18:36
3,3´-Dichlorobenzidine	U		6.1	210	µg/Kg-dry	1	12/24/2018 18:36
3-Nitroaniline	U		9.4	41	µg/Kg-dry	1	12/24/2018 18:36
4,6-Dinitro-2-methylphenol	U		10	41	µg/Kg-dry	1	12/24/2018 18:36
4-Bromophenyl phenyl ether	U		11	41	µg/Kg-dry	1	12/24/2018 18:36
4-Chloro-3-methylphenol	U		12	41	µg/Kg-dry	1	12/24/2018 18:36
4-Chloroaniline	U		6.5	82	µg/Kg-dry	1	12/24/2018 18:36
4-Chlorophenyl phenyl ether	U		11	41	µg/Kg-dry	1	12/24/2018 18:36
4-Nitroaniline	U		64	210	µg/Kg-dry	1	12/24/2018 18:36
4-Nitrophenol	**47**		**37**	**41**	**µg/Kg-dry**	1	12/24/2018 18:36
Acenaphthene	U		5.9	8.2	µg/Kg-dry	1	12/24/2018 18:36
Acenaphthylene	U		7.1	8.2	µg/Kg-dry	1	12/24/2018 18:36
Acetophenone	U		6.4	41	µg/Kg-dry	1	12/24/2018 18:36
Anthracene	U		5.8	8.2	µg/Kg-dry	1	12/24/2018 18:36
Atrazine	U		6.5	41	µg/Kg-dry	1	12/24/2018 18:36
Benzaldehyde	U		63	82	µg/Kg-dry	1	12/24/2018 18:36
Benzo(a)anthracene	U		7.1	8.2	µg/Kg-dry	1	12/24/2018 18:36
Benzo(a)pyrene	U		5.0	8.2	µg/Kg-dry	1	12/24/2018 18:36
Benzo(b)fluoranthene	U		6.1	8.2	µg/Kg-dry	1	12/24/2018 18:36
Benzo(g,h,i)perylene	U		6.3	8.2	µg/Kg-dry	1	12/24/2018 18:36
Benzo(k)fluoranthene	U		6.2	8.2	µg/Kg-dry	1	12/24/2018 18:36
Bis(2-chloroethoxy)methane	U		3.9	41	µg/Kg-dry	1	12/24/2018 18:36
Bis(2-chloroethyl)ether	U		12	41	µg/Kg-dry	1	12/24/2018 18:36
Bis(2-ethylhexyl)phthalate	U		7.1	41	µg/Kg-dry	1	12/24/2018 18:36
Butyl benzyl phthalate	U		6.9	41	µg/Kg-dry	1	12/24/2018 18:36
Caprolactam	U		14	41	µg/Kg-dry	1	12/24/2018 18:36
Carbazole	U		4.4	41	µg/Kg-dry	1	12/24/2018 18:36
Chrysene	U		6.6	8.2	µg/Kg-dry	1	12/24/2018 18:36
Dibenzo(a,h)anthracene	U		4.4	8.2	µg/Kg-dry	1	12/24/2018 18:36
Dibenzofuran	U		6.0	41	µg/Kg-dry	1	12/24/2018 18:36
Diethyl phthalate	U		6.3	41	µg/Kg-dry	1	12/24/2018 18:36
Dimethyl phthalate	U		8.0	41	µg/Kg-dry	1	12/24/2018 18:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (0-2)
Collection Date: 12/11/2018 09:50 AM

Work Order: 1812740
Lab ID: 1812740-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.5	41	µg/Kg-dry	1	12/24/2018 18:36
Di-n-octyl phthalate	U		7.9	41	µg/Kg-dry	1	12/24/2018 18:36
Fluoranthene	U		3.9	8.2	µg/Kg-dry	1	12/24/2018 18:36
Fluorene	U		6.0	8.2	µg/Kg-dry	1	12/24/2018 18:36
Hexachlorobenzene	U		12	41	µg/Kg-dry	1	12/24/2018 18:36
Hexachlorobutadiene	U		22	41	µg/Kg-dry	1	12/24/2018 18:36
Hexachlorocyclopentadiene	U		14	41	µg/Kg-dry	1	12/24/2018 18:36
Hexachloroethane	U		17	41	µg/Kg-dry	1	12/24/2018 18:36
Indeno(1,2,3-cd)pyrene	U		5.7	8.2	µg/Kg-dry	1	12/24/2018 18:36
Isophorone	U		8.0	210	µg/Kg-dry	1	12/24/2018 18:36
Naphthalene	U		5.2	8.2	µg/Kg-dry	1	12/24/2018 18:36
Nitrobenzene	U		14	210	µg/Kg-dry	1	12/24/2018 18:36
N-Nitrosodi-n-propylamine	U		6.8	41	µg/Kg-dry	1	12/24/2018 18:36
N-Nitrosodiphenylamine	U		3.9	41	µg/Kg-dry	1	12/24/2018 18:36
Pentachlorophenol	U		15	41	µg/Kg-dry	1	12/24/2018 18:36
Phenanthrene	U		3.8	8.2	µg/Kg-dry	1	12/24/2018 18:36
Phenol	U		10	41	µg/Kg-dry	1	12/24/2018 18:36
Pyrene	U		1.5	8.2	µg/Kg-dry	1	12/24/2018 18:36
Surr: 2,4,6-Tribromophenol	*64.0*			*38-92*	*%REC*	1	12/24/2018 18:36
Surr: 2-Fluorobiphenyl	*64.7*			*44-107*	*%REC*	1	12/24/2018 18:36
Surr: 2-Fluorophenol	*48.7*			*37-109*	*%REC*	1	12/24/2018 18:36
Surr: 4-Terphenyl-d14	*62.3*			*52-123*	*%REC*	1	12/24/2018 18:36
Surr: Nitrobenzene-d5	*55.2*			*41-94*	*%REC*	1	12/24/2018 18:36
Surr: Phenol-d6	*42.2*			*28-111*	*%REC*	1	12/24/2018 18:36
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,900	7,500	µg/Kg-dry	1	12/19/2018 06:33
Surr: Toluene-d8	*87.3*			*70-130*	*%REC*	1	12/19/2018 06:33
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		20	45	µg/Kg-dry	1	12/21/2018 19:01
1,1,2,2-Tetrachloroethane	U		20	45	µg/Kg-dry	1	12/21/2018 19:01
1,1,2-Trichloroethane	U		19	45	µg/Kg-dry	1	12/21/2018 19:01
1,1,2-Trichlorotrifluoroethane	U		28	45	µg/Kg-dry	1	12/21/2018 19:01
1,1-Dichloroethane	U		16	45	µg/Kg-dry	1	12/21/2018 19:01
1,1-Dichloroethene	U		15	45	µg/Kg-dry	1	12/21/2018 19:01
1,2,3-Trichlorobenzene	U		21	45	µg/Kg-dry	1	12/21/2018 19:01
1,2,4-Trichlorobenzene	U		16	45	µg/Kg-dry	1	12/21/2018 19:01
1,2-Dibromo-3-chloropropane	U		41	150	µg/Kg-dry	1	12/21/2018 19:01
1,2-Dibromoethane	U		13	45	µg/Kg-dry	1	12/21/2018 19:01
1,2-Dichlorobenzene	U		17	45	µg/Kg-dry	1	12/21/2018 19:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (0-2)
Collection Date: 12/11/2018 09:50 AM

Work Order: 1812740
Lab ID: 1812740-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		19	45	µg/Kg-dry	1	12/21/2018 19:01
1,2-Dichloropropane	U		7.9	45	µg/Kg-dry	1	12/21/2018 19:01
1,3-Dichlorobenzene	U		15	45	µg/Kg-dry	1	12/21/2018 19:01
1,4-Dichlorobenzene	U		11	45	µg/Kg-dry	1	12/21/2018 19:01
2-Butanone	U		37	300	µg/Kg-dry	1	12/21/2018 19:01
2-Hexanone	U		22	45	µg/Kg-dry	1	12/21/2018 19:01
4-Methyl-2-pentanone	U		21	45	µg/Kg-dry	1	12/21/2018 19:01
Acetone	U		47	150	µg/Kg-dry	1	12/21/2018 19:01
Benzene	U		7.7	45	µg/Kg-dry	1	12/21/2018 19:01
Bromochloromethane	U		23	45	µg/Kg-dry	1	12/21/2018 19:01
Bromodichloromethane	U		25	45	µg/Kg-dry	1	12/21/2018 19:01
Bromoform	U		19	45	µg/Kg-dry	1	12/21/2018 19:01
Bromomethane	U		86	150	µg/Kg-dry	1	12/21/2018 19:01
Carbon disulfide	U		23	45	µg/Kg-dry	1	12/21/2018 19:01
Carbon tetrachloride	U		18	45	µg/Kg-dry	1	12/21/2018 19:01
Chlorobenzene	U		15	45	µg/Kg-dry	1	12/21/2018 19:01
Chloroethane	U		16	150	µg/Kg-dry	1	12/21/2018 19:01
Chloroform	U		16	45	µg/Kg-dry	1	12/21/2018 19:01
Chloromethane	U		38	150	µg/Kg-dry	1	12/21/2018 19:01
cis-1,2-Dichloroethene	U		14	45	µg/Kg-dry	1	12/21/2018 19:01
cis-1,3-Dichloropropene	U		17	45	µg/Kg-dry	1	12/21/2018 19:01
Cyclohexane	U		15	45	µg/Kg-dry	1	12/21/2018 19:01
Dibromochloromethane	U		25	45	µg/Kg-dry	1	12/21/2018 19:01
Dichlorodifluoromethane	U		9.4	45	µg/Kg-dry	1	12/21/2018 19:01
Ethylbenzene	U		9.5	45	µg/Kg-dry	1	12/21/2018 19:01
Isopropylbenzene	U		14	45	µg/Kg-dry	1	12/21/2018 19:01
m,p-Xylene	U		21	90	µg/Kg-dry	1	12/21/2018 19:01
Methyl acetate	**240**	J	**20**	**300**	**µg/Kg-dry**	1	12/21/2018 19:01
Methyl tert-butyl ether	U		13	45	µg/Kg-dry	1	12/21/2018 19:01
Methylcyclohexane	U		17	45	µg/Kg-dry	1	12/21/2018 19:01
Methylene chloride	U		19	45	µg/Kg-dry	1	12/21/2018 19:01
o-Xylene	U		17	45	µg/Kg-dry	1	12/21/2018 19:01
Styrene	U		18	45	µg/Kg-dry	1	12/21/2018 19:01
Tetrachloroethene	U		13	45	µg/Kg-dry	1	12/21/2018 19:01
Toluene	U		12	45	µg/Kg-dry	1	12/21/2018 19:01
trans-1,2-Dichloroethene	U		17	45	µg/Kg-dry	1	12/21/2018 19:01
trans-1,3-Dichloropropene	U		25	45	µg/Kg-dry	1	12/21/2018 19:01
Trichloroethene	U		20	45	µg/Kg-dry	1	12/21/2018 19:01
Trichlorofluoromethane	U		23	45	µg/Kg-dry	1	12/21/2018 19:01
Vinyl chloride	U		9.7	45	µg/Kg-dry	1	12/21/2018 19:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (0-2)
Collection Date: 12/11/2018 09:50 AM

Work Order: 1812740
Lab ID: 1812740-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*102*			*70-130*	*%REC*	1	12/21/2018 19:01
Surr: 4-Bromofluorobenzene	*90.2*			*70-130*	*%REC*	1	12/21/2018 19:01
Surr: Dibromofluoromethane	*103*			*70-130*	*%REC*	1	12/21/2018 19:01
Surr: Toluene-d8	*96.0*			*70-130*	*%REC*	1	12/21/2018 19:01
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**20**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (8-10)
Collection Date: 12/11/2018 10:15 AM

Work Order: 1812740
Lab ID: 1812740-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	83	µg/Kg-dry	1	12/21/2018 18:37
Aroclor 1221	U		28	83	µg/Kg-dry	1	12/21/2018 18:37
Aroclor 1232	U		28	83	µg/Kg-dry	1	12/21/2018 18:37
Aroclor 1242	U		28	83	µg/Kg-dry	1	12/21/2018 18:37
Aroclor 1248	U		28	83	µg/Kg-dry	1	12/21/2018 18:37
Aroclor 1254	U		23	83	µg/Kg-dry	1	12/21/2018 18:37
Aroclor 1260	U		23	83	µg/Kg-dry	1	12/21/2018 18:37
Aroclor 1262	U		23	83	µg/Kg-dry	1	12/21/2018 18:37
Aroclor 1268	U		23	83	µg/Kg-dry	1	12/21/2018 18:37
Surr: Decachlorobiphenyl	*75.2*			*40-140*	*%REC*	1	12/21/2018 18:37
Surr: Tetrachloro-m-xylene	*70.0*			*45-124*	*%REC*	1	12/21/2018 18:37
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/26/18		Analyst: **RSH**
Mercury	**0.059**		**0.0023**	**0.023**	**mg/Kg-dry**	1	12/28/2018 12:08
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**10**		**0.12**	**0.46**	**mg/Kg-dry**	1	12/21/2018 04:06
Barium	**63**		**0.18**	**0.46**	**mg/Kg-dry**	1	12/21/2018 04:06
Cadmium	**2.2**		**0.044**	**0.92**	**mg/Kg-dry**	1	12/21/2018 04:06
Chromium	**26**		**0.026**	**0.46**	**mg/Kg-dry**	1	12/21/2018 04:06
Lead	**24**		**0.097**	**0.46**	**mg/Kg-dry**	1	12/21/2018 04:06
Selenium	**1.3**		**0.26**	**0.92**	**mg/Kg-dry**	1	12/21/2018 04:06
Silver	**0.24**	J	**0.057**	**0.46**	**mg/Kg-dry**	1	12/21/2018 04:06
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.9	6.3	mg/Kg-dry	1	12/22/2018 09:57
ORO (C21-C35)	U		2.1	6.3	mg/Kg-dry	1	12/22/2018 09:57
Surr: 4-Terphenyl-d14	*57.9*			*25-137*	*%REC*	1	12/22/2018 09:57
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.8	41	µg/Kg-dry	1	12/25/2018 01:41
1,2,4,5-Tetrachlorobenzene	U		32	420	µg/Kg-dry	1	12/25/2018 01:41
1,4-Dioxane	U		30	210	µg/Kg-dry	1	12/25/2018 01:41
2,2`-Oxybis(1-chloropropane)	U		9.8	41	µg/Kg-dry	1	12/25/2018 01:41
2,3,4,6-Tetrachlorophenol	U		11	84	µg/Kg-dry	1	12/25/2018 01:41
2,4,5-Trichlorophenol	U		11	41	µg/Kg-dry	1	12/25/2018 01:41
2,4,6-Trichlorophenol	U		11	41	µg/Kg-dry	1	12/25/2018 01:41
2,4-Dichlorophenol	U		8.8	41	µg/Kg-dry	1	12/25/2018 01:41
2,4-Dimethylphenol	U		8.5	41	µg/Kg-dry	1	12/25/2018 01:41
2,4-Dinitrophenol	U		23	41	µg/Kg-dry	1	12/25/2018 01:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (8-10)
Collection Date: 12/11/2018 10:15 AM

Work Order: 1812740
Lab ID: 1812740-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		11	41	µg/Kg-dry	1	12/25/2018 01:41
2,6-Dinitrotoluene	U		6.9	41	µg/Kg-dry	1	12/25/2018 01:41
2-Chloronaphthalene	U		5.8	8.4	µg/Kg-dry	1	12/25/2018 01:41
2-Chlorophenol	U		13	41	µg/Kg-dry	1	12/25/2018 01:41
2-Methylnaphthalene	U		4.2	8.4	µg/Kg-dry	1	12/25/2018 01:41
2-Methylphenol	U		11	41	µg/Kg-dry	1	12/25/2018 01:41
2-Nitroaniline	U		9.6	41	µg/Kg-dry	1	12/25/2018 01:41
2-Nitrophenol	U		12	41	µg/Kg-dry	1	12/25/2018 01:41
3&4-Methylphenol	U		8.4	41	µg/Kg-dry	1	12/25/2018 01:41
3,3´-Dichlorobenzidine	U		6.2	210	µg/Kg-dry	1	12/25/2018 01:41
3-Nitroaniline	U		9.6	41	µg/Kg-dry	1	12/25/2018 01:41
4,6-Dinitro-2-methylphenol	U		10	41	µg/Kg-dry	1	12/25/2018 01:41
4-Bromophenyl phenyl ether	U		11	41	µg/Kg-dry	1	12/25/2018 01:41
4-Chloro-3-methylphenol	U		12	41	µg/Kg-dry	1	12/25/2018 01:41
4-Chloroaniline	U		6.6	84	µg/Kg-dry	1	12/25/2018 01:41
4-Chlorophenyl phenyl ether	U		12	41	µg/Kg-dry	1	12/25/2018 01:41
4-Nitroaniline	U		65	210	µg/Kg-dry	1	12/25/2018 01:41
4-Nitrophenol	U		37	41	µg/Kg-dry	1	12/25/2018 01:41
Acenaphthene	U		6.0	8.4	µg/Kg-dry	1	12/25/2018 01:41
Acenaphthylene	U		7.2	8.4	µg/Kg-dry	1	12/25/2018 01:41
Acetophenone	U		6.5	41	µg/Kg-dry	1	12/25/2018 01:41
Anthracene	U		5.9	8.4	µg/Kg-dry	1	12/25/2018 01:41
Atrazine	U		6.6	41	µg/Kg-dry	1	12/25/2018 01:41
Benzaldehyde	U		64	84	µg/Kg-dry	1	12/25/2018 01:41
Benzo(a)anthracene	U		7.2	8.4	µg/Kg-dry	1	12/25/2018 01:41
Benzo(a)pyrene	U		5.1	8.4	µg/Kg-dry	1	12/25/2018 01:41
Benzo(b)fluoranthene	U		6.2	8.4	µg/Kg-dry	1	12/25/2018 01:41
Benzo(g,h,i)perylene	U		6.4	8.4	µg/Kg-dry	1	12/25/2018 01:41
Benzo(k)fluoranthene	U		6.3	8.4	µg/Kg-dry	1	12/25/2018 01:41
Bis(2-chloroethoxy)methane	U		4.0	41	µg/Kg-dry	1	12/25/2018 01:41
Bis(2-chloroethyl)ether	U		12	41	µg/Kg-dry	1	12/25/2018 01:41
Bis(2-ethylhexyl)phthalate	U		7.2	41	µg/Kg-dry	1	12/25/2018 01:41
Butyl benzyl phthalate	U		7.1	41	µg/Kg-dry	1	12/25/2018 01:41
Caprolactam	U		14	41	µg/Kg-dry	1	12/25/2018 01:41
Carbazole	U		4.5	41	µg/Kg-dry	1	12/25/2018 01:41
Chrysene	U		6.8	8.4	µg/Kg-dry	1	12/25/2018 01:41
Dibenzo(a,h)anthracene	U		4.5	8.4	µg/Kg-dry	1	12/25/2018 01:41
Dibenzofuran	U		6.1	41	µg/Kg-dry	1	12/25/2018 01:41
Diethyl phthalate	U		6.4	41	µg/Kg-dry	1	12/25/2018 01:41
Dimethyl phthalate	U		8.1	41	µg/Kg-dry	1	12/25/2018 01:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (8-10)
Collection Date: 12/11/2018 10:15 AM

Work Order: 1812740
Lab ID: 1812740-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.6	41	µg/Kg-dry	1	12/25/2018 01:41
Di-n-octyl phthalate	U		8.0	41	µg/Kg-dry	1	12/25/2018 01:41
Fluoranthene	U		4.0	8.4	µg/Kg-dry	1	12/25/2018 01:41
Fluorene	U		6.1	8.4	µg/Kg-dry	1	12/25/2018 01:41
Hexachlorobenzene	U		12	41	µg/Kg-dry	1	12/25/2018 01:41
Hexachlorobutadiene	U		23	41	µg/Kg-dry	1	12/25/2018 01:41
Hexachlorocyclopentadiene	U		14	41	µg/Kg-dry	1	12/25/2018 01:41
Hexachloroethane	U		17	41	µg/Kg-dry	1	12/25/2018 01:41
Indeno(1,2,3-cd)pyrene	U		5.8	8.4	µg/Kg-dry	1	12/25/2018 01:41
Isophorone	U		8.2	210	µg/Kg-dry	1	12/25/2018 01:41
Naphthalene	U		5.3	8.4	µg/Kg-dry	1	12/25/2018 01:41
Nitrobenzene	U		14	210	µg/Kg-dry	1	12/25/2018 01:41
N-Nitrosodi-n-propylamine	U		6.9	41	µg/Kg-dry	1	12/25/2018 01:41
N-Nitrosodiphenylamine	U		4.0	41	µg/Kg-dry	1	12/25/2018 01:41
Pentachlorophenol	U		15	41	µg/Kg-dry	1	12/25/2018 01:41
Phenanthrene	U		3.9	8.4	µg/Kg-dry	1	12/25/2018 01:41
Phenol	U		10	41	µg/Kg-dry	1	12/25/2018 01:41
Pyrene	**9.2**		**1.5**	**8.4**	**µg/Kg-dry**	1	12/25/2018 01:41
Surr: 2,4,6-Tribromophenol	*64.3*			*38-92*	*%REC*	1	12/25/2018 01:41
Surr: 2-Fluorobiphenyl	*72.1*			*44-107*	*%REC*	1	12/25/2018 01:41
Surr: 2-Fluorophenol	*59.5*			*37-109*	*%REC*	1	12/25/2018 01:41
Surr: 4-Terphenyl-d14	*62.6*			*52-123*	*%REC*	1	12/25/2018 01:41
Surr: Nitrobenzene-d5	*63.4*			*41-94*	*%REC*	1	12/25/2018 01:41
Surr: Phenol-d6	*51.8*			*28-111*	*%REC*	1	12/25/2018 01:41
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,900	7,700	µg/Kg-dry	1	12/19/2018 06:48
Surr: Toluene-d8	*89.4*			*70-130*	*%REC*	1	12/19/2018 06:48
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		23	51	µg/Kg-dry	1	12/21/2018 19:17
1,1,2,2-Tetrachloroethane	U		23	51	µg/Kg-dry	1	12/21/2018 19:17
1,1,2-Trichloroethane	U		22	51	µg/Kg-dry	1	12/21/2018 19:17
1,1,2-Trichlorotrifluoroethane	U		32	51	µg/Kg-dry	1	12/21/2018 19:17
1,1-Dichloroethane	U		19	51	µg/Kg-dry	1	12/21/2018 19:17
1,1-Dichloroethene	U		17	51	µg/Kg-dry	1	12/21/2018 19:17
1,2,3-Trichlorobenzene	U		24	51	µg/Kg-dry	1	12/21/2018 19:17
1,2,4-Trichlorobenzene	U		18	51	µg/Kg-dry	1	12/21/2018 19:17
1,2-Dibromo-3-chloropropane	U		47	170	µg/Kg-dry	1	12/21/2018 19:17
1,2-Dibromoethane	U		14	51	µg/Kg-dry	1	12/21/2018 19:17
1,2-Dichlorobenzene	U		19	51	µg/Kg-dry	1	12/21/2018 19:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (8-10)
Collection Date: 12/11/2018 10:15 AM

Work Order: 1812740
Lab ID: 1812740-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		22	51	µg/Kg-dry	1	12/21/2018 19:17
1,2-Dichloropropane	U		8.9	51	µg/Kg-dry	1	12/21/2018 19:17
1,3-Dichlorobenzene	U		17	51	µg/Kg-dry	1	12/21/2018 19:17
1,4-Dichlorobenzene	U		12	51	µg/Kg-dry	1	12/21/2018 19:17
2-Butanone	U		42	340	µg/Kg-dry	1	12/21/2018 19:17
2-Hexanone	U		25	51	µg/Kg-dry	1	12/21/2018 19:17
4-Methyl-2-pentanone	U		24	51	µg/Kg-dry	1	12/21/2018 19:17
Acetone	U		53	170	µg/Kg-dry	1	12/21/2018 19:17
Benzene	U		8.7	51	µg/Kg-dry	1	12/21/2018 19:17
Bromochloromethane	U		26	51	µg/Kg-dry	1	12/21/2018 19:17
Bromodichloromethane	U		29	51	µg/Kg-dry	1	12/21/2018 19:17
Bromoform	U		21	51	µg/Kg-dry	1	12/21/2018 19:17
Bromomethane	U		98	170	µg/Kg-dry	1	12/21/2018 19:17
Carbon disulfide	U		26	51	µg/Kg-dry	1	12/21/2018 19:17
Carbon tetrachloride	U		20	51	µg/Kg-dry	1	12/21/2018 19:17
Chlorobenzene	U		17	51	µg/Kg-dry	1	12/21/2018 19:17
Chloroethane	U		18	170	µg/Kg-dry	1	12/21/2018 19:17
Chloroform	U		19	51	µg/Kg-dry	1	12/21/2018 19:17
Chloromethane	U		43	170	µg/Kg-dry	1	12/21/2018 19:17
cis-1,2-Dichloroethene	U		16	51	µg/Kg-dry	1	12/21/2018 19:17
cis-1,3-Dichloropropene	U		19	51	µg/Kg-dry	1	12/21/2018 19:17
Cyclohexane	U		17	51	µg/Kg-dry	1	12/21/2018 19:17
Dibromochloromethane	U		29	51	µg/Kg-dry	1	12/21/2018 19:17
Dichlorodifluoromethane	U		11	51	µg/Kg-dry	1	12/21/2018 19:17
Ethylbenzene	U		11	51	µg/Kg-dry	1	12/21/2018 19:17
Isopropylbenzene	U		16	51	µg/Kg-dry	1	12/21/2018 19:17
m,p-Xylene	U		24	100	µg/Kg-dry	1	12/21/2018 19:17
Methyl acetate	**52**	J	**23**	**340**	**µg/Kg-dry**	1	12/21/2018 19:17
Methyl tert-butyl ether	U		15	51	µg/Kg-dry	1	12/21/2018 19:17
Methylcyclohexane	U		19	51	µg/Kg-dry	1	12/21/2018 19:17
Methylene chloride	U		22	51	µg/Kg-dry	1	12/21/2018 19:17
o-Xylene	U		20	51	µg/Kg-dry	1	12/21/2018 19:17
Styrene	U		20	51	µg/Kg-dry	1	12/21/2018 19:17
Tetrachloroethene	U		15	51	µg/Kg-dry	1	12/21/2018 19:17
Toluene	U		14	51	µg/Kg-dry	1	12/21/2018 19:17
trans-1,2-Dichloroethene	U		19	51	µg/Kg-dry	1	12/21/2018 19:17
trans-1,3-Dichloropropene	U		28	51	µg/Kg-dry	1	12/21/2018 19:17
Trichloroethene	U		23	51	µg/Kg-dry	1	12/21/2018 19:17
Trichlorofluoromethane	U		26	51	µg/Kg-dry	1	12/21/2018 19:17
Vinyl chloride	U		11	51	µg/Kg-dry	1	12/21/2018 19:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-8 (8-10)
Collection Date: 12/11/2018 10:15 AM

Work Order: 1812740
Lab ID: 1812740-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*98.6*			*70-130*	*%REC*	1	12/21/2018 19:17
Surr: 4-Bromofluorobenzene	*90.2*			*70-130*	*%REC*	1	12/21/2018 19:17
Surr: Dibromofluoromethane	*99.7*			*70-130*	*%REC*	1	12/21/2018 19:17
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	12/21/2018 19:17
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**21**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (0-2)
Collection Date: 12/11/2018 10:25 AM

Work Order: 1812740
Lab ID: 1812740-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	81	µg/Kg-dry	1	12/21/2018 18:51
Aroclor 1221	U		28	81	µg/Kg-dry	1	12/21/2018 18:51
Aroclor 1232	U		28	81	µg/Kg-dry	1	12/21/2018 18:51
Aroclor 1242	U		28	81	µg/Kg-dry	1	12/21/2018 18:51
Aroclor 1248	U		28	81	µg/Kg-dry	1	12/21/2018 18:51
Aroclor 1254	**150**		**22**	**81**	**µg/Kg-dry**	1	12/21/2018 18:51
Aroclor 1260	**160**		**22**	**81**	**µg/Kg-dry**	1	12/21/2018 18:51
Aroclor 1262	U		22	81	µg/Kg-dry	1	12/21/2018 18:51
Aroclor 1268	U		22	81	µg/Kg-dry	1	12/21/2018 18:51
Surr: Decachlorobiphenyl	*82.6*			*40-140*	*%REC*	1	12/21/2018 18:51
Surr: Tetrachloro-m-xylene	*85.4*			*45-124*	*%REC*	1	12/21/2018 18:51
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/26/18		Analyst: **RSH**
Mercury	**0.022**		**0.0018**	**0.018**	**mg/Kg-dry**	1	12/28/2018 12:10
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**7.0**		**0.12**	**0.45**	**mg/Kg-dry**	1	12/21/2018 04:12
Barium	**140**		**0.18**	**0.45**	**mg/Kg-dry**	1	12/21/2018 04:12
Cadmium	**0.18**	J	**0.043**	**0.89**	**mg/Kg-dry**	1	12/21/2018 04:12
Chromium	**19**		**0.025**	**0.45**	**mg/Kg-dry**	1	12/21/2018 04:12
Lead	**39**		**0.094**	**0.45**	**mg/Kg-dry**	1	12/21/2018 04:12
Selenium	**0.27**	J	**0.25**	**0.89**	**mg/Kg-dry**	1	12/21/2018 04:12
Silver	U		0.055	0.45	mg/Kg-dry	1	12/21/2018 04:12
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.8	6.1	mg/Kg-dry	1	12/22/2018 10:25
ORO (C21-C35)	U		2.0	6.1	mg/Kg-dry	1	12/22/2018 10:25
Surr: 4-Terphenyl-d14	*86.3*			*25-137*	*%REC*	1	12/22/2018 10:25
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.3	38	µg/Kg-dry	1	12/25/2018 00:40
1,2,4,5-Tetrachlorobenzene	U		30	390	µg/Kg-dry	1	12/25/2018 00:40
1,4-Dioxane	U		28	190	µg/Kg-dry	1	12/25/2018 00:40
2,2`-Oxybis(1-chloropropane)	U		9.1	38	µg/Kg-dry	1	12/25/2018 00:40
2,3,4,6-Tetrachlorophenol	U		10	78	µg/Kg-dry	1	12/25/2018 00:40
2,4,5-Trichlorophenol	U		11	38	µg/Kg-dry	1	12/25/2018 00:40
2,4,6-Trichlorophenol	U		10	38	µg/Kg-dry	1	12/25/2018 00:40
2,4-Dichlorophenol	U		8.2	38	µg/Kg-dry	1	12/25/2018 00:40
2,4-Dimethylphenol	U		7.9	38	µg/Kg-dry	1	12/25/2018 00:40
2,4-Dinitrophenol	U		21	38	µg/Kg-dry	1	12/25/2018 00:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (0-2)
Collection Date: 12/11/2018 10:25 AM

Work Order: 1812740
Lab ID: 1812740-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	38	µg/Kg-dry	1	12/25/2018 00:40
2,6-Dinitrotoluene	U		6.4	38	µg/Kg-dry	1	12/25/2018 00:40
2-Chloronaphthalene	U		5.4	7.8	µg/Kg-dry	1	12/25/2018 00:40
2-Chlorophenol	U		12	38	µg/Kg-dry	1	12/25/2018 00:40
2-Methylnaphthalene	U		4.0	7.8	µg/Kg-dry	1	12/25/2018 00:40
2-Methylphenol	U		10	38	µg/Kg-dry	1	12/25/2018 00:40
2-Nitroaniline	U		8.9	38	µg/Kg-dry	1	12/25/2018 00:40
2-Nitrophenol	U		11	38	µg/Kg-dry	1	12/25/2018 00:40
3&4-Methylphenol	U		7.8	38	µg/Kg-dry	1	12/25/2018 00:40
3,3´-Dichlorobenzidine	U		5.8	190	µg/Kg-dry	1	12/25/2018 00:40
3-Nitroaniline	U		8.9	38	µg/Kg-dry	1	12/25/2018 00:40
4,6-Dinitro-2-methylphenol	U		9.8	38	µg/Kg-dry	1	12/25/2018 00:40
4-Bromophenyl phenyl ether	U		10	38	µg/Kg-dry	1	12/25/2018 00:40
4-Chloro-3-methylphenol	U		11	38	µg/Kg-dry	1	12/25/2018 00:40
4-Chloroaniline	U		6.1	78	µg/Kg-dry	1	12/25/2018 00:40
4-Chlorophenyl phenyl ether	U		11	38	µg/Kg-dry	1	12/25/2018 00:40
4-Nitroaniline	U		60	190	µg/Kg-dry	1	12/25/2018 00:40
4-Nitrophenol	U		35	38	µg/Kg-dry	1	12/25/2018 00:40
Acenaphthene	U		5.6	7.8	µg/Kg-dry	1	12/25/2018 00:40
Acenaphthylene	U		6.7	7.8	µg/Kg-dry	1	12/25/2018 00:40
Acetophenone	U		6.1	38	µg/Kg-dry	1	12/25/2018 00:40
Anthracene	U		5.5	7.8	µg/Kg-dry	1	12/25/2018 00:40
Atrazine	U		6.1	38	µg/Kg-dry	1	12/25/2018 00:40
Benzaldehyde	U		60	78	µg/Kg-dry	1	12/25/2018 00:40
Benzo(a)anthracene	**14**		**6.7**	**7.8**	**µg/Kg-dry**	1	12/25/2018 00:40
Benzo(a)pyrene	U		4.8	7.8	µg/Kg-dry	1	12/25/2018 00:40
Benzo(b)fluoranthene	U		5.8	7.8	µg/Kg-dry	1	12/25/2018 00:40
Benzo(g,h,i)perylene	U		6.0	7.8	µg/Kg-dry	1	12/25/2018 00:40
Benzo(k)fluoranthene	U		5.9	7.8	µg/Kg-dry	1	12/25/2018 00:40
Bis(2-chloroethoxy)methane	U		3.7	38	µg/Kg-dry	1	12/25/2018 00:40
Bis(2-chloroethyl)ether	U		11	38	µg/Kg-dry	1	12/25/2018 00:40
Bis(2-ethylhexyl)phthalate	U		6.7	38	µg/Kg-dry	1	12/25/2018 00:40
Butyl benzyl phthalate	U		6.6	38	µg/Kg-dry	1	12/25/2018 00:40
Caprolactam	U		13	38	µg/Kg-dry	1	12/25/2018 00:40
Carbazole	U		4.2	38	µg/Kg-dry	1	12/25/2018 00:40
Chrysene	**10**		**6.3**	**7.8**	**µg/Kg-dry**	1	12/25/2018 00:40
Dibenzo(a,h)anthracene	U		4.2	7.8	µg/Kg-dry	1	12/25/2018 00:40
Dibenzofuran	U		5.7	38	µg/Kg-dry	1	12/25/2018 00:40
Diethyl phthalate	U		5.9	38	µg/Kg-dry	1	12/25/2018 00:40
Dimethyl phthalate	U		7.6	38	µg/Kg-dry	1	12/25/2018 00:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (0-2)
Collection Date: 12/11/2018 10:25 AM

Work Order: 1812740
Lab ID: 1812740-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.1	38	µg/Kg-dry	1	12/25/2018 00:40
Di-n-octyl phthalate	U		7.5	38	µg/Kg-dry	1	12/25/2018 00:40
Fluoranthene	**12**		**3.7**	**7.8**	**µg/Kg-dry**	1	12/25/2018 00:40
Fluorene	U		5.6	7.8	µg/Kg-dry	1	12/25/2018 00:40
Hexachlorobenzene	U		11	38	µg/Kg-dry	1	12/25/2018 00:40
Hexachlorobutadiene	U		21	38	µg/Kg-dry	1	12/25/2018 00:40
Hexachlorocyclopentadiene	U		13	38	µg/Kg-dry	1	12/25/2018 00:40
Hexachloroethane	U		16	38	µg/Kg-dry	1	12/25/2018 00:40
Indeno(1,2,3-cd)pyrene	U		5.4	7.8	µg/Kg-dry	1	12/25/2018 00:40
Isophorone	U		7.6	190	µg/Kg-dry	1	12/25/2018 00:40
Naphthalene	U		5.0	7.8	µg/Kg-dry	1	12/25/2018 00:40
Nitrobenzene	U		13	190	µg/Kg-dry	1	12/25/2018 00:40
N-Nitrosodi-n-propylamine	U		6.4	38	µg/Kg-dry	1	12/25/2018 00:40
N-Nitrosodiphenylamine	U		3.7	38	µg/Kg-dry	1	12/25/2018 00:40
Pentachlorophenol	U		14	38	µg/Kg-dry	1	12/25/2018 00:40
Phenanthrene	U		3.6	7.8	µg/Kg-dry	1	12/25/2018 00:40
Phenol	U		9.6	38	µg/Kg-dry	1	12/25/2018 00:40
Pyrene	**18**		**1.4**	**7.8**	**µg/Kg-dry**	1	12/25/2018 00:40
Surr: 2,4,6-Tribromophenol	*64.3*			*38-92*	*%REC*	1	12/25/2018 00:40
Surr: 2-Fluorobiphenyl	*76.9*			*44-107*	*%REC*	1	12/25/2018 00:40
Surr: 2-Fluorophenol	*62.4*			*37-109*	*%REC*	1	12/25/2018 00:40
Surr: 4-Terphenyl-d14	*68.6*			*52-123*	*%REC*	1	12/25/2018 00:40
Surr: Nitrobenzene-d5	*68.0*			*41-94*	*%REC*	1	12/25/2018 00:40
Surr: Phenol-d6	*53.4*			*28-111*	*%REC*	1	12/25/2018 00:40
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,800	7,200	µg/Kg-dry	1	12/19/2018 07:04
Surr: Toluene-d8	*85.8*			*70-130*	*%REC*	1	12/19/2018 07:04
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		20	43	µg/Kg-dry	1	12/21/2018 19:32
1,1,2,2-Tetrachloroethane	U		19	43	µg/Kg-dry	1	12/21/2018 19:32
1,1,2-Trichloroethane	U		18	43	µg/Kg-dry	1	12/21/2018 19:32
1,1,2-Trichlorotrifluoroethane	U		27	43	µg/Kg-dry	1	12/21/2018 19:32
1,1-Dichloroethane	U		16	43	µg/Kg-dry	1	12/21/2018 19:32
1,1-Dichloroethene	U		14	43	µg/Kg-dry	1	12/21/2018 19:32
1,2,3-Trichlorobenzene	U		20	43	µg/Kg-dry	1	12/21/2018 19:32
1,2,4-Trichlorobenzene	U		15	43	µg/Kg-dry	1	12/21/2018 19:32
1,2-Dibromo-3-chloropropane	U		40	140	µg/Kg-dry	1	12/21/2018 19:32
1,2-Dibromoethane	U		12	43	µg/Kg-dry	1	12/21/2018 19:32
1,2-Dichlorobenzene	U		16	43	µg/Kg-dry	1	12/21/2018 19:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (0-2)
Collection Date: 12/11/2018 10:25 AM

Work Order: 1812740
Lab ID: 1812740-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		19	43	µg/Kg-dry	1	12/21/2018 19:32
1,2-Dichloropropane	U		7.6	43	µg/Kg-dry	1	12/21/2018 19:32
1,3-Dichlorobenzene	U		14	43	µg/Kg-dry	1	12/21/2018 19:32
1,4-Dichlorobenzene	U		10	43	µg/Kg-dry	1	12/21/2018 19:32
2-Butanone	U		36	290	µg/Kg-dry	1	12/21/2018 19:32
2-Hexanone	U		21	43	µg/Kg-dry	1	12/21/2018 19:32
4-Methyl-2-pentanone	U		21	43	µg/Kg-dry	1	12/21/2018 19:32
Acetone	U		45	140	µg/Kg-dry	1	12/21/2018 19:32
Benzene	U		7.4	43	µg/Kg-dry	1	12/21/2018 19:32
Bromochloromethane	U		22	43	µg/Kg-dry	1	12/21/2018 19:32
Bromodichloromethane	U		24	43	µg/Kg-dry	1	12/21/2018 19:32
Bromoform	U		18	43	µg/Kg-dry	1	12/21/2018 19:32
Bromomethane	U		83	140	µg/Kg-dry	1	12/21/2018 19:32
Carbon disulfide	U		22	43	µg/Kg-dry	1	12/21/2018 19:32
Carbon tetrachloride	U		17	43	µg/Kg-dry	1	12/21/2018 19:32
Chlorobenzene	U		14	43	µg/Kg-dry	1	12/21/2018 19:32
Chloroethane	U		15	140	µg/Kg-dry	1	12/21/2018 19:32
Chloroform	U		16	43	µg/Kg-dry	1	12/21/2018 19:32
Chloromethane	U		36	140	µg/Kg-dry	1	12/21/2018 19:32
cis-1,2-Dichloroethene	U		14	43	µg/Kg-dry	1	12/21/2018 19:32
cis-1,3-Dichloropropene	U		16	43	µg/Kg-dry	1	12/21/2018 19:32
Cyclohexane	U		14	43	µg/Kg-dry	1	12/21/2018 19:32
Dibromochloromethane	U		24	43	µg/Kg-dry	1	12/21/2018 19:32
Dichlorodifluoromethane	U		9.0	43	µg/Kg-dry	1	12/21/2018 19:32
Ethylbenzene	U		9.1	43	µg/Kg-dry	1	12/21/2018 19:32
Isopropylbenzene	U		13	43	µg/Kg-dry	1	12/21/2018 19:32
m,p-Xylene	U		21	86	µg/Kg-dry	1	12/21/2018 19:32
Methyl acetate	**130**	J	**19**	**290**	**µg/Kg-dry**	1	12/21/2018 19:32
Methyl tert-butyl ether	U		12	43	µg/Kg-dry	1	12/21/2018 19:32
Methylcyclohexane	U		16	43	µg/Kg-dry	1	12/21/2018 19:32
Methylene chloride	U		18	43	µg/Kg-dry	1	12/21/2018 19:32
o-Xylene	U		17	43	µg/Kg-dry	1	12/21/2018 19:32
Styrene	U		17	43	µg/Kg-dry	1	12/21/2018 19:32
Tetrachloroethene	U		13	43	µg/Kg-dry	1	12/21/2018 19:32
Toluene	U		12	43	µg/Kg-dry	1	12/21/2018 19:32
trans-1,2-Dichloroethene	U		16	43	µg/Kg-dry	1	12/21/2018 19:32
trans-1,3-Dichloropropene	U		24	43	µg/Kg-dry	1	12/21/2018 19:32
Trichloroethene	U		19	43	µg/Kg-dry	1	12/21/2018 19:32
Trichlorofluoromethane	U		22	43	µg/Kg-dry	1	12/21/2018 19:32
Vinyl chloride	U		9.3	43	µg/Kg-dry	1	12/21/2018 19:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (0-2)
Collection Date: 12/11/2018 10:25 AM

Work Order: 1812740
Lab ID: 1812740-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*101*			*70-130*	*%REC*	1	12/21/2018 19:32
Surr: 4-Bromofluorobenzene	*94.0*			*70-130*	*%REC*	1	12/21/2018 19:32
Surr: Dibromofluoromethane	*98.1*			*70-130*	*%REC*	1	12/21/2018 19:32
Surr: Toluene-d8	*98.9*			*70-130*	*%REC*	1	12/21/2018 19:32
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**18**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (6-8)
Collection Date: 12/11/2018 10:40 AM

Work Order: 1812740
Lab ID: 1812740-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		26	76	µg/Kg-dry	1	12/21/2018 19:20
Aroclor 1221	U		26	76	µg/Kg-dry	1	12/21/2018 19:20
Aroclor 1232	U		26	76	µg/Kg-dry	1	12/21/2018 19:20
Aroclor 1242	U		26	76	µg/Kg-dry	1	12/21/2018 19:20
Aroclor 1248	U		26	76	µg/Kg-dry	1	12/21/2018 19:20
Aroclor 1254	U		21	76	µg/Kg-dry	1	12/21/2018 19:20
Aroclor 1260	U		21	76	µg/Kg-dry	1	12/21/2018 19:20
Aroclor 1262	U		21	76	µg/Kg-dry	1	12/21/2018 19:20
Aroclor 1268	U		21	76	µg/Kg-dry	1	12/21/2018 19:20
Surr: Decachlorobiphenyl	*75.4*			*40-140*	*%REC*	1	12/21/2018 19:20
Surr: Tetrachloro-m-xylene	*70.8*			*45-124*	*%REC*	1	12/21/2018 19:20
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/26/18		Analyst: **RSH**
Mercury	**0.032**		**0.0022**	**0.022**	**mg/Kg-dry**	1	12/28/2018 12:13
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**16**		**0.098**	**0.38**	**mg/Kg-dry**	1	12/21/2018 04:50
Barium	**68**		**0.15**	**0.38**	**mg/Kg-dry**	1	12/21/2018 04:50
Cadmium	U		0.036	0.75	mg/Kg-dry	1	12/21/2018 04:50
Chromium	**23**		**0.021**	**0.38**	**mg/Kg-dry**	1	12/21/2018 04:50
Lead	**16**		**0.080**	**0.38**	**mg/Kg-dry**	1	12/21/2018 04:50
Selenium	**0.71**	J	**0.21**	**0.75**	**mg/Kg-dry**	1	12/21/2018 04:50
Silver	U		0.047	0.38	mg/Kg-dry	1	12/21/2018 04:50
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.8	6.0	mg/Kg-dry	1	12/22/2018 10:52
ORO (C21-C35)	U		2.0	6.0	mg/Kg-dry	1	12/22/2018 10:52
Surr: 4-Terphenyl-d14	*62.2*			*25-137*	*%REC*	1	12/22/2018 10:52
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.4	39	µg/Kg-dry	1	12/25/2018 00:20
1,2,4,5-Tetrachlorobenzene	U		31	400	µg/Kg-dry	1	12/25/2018 00:20
1,4-Dioxane	U		28	200	µg/Kg-dry	1	12/25/2018 00:20
2,2`-Oxybis(1-chloropropane)	U		9.3	39	µg/Kg-dry	1	12/25/2018 00:20
2,3,4,6-Tetrachlorophenol	U		10	80	µg/Kg-dry	1	12/25/2018 00:20
2,4,5-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/25/2018 00:20
2,4,6-Trichlorophenol	U		11	39	µg/Kg-dry	1	12/25/2018 00:20
2,4-Dichlorophenol	U		8.4	39	µg/Kg-dry	1	12/25/2018 00:20
2,4-Dimethylphenol	U		8.1	39	µg/Kg-dry	1	12/25/2018 00:20
2,4-Dinitrophenol	U		21	39	µg/Kg-dry	1	12/25/2018 00:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (6-8)
Collection Date: 12/11/2018 10:40 AM

Work Order: 1812740
Lab ID: 1812740-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		10	39	µg/Kg-dry	1	12/25/2018 00:20
2,6-Dinitrotoluene	U		6.5	39	µg/Kg-dry	1	12/25/2018 00:20
2-Chloronaphthalene	U		5.5	7.9	µg/Kg-dry	1	12/25/2018 00:20
2-Chlorophenol	U		13	39	µg/Kg-dry	1	12/25/2018 00:20
2-Methylnaphthalene	U		4.0	7.9	µg/Kg-dry	1	12/25/2018 00:20
2-Methylphenol	U		11	39	µg/Kg-dry	1	12/25/2018 00:20
2-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/25/2018 00:20
2-Nitrophenol	U		11	39	µg/Kg-dry	1	12/25/2018 00:20
3&4-Methylphenol	U		8.0	39	µg/Kg-dry	1	12/25/2018 00:20
3,3´-Dichlorobenzidine	U		5.9	200	µg/Kg-dry	1	12/25/2018 00:20
3-Nitroaniline	U		9.1	39	µg/Kg-dry	1	12/25/2018 00:20
4,6-Dinitro-2-methylphenol	U		10	39	µg/Kg-dry	1	12/25/2018 00:20
4-Bromophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/25/2018 00:20
4-Chloro-3-methylphenol	U		11	39	µg/Kg-dry	1	12/25/2018 00:20
4-Chloroaniline	U		6.3	80	µg/Kg-dry	1	12/25/2018 00:20
4-Chlorophenyl phenyl ether	U		11	39	µg/Kg-dry	1	12/25/2018 00:20
4-Nitroaniline	U		62	200	µg/Kg-dry	1	12/25/2018 00:20
4-Nitrophenol	U		35	39	µg/Kg-dry	1	12/25/2018 00:20
Acenaphthene	U		5.7	7.9	µg/Kg-dry	1	12/25/2018 00:20
Acenaphthylene	U		6.9	7.9	µg/Kg-dry	1	12/25/2018 00:20
Acetophenone	U		6.2	39	µg/Kg-dry	1	12/25/2018 00:20
Anthracene	U		5.6	7.9	µg/Kg-dry	1	12/25/2018 00:20
Atrazine	U		6.3	39	µg/Kg-dry	1	12/25/2018 00:20
Benzaldehyde	U		61	80	µg/Kg-dry	1	12/25/2018 00:20
Benzo(a)anthracene	U		6.9	7.9	µg/Kg-dry	1	12/25/2018 00:20
Benzo(a)pyrene	U		4.9	7.9	µg/Kg-dry	1	12/25/2018 00:20
Benzo(b)fluoranthene	U		5.9	7.9	µg/Kg-dry	1	12/25/2018 00:20
Benzo(g,h,i)perylene	U		6.1	7.9	µg/Kg-dry	1	12/25/2018 00:20
Benzo(k)fluoranthene	U		6.0	7.9	µg/Kg-dry	1	12/25/2018 00:20
Bis(2-chloroethoxy)methane	U		3.8	39	µg/Kg-dry	1	12/25/2018 00:20
Bis(2-chloroethyl)ether	U		11	39	µg/Kg-dry	1	12/25/2018 00:20
Bis(2-ethylhexyl)phthalate	U		6.9	39	µg/Kg-dry	1	12/25/2018 00:20
Butyl benzyl phthalate	U		6.7	39	µg/Kg-dry	1	12/25/2018 00:20
Caprolactam	U		14	39	µg/Kg-dry	1	12/25/2018 00:20
Carbazole	U		4.3	39	µg/Kg-dry	1	12/25/2018 00:20
Chrysene	U		6.4	7.9	µg/Kg-dry	1	12/25/2018 00:20
Dibenzo(a,h)anthracene	U		4.3	7.9	µg/Kg-dry	1	12/25/2018 00:20
Dibenzofuran	U		5.8	39	µg/Kg-dry	1	12/25/2018 00:20
Diethyl phthalate	U		6.1	39	µg/Kg-dry	1	12/25/2018 00:20
Dimethyl phthalate	U		7.7	39	µg/Kg-dry	1	12/25/2018 00:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (6-8)
Collection Date: 12/11/2018 10:40 AM

Work Order: 1812740
Lab ID: 1812740-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.3	39	µg/Kg-dry	1	12/25/2018 00:20
Di-n-octyl phthalate	U		7.6	39	µg/Kg-dry	1	12/25/2018 00:20
Fluoranthene	U		3.8	7.9	µg/Kg-dry	1	12/25/2018 00:20
Fluorene	U		5.8	7.9	µg/Kg-dry	1	12/25/2018 00:20
Hexachlorobenzene	U		12	39	µg/Kg-dry	1	12/25/2018 00:20
Hexachlorobutadiene	U		22	39	µg/Kg-dry	1	12/25/2018 00:20
Hexachlorocyclopentadiene	U		14	39	µg/Kg-dry	1	12/25/2018 00:20
Hexachloroethane	U		16	39	µg/Kg-dry	1	12/25/2018 00:20
Indeno(1,2,3-cd)pyrene	U		5.5	7.9	µg/Kg-dry	1	12/25/2018 00:20
Isophorone	U		7.8	200	µg/Kg-dry	1	12/25/2018 00:20
Naphthalene	U		5.1	7.9	µg/Kg-dry	1	12/25/2018 00:20
Nitrobenzene	U		13	200	µg/Kg-dry	1	12/25/2018 00:20
N-Nitrosodi-n-propylamine	U		6.5	39	µg/Kg-dry	1	12/25/2018 00:20
N-Nitrosodiphenylamine	U		3.8	39	µg/Kg-dry	1	12/25/2018 00:20
Pentachlorophenol	U		15	39	µg/Kg-dry	1	12/25/2018 00:20
Phenanthrene	U		3.7	7.9	µg/Kg-dry	1	12/25/2018 00:20
Phenol	U		9.9	39	µg/Kg-dry	1	12/25/2018 00:20
Pyrene	U		1.4	7.9	µg/Kg-dry	1	12/25/2018 00:20
Surr: 2,4,6-Tribromophenol	*48.8*			*38-92*	*%REC*	1	12/25/2018 00:20
Surr: 2-Fluorobiphenyl	*62.7*			*44-107*	*%REC*	1	12/25/2018 00:20
Surr: 2-Fluorophenol	*45.8*			*37-109*	*%REC*	1	12/25/2018 00:20
Surr: 4-Terphenyl-d14	*61.2*			*52-123*	*%REC*	1	12/25/2018 00:20
Surr: Nitrobenzene-d5	*56.3*			*41-94*	*%REC*	1	12/25/2018 00:20
Surr: Phenol-d6	*41.3*			*28-111*	*%REC*	1	12/25/2018 00:20
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,700	6,900	µg/Kg-dry	1	12/19/2018 07:19
Surr: Toluene-d8	*87.4*			*70-130*	*%REC*	1	12/19/2018 07:19
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		21	46	µg/Kg-dry	1	12/21/2018 19:48
1,1,2,2-Tetrachloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 19:48
1,1,2-Trichloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 19:48
1,1,2-Trichlorotrifluoroethane	U		29	46	µg/Kg-dry	1	12/21/2018 19:48
1,1-Dichloroethane	U		17	46	µg/Kg-dry	1	12/21/2018 19:48
1,1-Dichloroethene	U		15	46	µg/Kg-dry	1	12/21/2018 19:48
1,2,3-Trichlorobenzene	U		22	46	µg/Kg-dry	1	12/21/2018 19:48
1,2,4-Trichlorobenzene	U		16	46	µg/Kg-dry	1	12/21/2018 19:48
1,2-Dibromo-3-chloropropane	U		42	150	µg/Kg-dry	1	12/21/2018 19:48
1,2-Dibromoethane	U		13	46	µg/Kg-dry	1	12/21/2018 19:48
1,2-Dichlorobenzene	U		17	46	µg/Kg-dry	1	12/21/2018 19:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (6-8)
Collection Date: 12/11/2018 10:40 AM

Work Order: 1812740
Lab ID: 1812740-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		20	46	µg/Kg-dry	1	12/21/2018 19:48
1,2-Dichloropropane	U		8.0	46	µg/Kg-dry	1	12/21/2018 19:48
1,3-Dichlorobenzene	U		15	46	µg/Kg-dry	1	12/21/2018 19:48
1,4-Dichlorobenzene	U		11	46	µg/Kg-dry	1	12/21/2018 19:48
2-Butanone	U		38	310	µg/Kg-dry	1	12/21/2018 19:48
2-Hexanone	U		23	46	µg/Kg-dry	1	12/21/2018 19:48
4-Methyl-2-pentanone	U		22	46	µg/Kg-dry	1	12/21/2018 19:48
Acetone	U		48	150	µg/Kg-dry	1	12/21/2018 19:48
Benzene	U		7.9	46	µg/Kg-dry	1	12/21/2018 19:48
Bromochloromethane	U		23	46	µg/Kg-dry	1	12/21/2018 19:48
Bromodichloromethane	U		26	46	µg/Kg-dry	1	12/21/2018 19:48
Bromoform	U		19	46	µg/Kg-dry	1	12/21/2018 19:48
Bromomethane	U		88	150	µg/Kg-dry	1	12/21/2018 19:48
Carbon disulfide	U		24	46	µg/Kg-dry	1	12/21/2018 19:48
Carbon tetrachloride	U		18	46	µg/Kg-dry	1	12/21/2018 19:48
Chlorobenzene	U		15	46	µg/Kg-dry	1	12/21/2018 19:48
Chloroethane	U		16	150	µg/Kg-dry	1	12/21/2018 19:48
Chloroform	U		17	46	µg/Kg-dry	1	12/21/2018 19:48
Chloromethane	U		38	150	µg/Kg-dry	1	12/21/2018 19:48
cis-1,2-Dichloroethene	U		14	46	µg/Kg-dry	1	12/21/2018 19:48
cis-1,3-Dichloropropene	U		17	46	µg/Kg-dry	1	12/21/2018 19:48
Cyclohexane	U		15	46	µg/Kg-dry	1	12/21/2018 19:48
Dibromochloromethane	U		26	46	µg/Kg-dry	1	12/21/2018 19:48
Dichlorodifluoromethane	U		9.6	46	µg/Kg-dry	1	12/21/2018 19:48
Ethylbenzene	U		9.7	46	µg/Kg-dry	1	12/21/2018 19:48
Isopropylbenzene	U		14	46	µg/Kg-dry	1	12/21/2018 19:48
m,p-Xylene	U		22	92	µg/Kg-dry	1	12/21/2018 19:48
Methyl acetate	**41**	J	**21**	**310**	**µg/Kg-dry**	1	12/21/2018 19:48
Methyl tert-butyl ether	U		13	46	µg/Kg-dry	1	12/21/2018 19:48
Methylcyclohexane	U		18	46	µg/Kg-dry	1	12/21/2018 19:48
Methylene chloride	U		20	46	µg/Kg-dry	1	12/21/2018 19:48
o-Xylene	U		18	46	µg/Kg-dry	1	12/21/2018 19:48
Styrene	U		18	46	µg/Kg-dry	1	12/21/2018 19:48
Tetrachloroethene	U		13	46	µg/Kg-dry	1	12/21/2018 19:48
Toluene	U		13	46	µg/Kg-dry	1	12/21/2018 19:48
trans-1,2-Dichloroethene	U		17	46	µg/Kg-dry	1	12/21/2018 19:48
trans-1,3-Dichloropropene	U		26	46	µg/Kg-dry	1	12/21/2018 19:48
Trichloroethene	U		21	46	µg/Kg-dry	1	12/21/2018 19:48
Trichlorofluoromethane	U		23	46	µg/Kg-dry	1	12/21/2018 19:48
Vinyl chloride	U		9.9	46	µg/Kg-dry	1	12/21/2018 19:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-9 (6-8)
Collection Date: 12/11/2018 10:40 AM

Work Order: 1812740
Lab ID: 1812740-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*102*			*70-130*	*%REC*	1	12/21/2018 19:48
Surr: 4-Bromofluorobenzene	*91.3*			*70-130*	*%REC*	1	12/21/2018 19:48
Surr: Dibromofluoromethane	*100*			*70-130*	*%REC*	1	12/21/2018 19:48
Surr: Toluene-d8	*97.4*			*70-130*	*%REC*	1	12/21/2018 19:48
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**16**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (0-2)
Collection Date: 12/11/2018 10:50 AM

Work Order: 1812740
Lab ID: 1812740-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		28	82	µg/Kg-dry	1	12/21/2018 19:34
Aroclor 1221	U		28	82	µg/Kg-dry	1	12/21/2018 19:34
Aroclor 1232	U		28	82	µg/Kg-dry	1	12/21/2018 19:34
Aroclor 1242	U		28	82	µg/Kg-dry	1	12/21/2018 19:34
Aroclor 1248	U		28	82	µg/Kg-dry	1	12/21/2018 19:34
Aroclor 1254	U		23	82	µg/Kg-dry	1	12/21/2018 19:34
Aroclor 1260	**58**	J	**23**	**82**	**µg/Kg-dry**	1	12/21/2018 19:34
Aroclor 1262	U		23	82	µg/Kg-dry	1	12/21/2018 19:34
Aroclor 1268	U		23	82	µg/Kg-dry	1	12/21/2018 19:34
Surr: Decachlorobiphenyl	*88.6*			*40-140*	*%REC*	1	12/21/2018 19:34
Surr: Tetrachloro-m-xylene	*86.6*			*45-124*	*%REC*	1	12/21/2018 19:34
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/26/18		Analyst: **RSH**
Mercury	**0.045**		**0.0019**	**0.019**	**mg/Kg-dry**	1	12/28/2018 12:15
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**6.7**		**0.12**	**0.44**	**mg/Kg-dry**	1	12/21/2018 04:56
Barium	**170**		**0.18**	**0.44**	**mg/Kg-dry**	1	12/21/2018 04:56
Cadmium	**0.10**	J	**0.043**	**0.89**	**mg/Kg-dry**	1	12/21/2018 04:56
Chromium	**12**		**0.025**	**0.44**	**mg/Kg-dry**	1	12/21/2018 04:56
Lead	**22**		**0.094**	**0.44**	**mg/Kg-dry**	1	12/21/2018 04:56
Selenium	**0.55**	J	**0.25**	**0.89**	**mg/Kg-dry**	1	12/21/2018 04:56
Silver	U		0.055	0.44	mg/Kg-dry	1	12/21/2018 04:56
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	**12**		**1.9**	**6.4**	**mg/Kg-dry**	1	12/22/2018 11:20
ORO (C21-C35)	**33**		**2.1**	**6.4**	**mg/Kg-dry**	1	12/22/2018 11:20
Surr: 4-Terphenyl-d14	*64.3*			*25-137*	*%REC*	1	12/22/2018 11:20
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.6	40	µg/Kg-dry	1	12/25/2018 00:01
1,2,4,5-Tetrachlorobenzene	U		32	410	µg/Kg-dry	1	12/25/2018 00:01
1,4-Dioxane	U		29	200	µg/Kg-dry	1	12/25/2018 00:01
2,2`-Oxybis(1-chloropropane)	U		9.5	40	µg/Kg-dry	1	12/25/2018 00:01
2,3,4,6-Tetrachlorophenol	U		11	82	µg/Kg-dry	1	12/25/2018 00:01
2,4,5-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/25/2018 00:01
2,4,6-Trichlorophenol	U		11	40	µg/Kg-dry	1	12/25/2018 00:01
2,4-Dichlorophenol	U		8.6	40	µg/Kg-dry	1	12/25/2018 00:01
2,4-Dimethylphenol	U		8.3	40	µg/Kg-dry	1	12/25/2018 00:01
2,4-Dinitrophenol	U		22	40	µg/Kg-dry	1	12/25/2018 00:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (0-2)
Collection Date: 12/11/2018 10:50 AM

Work Order: 1812740
Lab ID: 1812740-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		11	40	µg/Kg-dry	1	12/25/2018 00:01
2,6-Dinitrotoluene	U		6.7	40	µg/Kg-dry	1	12/25/2018 00:01
2-Chloronaphthalene	U		5.7	8.1	µg/Kg-dry	1	12/25/2018 00:01
2-Chlorophenol	U		13	40	µg/Kg-dry	1	12/25/2018 00:01
2-Methylnaphthalene	U		4.1	8.1	µg/Kg-dry	1	12/25/2018 00:01
2-Methylphenol	U		11	40	µg/Kg-dry	1	12/25/2018 00:01
2-Nitroaniline	U		9.3	40	µg/Kg-dry	1	12/25/2018 00:01
2-Nitrophenol	U		12	40	µg/Kg-dry	1	12/25/2018 00:01
3&4-Methylphenol	U		8.2	40	µg/Kg-dry	1	12/25/2018 00:01
3,3´-Dichlorobenzidine	U		6.0	200	µg/Kg-dry	1	12/25/2018 00:01
3-Nitroaniline	U		9.3	40	µg/Kg-dry	1	12/25/2018 00:01
4,6-Dinitro-2-methylphenol	U		10	40	µg/Kg-dry	1	12/25/2018 00:01
4-Bromophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/25/2018 00:01
4-Chloro-3-methylphenol	U		12	40	µg/Kg-dry	1	12/25/2018 00:01
4-Chloroaniline	U		6.4	82	µg/Kg-dry	1	12/25/2018 00:01
4-Chlorophenyl phenyl ether	U		11	40	µg/Kg-dry	1	12/25/2018 00:01
4-Nitroaniline	U		63	200	µg/Kg-dry	1	12/25/2018 00:01
4-Nitrophenol	U		36	40	µg/Kg-dry	1	12/25/2018 00:01
Acenaphthene	U		5.9	8.1	µg/Kg-dry	1	12/25/2018 00:01
Acenaphthylene	U		7.1	8.1	µg/Kg-dry	1	12/25/2018 00:01
Acetophenone	U		6.4	40	µg/Kg-dry	1	12/25/2018 00:01
Anthracene	U		5.7	8.1	µg/Kg-dry	1	12/25/2018 00:01
Atrazine	U		6.4	40	µg/Kg-dry	1	12/25/2018 00:01
Benzaldehyde	U		62	82	µg/Kg-dry	1	12/25/2018 00:01
Benzo(a)anthracene	U		7.0	8.1	µg/Kg-dry	1	12/25/2018 00:01
Benzo(a)pyrene	U		5.0	8.1	µg/Kg-dry	1	12/25/2018 00:01
Benzo(b)fluoranthene	U		6.1	8.1	µg/Kg-dry	1	12/25/2018 00:01
Benzo(g,h,i)perylene	U		6.2	8.1	µg/Kg-dry	1	12/25/2018 00:01
Benzo(k)fluoranthene	U		6.2	8.1	µg/Kg-dry	1	12/25/2018 00:01
Bis(2-chloroethoxy)methane	U		3.9	40	µg/Kg-dry	1	12/25/2018 00:01
Bis(2-chloroethyl)ether	U		12	40	µg/Kg-dry	1	12/25/2018 00:01
Bis(2-ethylhexyl)phthalate	U		7.1	40	µg/Kg-dry	1	12/25/2018 00:01
Butyl benzyl phthalate	U		6.9	40	µg/Kg-dry	1	12/25/2018 00:01
Caprolactam	U		14	40	µg/Kg-dry	1	12/25/2018 00:01
Carbazole	U		4.4	40	µg/Kg-dry	1	12/25/2018 00:01
Chrysene	U		6.6	8.1	µg/Kg-dry	1	12/25/2018 00:01
Dibenzo(a,h)anthracene	U		4.4	8.1	µg/Kg-dry	1	12/25/2018 00:01
Dibenzofuran	U		6.0	40	µg/Kg-dry	1	12/25/2018 00:01
Diethyl phthalate	U		6.2	40	µg/Kg-dry	1	12/25/2018 00:01
Dimethyl phthalate	U		7.9	40	µg/Kg-dry	1	12/25/2018 00:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (0-2)
Collection Date: 12/11/2018 10:50 AM

Work Order: 1812740
Lab ID: 1812740-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		7.4	40	µg/Kg-dry	1	12/25/2018 00:01
Di-n-octyl phthalate	U		7.8	40	µg/Kg-dry	1	12/25/2018 00:01
Fluoranthene	U		3.9	8.1	µg/Kg-dry	1	12/25/2018 00:01
Fluorene	U		5.9	8.1	µg/Kg-dry	1	12/25/2018 00:01
Hexachlorobenzene	U		12	40	µg/Kg-dry	1	12/25/2018 00:01
Hexachlorobutadiene	U		22	40	µg/Kg-dry	1	12/25/2018 00:01
Hexachlorocyclopentadiene	U		14	40	µg/Kg-dry	1	12/25/2018 00:01
Hexachloroethane	U		17	40	µg/Kg-dry	1	12/25/2018 00:01
Indeno(1,2,3-cd)pyrene	U		5.7	8.1	µg/Kg-dry	1	12/25/2018 00:01
Isophorone	U		7.9	200	µg/Kg-dry	1	12/25/2018 00:01
Naphthalene	U		5.2	8.1	µg/Kg-dry	1	12/25/2018 00:01
Nitrobenzene	U		14	200	µg/Kg-dry	1	12/25/2018 00:01
N-Nitrosodi-n-propylamine	U		6.7	40	µg/Kg-dry	1	12/25/2018 00:01
N-Nitrosodiphenylamine	U		3.9	40	µg/Kg-dry	1	12/25/2018 00:01
Pentachlorophenol	U		15	40	µg/Kg-dry	1	12/25/2018 00:01
Phenanthrene	U		3.8	8.1	µg/Kg-dry	1	12/25/2018 00:01
Phenol	U		10	40	µg/Kg-dry	1	12/25/2018 00:01
Pyrene	U		1.5	8.1	µg/Kg-dry	1	12/25/2018 00:01
Surr: 2,4,6-Tribromophenol	*61.2*			*38-92*	*%REC*	1	12/25/2018 00:01
Surr: 2-Fluorobiphenyl	*66.8*			*44-107*	*%REC*	1	12/25/2018 00:01
Surr: 2-Fluorophenol	*52.4*			*37-109*	*%REC*	1	12/25/2018 00:01
Surr: 4-Terphenyl-d14	*57.9*			*52-123*	*%REC*	1	12/25/2018 00:01
Surr: Nitrobenzene-d5	*60.1*			*41-94*	*%REC*	1	12/25/2018 00:01
Surr: Phenol-d6	*47.1*			*28-111*	*%REC*	1	12/25/2018 00:01
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	**2,700**	J	**2,000**	**7,800**	**µg/Kg-dry**	1	12/19/2018 07:35
Surr: Toluene-d8	*86.2*			*70-130*	*%REC*	1	12/19/2018 07:35
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **WH**
1,1,1-Trichloroethane	**230**		**21**	**47**	**µg/Kg-dry**	1	12/19/2018 17:58
1,1,2,2-Tetrachloroethane	U		21	47	µg/Kg-dry	1	12/19/2018 17:58
1,1,2-Trichloroethane	U		20	47	µg/Kg-dry	1	12/19/2018 17:58
1,1,2-Trichlorotrifluoroethane	U		30	47	µg/Kg-dry	1	12/19/2018 17:58
1,1-Dichloroethane	U		17	47	µg/Kg-dry	1	12/19/2018 17:58
1,1-Dichloroethene	U		15	47	µg/Kg-dry	1	12/19/2018 17:58
1,2,3-Trichlorobenzene	U		22	47	µg/Kg-dry	1	12/19/2018 17:58
1,2,4-Trichlorobenzene	U		16	47	µg/Kg-dry	1	12/19/2018 17:58
1,2-Dibromo-3-chloropropane	U		43	160	µg/Kg-dry	1	12/19/2018 17:58
1,2-Dibromoethane	U		13	47	µg/Kg-dry	1	12/19/2018 17:58
1,2-Dichlorobenzene	U		18	47	µg/Kg-dry	1	12/19/2018 17:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (0-2)
Collection Date: 12/11/2018 10:50 AM

Work Order: 1812740
Lab ID: 1812740-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		20	47	µg/Kg-dry	1	12/19/2018 17:58
1,2-Dichloropropane	U		8.2	47	µg/Kg-dry	1	12/19/2018 17:58
1,3-Dichlorobenzene	U		16	47	µg/Kg-dry	1	12/19/2018 17:58
1,4-Dichlorobenzene	U		11	47	µg/Kg-dry	1	12/19/2018 17:58
2-Butanone	U		39	310	µg/Kg-dry	1	12/19/2018 17:58
2-Hexanone	U		23	47	µg/Kg-dry	1	12/19/2018 17:58
4-Methyl-2-pentanone	U		22	47	µg/Kg-dry	1	12/19/2018 17:58
Acetone	**51**	J	**49**	**160**	**µg/Kg-dry**	1	12/19/2018 17:58
Benzene	U		8.0	47	µg/Kg-dry	1	12/19/2018 17:58
Bromochloromethane	U		24	47	µg/Kg-dry	1	12/19/2018 17:58
Bromodichloromethane	U		26	47	µg/Kg-dry	1	12/19/2018 17:58
Bromoform	U		20	47	µg/Kg-dry	1	12/19/2018 17:58
Bromomethane	U		90	160	µg/Kg-dry	1	12/19/2018 17:58
Carbon disulfide	U		24	47	µg/Kg-dry	1	12/19/2018 17:58
Carbon tetrachloride	U		18	47	µg/Kg-dry	1	12/19/2018 17:58
Chlorobenzene	U		16	47	µg/Kg-dry	1	12/19/2018 17:58
Chloroethane	U		16	160	µg/Kg-dry	1	12/19/2018 17:58
Chloroform	U		17	47	µg/Kg-dry	1	12/19/2018 17:58
Chloromethane	U		39	160	µg/Kg-dry	1	12/19/2018 17:58
cis-1,2-Dichloroethene	U		15	47	µg/Kg-dry	1	12/19/2018 17:58
cis-1,3-Dichloropropene	U		17	47	µg/Kg-dry	1	12/19/2018 17:58
Cyclohexane	U		15	47	µg/Kg-dry	1	12/19/2018 17:58
Dibromochloromethane	U		26	47	µg/Kg-dry	1	12/19/2018 17:58
Dichlorodifluoromethane	U		9.8	47	µg/Kg-dry	1	12/19/2018 17:58
Ethylbenzene	U		9.9	47	µg/Kg-dry	1	12/19/2018 17:58
Isopropylbenzene	U		14	47	µg/Kg-dry	1	12/19/2018 17:58
m,p-Xylene	U		22	94	µg/Kg-dry	1	12/19/2018 17:58
Methyl acetate	U		21	310	µg/Kg-dry	1	12/19/2018 17:58
Methyl tert-butyl ether	U		14	47	µg/Kg-dry	1	12/19/2018 17:58
Methylcyclohexane	U		18	47	µg/Kg-dry	1	12/19/2018 17:58
Methylene chloride	U		20	47	µg/Kg-dry	1	12/19/2018 17:58
o-Xylene	**23**	J	**18**	**47**	**µg/Kg-dry**	1	12/19/2018 17:58
Styrene	U		19	47	µg/Kg-dry	1	12/19/2018 17:58
Tetrachloroethene	**860**		**14**	**47**	**µg/Kg-dry**	1	12/19/2018 17:58
Toluene	**16**	J	**13**	**47**	**µg/Kg-dry**	1	12/19/2018 17:58
trans-1,2-Dichloroethene	U		17	47	µg/Kg-dry	1	12/19/2018 17:58
trans-1,3-Dichloropropene	U		26	47	µg/Kg-dry	1	12/19/2018 17:58
Trichloroethene	U		21	47	µg/Kg-dry	1	12/19/2018 17:58
Trichlorofluoromethane	U		24	47	µg/Kg-dry	1	12/19/2018 17:58
Vinyl chloride	U		10	47	µg/Kg-dry	1	12/19/2018 17:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (0-2)
Collection Date: 12/11/2018 10:50 AM

Work Order: 1812740
Lab ID: 1812740-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*111*			*70-130*	*%REC*	1	12/19/2018 17:58
Surr: 4-Bromofluorobenzene	*97.2*			*70-130*	*%REC*	1	12/19/2018 17:58
Surr: Dibromofluoromethane	*102*			*70-130*	*%REC*	1	12/19/2018 17:58
Surr: Toluene-d8	*98.0*			*70-130*	*%REC*	1	12/19/2018 17:58
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**22**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (12-14)
Collection Date: 12/11/2018 11:15 AM

Work Order: 1812740
Lab ID: 1812740-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		27	78	µg/Kg-dry	1	12/24/2018 09:55
Aroclor 1221	U		27	78	µg/Kg-dry	1	12/24/2018 09:55
Aroclor 1232	U		27	78	µg/Kg-dry	1	12/24/2018 09:55
Aroclor 1242	U		27	78	µg/Kg-dry	1	12/24/2018 09:55
Aroclor 1248	U		27	78	µg/Kg-dry	1	12/24/2018 09:55
Aroclor 1254	U		22	78	µg/Kg-dry	1	12/24/2018 09:55
Aroclor 1260	U		22	78	µg/Kg-dry	1	12/24/2018 09:55
Aroclor 1262	U		22	78	µg/Kg-dry	1	12/24/2018 09:55
Aroclor 1268	U		22	78	µg/Kg-dry	1	12/24/2018 09:55
Surr: Decachlorobiphenyl	*92.6*			*40-140*	*%REC*	1	12/24/2018 09:55
Surr: Tetrachloro-m-xylene	*86.6*			*45-124*	*%REC*	1	12/24/2018 09:55
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/26/18		Analyst: **RSH**
Mercury	**0.040**		**0.0020**	**0.020**	**mg/Kg-dry**	1	12/28/2018 12:25
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**11**		**0.11**	**0.43**	**mg/Kg-dry**	1	12/21/2018 05:02
Barium	**81**		**0.17**	**0.43**	**mg/Kg-dry**	1	12/21/2018 05:02
Cadmium	U		0.042	0.87	mg/Kg-dry	1	12/21/2018 05:02
Chromium	**13**		**0.024**	**0.43**	**mg/Kg-dry**	1	12/21/2018 05:02
Lead	**13**		**0.092**	**0.43**	**mg/Kg-dry**	1	12/21/2018 05:02
Selenium	**0.74**	J	**0.24**	**0.87**	**mg/Kg-dry**	1	12/21/2018 05:02
Silver	U		0.054	0.43	mg/Kg-dry	1	12/21/2018 05:02
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.8	5.9	mg/Kg-dry	1	12/22/2018 11:47
ORO (C21-C35)	U		2.0	5.9	mg/Kg-dry	1	12/22/2018 11:47
Surr: 4-Terphenyl-d14	*58.3*			*25-137*	*%REC*	1	12/22/2018 11:47
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.2	38	µg/Kg-dry	1	12/24/2018 23:40
1,2,4,5-Tetrachlorobenzene	U		29	380	µg/Kg-dry	1	12/24/2018 23:40
1,4-Dioxane	U		27	190	µg/Kg-dry	1	12/24/2018 23:40
2,2`-Oxybis(1-chloropropane)	U		8.9	38	µg/Kg-dry	1	12/24/2018 23:40
2,3,4,6-Tetrachlorophenol	U		9.9	76	µg/Kg-dry	1	12/24/2018 23:40
2,4,5-Trichlorophenol	U		10	38	µg/Kg-dry	1	12/24/2018 23:40
2,4,6-Trichlorophenol	U		10	38	µg/Kg-dry	1	12/24/2018 23:40
2,4-Dichlorophenol	U		8.0	38	µg/Kg-dry	1	12/24/2018 23:40
2,4-Dimethylphenol	U		7.7	38	µg/Kg-dry	1	12/24/2018 23:40
2,4-Dinitrophenol	U		20	38	µg/Kg-dry	1	12/24/2018 23:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (12-14)
Collection Date: 12/11/2018 11:15 AM

Work Order: 1812740
Lab ID: 1812740-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		9.9	38	µg/Kg-dry	1	12/24/2018 23:40
2,6-Dinitrotoluene	U		6.3	38	µg/Kg-dry	1	12/24/2018 23:40
2-Chloronaphthalene	U		5.3	7.6	µg/Kg-dry	1	12/24/2018 23:40
2-Chlorophenol	U		12	38	µg/Kg-dry	1	12/24/2018 23:40
2-Methylnaphthalene	U		3.9	7.6	µg/Kg-dry	1	12/24/2018 23:40
2-Methylphenol	U		10	38	µg/Kg-dry	1	12/24/2018 23:40
2-Nitroaniline	U		8.7	38	µg/Kg-dry	1	12/24/2018 23:40
2-Nitrophenol	U		11	38	µg/Kg-dry	1	12/24/2018 23:40
3&4-Methylphenol	U		7.6	38	µg/Kg-dry	1	12/24/2018 23:40
3,3´-Dichlorobenzidine	U		5.6	190	µg/Kg-dry	1	12/24/2018 23:40
3-Nitroaniline	U		8.7	38	µg/Kg-dry	1	12/24/2018 23:40
4,6-Dinitro-2-methylphenol	U		9.5	38	µg/Kg-dry	1	12/24/2018 23:40
4-Bromophenyl phenyl ether	U		10	38	µg/Kg-dry	1	12/24/2018 23:40
4-Chloro-3-methylphenol	U		11	38	µg/Kg-dry	1	12/24/2018 23:40
4-Chloroaniline	U		6.0	76	µg/Kg-dry	1	12/24/2018 23:40
4-Chlorophenyl phenyl ether	U		10	38	µg/Kg-dry	1	12/24/2018 23:40
4-Nitroaniline	U		59	190	µg/Kg-dry	1	12/24/2018 23:40
4-Nitrophenol	U		34	38	µg/Kg-dry	1	12/24/2018 23:40
Acenaphthene	U		5.5	7.6	µg/Kg-dry	1	12/24/2018 23:40
Acenaphthylene	U		6.6	7.6	µg/Kg-dry	1	12/24/2018 23:40
Acetophenone	U		5.9	38	µg/Kg-dry	1	12/24/2018 23:40
Anthracene	U		5.3	7.6	µg/Kg-dry	1	12/24/2018 23:40
Atrazine	U		6.0	38	µg/Kg-dry	1	12/24/2018 23:40
Benzaldehyde	U		58	76	µg/Kg-dry	1	12/24/2018 23:40
Benzo(a)anthracene	U		6.6	7.6	µg/Kg-dry	1	12/24/2018 23:40
Benzo(a)pyrene	U		4.7	7.6	µg/Kg-dry	1	12/24/2018 23:40
Benzo(b)fluoranthene	U		5.7	7.6	µg/Kg-dry	1	12/24/2018 23:40
Benzo(g,h,i)perylene	U		5.8	7.6	µg/Kg-dry	1	12/24/2018 23:40
Benzo(k)fluoranthene	U		5.7	7.6	µg/Kg-dry	1	12/24/2018 23:40
Bis(2-chloroethoxy)methane	U		3.6	38	µg/Kg-dry	1	12/24/2018 23:40
Bis(2-chloroethyl)ether	U		11	38	µg/Kg-dry	1	12/24/2018 23:40
Bis(2-ethylhexyl)phthalate	U		6.6	38	µg/Kg-dry	1	12/24/2018 23:40
Butyl benzyl phthalate	U		6.4	38	µg/Kg-dry	1	12/24/2018 23:40
Caprolactam	U		13	38	µg/Kg-dry	1	12/24/2018 23:40
Carbazole	U		4.1	38	µg/Kg-dry	1	12/24/2018 23:40
Chrysene	U		6.1	7.6	µg/Kg-dry	1	12/24/2018 23:40
Dibenzo(a,h)anthracene	U		4.1	7.6	µg/Kg-dry	1	12/24/2018 23:40
Dibenzofuran	U		5.6	38	µg/Kg-dry	1	12/24/2018 23:40
Diethyl phthalate	U		5.8	38	µg/Kg-dry	1	12/24/2018 23:40
Dimethyl phthalate	U		7.4	38	µg/Kg-dry	1	12/24/2018 23:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (12-14)
Collection Date: 12/11/2018 11:15 AM

Work Order: 1812740
Lab ID: 1812740-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		6.9	38	µg/Kg-dry	1	12/24/2018 23:40
Di-n-octyl phthalate	U		7.3	38	µg/Kg-dry	1	12/24/2018 23:40
Fluoranthene	U		3.6	7.6	µg/Kg-dry	1	12/24/2018 23:40
Fluorene	U		5.5	7.6	µg/Kg-dry	1	12/24/2018 23:40
Hexachlorobenzene	U		11	38	µg/Kg-dry	1	12/24/2018 23:40
Hexachlorobutadiene	U		21	38	µg/Kg-dry	1	12/24/2018 23:40
Hexachlorocyclopentadiene	U		13	38	µg/Kg-dry	1	12/24/2018 23:40
Hexachloroethane	U		16	38	µg/Kg-dry	1	12/24/2018 23:40
Indeno(1,2,3-cd)pyrene	U		5.3	7.6	µg/Kg-dry	1	12/24/2018 23:40
Isophorone	U		7.4	190	µg/Kg-dry	1	12/24/2018 23:40
Naphthalene	U		4.8	7.6	µg/Kg-dry	1	12/24/2018 23:40
Nitrobenzene	U		13	190	µg/Kg-dry	1	12/24/2018 23:40
N-Nitrosodi-n-propylamine	U		6.3	38	µg/Kg-dry	1	12/24/2018 23:40
N-Nitrosodiphenylamine	U		3.6	38	µg/Kg-dry	1	12/24/2018 23:40
Pentachlorophenol	U		14	38	µg/Kg-dry	1	12/24/2018 23:40
Phenanthrene	U		3.5	7.6	µg/Kg-dry	1	12/24/2018 23:40
Phenol	U		9.4	38	µg/Kg-dry	1	12/24/2018 23:40
Pyrene	U		1.4	7.6	µg/Kg-dry	1	12/24/2018 23:40
Surr: 2,4,6-Tribromophenol	*59.0*			*38-92*	*%REC*	1	12/24/2018 23:40
Surr: 2-Fluorobiphenyl	*69.1*			*44-107*	*%REC*	1	12/24/2018 23:40
Surr: 2-Fluorophenol	*59.1*			*37-109*	*%REC*	1	12/24/2018 23:40
Surr: 4-Terphenyl-d14	*60.7*			*52-123*	*%REC*	1	12/24/2018 23:40
Surr: Nitrobenzene-d5	*61.8*			*41-94*	*%REC*	1	12/24/2018 23:40
Surr: Phenol-d6	*50.2*			*28-111*	*%REC*	1	12/24/2018 23:40
GASOLINE RANGE ORGANICS BY GC-MS			Method: **SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	**24,000**		**1,700**	**6,800**	**µg/Kg-dry**	1	12/19/2018 07:51
Surr: Toluene-d8	*94.7*			*70-130*	*%REC*	1	12/19/2018 07:51
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **WH**
1,1,1-Trichloroethane	U		18	41	µg/Kg-dry	1	12/19/2018 18:14
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	12/19/2018 18:14
1,1,2-Trichloroethane	U		17	41	µg/Kg-dry	1	12/19/2018 18:14
1,1,2-Trichlorotrifluoroethane	U		26	41	µg/Kg-dry	1	12/19/2018 18:14
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	12/19/2018 18:14
1,1-Dichloroethene	**62**		**13**	**41**	**µg/Kg-dry**	1	12/19/2018 18:14
1,2,3-Trichlorobenzene	U		19	41	µg/Kg-dry	1	12/19/2018 18:14
1,2,4-Trichlorobenzene	U		14	41	µg/Kg-dry	1	12/19/2018 18:14
1,2-Dibromo-3-chloropropane	U		37	140	µg/Kg-dry	1	12/19/2018 18:14
1,2-Dibromoethane	U		11	41	µg/Kg-dry	1	12/19/2018 18:14
1,2-Dichlorobenzene	U		15	41	µg/Kg-dry	1	12/19/2018 18:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (12-14)
Collection Date: 12/11/2018 11:15 AM

Work Order: 1812740
Lab ID: 1812740-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		17	41	µg/Kg-dry	1	12/19/2018 18:14
1,2-Dichloropropane	U		7.1	41	µg/Kg-dry	1	12/19/2018 18:14
1,3-Dichlorobenzene	U		14	41	µg/Kg-dry	1	12/19/2018 18:14
1,4-Dichlorobenzene	U		9.8	41	µg/Kg-dry	1	12/19/2018 18:14
2-Butanone	U		33	270	µg/Kg-dry	1	12/19/2018 18:14
2-Hexanone	U		20	41	µg/Kg-dry	1	12/19/2018 18:14
4-Methyl-2-pentanone	U		19	41	µg/Kg-dry	1	12/19/2018 18:14
Acetone	U		42	140	µg/Kg-dry	1	12/19/2018 18:14
Benzene	U		6.9	41	µg/Kg-dry	1	12/19/2018 18:14
Bromochloromethane	U		21	41	µg/Kg-dry	1	12/19/2018 18:14
Bromodichloromethane	U		23	41	µg/Kg-dry	1	12/19/2018 18:14
Bromoform	U		17	41	µg/Kg-dry	1	12/19/2018 18:14
Bromomethane	U		78	140	µg/Kg-dry	1	12/19/2018 18:14
Carbon disulfide	U		21	41	µg/Kg-dry	1	12/19/2018 18:14
Carbon tetrachloride	U		16	41	µg/Kg-dry	1	12/19/2018 18:14
Chlorobenzene	U		13	41	µg/Kg-dry	1	12/19/2018 18:14
Chloroethane	U		14	140	µg/Kg-dry	1	12/19/2018 18:14
Chloroform	U		15	41	µg/Kg-dry	1	12/19/2018 18:14
Chloromethane	U		34	140	µg/Kg-dry	1	12/19/2018 18:14
cis-1,2-Dichloroethene	**16**	J	**13**	**41**	**µg/Kg-dry**	1	12/19/2018 18:14
cis-1,3-Dichloropropene	U		15	41	µg/Kg-dry	1	12/19/2018 18:14
Cyclohexane	U		13	41	µg/Kg-dry	1	12/19/2018 18:14
Dibromochloromethane	U		23	41	µg/Kg-dry	1	12/19/2018 18:14
Dichlorodifluoromethane	U		8.5	41	µg/Kg-dry	1	12/19/2018 18:14
Ethylbenzene	U		8.6	41	µg/Kg-dry	1	12/19/2018 18:14
Isopropylbenzene	U		12	41	µg/Kg-dry	1	12/19/2018 18:14
m,p-Xylene	U		19	81	µg/Kg-dry	1	12/19/2018 18:14
Methyl acetate	U		18	270	µg/Kg-dry	1	12/19/2018 18:14
Methyl tert-butyl ether	U		12	41	µg/Kg-dry	1	12/19/2018 18:14
Methylcyclohexane	U		15	41	µg/Kg-dry	1	12/19/2018 18:14
Methylene chloride	U		17	41	µg/Kg-dry	1	12/19/2018 18:14
o-Xylene	U		16	41	µg/Kg-dry	1	12/19/2018 18:14
Styrene	U		16	41	µg/Kg-dry	1	12/19/2018 18:14
Tetrachloroethene	**3,800**		**12**	**41**	**µg/Kg-dry**	1	12/19/2018 18:14
Toluene	U		11	41	µg/Kg-dry	1	12/19/2018 18:14
trans-1,2-Dichloroethene	U		15	41	µg/Kg-dry	1	12/19/2018 18:14
trans-1,3-Dichloropropene	U		23	41	µg/Kg-dry	1	12/19/2018 18:14
Trichloroethene	U		18	41	µg/Kg-dry	1	12/19/2018 18:14
Trichlorofluoromethane	U		21	41	µg/Kg-dry	1	12/19/2018 18:14
Vinyl chloride	U		8.7	41	µg/Kg-dry	1	12/19/2018 18:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: B-10 (12-14)
Collection Date: 12/11/2018 11:15 AM

Work Order: 1812740
Lab ID: 1812740-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*110*			*70-130*	*%REC*	1	12/19/2018 18:14
Surr: 4-Bromofluorobenzene	*99.0*			*70-130*	*%REC*	1	12/19/2018 18:14
Surr: Dibromofluoromethane	*102*			*70-130*	*%REC*	1	12/19/2018 18:14
Surr: Toluene-d8	*99.0*			*70-130*	*%REC*	1	12/19/2018 18:14
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**15**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Duplicate
Collection Date: 12/11/2018

Work Order: 1812740
Lab ID: 1812740-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3546 / 12/21/18		Analyst: **KB**
Aroclor 1016	U		25	74	µg/Kg-dry	1	12/24/2018 10:38
Aroclor 1221	U		25	74	µg/Kg-dry	1	12/24/2018 10:38
Aroclor 1232	U		25	74	µg/Kg-dry	1	12/24/2018 10:38
Aroclor 1242	U		25	74	µg/Kg-dry	1	12/24/2018 10:38
Aroclor 1248	U		25	74	µg/Kg-dry	1	12/24/2018 10:38
Aroclor 1254	**150**		**21**	**74**	**µg/Kg-dry**	1	12/24/2018 10:38
Aroclor 1260	**170**		**21**	**74**	**µg/Kg-dry**	1	12/24/2018 10:38
Aroclor 1262	U		21	74	µg/Kg-dry	1	12/24/2018 10:38
Aroclor 1268	U		21	74	µg/Kg-dry	1	12/24/2018 10:38
Surr: Decachlorobiphenyl	*98.5*			*40-140*	*%REC*	1	12/24/2018 10:38
Surr: Tetrachloro-m-xylene	*98.7*			*45-124*	*%REC*	1	12/24/2018 10:38
MERCURY BY CVAA		Method:	**SW7471B**		Prep: SW7471 / 12/26/18		Analyst: **RSH**
Mercury	**0.021**		**0.0020**	**0.020**	**mg/Kg-dry**	1	12/28/2018 12:27
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3050B / 12/20/18		Analyst: **ABL**
Arsenic	**4.1**		**0.10**	**0.38**	**mg/Kg-dry**	1	12/21/2018 05:09
Barium	**75**		**0.15**	**0.38**	**mg/Kg-dry**	1	12/21/2018 05:09
Cadmium	**0.19**	J	**0.037**	**0.77**	**mg/Kg-dry**	1	12/21/2018 05:09
Chromium	**11**		**0.022**	**0.38**	**mg/Kg-dry**	1	12/21/2018 05:09
Lead	**26**		**0.082**	**0.38**	**mg/Kg-dry**	1	12/21/2018 05:09
Selenium	**0.23**	J	**0.22**	**0.77**	**mg/Kg-dry**	1	12/21/2018 05:09
Silver	U		0.048	0.38	mg/Kg-dry	1	12/21/2018 05:09
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3546 / 12/21/18		Analyst: **RM**
DRO (C10-C21)	U		1.8	5.9	mg/Kg-dry	1	12/22/2018 12:15
ORO (C21-C35)	U		2.0	5.9	mg/Kg-dry	1	12/22/2018 12:15
Surr: 4-Terphenyl-d14	*56.4*			*25-137*	*%REC*	1	12/22/2018 12:15
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3546 / 12/21/18		Analyst: **KAW**
1,1`-Biphenyl	U		6.1	37	µg/Kg-dry	1	12/24/2018 23:20
1,2,4,5-Tetrachlorobenzene	U		29	380	µg/Kg-dry	1	12/24/2018 23:20
1,4-Dioxane	U		27	190	µg/Kg-dry	1	12/24/2018 23:20
2,2`-Oxybis(1-chloropropane)	U		8.9	37	µg/Kg-dry	1	12/24/2018 23:20
2,3,4,6-Tetrachlorophenol	U		9.9	76	µg/Kg-dry	1	12/24/2018 23:20
2,4,5-Trichlorophenol	U		10	37	µg/Kg-dry	1	12/24/2018 23:20
2,4,6-Trichlorophenol	U		10	37	µg/Kg-dry	1	12/24/2018 23:20
2,4-Dichlorophenol	U		8.0	37	µg/Kg-dry	1	12/24/2018 23:20
2,4-Dimethylphenol	U		7.7	37	µg/Kg-dry	1	12/24/2018 23:20
2,4-Dinitrophenol	U		20	37	µg/Kg-dry	1	12/24/2018 23:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Duplicate
Collection Date: 12/11/2018

Work Order: 1812740
Lab ID: 1812740-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		9.9	37	µg/Kg-dry	1	12/24/2018 23:20
2,6-Dinitrotoluene	U		6.2	37	µg/Kg-dry	1	12/24/2018 23:20
2-Chloronaphthalene	U		5.3	7.6	µg/Kg-dry	1	12/24/2018 23:20
2-Chlorophenol	U		12	37	µg/Kg-dry	1	12/24/2018 23:20
2-Methylnaphthalene	U		3.9	7.6	µg/Kg-dry	1	12/24/2018 23:20
2-Methylphenol	U		10	37	µg/Kg-dry	1	12/24/2018 23:20
2-Nitroaniline	U		8.7	37	µg/Kg-dry	1	12/24/2018 23:20
2-Nitrophenol	U		11	37	µg/Kg-dry	1	12/24/2018 23:20
3&4-Methylphenol	U		7.6	37	µg/Kg-dry	1	12/24/2018 23:20
3,3´-Dichlorobenzidine	U		5.6	190	µg/Kg-dry	1	12/24/2018 23:20
3-Nitroaniline	U		8.7	37	µg/Kg-dry	1	12/24/2018 23:20
4,6-Dinitro-2-methylphenol	U		9.5	37	µg/Kg-dry	1	12/24/2018 23:20
4-Bromophenyl phenyl ether	U		10	37	µg/Kg-dry	1	12/24/2018 23:20
4-Chloro-3-methylphenol	U		11	37	µg/Kg-dry	1	12/24/2018 23:20
4-Chloroaniline	U		6.0	76	µg/Kg-dry	1	12/24/2018 23:20
4-Chlorophenyl phenyl ether	U		10	37	µg/Kg-dry	1	12/24/2018 23:20
4-Nitroaniline	U		59	190	µg/Kg-dry	1	12/24/2018 23:20
4-Nitrophenol	U		34	37	µg/Kg-dry	1	12/24/2018 23:20
Acenaphthene	U		5.5	7.6	µg/Kg-dry	1	12/24/2018 23:20
Acenaphthylene	U		6.6	7.6	µg/Kg-dry	1	12/24/2018 23:20
Acetophenone	U		5.9	37	µg/Kg-dry	1	12/24/2018 23:20
Anthracene	U		5.3	7.6	µg/Kg-dry	1	12/24/2018 23:20
Atrazine	U		6.0	37	µg/Kg-dry	1	12/24/2018 23:20
Benzaldehyde	U		58	76	µg/Kg-dry	1	12/24/2018 23:20
Benzo(a)anthracene	U		6.5	7.6	µg/Kg-dry	1	12/24/2018 23:20
Benzo(a)pyrene	U		4.6	7.6	µg/Kg-dry	1	12/24/2018 23:20
Benzo(b)fluoranthene	U		5.6	7.6	µg/Kg-dry	1	12/24/2018 23:20
Benzo(g,h,i)perylene	U		5.8	7.6	µg/Kg-dry	1	12/24/2018 23:20
Benzo(k)fluoranthene	U		5.7	7.6	µg/Kg-dry	1	12/24/2018 23:20
Bis(2-chloroethoxy)methane	U		3.6	37	µg/Kg-dry	1	12/24/2018 23:20
Bis(2-chloroethyl)ether	U		11	37	µg/Kg-dry	1	12/24/2018 23:20
Bis(2-ethylhexyl)phthalate	U		6.6	37	µg/Kg-dry	1	12/24/2018 23:20
Butyl benzyl phthalate	U		6.4	37	µg/Kg-dry	1	12/24/2018 23:20
Caprolactam	U		13	37	µg/Kg-dry	1	12/24/2018 23:20
Carbazole	U		4.1	37	µg/Kg-dry	1	12/24/2018 23:20
Chrysene	U		6.1	7.6	µg/Kg-dry	1	12/24/2018 23:20
Dibenzo(a,h)anthracene	U		4.1	7.6	µg/Kg-dry	1	12/24/2018 23:20
Dibenzofuran	U		5.6	37	µg/Kg-dry	1	12/24/2018 23:20
Diethyl phthalate	U		5.8	37	µg/Kg-dry	1	12/24/2018 23:20
Dimethyl phthalate	U		7.4	37	µg/Kg-dry	1	12/24/2018 23:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Duplicate
Collection Date: 12/11/2018

Work Order: 1812740
Lab ID: 1812740-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	U		6.9	37	µg/Kg-dry	1	12/24/2018 23:20
Di-n-octyl phthalate	U		7.3	37	µg/Kg-dry	1	12/24/2018 23:20
Fluoranthene	U		3.6	7.6	µg/Kg-dry	1	12/24/2018 23:20
Fluorene	U		5.5	7.6	µg/Kg-dry	1	12/24/2018 23:20
Hexachlorobenzene	U		11	37	µg/Kg-dry	1	12/24/2018 23:20
Hexachlorobutadiene	U		21	37	µg/Kg-dry	1	12/24/2018 23:20
Hexachlorocyclopentadiene	U		13	37	µg/Kg-dry	1	12/24/2018 23:20
Hexachloroethane	U		16	37	µg/Kg-dry	1	12/24/2018 23:20
Indeno(1,2,3-cd)pyrene	U		5.3	7.6	µg/Kg-dry	1	12/24/2018 23:20
Isophorone	U		7.4	190	µg/Kg-dry	1	12/24/2018 23:20
Naphthalene	U		4.8	7.6	µg/Kg-dry	1	12/24/2018 23:20
Nitrobenzene	U		13	190	µg/Kg-dry	1	12/24/2018 23:20
N-Nitrosodi-n-propylamine	U		6.2	37	µg/Kg-dry	1	12/24/2018 23:20
N-Nitrosodiphenylamine	U		3.6	37	µg/Kg-dry	1	12/24/2018 23:20
Pentachlorophenol	U		14	37	µg/Kg-dry	1	12/24/2018 23:20
Phenanthrene	U		3.5	7.6	µg/Kg-dry	1	12/24/2018 23:20
Phenol	U		9.4	37	µg/Kg-dry	1	12/24/2018 23:20
Pyrene	**11**		**1.4**	**7.6**	**µg/Kg-dry**	1	12/24/2018 23:20
Surr: 2,4,6-Tribromophenol	*53.3*			*38-92*	*%REC*	1	12/24/2018 23:20
Surr: 2-Fluorobiphenyl	*69.0*			*44-107*	*%REC*	1	12/24/2018 23:20
Surr: 2-Fluorophenol	*51.2*			*37-109*	*%REC*	1	12/24/2018 23:20
Surr: 4-Terphenyl-d14	*62.6*			*52-123*	*%REC*	1	12/24/2018 23:20
Surr: Nitrobenzene-d5	*61.0*			*41-94*	*%REC*	1	12/24/2018 23:20
Surr: Phenol-d6	*44.5*			*28-111*	*%REC*	1	12/24/2018 23:20
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 12/18/18		Analyst: **WH**
GRO (C6-C10)	U		1,700	6,800	µg/Kg-dry	1	12/19/2018 08:07
Surr: Toluene-d8	*89.2*			*70-130*	*%REC*	1	12/19/2018 08:07
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 12/13/18		Analyst: **AK**
Acetone	U		42	140	µg/Kg-dry	1	12/21/2018 20:03
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	12/21/2018 20:03
Surr: 4-Bromofluorobenzene	*93.8*			*70-130*	*%REC*	1	12/21/2018 20:03
Surr: Dibromofluoromethane	*102*			*70-130*	*%REC*	1	12/21/2018 20:03
Surr: Toluene-d8	*101*			*70-130*	*%REC*	1	12/21/2018 20:03
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **BG**
1,1,1-Trichloroethane	U		0.77	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,1,2,2-Tetrachloroethane	U		0.26	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,1,2-Trichloroethane	U		0.38	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,1,2-Trichlorotrifluoroethane	U		1.1	4.9	µg/Kg-dry	0.836	12/21/2018 22:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Duplicate
Collection Date: 12/11/2018

Work Order: 1812740
Lab ID: 1812740-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethane	U		2.0	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,1-Dichloroethene	U		0.96	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,2,3-Trichlorobenzene	U		0.61	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,2,4-Trichlorobenzene	U		0.71	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,2-Dibromo-3-chloropropane	U		1.4	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,2-Dibromoethane	U		0.35	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,2-Dichlorobenzene	U		0.62	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,2-Dichloroethane	U		0.35	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,2-Dichloropropane	U		0.43	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,3-Dichlorobenzene	U		0.51	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
1,4-Dichlorobenzene	U		0.35	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
2-Butanone	**23**		**1.9**	**9.8**	**µg/Kg-dry**	0.836	12/21/2018 22:33
2-Hexanone	U		0.96	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
4-Methyl-2-pentanone	U		0.79	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Benzene	U		0.51	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Bromochloromethane	U		0.48	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Bromodichloromethane	U		0.31	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Bromoform	U		0.30	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Bromomethane	U		0.70	9.8	µg/Kg-dry	0.836	12/21/2018 22:33
Carbon disulfide	U		0.55	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Carbon tetrachloride	U		0.81	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Chlorobenzene	U		0.31	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Chloroethane	U		0.62	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Chloroform	U		0.29	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Chloromethane	U		0.45	9.8	µg/Kg-dry	0.836	12/21/2018 22:33
cis-1,2-Dichloroethene	U		0.47	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
cis-1,3-Dichloropropene	U		0.25	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Cyclohexane	U		3.0	9.8	µg/Kg-dry	0.836	12/21/2018 22:33
Dibromochloromethane	U		0.46	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Dichlorodifluoromethane	U		1.1	9.8	µg/Kg-dry	0.836	12/21/2018 22:33
Ethylbenzene	U		0.59	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Isopropylbenzene	U		0.63	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
m,p-Xylene	U		1.2	2.4	µg/Kg-dry	0.836	12/21/2018 22:33
Methyl acetate	U		1.2	9.8	µg/Kg-dry	0.836	12/21/2018 22:33
Methyl tert-butyl ether	U		0.23	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Methylcyclohexane	U		1.5	9.8	µg/Kg-dry	0.836	12/21/2018 22:33
Methylene chloride	U		0.84	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
o-Xylene	U		0.46	2.4	µg/Kg-dry	0.836	12/21/2018 22:33
Styrene	U		0.39	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Tetrachloroethene	U		0.87	4.9	µg/Kg-dry	0.836	12/21/2018 22:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Duplicate
Collection Date: 12/11/2018

Work Order: 1812740
Lab ID: 1812740-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	U		0.55	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
trans-1,2-Dichloroethene	U		0.39	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
trans-1,3-Dichloropropene	U		0.28	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Trichloroethene	U		0.70	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Trichlorofluoromethane	U		0.70	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Vinyl chloride	U		0.69	4.9	µg/Kg-dry	0.836	12/21/2018 22:33
Surr: 1,2-Dichloroethane-d4	*127*			*83-132*	*%REC*	0.836	12/21/2018 22:33
Surr: 4-Bromofluorobenzene	*90.0*			*83-111*	*%REC*	0.836	12/21/2018 22:33
Surr: Dibromofluoromethane	*61.6*	S		*77-125*	*%REC*	0.836	12/21/2018 22:33
Surr: Toluene-d8	*95.5*			*86-108*	*%REC*	0.836	12/21/2018 22:33
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**15**		**0.10**	**0.10**	**% of sample**	1	12/20/2018 14:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Rinse
Collection Date: 12/10/2018 11:20 AM

Work Order: 1812740
Lab ID: 1812740-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:	**SW8082**		Prep: SW3511 / 12/17/18		Analyst: **KB**
Aroclor 1016	U		0.090	0.20	µg/L	1	12/18/2018 15:22
Aroclor 1221	U		0.090	0.20	µg/L	1	12/18/2018 15:22
Aroclor 1232	U		0.090	0.20	µg/L	1	12/18/2018 15:22
Aroclor 1242	U		0.090	0.20	µg/L	1	12/18/2018 15:22
Aroclor 1248	U		0.090	0.20	µg/L	1	12/18/2018 15:22
Aroclor 1254	U		0.091	0.20	µg/L	1	12/18/2018 15:22
Aroclor 1260	U		0.091	0.20	µg/L	1	12/18/2018 15:22
Aroclor 1262	U		0.091	0.20	µg/L	1	12/18/2018 15:22
Aroclor 1268	U		0.091	0.20	µg/L	1	12/18/2018 15:22
Surr: Decachlorobiphenyl	*121*			*30-150*	*%REC*	1	12/18/2018 15:22
Surr: Tetrachloro-m-xylene	*104*			*50-150*	*%REC*	1	12/18/2018 15:22
MERCURY BY CVAA		Method:	**SW7470A**		Prep: SW7470 / 12/26/18		Analyst: **RSH**
Mercury	**0.00015**	J	**0.000030**	**0.00020**	**mg/L**	1	12/27/2018 18:25
METALS ANALYSIS BY ICP		Method:	**SW846 6010C**		Prep: SW3005A / 12/20/18		Analyst: **ABL**
Arsenic	U		0.0016	0.0050	mg/L	1	12/20/2018 23:53
Barium	U		0.00074	0.0050	mg/L	1	12/20/2018 23:53
Cadmium	U		0.00078	0.010	mg/L	1	12/20/2018 23:53
Chromium	U		0.00017	0.0050	mg/L	1	12/20/2018 23:53
Lead	U		0.0013	0.0050	mg/L	1	12/20/2018 23:53
Selenium	U		0.0032	0.010	mg/L	1	12/20/2018 23:53
Silver	U		0.00028	0.0050	mg/L	1	12/20/2018 23:53
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3510 / 12/14/18		Analyst: **RM**
DRO (C10-C21)	U		0.013	0.10	mg/L	1	12/22/2018 12:42
ORO (C21-C35)	U		0.027	0.10	mg/L	1	12/22/2018 12:42
Surr: 4-Terphenyl-d14	*115*	S		*23-112*	*%REC*	1	12/22/2018 12:42
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW846 8270D**		Prep: SW3510 / 12/14/18		Analyst: **KAW**
1,1`-Biphenyl	U		0.42	1.0	µg/L	1	12/14/2018 23:19
1,2,4,5-Tetrachlorobenzene	U		0.34	5.0	µg/L	1	12/14/2018 23:19
1,4-Dioxane	U		0.72	5.0	µg/L	1	12/14/2018 23:19
2,2`-Oxybis(1-chloropropane)	U		0.23	1.0	µg/L	1	12/14/2018 23:19
2,3,4,6-Tetrachlorophenol	U		0.45	1.0	µg/L	1	12/14/2018 23:19
2,4,5-Trichlorophenol	U		0.17	1.0	µg/L	1	12/14/2018 23:19
2,4,6-Trichlorophenol	U		0.25	1.0	µg/L	1	12/14/2018 23:19
2,4-Dichlorophenol	U		0.35	1.0	µg/L	1	12/14/2018 23:19
2,4-Dimethylphenol	U		0.36	1.0	µg/L	1	12/14/2018 23:19
2,4-Dinitrophenol	U		0.40	5.0	µg/L	1	12/14/2018 23:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Rinse
Collection Date: 12/10/2018 11:20 AM

Work Order: 1812740
Lab ID: 1812740-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dinitrotoluene	U		0.42	1.0	µg/L	1	12/14/2018 23:19
2,6-Dinitrotoluene	U		0.33	1.0	µg/L	1	12/14/2018 23:19
2-Chloronaphthalene	U		0.075	0.10	µg/L	1	12/14/2018 23:19
2-Chlorophenol	U		0.23	1.0	µg/L	1	12/14/2018 23:19
2-Methylnaphthalene	U		0.065	0.10	µg/L	1	12/14/2018 23:19
2-Methylphenol	U		0.25	1.0	µg/L	1	12/14/2018 23:19
2-Nitroaniline	U		0.21	1.0	µg/L	1	12/14/2018 23:19
2-Nitrophenol	U		0.34	1.0	µg/L	1	12/14/2018 23:19
3&4-Methylphenol	U		0.21	1.0	µg/L	1	12/14/2018 23:19
3,3´-Dichlorobenzidine	U		1.6	5.0	µg/L	1	12/14/2018 23:19
3-Nitroaniline	U		0.64	1.0	µg/L	1	12/14/2018 23:19
4,6-Dinitro-2-methylphenol	U		0.27	1.0	µg/L	1	12/14/2018 23:19
4-Bromophenyl phenyl ether	U		0.33	1.0	µg/L	1	12/14/2018 23:19
4-Chloro-3-methylphenol	U		0.26	1.0	µg/L	1	12/14/2018 23:19
4-Chloroaniline	U		0.34	1.0	µg/L	1	12/14/2018 23:19
4-Chlorophenyl phenyl ether	U		0.31	1.0	µg/L	1	12/14/2018 23:19
4-Nitroaniline	U		0.57	1.0	µg/L	1	12/14/2018 23:19
4-Nitrophenol	U		0.24	5.0	µg/L	1	12/14/2018 23:19
Acenaphthene	U		0.081	0.10	µg/L	1	12/14/2018 23:19
Acenaphthylene	U		0.075	0.10	µg/L	1	12/14/2018 23:19
Acetophenone	U		0.37	1.0	µg/L	1	12/14/2018 23:19
Anthracene	U		0.028	0.10	µg/L	1	12/14/2018 23:19
Atrazine	U		0.35	1.0	µg/L	1	12/14/2018 23:19
Benzaldehyde	U		0.52	1.0	µg/L	1	12/14/2018 23:19
Benzo(a)anthracene	U		0.022	0.10	µg/L	1	12/14/2018 23:19
Benzo(a)pyrene	U		0.044	0.10	µg/L	1	12/14/2018 23:19
Benzo(b)fluoranthene	U		0.051	0.10	µg/L	1	12/14/2018 23:19
Benzo(g,h,i)perylene	U		0.030	0.10	µg/L	1	12/14/2018 23:19
Benzo(k)fluoranthene	U		0.048	0.10	µg/L	1	12/14/2018 23:19
Bis(2-chloroethoxy)methane	U		0.29	1.0	µg/L	1	12/14/2018 23:19
Bis(2-chloroethyl)ether	U		0.37	1.0	µg/L	1	12/14/2018 23:19
Bis(2-ethylhexyl)phthalate	U		0.40	1.0	µg/L	1	12/14/2018 23:19
Butyl benzyl phthalate	U		0.30	1.0	µg/L	1	12/14/2018 23:19
Caprolactam	U		0.96	5.0	µg/L	1	12/14/2018 23:19
Carbazole	U		0.10	1.0	µg/L	1	12/14/2018 23:19
Chrysene	U		0.048	0.10	µg/L	1	12/14/2018 23:19
Dibenzo(a,h)anthracene	U		0.030	0.10	µg/L	1	12/14/2018 23:19
Dibenzofuran	U		0.23	1.0	µg/L	1	12/14/2018 23:19
Diethyl phthalate	U		0.17	1.0	µg/L	1	12/14/2018 23:19
Dimethyl phthalate	U		0.18	1.0	µg/L	1	12/14/2018 23:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Rinse
Collection Date: 12/10/2018 11:20 AM

Work Order: 1812740
Lab ID: 1812740-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Di-n-butyl phthalate	**0.23**	J	**0.21**	**1.0**	**µg/L**	1	12/14/2018 23:19
Di-n-octyl phthalate	U		0.15	1.0	µg/L	1	12/14/2018 23:19
Fluoranthene	U		0.038	0.10	µg/L	1	12/14/2018 23:19
Fluorene	U		0.051	0.10	µg/L	1	12/14/2018 23:19
Hexachlorobenzene	U		0.44	1.0	µg/L	1	12/14/2018 23:19
Hexachlorobutadiene	U		0.28	1.0	µg/L	1	12/14/2018 23:19
Hexachlorocyclopentadiene	U		1.1	5.0	µg/L	1	12/14/2018 23:19
Hexachloroethane	U		0.21	1.0	µg/L	1	12/14/2018 23:19
Indeno(1,2,3-cd)pyrene	U		0.067	0.10	µg/L	1	12/14/2018 23:19
Isophorone	U		0.34	5.0	µg/L	1	12/14/2018 23:19
Naphthalene	U		0.067	0.10	µg/L	1	12/14/2018 23:19
Nitrobenzene	U		0.26	1.0	µg/L	1	12/14/2018 23:19
N-Nitrosodi-n-propylamine	U		0.35	1.0	µg/L	1	12/14/2018 23:19
N-Nitrosodiphenylamine	U		0.23	1.0	µg/L	1	12/14/2018 23:19
Pentachlorophenol	U		0.97	5.0	µg/L	1	12/14/2018 23:19
Phenanthrene	U		0.030	0.10	µg/L	1	12/14/2018 23:19
Phenol	U		0.21	1.0	µg/L	1	12/14/2018 23:19
Pyrene	U		0.036	0.10	µg/L	1	12/14/2018 23:19
Surr: 2,4,6-Tribromophenol	*67.1*			*27-83*	*%REC*	1	12/14/2018 23:19
Surr: 2-Fluorobiphenyl	*56.4*			*26-79*	*%REC*	1	12/14/2018 23:19
Surr: 2-Fluorophenol	*21.8*			*13-56*	*%REC*	1	12/14/2018 23:19
Surr: 4-Terphenyl-d14	*69.1*			*43-106*	*%REC*	1	12/14/2018 23:19
Surr: Nitrobenzene-d5	*55.8*			*29-80*	*%REC*	1	12/14/2018 23:19
Surr: Phenol-d6	*11.9*			*10-35*	*%REC*	1	12/14/2018 23:19
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**				Analyst: **WH**
GRO (C6-C10)	U		25	100	µg/L	1	12/19/2018 19:00
Surr: Toluene-d8	*87.4*			*70-130*	*%REC*	1	12/19/2018 19:00
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **WH**
1,1,1-Trichloroethane	U		0.33	1.0	µg/L	1	12/19/2018 16:25
1,1,2,2-Tetrachloroethane	U		0.17	1.0	µg/L	1	12/19/2018 16:25
1,1,2-Trichloroethane	U		0.22	1.0	µg/L	1	12/19/2018 16:25
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	12/19/2018 16:25
1,1-Dichloroethane	U		0.48	1.0	µg/L	1	12/19/2018 16:25
1,1-Dichloroethene	U		0.36	1.0	µg/L	1	12/19/2018 16:25
1,2,3-Trichlorobenzene	U		0.29	1.0	µg/L	1	12/19/2018 16:25
1,2,4-Trichlorobenzene	U		0.25	1.0	µg/L	1	12/19/2018 16:25
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/19/2018 16:25
1,2-Dibromoethane	U		0.17	1.0	µg/L	1	12/19/2018 16:25
1,2-Dichlorobenzene	U		0.12	1.0	µg/L	1	12/19/2018 16:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Rinse
Collection Date: 12/10/2018 11:20 AM

Work Order: 1812740
Lab ID: 1812740-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	12/19/2018 16:25
1,2-Dichloropropane	U		0.34	1.0	µg/L	1	12/19/2018 16:25
1,3-Dichlorobenzene	U		0.13	1.0	µg/L	1	12/19/2018 16:25
1,4-Dichlorobenzene	U		0.13	1.0	µg/L	1	12/19/2018 16:25
2-Butanone	U		0.47	5.0	µg/L	1	12/19/2018 16:25
2-Hexanone	U		0.50	5.0	µg/L	1	12/19/2018 16:25
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/19/2018 16:25
Acetone	**4.0**	J	**0.47**	**10**	**µg/L**	1	12/19/2018 16:25
Benzene	U		0.42	1.0	µg/L	1	12/19/2018 16:25
Bromochloromethane	U		0.15	1.0	µg/L	1	12/19/2018 16:25
Bromodichloromethane	U		0.22	1.0	µg/L	1	12/19/2018 16:25
Bromoform	U		0.56	1.0	µg/L	1	12/19/2018 16:25
Bromomethane	U		0.29	1.0	µg/L	1	12/19/2018 16:25
Carbon disulfide	U		0.39	1.0	µg/L	1	12/19/2018 16:25
Carbon tetrachloride	U		0.32	1.0	µg/L	1	12/19/2018 16:25
Chlorobenzene	U		0.21	1.0	µg/L	1	12/19/2018 16:25
Chloroethane	U		0.68	1.0	µg/L	1	12/19/2018 16:25
Chloroform	**1.2**		**0.46**	**1.0**	**µg/L**	1	12/19/2018 16:25
Chloromethane	**0.69**	J	**0.68**	**1.0**	**µg/L**	1	12/19/2018 16:25
cis-1,2-Dichloroethene	U		0.38	1.0	µg/L	1	12/19/2018 16:25
cis-1,3-Dichloropropene	U		0.13	1.0	µg/L	1	12/19/2018 16:25
Cyclohexane	U		0.18	1.0	µg/L	1	12/19/2018 16:25
Dibromochloromethane	U		0.20	1.0	µg/L	1	12/19/2018 16:25
Dichlorodifluoromethane	U		0.30	1.0	µg/L	1	12/19/2018 16:25
Ethylbenzene	U		0.29	1.0	µg/L	1	12/19/2018 16:25
Isopropylbenzene	U		0.17	1.0	µg/L	1	12/19/2018 16:25
m,p-Xylene	U		0.53	2.0	µg/L	1	12/19/2018 16:25
Methyl acetate	U		0.26	2.0	µg/L	1	12/19/2018 16:25
Methyl tert-butyl ether	U		0.21	1.0	µg/L	1	12/19/2018 16:25
Methylcyclohexane	U		0.090	1.0	µg/L	1	12/19/2018 16:25
Methylene chloride	U		0.16	5.0	µg/L	1	12/19/2018 16:25
o-Xylene	U		0.19	1.0	µg/L	1	12/19/2018 16:25
Styrene	U		0.19	1.0	µg/L	1	12/19/2018 16:25
Tetrachloroethene	U		0.28	1.0	µg/L	1	12/19/2018 16:25
Toluene	U		0.32	1.0	µg/L	1	12/19/2018 16:25
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/19/2018 16:25
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	12/19/2018 16:25
Trichloroethene	U		0.33	1.0	µg/L	1	12/19/2018 16:25
Trichlorofluoromethane	U		0.24	1.0	µg/L	1	12/19/2018 16:25
Vinyl chloride	U		0.53	1.0	µg/L	1	12/19/2018 16:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Rinse
Collection Date: 12/10/2018 11:20 AM

Work Order: 1812740
Lab ID: 1812740-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*110*			*75-120*	*%REC*	1	12/19/2018 16:25
Surr: 4-Bromofluorobenzene	*94.4*			*80-110*	*%REC*	1	12/19/2018 16:25
Surr: Dibromofluoromethane	*102*			*85-115*	*%REC*	1	12/19/2018 16:25
Surr: Toluene-d8	*101*			*85-110*	*%REC*	1	12/19/2018 16:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Trip Blank #1 - Soil
Collection Date: 12/12/2018

Work Order: 1812740
Lab ID: 1812740-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 12/13/18		Analyst: **AK**
1,1,1-Trichloroethane	U		14	30	µg/Kg-dry	1	12/21/2018 18:30
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg-dry	1	12/21/2018 18:30
1,1,2-Trichloroethane	U		13	30	µg/Kg-dry	1	12/21/2018 18:30
1,1,2-Trichlorotrifluoroethane	U		19	30	µg/Kg-dry	1	12/21/2018 18:30
1,1-Dichloroethane	U		11	30	µg/Kg-dry	1	12/21/2018 18:30
1,1-Dichloroethene	U		9.7	30	µg/Kg-dry	1	12/21/2018 18:30
1,2,3-Trichlorobenzene	U		14	30	µg/Kg-dry	1	12/21/2018 18:30
1,2,4-Trichlorobenzene	U		10	30	µg/Kg-dry	1	12/21/2018 18:30
1,2-Dibromo-3-chloropropane	U		28	100	µg/Kg-dry	1	12/21/2018 18:30
1,2-Dibromoethane	U		8.4	30	µg/Kg-dry	1	12/21/2018 18:30
1,2-Dichlorobenzene	U		11	30	µg/Kg-dry	1	12/21/2018 18:30
1,2-Dichloroethane	U		13	30	µg/Kg-dry	1	12/21/2018 18:30
1,2-Dichloropropane	U		5.2	30	µg/Kg-dry	1	12/21/2018 18:30
1,3-Dichlorobenzene	U		10	30	µg/Kg-dry	1	12/21/2018 18:30
1,4-Dichlorobenzene	U		7.2	30	µg/Kg-dry	1	12/21/2018 18:30
2-Butanone	U		25	200	µg/Kg-dry	1	12/21/2018 18:30
2-Hexanone	U		15	30	µg/Kg-dry	1	12/21/2018 18:30
4-Methyl-2-pentanone	U		14	30	µg/Kg-dry	1	12/21/2018 18:30
Acetone	U		31	100	µg/Kg-dry	1	12/21/2018 18:30
Benzene	U		5.1	30	µg/Kg-dry	1	12/21/2018 18:30
Bromochloromethane	U		15	30	µg/Kg-dry	1	12/21/2018 18:30
Bromodichloromethane	U		17	30	µg/Kg-dry	1	12/21/2018 18:30
Bromoform	U		13	30	µg/Kg-dry	1	12/21/2018 18:30
Bromomethane	U		57	100	µg/Kg-dry	1	12/21/2018 18:30
Carbon disulfide	U		16	30	µg/Kg-dry	1	12/21/2018 18:30
Carbon tetrachloride	U		12	30	µg/Kg-dry	1	12/21/2018 18:30
Chlorobenzene	U		10	30	µg/Kg-dry	1	12/21/2018 18:30
Chloroethane	U		10	100	µg/Kg-dry	1	12/21/2018 18:30
Chloroform	U		11	30	µg/Kg-dry	1	12/21/2018 18:30
Chloromethane	U		25	100	µg/Kg-dry	1	12/21/2018 18:30
cis-1,2-Dichloroethene	U		9.4	30	µg/Kg-dry	1	12/21/2018 18:30
cis-1,3-Dichloropropene	U		11	30	µg/Kg-dry	1	12/21/2018 18:30
Cyclohexane	U		9.8	30	µg/Kg-dry	1	12/21/2018 18:30
Dibromochloromethane	U		17	30	µg/Kg-dry	1	12/21/2018 18:30
Dichlorodifluoromethane	U		6.3	30	µg/Kg-dry	1	12/21/2018 18:30
Ethylbenzene	U		6.3	30	µg/Kg-dry	1	12/21/2018 18:30
Isopropylbenzene	U		9.2	30	µg/Kg-dry	1	12/21/2018 18:30
m,p-Xylene	U		14	60	µg/Kg-dry	1	12/21/2018 18:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Trip Blank #1 - Soil
Collection Date: 12/12/2018

Work Order: 1812740
Lab ID: 1812740-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	**30**	J	**13**	**200**	**µg/Kg-dry**	1	12/21/2018 18:30
Methyl tert-butyl ether	U		8.6	30	µg/Kg-dry	1	12/21/2018 18:30
Methylcyclohexane	U		11	30	µg/Kg-dry	1	12/21/2018 18:30
Methylene chloride	U		13	30	µg/Kg-dry	1	12/21/2018 18:30
o-Xylene	U		12	30	µg/Kg-dry	1	12/21/2018 18:30
Styrene	U		12	30	µg/Kg-dry	1	12/21/2018 18:30
Tetrachloroethene	U		8.7	30	µg/Kg-dry	1	12/21/2018 18:30
Toluene	U		8.2	30	µg/Kg-dry	1	12/21/2018 18:30
trans-1,2-Dichloroethene	U		11	30	µg/Kg-dry	1	12/21/2018 18:30
trans-1,3-Dichloropropene	U		17	30	µg/Kg-dry	1	12/21/2018 18:30
Trichloroethene	U		13	30	µg/Kg-dry	1	12/21/2018 18:30
Trichlorofluoromethane	U		15	30	µg/Kg-dry	1	12/21/2018 18:30
Vinyl chloride	U		6.4	30	µg/Kg-dry	1	12/21/2018 18:30
Surr: 1,2-Dichloroethane-d4	*100*			*70-130*	*%REC*	1	12/21/2018 18:30
Surr: 4-Bromofluorobenzene	*92.3*			*70-130*	*%REC*	1	12/21/2018 18:30
Surr: Dibromofluoromethane	*99.6*			*70-130*	*%REC*	1	12/21/2018 18:30
Surr: Toluene-d8	*97.7*			*70-130*	*%REC*	1	12/21/2018 18:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Trip Blank #2 - Soil
Collection Date: 12/12/2018

Work Order: 1812740
Lab ID: 1812740-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **BG**
1,1,1-Trichloroethane	U		0.79	5.0	µg/Kg	1	12/21/2018 16:32
1,1,2,2-Tetrachloroethane	U		0.27	5.0	µg/Kg	1	12/21/2018 16:32
1,1,2-Trichloroethane	U		0.39	5.0	µg/Kg	1	12/21/2018 16:32
1,1,2-Trichlorotrifluoroethane	U		1.1	5.0	µg/Kg	1	12/21/2018 16:32
1,1-Dichloroethane	U		2.1	5.0	µg/Kg	1	12/21/2018 16:32
1,1-Dichloroethene	U		0.98	5.0	µg/Kg	1	12/21/2018 16:32
1,2,3-Trichlorobenzene	U		0.62	5.0	µg/Kg	1	12/21/2018 16:32
1,2,4-Trichlorobenzene	U		0.73	5.0	µg/Kg	1	12/21/2018 16:32
1,2-Dibromo-3-chloropropane	U		1.4	5.0	µg/Kg	1	12/21/2018 16:32
1,2-Dibromoethane	U		0.36	5.0	µg/Kg	1	12/21/2018 16:32
1,2-Dichlorobenzene	U		0.63	5.0	µg/Kg	1	12/21/2018 16:32
1,2-Dichloroethane	U		0.36	5.0	µg/Kg	1	12/21/2018 16:32
1,2-Dichloropropane	U		0.44	5.0	µg/Kg	1	12/21/2018 16:32
1,3-Dichlorobenzene	U		0.52	5.0	µg/Kg	1	12/21/2018 16:32
1,4-Dichlorobenzene	U		0.36	5.0	µg/Kg	1	12/21/2018 16:32
2-Butanone	U		1.9	10	µg/Kg	1	12/21/2018 16:32
2-Hexanone	U		0.98	5.0	µg/Kg	1	12/21/2018 16:32
4-Methyl-2-pentanone	U		0.81	5.0	µg/Kg	1	12/21/2018 16:32
Acetone	**14**		**2.1**	**10**	**µg/Kg**	1	12/21/2018 16:32
Benzene	U		0.52	5.0	µg/Kg	1	12/21/2018 16:32
Bromochloromethane	U		0.49	5.0	µg/Kg	1	12/21/2018 16:32
Bromodichloromethane	U		0.32	5.0	µg/Kg	1	12/21/2018 16:32
Bromoform	U		0.31	5.0	µg/Kg	1	12/21/2018 16:32
Bromomethane	U		0.72	10	µg/Kg	1	12/21/2018 16:32
Carbon disulfide	U		0.56	5.0	µg/Kg	1	12/21/2018 16:32
Carbon tetrachloride	U		0.83	5.0	µg/Kg	1	12/21/2018 16:32
Chlorobenzene	U		0.32	5.0	µg/Kg	1	12/21/2018 16:32
Chloroethane	U		0.63	5.0	µg/Kg	1	12/21/2018 16:32
Chloroform	U		0.30	5.0	µg/Kg	1	12/21/2018 16:32
Chloromethane	U		0.46	10	µg/Kg	1	12/21/2018 16:32
cis-1,2-Dichloroethene	U		0.48	5.0	µg/Kg	1	12/21/2018 16:32
cis-1,3-Dichloropropene	U		0.26	5.0	µg/Kg	1	12/21/2018 16:32
Cyclohexane	U		3.0	10	µg/Kg	1	12/21/2018 16:32
Dibromochloromethane	U		0.47	5.0	µg/Kg	1	12/21/2018 16:32
Dichlorodifluoromethane	U		1.1	10	µg/Kg	1	12/21/2018 16:32
Ethylbenzene	U		0.60	5.0	µg/Kg	1	12/21/2018 16:32
Isopropylbenzene	U		0.64	5.0	µg/Kg	1	12/21/2018 16:32
m,p-Xylene	U		1.2	2.5	µg/Kg	1	12/21/2018 16:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Trip Blank #2 - Soil
Collection Date: 12/12/2018

Work Order: 1812740
Lab ID: 1812740-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.2	10	µg/Kg	1	12/21/2018 16:32
Methyl tert-butyl ether	U		0.23	5.0	µg/Kg	1	12/21/2018 16:32
Methylcyclohexane	U		1.5	10	µg/Kg	1	12/21/2018 16:32
Methylene chloride	**1.3**	J	**0.86**	**5.0**	**µg/Kg**	1	12/21/2018 16:32
o-Xylene	U		0.47	2.5	µg/Kg	1	12/21/2018 16:32
Styrene	U		0.40	5.0	µg/Kg	1	12/21/2018 16:32
Tetrachloroethene	U		0.89	5.0	µg/Kg	1	12/21/2018 16:32
Toluene	U		0.56	5.0	µg/Kg	1	12/21/2018 16:32
trans-1,2-Dichloroethene	U		0.40	5.0	µg/Kg	1	12/21/2018 16:32
trans-1,3-Dichloropropene	U		0.29	5.0	µg/Kg	1	12/21/2018 16:32
Trichloroethene	U		0.72	5.0	µg/Kg	1	12/21/2018 16:32
Trichlorofluoromethane	U		0.71	5.0	µg/Kg	1	12/21/2018 16:32
Vinyl chloride	U		0.70	5.0	µg/Kg	1	12/21/2018 16:32
Surr: 1,2-Dichloroethane-d4	*119*			*83-132*	*%REC*	1	12/21/2018 16:32
Surr: 4-Bromofluorobenzene	*90.2*			*83-111*	*%REC*	1	12/21/2018 16:32
Surr: Dibromofluoromethane	*29.4*	S		*77-125*	*%REC*	1	12/21/2018 16:32
Surr: Toluene-d8	*99.4*			*86-108*	*%REC*	1	12/21/2018 16:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Trip Blank #3 - Water
Collection Date: 12/12/2018

Work Order: 1812740
Lab ID: 1812740-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **WH**
1,1,1-Trichloroethane	U		0.33	1.0	µg/L	1	12/20/2018 16:50
1,1,2,2-Tetrachloroethane	U		0.17	1.0	µg/L	1	12/20/2018 16:50
1,1,2-Trichloroethane	U		0.22	1.0	µg/L	1	12/20/2018 16:50
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	12/20/2018 16:50
1,1-Dichloroethane	U		0.48	1.0	µg/L	1	12/20/2018 16:50
1,1-Dichloroethene	U		0.36	1.0	µg/L	1	12/20/2018 16:50
1,2,3-Trichlorobenzene	U		0.29	1.0	µg/L	1	12/20/2018 16:50
1,2,4-Trichlorobenzene	U		0.25	1.0	µg/L	1	12/20/2018 16:50
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	12/20/2018 16:50
1,2-Dibromoethane	U		0.17	1.0	µg/L	1	12/20/2018 16:50
1,2-Dichlorobenzene	U		0.12	1.0	µg/L	1	12/20/2018 16:50
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	12/20/2018 16:50
1,2-Dichloropropane	U		0.34	1.0	µg/L	1	12/20/2018 16:50
1,3-Dichlorobenzene	U		0.13	1.0	µg/L	1	12/20/2018 16:50
1,4-Dichlorobenzene	U		0.13	1.0	µg/L	1	12/20/2018 16:50
2-Butanone	U		0.47	5.0	µg/L	1	12/20/2018 16:50
2-Hexanone	U		0.50	5.0	µg/L	1	12/20/2018 16:50
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	12/20/2018 16:50
Acetone	**0.76**	J	**0.47**	**10**	**µg/L**	1	12/20/2018 16:50
Benzene	U		0.42	1.0	µg/L	1	12/20/2018 16:50
Bromochloromethane	U		0.15	1.0	µg/L	1	12/20/2018 16:50
Bromodichloromethane	U		0.22	1.0	µg/L	1	12/20/2018 16:50
Bromoform	U		0.56	1.0	µg/L	1	12/20/2018 16:50
Bromomethane	U		0.29	1.0	µg/L	1	12/20/2018 16:50
Carbon disulfide	U		0.39	1.0	µg/L	1	12/20/2018 16:50
Carbon tetrachloride	U		0.32	1.0	µg/L	1	12/20/2018 16:50
Chlorobenzene	U		0.21	1.0	µg/L	1	12/20/2018 16:50
Chloroethane	U		0.68	1.0	µg/L	1	12/20/2018 16:50
Chloroform	**1.2**		**0.46**	**1.0**	**µg/L**	1	12/20/2018 16:50
Chloromethane	U		0.68	1.0	µg/L	1	12/20/2018 16:50
cis-1,2-Dichloroethene	U		0.38	1.0	µg/L	1	12/20/2018 16:50
cis-1,3-Dichloropropene	U		0.13	1.0	µg/L	1	12/20/2018 16:50
Cyclohexane	U		0.18	1.0	µg/L	1	12/20/2018 16:50
Dibromochloromethane	U		0.20	1.0	µg/L	1	12/20/2018 16:50
Dichlorodifluoromethane	U		0.30	1.0	µg/L	1	12/20/2018 16:50
Ethylbenzene	U		0.29	1.0	µg/L	1	12/20/2018 16:50
Isopropylbenzene	U		0.17	1.0	µg/L	1	12/20/2018 16:50
m,p-Xylene	U		0.53	2.0	µg/L	1	12/20/2018 16:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *28-Dec-18*

Client: Tetra Tech
Project: Holden Business Park (103x9025140002.056)
Sample ID: Trip Blank #3 - Water
Collection Date: 12/12/2018

Work Order: 1812740
Lab ID: 1812740-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		0.26	2.0	µg/L	1	12/20/2018 16:50
Methyl tert-butyl ether	U		0.21	1.0	µg/L	1	12/20/2018 16:50
Methylcyclohexane	U		0.090	1.0	µg/L	1	12/20/2018 16:50
Methylene chloride	U		0.16	5.0	µg/L	1	12/20/2018 16:50
o-Xylene	U		0.19	1.0	µg/L	1	12/20/2018 16:50
Styrene	U		0.19	1.0	µg/L	1	12/20/2018 16:50
Tetrachloroethene	U		0.28	1.0	µg/L	1	12/20/2018 16:50
Toluene	U		0.32	1.0	µg/L	1	12/20/2018 16:50
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	12/20/2018 16:50
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	12/20/2018 16:50
Trichloroethene	U		0.33	1.0	µg/L	1	12/20/2018 16:50
Trichlorofluoromethane	U		0.24	1.0	µg/L	1	12/20/2018 16:50
Vinyl chloride	U		0.53	1.0	µg/L	1	12/20/2018 16:50
Surr: 1,2-Dichloroethane-d4	*104*			*75-120*	*%REC*	1	12/20/2018 16:50
Surr: 4-Bromofluorobenzene	*90.8*			*80-110*	*%REC*	1	12/20/2018 16:50
Surr: Dibromofluoromethane	*107*			*85-115*	*%REC*	1	12/20/2018 16:50
Surr: Toluene-d8	*96.2*			*85-110*	*%REC*	1	12/20/2018 16:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Dec-18

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129491** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKW1-129491-129491** Units: **µg/L** Analysis Date: **12/18/2018 01:42 P**

Client ID: Run ID: **GC14_181218A** SeqNo: **5444566** Prep Date: **12/17/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	0.09	0.20								
Aroclor 1221	U	0.09	0.20								
Aroclor 1232	U	0.09	0.20								
Aroclor 1242	U	0.09	0.20								
Aroclor 1248	U	0.09	0.20								
Aroclor 1254	U	0.091	0.20								
Aroclor 1260	U	0.091	0.20								
Aroclor 1262	U	0.091	0.20								
Aroclor 1268	U	0.091	0.20								
Surr: Decachlorobiphenyl	*0.2572*	0	0	*0.208*	0	*124*	*30-150*	0			
Surr: Tetrachloro-m-xylene	*0.2053*	0	0	*0.208*	0	*98.7*	*50-150*	0			

LCS Sample ID: **PLCSW1-129491-129491** Units: **µg/L** Analysis Date: **12/18/2018 01:56 P**

Client ID: Run ID: **GC14_181218A** SeqNo: **5444567** Prep Date: **12/17/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	5.03	0.09	0.20	4.17	0	121	50-150	0			
Aroclor 1260	4.788	0.091	0.20	4.17	0	115	50-150	0			
Surr: Decachlorobiphenyl	*0.2615*	0	0	*0.208*	0	*126*	*30-150*	0			
Surr: Tetrachloro-m-xylene	*0.2216*	0	0	*0.208*	0	*107*	*50-150*	0			

LCSD Sample ID: **PLCSDW1-129491-129491** Units: **µg/L** Analysis Date: **12/18/2018 02:25 P**

Client ID: Run ID: **GC14_181218A** SeqNo: **5444568** Prep Date: **12/17/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.94	0.09	0.20	4.17	0	118	50-150	5.03	1.81	0	
Aroclor 1260	4.67	0.091	0.20	4.17	0	112	50-150	4.788	2.49	0	
Surr: Decachlorobiphenyl	*0.2561*	0	0	*0.208*	0	*123*	*30-150*	0.2615	*2.09*	*0*	
Surr: Tetrachloro-m-xylene	*0.2111*	0	0	*0.208*	0	*101*	*50-150*	0.2216	*4.83*	*0*	

The following samples were analyzed in this batch: 1812740-21D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129761** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-129761-129761** Units: **µg/Kg** Analysis Date: **12/21/2018 02:05 P**

Client ID: Run ID: **GC14_181221B** SeqNo: **5455167** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	23	67								
Aroclor 1221	U	23	67								
Aroclor 1232	U	23	67								
Aroclor 1242	U	23	67								
Aroclor 1248	U	23	67								
Aroclor 1254	U	19	67								
Aroclor 1260	U	19	67								
Aroclor 1262	U	19	67								
Aroclor 1268	U	19	67								
Surr: Decachlorobiphenyl	*37.25*	0	0	*33.3*	0	*112*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*28.27*	0	0	*33.3*	0	*84.9*	*45-124*	0			

LCS Sample ID: **PLCSS1-129761-129761** Units: **µg/Kg** Analysis Date: **12/21/2018 02:19 P**

Client ID: Run ID: **GC14_181221B** SeqNo: **5455168** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	621.7	23	67	833	0	74.6	50-130	0			
Aroclor 1260	632.3	19	67	833	0	75.9	50-130	0			
Surr: Decachlorobiphenyl	*29.45*	0	0	*33.3*	0	*88.4*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*24.6*	0	0	*33.3*	0	*73.9*	*45-124*	0			

MS Sample ID: **1812740-04B MS** Units: **µg/Kg** Analysis Date: **12/21/2018 02:48 P**

Client ID: **B-2 (12-14)** Run ID: **GC14_181221B** SeqNo: **5455170** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	659.2	22	66	819	0	80.5	40-140	0			
Aroclor 1260	679.2	18	66	819	0	82.9	40-140	0			
Surr: Decachlorobiphenyl	*28.95*	0	0	*32.74*	0	*88.4*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*23.11*	0	0	*32.74*	0	*70.6*	*45-124*	0			

MSD Sample ID: **1812740-04B MSD** Units: **µg/Kg** Analysis Date: **12/21/2018 03:02 P**

Client ID: **B-2 (12-14)** Run ID: **GC14_181221B** SeqNo: **5455171** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	633.9	22	63	791.6	0	80.1	40-140	659.2	3.91	50	
Aroclor 1260	636.9	18	63	791.6	0	80.5	40-140	679.2	6.43	50	
Surr: Decachlorobiphenyl	*27.67*	0	0	*31.64*	0	*87.5*	*40-140*	28.95	*4.51*	*50*	
Surr: Tetrachloro-m-xylene	*21.73*	0	0	*31.64*	0	*68.7*	*45-124*	23.11	*6.17*	*50*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129761** Instrument ID **GC14** Method: **SW8082**

The following samples were analyzed in this batch:

1812740-01B	1812740-02B	1812740-03B
1812740-04B	1812740-05B	1812740-06B
1812740-07B	1812740-08B	1812740-09B
1812740-10B	1812740-11B	1812740-12B
1812740-13B	1812740-14B	1812740-15B
1812740-16B	1812740-17B	1812740-18B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129829** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-129829-129829** Units: **µg/Kg** Analysis Date: **12/24/2018 09:27 A**

Client ID: Run ID: **GC14_181224A** SeqNo: **5455800** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	23	67								
Aroclor 1221	U	23	67								
Aroclor 1232	U	23	67								
Aroclor 1242	U	23	67								
Aroclor 1248	U	23	67								
Aroclor 1254	U	19	67								
Aroclor 1260	U	19	67								
Aroclor 1262	U	19	67								
Aroclor 1268	U	19	67								
Surr: Decachlorobiphenyl	*36.3*	0	0	*33.3*	0	*109*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*32.44*	0	0	*33.3*	0	*97.4*	*45-124*	0			

LCS Sample ID: **PLCSS1-129829-129829** Units: **µg/Kg** Analysis Date: **12/24/2018 09:41 A**

Client ID: Run ID: **GC14_181224A** SeqNo: **5455801** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	604.3	23	67	833	0	72.5	50-130	0			
Aroclor 1260	628.2	19	67	833	0	75.4	50-130	0			
Surr: Decachlorobiphenyl	*30.38*	0	0	*33.3*	0	*91.2*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*22.2*	0	0	*33.3*	0	*66.7*	*45-124*	0			

MS Sample ID: **1812740-19B MS** Units: **µg/Kg** Analysis Date: **12/24/2018 10:10 A**

Client ID: **B-10 (12-14)** Run ID: **GC14_181224A** SeqNo: **5455803** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	672.7	22	65	814.3	0	82.6	40-140	0			
Aroclor 1260	691.4	18	65	814.3	0	84.9	40-140	0			
Surr: Decachlorobiphenyl	*29.5*	0	0	*32.55*	0	*90.6*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*24.3*	0	0	*32.55*	0	*74.6*	*45-124*	0			

MSD Sample ID: **1812740-19B MSD** Units: **µg/Kg** Analysis Date: **12/24/2018 10:24 A**

Client ID: **B-10 (12-14)** Run ID: **GC14_181224A** SeqNo: **5455804** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	664.3	22	65	807.3	0	82.3	40-140	672.7	1.26	50	
Aroclor 1260	671	18	65	807.3	0	83.1	40-140	691.4	2.99	50	
Surr: Decachlorobiphenyl	*28.96*	0	0	*32.27*	0	*89.7*	*40-140*	29.5	*1.82*	*50*	
Surr: Tetrachloro-m-xylene	*23.65*	0	0	*32.27*	0	*73.3*	*45-124*	24.3	*2.72*	*50*	

The following samples were analyzed in this batch: 1812740-19B 1812740-20B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129730** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-129730-129730** Units: **mg/Kg** Analysis Date: **12/21/2018 06:38 P**
Client ID: Run ID: **HG4_181221A** SeqNo: **5455551** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.009083	0.002	0.020								J

LCS Sample ID: **LCS-129730-129730** Units: **mg/Kg** Analysis Date: **12/24/2018 11:45 A**
Client ID: Run ID: **HG4_181224A** SeqNo: **5456292** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1733	0.002	0.020	0.167	0	104	80-120	0			

MS Sample ID: **18121052-05B MS** Units: **mg/Kg** Analysis Date: **12/21/2018 06:53 P**
Client ID: Run ID: **HG4_181221A** SeqNo: **5455557** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1823	0.0016	0.016	0.131	0.01963	124	75-125	0			

MSD Sample ID: **18121052-05B MSD** Units: **mg/Kg** Analysis Date: **12/21/2018 06:55 P**
Client ID: Run ID: **HG4_181221A** SeqNo: **5455558** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1678	0.0016	0.016	0.131	0.01963	113	75-125	0.1823	8.32	35	

The following samples were analyzed in this batch:

1812740-01B	1812740-02B	1812740-03B
1812740-04B	1812740-05B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129811** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-129811-129811** Units: **mg/Kg** Analysis Date: **12/21/2018 02:19 P**
Client ID: Run ID: **HG4_181221A** SeqNo: **5453450** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.01425	0.002	0.020								J

LCS Sample ID: **LCS-129811-129811** Units: **mg/Kg** Analysis Date: **12/21/2018 02:34 P**
Client ID: Run ID: **HG4_181221A** SeqNo: **5453551** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1827	0.002	0.020	0.167	0	110	80-120	0			

MS Sample ID: **18121267-06A MS** Units: **mg/Kg** Analysis Date: **12/21/2018 02:51 P**
Client ID: Run ID: **HG4_181221A** SeqNo: **5453558** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.2101	0.0018	0.018	0.151	0.03165	118	75-125	0			

MSD Sample ID: **18121267-06A MSD** Units: **mg/Kg** Analysis Date: **12/21/2018 02:54 P**
Client ID: Run ID: **HG4_181221A** SeqNo: **5453559** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.192	0.0018	0.018	0.151	0.03165	106	75-125	0.2101	8.96	35	

The following samples were analyzed in this batch:

1812740-06B	1812740-07B	1812740-08B
1812740-09B	1812740-10B	1812740-11B
1812740-12B	1812740-13B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129940** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-129940-129940** Units: **mg/Kg** Analysis Date: **12/28/2018 11:56 A**

Client ID: Run ID: **HG4_181228A** SeqNo: **5462696** Prep Date: **12/26/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.002	0.020								

MBLK Sample ID: **MBLK-129940-129940** Units: **mg/Kg** Analysis Date: **12/28/2018 12:00 P**

Client ID: Run ID: **HG4_181228A** SeqNo: **5462697** Prep Date: **12/26/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.002	0.020								

LCS Sample ID: **LCS-129940-129940** Units: **mg/Kg** Analysis Date: **12/28/2018 12:03 P**

Client ID: Run ID: **HG4_181228A** SeqNo: **5462698** Prep Date: **12/26/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1574	0.002	0.020	0.167	0	94.5	80-120	0			

The following samples were analyzed in this batch:

1812740-14B	1812740-15B	1812740-16B
1812740-17B	1812740-18B	1812740-19B
1812740-20B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129951** Instrument ID **HG4** Method: **SW7470A**

MBLK Sample ID: **MBLK-129951-129951** Units: **mg/L** Analysis Date: **12/27/2018 05:58 P**

Client ID: Run ID: **HG4_181227A** SeqNo: **5461827** Prep Date: **12/26/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000104	0.00003	0.00020								J

LCS Sample ID: **LCS-129951-129951** Units: **mg/L** Analysis Date: **12/27/2018 06:01 P**

Client ID: Run ID: **HG4_181227A** SeqNo: **5461828** Prep Date: **12/26/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00191	0.00003	0.00020	0.002	0	95.5	80-120	0			

MS Sample ID: **1812929-07BMS** Units: **mg/L** Analysis Date: **12/27/2018 06:53 P**

Client ID: Run ID: **HG4_181227A** SeqNo: **5461849** Prep Date: **12/26/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001762	0.000019	0.00020	0.002	0.000096	83.3	75-125	0			B

MSD Sample ID: **1812929-07BMSD** Units: **mg/L** Analysis Date: **12/27/2018 06:55 P**

Client ID: Run ID: **HG4_181227A** SeqNo: **5461850** Prep Date: **12/26/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001661	0.000019	0.00020	0.002	0.000096	78.2	75-125	0.001762	5.9	20	B

The following samples were analyzed in this batch: 1812740-21B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129418** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-129418-129418** Units: **mg/Kg** Analysis Date: **12/18/2018 05:52 A**

Client ID: Run ID: **ICP2_181217A** SeqNo: **5443120** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.065	0.25								
Barium	U	0.1	0.25								
Cadmium	0.02705	0.024	0.50								J
Chromium	0.052	0.014	0.25								J
Lead	U	0.053	0.25								
Selenium	U	0.14	0.50								
Silver	0.062	0.031	0.25								J

LCS Sample ID: **LCS-129418-129418** Units: **mg/Kg** Analysis Date: **12/18/2018 05:58 A**

Client ID: Run ID: **ICP2_181217A** SeqNo: **5443121** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.009	0.065	0.25	5	0	100	80-120	0			
Barium	5.404	0.1	0.25	5	0	108	80-120	0			
Cadmium	5.191	0.024	0.50	5	0	104	80-120	0			
Chromium	5.442	0.014	0.25	5	0	109	80-120	0			
Lead	5.123	0.053	0.25	5	0	102	80-120	0			
Selenium	5.092	0.14	0.50	5	0	102	80-120	0			
Silver	5.28	0.031	0.25	5	0	106	80-120	0			

MS Sample ID: **1812560-32AMS** Units: **mg/Kg** Analysis Date: **12/18/2018 07:56 A**

Client ID: Run ID: **ICP2_181217A** SeqNo: **5443142** Prep Date: **12/14/2018** DF: **10**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	3.686	0.9	3.5	6.954	0.3733	47.6	75-125	0			S
Barium	3648	1.4	3.5	6.954	3922	-3950	75-125	0			SO
Cadmium	6.822	0.33	7.0	6.954	0.04025	97.5	75-125	0			J
Chromium	14.88	0.19	3.5	6.954	7.591	105	75-125	0			
Lead	292.5	0.74	3.5	6.954	277.6	214	75-125	0			SO
Selenium	5.25	1.9	7.0	6.954	0.968	61.6	75-125	0			JS
Silver	11.13	0.43	3.5	6.954	3.05	116	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129418** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **1812560-32AMSD** Units: **mg/Kg** Analysis Date: **12/18/2018 08:02 A**

Client ID: Run ID: **ICP2_181217A** SeqNo: **5443143** Prep Date: **12/14/2018** DF: **10**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.198	0.91	3.5	6.974	0.3733	54.8	75-125	3.686	13	20	S
Barium	4076	1.4	3.5	6.974	3922	2200	75-125	3648	11.1	20	SO
Cadmium	7.043	0.33	7.0	6.974	0.04025	100	75-125	6.822	3.19	20	
Chromium	14.64	0.2	3.5	6.974	7.591	101	75-125	14.88	1.61	20	
Lead	292.1	0.74	3.5	6.974	277.6	208	75-125	292.5	0.12	20	SO
Selenium	5.432	2	7.0	6.974	0.968	64	75-125	5.25	0	20	JS
Silver	10.95	0.43	3.5	6.974	3.05	113	75-125	11.13	1.61	20	

The following samples were analyzed in this batch: 1812740-01B 1812740-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129492** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-129492-129492** Units: **mg/Kg** Analysis Date: **12/18/2018 03:15 P**

Client ID: Run ID: **ICP2_181218A** SeqNo: **5444784** Prep Date: **12/17/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.065	0.25								
Barium	U	0.1	0.25								
Cadmium	U	0.024	0.50								
Chromium	0.063	0.014	0.25								J
Lead	U	0.053	0.25								
Selenium	U	0.14	0.50								
Silver	0.0363	0.031	0.25								J

LCS Sample ID: **LCS-129492-129492** Units: **mg/Kg** Analysis Date: **12/18/2018 03:21 P**

Client ID: Run ID: **ICP2_181218A** SeqNo: **5444785** Prep Date: **12/17/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.7	0.065	0.25	5	0	94	80-120	0			
Barium	5.42	0.1	0.25	5	0	108	80-120	0			
Cadmium	4.985	0.024	0.50	5	0	99.7	80-120	0			
Chromium	5.413	0.014	0.25	5	0	108	80-120	0			
Lead	5.064	0.053	0.25	5	0	101	80-120	0			
Selenium	4.685	0.14	0.50	5	0	93.7	80-120	0			
Silver	5.248	0.031	0.25	5	0	105	80-120	0			

MS Sample ID: **1812885-13BMS** Units: **mg/Kg** Analysis Date: **12/19/2018 05:17 A**

Client ID: Run ID: **ICP2_181218A** SeqNo: **5445456** Prep Date: **12/17/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.552	0.097	0.37	7.496	1.527	93.7	75-125	0			
Barium	52.52	0.15	0.37	7.496	42.81	130	75-125	0			SO
Cadmium	7.601	0.036	0.75	7.496	0.04551	101	75-125	0			
Chromium	15.92	0.021	0.37	7.496	10.11	77.5	75-125	0			
Lead	10.54	0.079	0.37	7.496	3.84	89.4	75-125	0			
Selenium	7.204	0.21	0.75	7.496	0.0771	95.1	75-125	0			
Silver	7.994	0.046	0.37	7.496	-0.0771	108	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129492** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **1812885-13BMSD** Units: **mg/Kg** Analysis Date: **12/19/2018 05:23 A**

Client ID: Run ID: **ICP2_181218A** SeqNo: **5445457** Prep Date: **12/17/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.376	0.098	0.38	7.576	1.527	90.4	75-125	8.552	2.08	20	
Barium	51.81	0.15	0.38	7.576	42.81	119	75-125	52.52	1.36	20	O
Cadmium	7.535	0.036	0.76	7.576	0.04551	98.9	75-125	7.601	0.878	20	
Chromium	13.1	0.021	0.38	7.576	10.11	39.5	75-125	15.92	19.4	20	S
Lead	10.63	0.08	0.38	7.576	3.84	89.6	75-125	10.54	0.817	20	
Selenium	7	0.21	0.76	7.576	0.0771	91.4	75-125	7.204	2.87	20	
Silver	7.855	0.047	0.38	7.576	-0.0771	105	75-125	7.994	1.75	20	

The following samples were analyzed in this batch:

1812740-03B	1812740-04B	1812740-05B
1812740-06B	1812740-07B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129668** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-129668-129668** Units: **mg/Kg** Analysis Date: **12/20/2018 03:55 P**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451539** Prep Date: **12/19/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.065	0.25								
Barium	U	0.1	0.25								
Cadmium	U	0.024	0.50								
Chromium	0.0605	0.014	0.25								J
Lead	U	0.053	0.25								
Selenium	U	0.14	0.50								
Silver	U	0.031	0.25								

LCS Sample ID: **LCS-129668-129668** Units: **mg/Kg** Analysis Date: **12/20/2018 04:20 P**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451544** Prep Date: **12/19/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.81	0.065	0.25	5	0	96.2	80-120	0			
Barium	5.407	0.1	0.25	5	0	108	80-120	0			
Cadmium	5.068	0.024	0.50	5	0	101	80-120	0			
Chromium	5.334	0.014	0.25	5	0	107	80-120	0			
Lead	5.123	0.053	0.25	5	0	102	80-120	0			
Selenium	4.92	0.14	0.50	5	0	98.4	80-120	0			
Silver	4.945	0.031	0.25	5	0	98.9	80-120	0			

MS Sample ID: **18121052-05BMS** Units: **mg/Kg** Analysis Date: **12/20/2018 04:32 P**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451548** Prep Date: **12/19/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.546	0.095	0.37	7.331	1.443	96.9	75-125	0			
Barium	19.7	0.15	0.37	7.331	8.831	148	75-125	0			S
Cadmium	7.469	0.035	0.73	7.331	0.0694	101	75-125	0			
Chromium	9.763	0.021	0.37	7.331	1.297	115	75-125	0			
Lead	18.11	0.078	0.37	7.331	9.241	121	75-125	0			
Selenium	7.133	0.21	0.73	7.331	-0.05583	98.1	75-125	0			
Silver	7.34	0.045	0.37	7.331	-0.05539	101	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129668** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **18121052-05BMSD** Units: **mg/Kg** Analysis Date: **12/20/2018 04:38 P**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451550** Prep Date: **12/19/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.006	0.095	0.36	7.278	1.443	90.2	75-125	8.546	6.53	20	
Barium	16.43	0.15	0.36	7.278	8.831	104	75-125	19.7	18.1	20	
Cadmium	7.198	0.035	0.73	7.278	0.0694	97.9	75-125	7.469	3.7	20	
Chromium	9.073	0.02	0.36	7.278	1.297	107	75-125	9.763	7.32	20	
Lead	17.14	0.077	0.36	7.278	9.241	108	75-125	18.11	5.51	20	
Selenium	6.929	0.2	0.73	7.278	-0.05583	96	75-125	7.133	2.91	20	
Silver	7.096	0.045	0.36	7.278	-0.05539	98.3	75-125	7.34	3.38	20	

The following samples were analyzed in this batch: 1812740-08B 1812740-09B 1812740-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129731** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-129731-129731** Units: **mg/L** Analysis Date: **12/20/2018 10:45 P**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451623** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0016	0.0050								
Barium	U	0.00074	0.0050								
Cadmium	U	0.00078	0.010								
Chromium	U	0.00017	0.0050								
Lead	U	0.0013	0.0050								
Selenium	U	0.0032	0.010								
Silver	U	0.00028	0.0050								

LCS Sample ID: **LCS-129731-129731** Units: **mg/L** Analysis Date: **12/20/2018 11:09 P**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451627** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0984	0.0016	0.0050	0.1	0	98.4	80-120	0			
Barium	0.1071	0.00074	0.0050	0.1	0	107	80-120	0			
Cadmium	0.105	0.00078	0.010	0.1	0	105	80-120	0			
Chromium	0.1032	0.00017	0.0050	0.1	0	103	80-120	0			
Lead	0.1038	0.0013	0.0050	0.1	0	104	80-120	0			
Selenium	0.1042	0.0032	0.010	0.1	0	104	80-120	0			
Silver	0.1052	0.00028	0.0050	0.1	0	105	80-120	0			

MS Sample ID: **1812929-01BMS** Units: **mg/L** Analysis Date: **12/21/2018 12:06 A**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451636** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1032	0.0016	0.0050	0.1	0.000817	102	75-125	0			
Barium	0.2291	0.00074	0.0050	0.1	0.1231	106	75-125	0			
Cadmium	0.1068	0.00078	0.010	0.1	0.000418	106	75-125	0			
Chromium	0.1025	0.00017	0.0050	0.1	0.000426	102	75-125	0			
Lead	0.1	0.0013	0.0050	0.1	0.00082	99.2	75-125	0			
Selenium	0.1102	0.0032	0.010	0.1	0.00251	108	75-125	0			
Silver	0.1052	0.00028	0.0050	0.1	0	105	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129731** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **1812929-01BMSD** Units: **mg/L** Analysis Date: **12/21/2018 12:31 A**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451640** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1039	0.0016	0.0050	0.1	0.000817	103	75-125	0.1032	0.674	20	
Barium	0.2274	0.00074	0.0050	0.1	0.1231	104	75-125	0.2291	0.74	20	
Cadmium	0.1075	0.00078	0.010	0.1	0.000418	107	75-125	0.1068	0.632	20	
Chromium	0.1032	0.00017	0.0050	0.1	0.000426	103	75-125	0.1025	0.73	20	
Lead	0.1014	0.0013	0.0050	0.1	0.00082	101	75-125	0.1	1.39	20	
Selenium	0.1072	0.0032	0.010	0.1	0.00251	105	75-125	0.1102	2.76	20	
Silver	0.1051	0.00028	0.0050	0.1	0	105	75-125	0.1052	0.0408	20	

The following samples were analyzed in this batch: 1812740-21B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129749** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-129749-129749** Units: **mg/Kg** Analysis Date: **12/21/2018 01:52 A**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451656** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.065	0.25								
Barium	U	0.1	0.25								
Cadmium	U	0.024	0.50								
Chromium	0.0735	0.014	0.25								J
Lead	U	0.053	0.25								
Selenium	U	0.14	0.50								
Silver	U	0.031	0.25								

LCS Sample ID: **LCS-129749-129749** Units: **mg/Kg** Analysis Date: **12/21/2018 01:58 A**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451658** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.119	0.065	0.25	5	0	102	80-120	0			
Barium	5.649	0.1	0.25	5	0	113	80-120	0			
Cadmium	5.427	0.024	0.50	5	0	109	80-120	0			
Chromium	5.66	0.014	0.25	5	0	113	80-120	0			
Lead	5.416	0.053	0.25	5	0	108	80-120	0			
Selenium	5.182	0.14	0.50	5	0	104	80-120	0			
Silver	5.288	0.031	0.25	5	0	106	80-120	0			

MS Sample ID: **18121267-06AMS** Units: **mg/Kg** Analysis Date: **12/21/2018 03:24 A**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451679** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.93	0.11	0.41	8.278	7.758	62.5	75-125	0			S
Barium	168.2	0.17	0.41	8.278	209.4	-497	75-125	0			SO
Cadmium	8.088	0.04	0.83	8.278	0.3128	93.9	75-125	0			
Chromium	16.26	0.023	0.41	8.278	8.964	88.2	75-125	0			
Lead	13.8	0.088	0.41	8.278	7.972	70.3	75-125	0			S
Selenium	7.74	0.23	0.83	8.278	0.431	88.3	75-125	0			
Silver	8.45	0.051	0.41	8.278	-0.3235	106	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129749** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **18121267-06AMSD** Units: **mg/Kg** Analysis Date: **12/21/2018 03:30 A**

Client ID: Run ID: **ICP2_181220A** SeqNo: **5451680** Prep Date: **12/20/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.26	0.11	0.41	8.278	7.758	78.6	75-125	12.93	9.81	20	
Barium	206.7	0.17	0.41	8.278	209.4	-32.1	75-125	168.2	20.5	20	SRO
Cadmium	7.995	0.04	0.83	8.278	0.3128	92.8	75-125	8.088	1.15	20	
Chromium	18.21	0.023	0.41	8.278	8.964	112	75-125	16.26	11.3	20	
Lead	14.36	0.088	0.41	8.278	7.972	77.2	75-125	13.8	4.02	20	
Selenium	7.815	0.23	0.83	8.278	0.431	89.2	75-125	7.74	0.958	20	
Silver	8.539	0.051	0.41	8.278	-0.3235	107	75-125	8.45	1.06	20	

The following samples were analyzed in this batch:

1812740-11B	1812740-12B	1812740-13B
1812740-14B	1812740-15B	1812740-16B
1812740-17B	1812740-18B	1812740-19B
1812740-20B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK Sample ID: **SBLKW1-129409-129409** Units: **µg/L** Analysis Date: **12/14/2018 05:32 P**

Client ID: Run ID: **SVMS5_181214A** SeqNo: **5440531** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	0.42	5.0								
1,2,4,5-Tetrachlorobenzene	U	0.34	10								
1,4-Dioxane	U	0.72	5.0								
2,2`-Oxybis(1-chloropropane)	U	0.23	5.0								
2,3,4,6-Tetrachlorophenol	U	0.45	5.0								
2,4,5-Trichlorophenol	U	0.17	5.0								
2,4,6-Trichlorophenol	U	0.25	5.0								
2,4-Dichlorophenol	U	0.35	5.0								
2,4-Dimethylphenol	U	0.36	5.0								
2,4-Dinitrophenol	U	0.4	5.0								
2,4-Dinitrotoluene	U	0.42	5.0								
2,6-Dinitrotoluene	U	0.11	5.0								
2-Chloronaphthalene	U	0.075	5.0								
2-Chlorophenol	U	0.23	5.0								
2-Methylnaphthalene	U	0.065	5.0								
2-Methylphenol	U	0.25	5.0								
2-Nitroaniline	U	0.21	5.0								
2-Nitrophenol	U	0.34	5.0								
3&4-Methylphenol	U	0.21	5.0								
3,3´-Dichlorobenzidine	U	1.6	5.0								
3-Nitroaniline	U	0.64	5.0								
4,6-Dinitro-2-methylphenol	U	0.27	5.0								
4-Bromophenyl phenyl ether	U	0.33	5.0								
4-Chloro-3-methylphenol	U	0.26	5.0								
4-Chloroaniline	U	0.34	5.0								
4-Chlorophenyl phenyl ether	U	0.31	5.0								
4-Nitroaniline	U	0.57	5.0								
4-Nitrophenol	U	0.24	5.0								
Acenaphthene	U	0.081	5.0								
Acenaphthylene	U	0.075	5.0								
Acetophenone	U	0.37	1.0								
Anthracene	U	0.028	5.0								
Atrazine	U	0.35	1.0								
Benzaldehyde	U	0.52	1.0								
Benzo(a)anthracene	U	0.022	5.0								
Benzo(a)pyrene	U	0.044	5.0								
Benzo(b)fluoranthene	U	0.051	5.0								
Benzo(g,h,i)perylene	U	0.03	5.0								
Benzo(k)fluoranthene	U	0.048	5.0								
Bis(2-chloroethoxy)methane	U	0.29	5.0								
Bis(2-chloroethyl)ether	U	0.37	5.0								
Bis(2-ethylhexyl)phthalate	U	0.4	5.0								
Butyl benzyl phthalate	U	0.3	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Caprolactam	U	0.96	10					
Carbazole	U	0.1	5.0					
Chrysene	U	0.048	5.0					
Dibenzo(a,h)anthracene	U	0.03	5.0					
Dibenzofuran	U	0.23	5.0					
Diethyl phthalate	U	0.17	5.0					
Dimethyl phthalate	U	0.18	5.0					
Di-n-butyl phthalate	U	0.21	5.0					
Di-n-octyl phthalate	U	0.15	5.0					
Fluoranthene	U	0.038	5.0					
Fluorene	U	0.051	5.0					
Hexachlorobenzene	U	0.44	5.0					
Hexachlorobutadiene	U	0.28	5.0					
Hexachlorocyclopentadiene	U	1.1	5.0					
Hexachloroethane	U	0.21	5.0					
Indeno(1,2,3-cd)pyrene	U	0.067	5.0					
Isophorone	U	0.34	5.0					
Naphthalene	U	0.067	5.0					
Nitrobenzene	U	0.26	5.0					
N-Nitrosodi-n-propylamine	U	0.35	5.0					
N-Nitrosodiphenylamine	U	0.23	5.0					
Pentachlorophenol	U	0.97	5.0					
Phenanthrene	U	0.03	5.0					
Phenol	U	0.21	5.0					
Pyrene	U	0.036	5.0					
Surr: 2,4,6-Tribromophenol	*26.94*	0	0	*50*	0	*53.9*	*27-83*	0
Surr: 2-Fluorobiphenyl	*23.2*	0	0	*50*	0	*46.4*	*26-79*	0
Surr: 2-Fluorophenol	*12.89*	0	0	*50*	0	*25.8*	*13-56*	0
Surr: 4-Terphenyl-d14	*31.56*	0	0	*50*	0	*63.1*	*43-106*	0
Surr: Nitrobenzene-d5	*22.08*	0	0	*50*	0	*44.2*	*29-80*	0
Surr: Phenol-d6	*7.41*	0	0	*50*	0	*14.8*	*10-35*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK Sample ID: **SBLKW1-129409-129409** Units: **µg/L** Analysis Date: **12/14/2018 05:32 P**

Client ID: Run ID: **SVMS5_181214A** SeqNo: **5440584** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	0.42	1.0								
1,2,4,5-Tetrachlorobenzene	U	0.34	5.0								
1,4-Dioxane	U	0.72	5.0								
2,2`-Oxybis(1-chloropropane)	U	0.23	1.0								
2,3,4,6-Tetrachlorophenol	U	0.45	1.0								
2,4,5-Trichlorophenol	U	0.17	1.0								
2,4,6-Trichlorophenol	U	0.25	1.0								
2,4-Dichlorophenol	U	0.35	1.0								
2,4-Dimethylphenol	U	0.36	1.0								
2,4-Dinitrophenol	U	0.4	5.0								
2,4-Dinitrotoluene	U	0.42	1.0								
2,6-Dinitrotoluene	U	0.33	1.0								
2-Chloronaphthalene	U	0.075	0.10								
2-Chlorophenol	U	0.23	1.0								
2-Methylnaphthalene	U	0.065	0.10								
2-Methylphenol	U	0.25	1.0								
2-Nitroaniline	U	0.21	1.0								
2-Nitrophenol	U	0.34	1.0								
3&4-Methylphenol	U	0.21	1.0								
3,3´-Dichlorobenzidine	U	1.6	5.0								
3-Nitroaniline	U	0.64	1.0								
4,6-Dinitro-2-methylphenol	U	0.27	1.0								
4-Bromophenyl phenyl ether	U	0.33	1.0								
4-Chloro-3-methylphenol	U	0.26	1.0								
4-Chloroaniline	U	0.34	1.0								
4-Chlorophenyl phenyl ether	U	0.31	1.0								
4-Nitroaniline	U	0.57	1.0								
4-Nitrophenol	U	0.24	5.0								
Acenaphthene	U	0.081	0.10								
Acenaphthylene	U	0.075	0.10								
Acetophenone	U	0.37	1.0								
Anthracene	U	0.028	0.10								
Atrazine	U	0.35	1.0								
Benzaldehyde	U	0.52	1.0								
Benzo(a)anthracene	U	0.022	0.10								
Benzo(a)pyrene	U	0.044	0.10								
Benzo(b)fluoranthene	U	0.051	0.10								
Benzo(g,h,i)perylene	U	0.03	0.10								
Benzo(k)fluoranthene	U	0.048	0.10								
Bis(2-chloroethoxy)methane	U	0.29	1.0								
Bis(2-chloroethyl)ether	U	0.37	1.0								
Bis(2-ethylhexyl)phthalate	U	0.4	1.0								
Butyl benzyl phthalate	U	0.3	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Caprolactam	U	0.96	5.0					
Carbazole	U	0.1	1.0					
Chrysene	U	0.048	0.10					
Dibenzo(a,h)anthracene	U	0.03	0.10					
Dibenzofuran	U	0.23	1.0					
Diethyl phthalate	U	0.17	1.0					
Dimethyl phthalate	U	0.18	1.0					
Di-n-butyl phthalate	U	0.21	1.0					
Di-n-octyl phthalate	U	0.15	1.0					
Fluoranthene	U	0.038	0.10					
Fluorene	U	0.051	0.10					
Hexachlorobenzene	U	0.44	1.0					
Hexachlorobutadiene	U	0.28	1.0					
Hexachlorocyclopentadiene	U	1.1	5.0					
Hexachloroethane	U	0.21	1.0					
Indeno(1,2,3-cd)pyrene	U	0.067	0.10					
Isophorone	U	0.34	5.0					
Naphthalene	U	0.067	0.10					
Nitrobenzene	U	0.26	1.0					
N-Nitrosodi-n-propylamine	U	0.35	1.0					
N-Nitrosodiphenylamine	U	0.23	1.0					
Pentachlorophenol	U	0.97	5.0					
Phenanthrene	U	0.03	0.10					
Phenol	U	0.21	1.0					
Pyrene	U	0.036	0.10					
Surr: 2,4,6-Tribromophenol	*26.94*	0	0	*50*	0	*53.9*	*32-92*	0
Surr: 2-Fluorobiphenyl	*23.2*	0	0	*50*	0	*46.4*	*34-98*	0
Surr: 2-Fluorophenol	*12.89*	0	0	*50*	0	*25.8*	*23-55*	0
Surr: 4-Terphenyl-d14	*31.56*	0	0	*50*	0	*63.1*	*50-111*	0
Surr: Nitrobenzene-d5	*22.08*	0	0	*50*	0	*44.2*	*32-89*	0
Surr: Phenol-d6	*7.41*	0	0	*50*	0	*14.8*	*10-35*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK Sample ID: **SBLKW1-129409-129409** Units: **µg/L** Analysis Date: **12/19/2018 03:19 P**

Client ID: Run ID: **SVMS8_181219A** SeqNo: **5451351** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	0.42	1.0								
1,2,4,5-Tetrachlorobenzene	U	0.34	5.0								
1,4-Dioxane	U	0.72	5.0								
2,2`-Oxybis(1-chloropropane)	U	0.23	1.0								
2,3,4,6-Tetrachlorophenol	U	0.45	1.0								
2,4,5-Trichlorophenol	U	0.17	1.0								
2,4,6-Trichlorophenol	U	0.25	1.0								
2,4-Dichlorophenol	U	0.35	1.0								
2,4-Dimethylphenol	U	0.36	1.0								
2,4-Dinitrophenol	U	0.4	5.0								
2,4-Dinitrotoluene	U	0.42	1.0								
2,6-Dinitrotoluene	U	0.33	1.0								
2-Chloronaphthalene	U	0.075	0.10								
2-Chlorophenol	U	0.23	1.0								
2-Methylnaphthalene	U	0.065	0.10								
2-Methylphenol	U	0.25	1.0								
2-Nitroaniline	U	0.21	1.0								
2-Nitrophenol	U	0.34	1.0								
3&4-Methylphenol	U	0.21	1.0								
3,3´-Dichlorobenzidine	U	1.6	5.0								
3-Nitroaniline	U	0.64	1.0								
4,6-Dinitro-2-methylphenol	U	0.27	1.0								
4-Bromophenyl phenyl ether	U	0.33	1.0								
4-Chloro-3-methylphenol	U	0.26	1.0								
4-Chloroaniline	U	0.34	1.0								
4-Chlorophenyl phenyl ether	U	0.31	1.0								
4-Nitroaniline	U	0.57	1.0								
4-Nitrophenol	U	0.24	5.0								
Acenaphthene	U	0.081	0.10								
Acenaphthylene	U	0.075	0.10								
Acetophenone	U	0.37	1.0								
Anthracene	U	0.028	0.10								
Atrazine	U	0.35	1.0								
Benzaldehyde	U	0.52	1.0								
Benzo(a)anthracene	U	0.022	0.10								
Benzo(a)pyrene	U	0.044	0.10								
Benzo(b)fluoranthene	U	0.051	0.10								
Benzo(g,h,i)perylene	U	0.03	0.10								
Benzo(k)fluoranthene	U	0.048	0.10								
Bis(2-chloroethoxy)methane	U	0.29	1.0								
Bis(2-chloroethyl)ether	U	0.37	1.0								
Bis(2-ethylhexyl)phthalate	U	0.4	1.0								
Butyl benzyl phthalate	U	0.3	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Caprolactam	U	0.96	5.0					
Carbazole	U	0.1	1.0					
Chrysene	U	0.048	0.10					
Dibenzo(a,h)anthracene	U	0.03	0.10					
Dibenzofuran	U	0.23	1.0					
Diethyl phthalate	U	0.17	1.0					
Dimethyl phthalate	U	0.18	1.0					
Di-n-butyl phthalate	U	0.21	1.0					
Di-n-octyl phthalate	U	0.15	1.0					
Fluoranthene	U	0.038	0.10					
Fluorene	U	0.051	0.10					
Hexachlorobenzene	U	0.44	1.0					
Hexachlorobutadiene	U	0.28	1.0					
Hexachlorocyclopentadiene	U	1.1	5.0					
Hexachloroethane	U	0.21	1.0					
Indeno(1,2,3-cd)pyrene	U	0.067	0.10					
Isophorone	U	0.34	5.0					
Naphthalene	U	0.067	0.10					
Nitrobenzene	U	0.26	1.0					
N-Nitrosodi-n-propylamine	U	0.35	1.0					
N-Nitrosodiphenylamine	U	0.23	1.0					
Pentachlorophenol	U	0.97	5.0					
Phenanthrene	U	0.03	0.10					
Phenol	U	0.21	1.0					
Pyrene	U	0.036	0.10					
Surr: 2,4,6-Tribromophenol	*22*	0	0	*50*	0	*44*	*27-83*	0
Surr: 2-Fluorobiphenyl	*24.9*	0	0	*50*	0	*49.8*	*26-79*	0
Surr: 2-Fluorophenol	*12.33*	0	0	*50*	0	*24.7*	*13-56*	0
Surr: 4-Terphenyl-d14	*30.42*	0	0	*50*	0	*60.8*	*43-106*	0
Surr: Nitrobenzene-d5	*25.17*	0	0	*50*	0	*50.3*	*29-80*	0
Surr: Phenol-d6	*5.93*	0	0	*50*	0	*11.9*	*10-35*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

LCS Sample ID: **SLCSW1-129409-129409** Units: **µg/L** Analysis Date: **12/14/2018 05:56 P**

Client ID: Run ID: **SVMS5_181214A** SeqNo: **5440535** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	13.42	0.42	5.0	20	0	67.1	40-85	0			
1,2,4,5-Tetrachlorobenzene	12.03	0.34	10	20	0	60.2	34-82	0			
2,2`-Oxybis(1-chloropropane)	11.62	0.23	5.0	20	0	58.1	33-83	0			
2,3,4,6-Tetrachlorophenol	13.54	0.45	5.0	20	0	67.7	43-104	0			
2,4,5-Trichlorophenol	12.46	0.17	5.0	20	0	62.3	47-84	0			
2,4,6-Trichlorophenol	12.83	0.25	5.0	20	0	64.2	45-83	0			
2,4-Dichlorophenol	13.58	0.35	5.0	20	0	67.9	39-84	0			
2,4-Dimethylphenol	13.01	0.36	5.0	20	0	65	34-79	0			
2,4-Dinitrophenol	13.68	0.4	5.0	20	0	68.4	11-117	0			
2,4-Dinitrotoluene	13.84	0.42	5.0	20	0	69.2	54-93	0			
2,6-Dinitrotoluene	13.53	0.11	5.0	20	0	67.6	51-90	0			
2-Chloronaphthalene	12.96	0.075	5.0	20	0	64.8	37-84	0			
2-Chlorophenol	12.39	0.23	5.0	20	0	62	38-83	0			
2-Methylnaphthalene	12.59	0.065	5.0	20	0	63	33-85	0			
2-Methylphenol	11.16	0.25	5.0	20	0	55.8	29-76	0			
2-Nitroaniline	13.28	0.21	5.0	20	0	66.4	45-94	0			
2-Nitrophenol	12.77	0.34	5.0	20	0	63.8	41-84	0			
3&4-Methylphenol	10.32	0.21	5.0	20	0	51.6	24-70	0			
3,3´-Dichlorobenzidine	13.08	1.6	5.0	20	0	65.4	39-96	0			
3-Nitroaniline	13.07	0.64	5.0	20	0	65.4	50-93	0			
4,6-Dinitro-2-methylphenol	15.13	0.27	5.0	20	0	75.6	23-116	0			
4-Bromophenyl phenyl ether	14.76	0.33	5.0	20	0	73.8	51-93	0			
4-Chloro-3-methylphenol	12.89	0.26	5.0	20	0	64.4	41-86	0			
4-Chloroaniline	13.8	0.34	5.0	20	0	69	44-92	0			
4-Chlorophenyl phenyl ether	13.84	0.31	5.0	20	0	69.2	49-89	0			
4-Nitroaniline	14.37	0.57	5.0	20	0	71.8	47-98	0			
4-Nitrophenol	5.81	0.24	5.0	20	0	29	10-43	0			
Acenaphthene	12.47	0.081	5.0	20	0	62.4	42-85	0			
Acenaphthylene	12.39	0.075	5.0	20	0	62	42-88	0			
Acetophenone	13.25	0.37	1.0	20	0	66.2	39-91	0			
Anthracene	15.5	0.028	5.0	20	0	77.5	55-93	0			
Atrazine	16.44	0.35	1.0	20	0	82.2	52-100	0			
Benzaldehyde	13.86	0.52	1.0	20	0	69.3	42-110	0			
Benzo(a)anthracene	16.3	0.022	5.0	20	0	81.5	56-91	0			
Benzo(a)pyrene	15.26	0.044	5.0	20	0	76.3	55-96	0			
Benzo(b)fluoranthene	16.58	0.051	5.0	20	0	82.9	55-99	0			
Benzo(g,h,i)perylene	15.75	0.03	5.0	20	0	78.8	44-102	0			
Benzo(k)fluoranthene	16.82	0.048	5.0	20	0	84.1	57-96	0			
Bis(2-chloroethoxy)methane	13.82	0.29	5.0	20	0	69.1	39-88	0			
Bis(2-chloroethyl)ether	11.08	0.37	5.0	20	0	55.4	36-91	0			
Bis(2-ethylhexyl)phthalate	15.18	0.4	5.0	20	0	75.9	39-113	0			
Butyl benzyl phthalate	15.67	0.3	5.0	20	0	78.4	49-97	0			
Carbazole	15.58	0.1	5.0	20	0	77.9	59-92	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	15.65	0.048	5.0	20	0	78.2	55-92	0	
Dibenzo(a,h)anthracene	15.65	0.03	5.0	20	0	78.2	47-100	0	
Dibenzofuran	12.83	0.23	5.0	20	0	64.2	44-89	0	
Diethyl phthalate	13.97	0.17	5.0	20	0	69.8	54-95	0	
Dimethyl phthalate	14.7	0.18	5.0	20	0	73.5	51-92	0	
Di-n-butyl phthalate	15.79	0.21	5.0	20	0	79	57-98	0	
Di-n-octyl phthalate	15.13	0.15	5.0	20	0	75.6	36-117	0	
Fluoranthene	15.56	0.038	5.0	20	0	77.8	59-93	0	
Fluorene	12.99	0.051	5.0	20	0	65	47-91	0	
Hexachlorobenzene	14.92	0.44	5.0	20	0	74.6	53-89	0	
Hexachlorobutadiene	9.93	0.28	5.0	20	0	49.6	11-83	0	
Hexachlorocyclopentadiene	11.36	1.1	5.0	20	0	56.8	14-75	0	
Hexachloroethane	8.99	0.21	5.0	20	0	45	10-85	0	
Indeno(1,2,3-cd)pyrene	15.68	0.067	5.0	20	0	78.4	46-102	0	
Isophorone	13.02	0.34	5.0	20	0	65.1	42-90	0	
Naphthalene	11.55	0.067	5.0	20	0	57.8	26-78	0	
Nitrobenzene	12.81	0.26	5.0	20	0	64	38-86	0	
N-Nitrosodi-n-propylamine	13.18	0.35	5.0	20	0	65.9	39-95	0	
N-Nitrosodiphenylamine	15.5	0.23	5.0	20	0	77.5	47-94	0	
Pentachlorophenol	14.17	0.97	5.0	20	0	70.8	37-94	0	
Phenanthrene	15.11	0.03	5.0	20	0	75.6	51-90	0	
Phenol	4.9	0.21	5.0	20	0	24.5	10-40	0	J
Pyrene	16.81	0.036	5.0	20	0	84	48-98	0	
Surr: 2,4,6-Tribromophenol	*36.29*	0	0	*50*	0	*72.6*	*27-83*	0	
Surr: 2-Fluorobiphenyl	*30.65*	0	0	*50*	0	*61.3*	*26-79*	0	
Surr: 2-Fluorophenol	*18.4*	0	0	*50*	0	*36.8*	*13-56*	0	
Surr: 4-Terphenyl-d14	*39.52*	0	0	*50*	0	*79*	*43-106*	0	
Surr: Nitrobenzene-d5	*31.87*	0	0	*50*	0	*63.7*	*29-80*	0	
Surr: Phenol-d6	*12.05*	0	0	*50*	0	*24.1*	*10-35*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

LCS Sample ID: **SLCSW1-129409-129409** Units: **µg/L** Analysis Date: **12/14/2018 05:56 P**

Client ID: Run ID: **SVMS5_181214A** SeqNo: **5440585** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	13.42	0.42	1.0	20	0	67.1	39-101	0			
1,2,4,5-Tetrachlorobenzene	12.03	0.34	5.0	20	0	60.2	37-96	0			
2,2`-Oxybis(1-chloropropane)	11.62	0.23	1.0	20	0	58.1	40-95	0			
2,3,4,6-Tetrachlorophenol	13.54	0.45	1.0	20	0	67.7	44-110	0			
2,4,5-Trichlorophenol	12.46	0.17	1.0	20	0	62.3	45-104	0			
2,4,6-Trichlorophenol	12.83	0.25	1.0	20	0	64.2	41-102	0			
2,4-Dichlorophenol	13.58	0.35	1.0	20	0	67.9	39-98	0			
2,4-Dimethylphenol	13.01	0.36	1.0	20	0	65	32-90	0			
2,4-Dinitrophenol	13.68	0.4	5.0	20	0	68.4	23-110	0			
2,4-Dinitrotoluene	13.84	0.42	1.0	20	0	69.2	52-106	0			
2,6-Dinitrotoluene	13.53	0.33	1.0	20	0	67.6	53-101	0			
2-Chloronaphthalene	12.96	0.075	0.10	20	0	64.8	42-97	0			
2-Chlorophenol	12.39	0.23	1.0	20	0	62	40-95	0			
2-Methylnaphthalene	12.59	0.065	0.10	20	0	63	37-99	0			
2-Methylphenol	11.16	0.25	1.0	20	0	55.8	32-87	0			
2-Nitroaniline	13.28	0.21	1.0	20	0	66.4	46-106	0			
2-Nitrophenol	12.77	0.34	1.0	20	0	63.8	39-102	0			
3&4-Methylphenol	10.32	0.21	1.0	20	0	51.6	31-81	0			
3,3´-Dichlorobenzidine	13.08	1.6	5.0	20	0	65.4	35-125	0			
3-Nitroaniline	13.07	0.64	1.0	20	0	65.4	42-102	0			
4,6-Dinitro-2-methylphenol	15.13	0.27	1.0	20	0	75.6	40-118	0			
4-Bromophenyl phenyl ether	14.76	0.33	1.0	20	0	73.8	50-107	0			
4-Chloro-3-methylphenol	12.89	0.26	1.0	20	0	64.4	40-101	0			
4-Chloroaniline	13.8	0.34	1.0	20	0	69	27-124	0			
4-Chlorophenyl phenyl ether	13.84	0.31	1.0	20	0	69.2	50-99	0			
4-Nitroaniline	14.37	0.57	1.0	20	0	71.8	41-108	0			
4-Nitrophenol	5.81	0.24	5.0	20	0	29	10-79	0			
Acenaphthene	12.47	0.081	0.10	20	0	62.4	45-97	0			
Acenaphthylene	12.39	0.075	0.10	20	0	62	45-103	0			
Acetophenone	13.25	0.37	1.0	20	0	66.2	43-108	0			
Anthracene	15.5	0.028	0.10	20	0	77.5	55-107	0			
Atrazine	16.44	0.35	1.0	20	0	82.2	50-130	0			
Benzaldehyde	13.86	0.52	1.0	20	0	69.3	30-120	0			
Benzo(a)anthracene	16.3	0.022	0.10	20	0	81.5	56-109	0			
Benzo(a)pyrene	15.26	0.044	0.10	20	0	76.3	55-112	0			
Benzo(b)fluoranthene	16.58	0.051	0.10	20	0	82.9	54-114	0			
Benzo(g,h,i)perylene	15.75	0.03	0.10	20	0	78.8	55-114	0			
Benzo(k)fluoranthene	16.82	0.048	0.10	20	0	84.1	57-112	0			
Bis(2-chloroethoxy)methane	13.82	0.29	1.0	20	0	69.1	46-98	0			
Bis(2-chloroethyl)ether	11.08	0.37	1.0	20	0	55.4	42-102	0			
Bis(2-ethylhexyl)phthalate	15.18	0.4	1.0	20	0	75.9	50-121	0			
Butyl benzyl phthalate	15.67	0.3	1.0	20	0	78.4	49-114	0			
Carbazole	15.58	0.1	1.0	20	0	77.9	52-113	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	15.65	0.048	0.10	20	0	78.2	59-108	0
Dibenzo(a,h)anthracene	15.65	0.03	0.10	20	0	78.2	55-113	0
Dibenzofuran	12.83	0.23	1.0	20	0	64.2	47-100	0
Diethyl phthalate	13.97	0.17	1.0	20	0	69.8	55-106	0
Dimethyl phthalate	14.7	0.18	1.0	20	0	73.5	54-102	0
Di-n-butyl phthalate	15.79	0.21	1.0	20	0	79	54-114	0
Di-n-octyl phthalate	15.13	0.15	1.0	20	0	75.6	41-131	0
Fluoranthene	15.56	0.038	0.10	20	0	77.8	55-113	0
Fluorene	12.99	0.051	0.10	20	0	65	52-100	0
Hexachlorobenzene	14.92	0.44	1.0	20	0	74.6	52-104	0
Hexachlorobutadiene	9.93	0.28	1.0	20	0	49.6	21-98	0
Hexachlorocyclopentadiene	11.36	1.1	5.0	20	0	56.8	20-98	0
Hexachloroethane	8.99	0.21	1.0	20	0	45	19-99	0
Indeno(1,2,3-cd)pyrene	15.68	0.067	0.10	20	0	78.4	52-117	0
Isophorone	13.02	0.34	5.0	20	0	65.1	44-103	0
Naphthalene	11.55	0.067	0.10	20	0	57.8	34-95	0
Nitrobenzene	12.81	0.26	1.0	20	0	64	41-101	0
N-Nitrosodi-n-propylamine	13.18	0.35	1.0	20	0	65.9	44-108	0
N-Nitrosodiphenylamine	15.5	0.23	1.0	20	0	77.5	52-108	0
Pentachlorophenol	14.17	0.97	5.0	20	0	70.8	30-104	0
Phenanthrene	15.11	0.03	0.10	20	0	75.6	54-102	0
Phenol	4.9	0.21	1.0	20	0	24.5	15-42	0
Pyrene	16.81	0.036	0.10	20	0	84	54-115	0
Surr: 2,4,6-Tribromophenol	*36.29*	0	0	*50*	0	*72.6*	*32-92*	0
Surr: 2-Fluorobiphenyl	*30.65*	0	0	*50*	0	*61.3*	*34-98*	0
Surr: 2-Fluorophenol	*18.4*	0	0	*50*	0	*36.8*	*23-55*	0
Surr: 4-Terphenyl-d14	*39.52*	0	0	*50*	0	*79*	*50-111*	0
Surr: Nitrobenzene-d5	*31.87*	0	0	*50*	0	*63.7*	*32-89*	0
Surr: Phenol-d6	*12.05*	0	0	*50*	0	*24.1*	*10-35*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

LCS Sample ID: **SLCSW1-129409-129409** Units: **µg/L** Analysis Date: **12/19/2018 03:40 P**

Client ID: Run ID: **SVMS8_181219A** SeqNo: **5451352** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	12.99	0.42	1.0	20	0	65	40-85	0			
1,2,4,5-Tetrachlorobenzene	12.01	0.34	5.0	20	0	60	34-82	0			
2,2`-Oxybis(1-chloropropane)	12.59	0.23	1.0	20	0	63	33-83	0			
2,3,4,6-Tetrachlorophenol	15.8	0.45	1.0	20	0	79	43-104	0			
2,4,5-Trichlorophenol	12.91	0.17	1.0	20	0	64.6	47-84	0			
2,4,6-Trichlorophenol	12.42	0.25	1.0	20	0	62.1	45-83	0			
2,4-Dichlorophenol	13.32	0.35	1.0	20	0	66.6	39-84	0			
2,4-Dimethylphenol	11.55	0.36	1.0	20	0	57.8	34-79	0			
2,4-Dinitrophenol	12.61	0.4	5.0	20	0	63	11-117	0			
2,4-Dinitrotoluene	15.64	0.42	1.0	20	0	78.2	54-93	0			
2,6-Dinitrotoluene	14.58	0.33	1.0	20	0	72.9	51-90	0			
2-Chloronaphthalene	13.45	0.075	0.10	20	0	67.2	37-84	0			
2-Chlorophenol	12.66	0.23	1.0	20	0	63.3	38-83	0			
2-Methylnaphthalene	12.79	0.065	0.10	20	0	64	33-85	0			
2-Methylphenol	10.82	0.25	1.0	20	0	54.1	29-76	0			
2-Nitroaniline	15.07	0.21	1.0	20	0	75.4	45-94	0			
2-Nitrophenol	14.05	0.34	1.0	20	0	70.2	41-84	0			
3&4-Methylphenol	9.86	0.21	1.0	20	0	49.3	24-70	0			
3,3´-Dichlorobenzidine	16.08	1.6	5.0	20	0	80.4	39-96	0			
3-Nitroaniline	14.3	0.64	1.0	20	0	71.5	50-93	0			
4,6-Dinitro-2-methylphenol	15.43	0.27	1.0	20	0	77.2	23-116	0			
4-Bromophenyl phenyl ether	15.09	0.33	1.0	20	0	75.4	51-93	0			
4-Chloro-3-methylphenol	13.47	0.26	1.0	20	0	67.4	41-86	0			
4-Chloroaniline	13.58	0.34	1.0	20	0	67.9	44-92	0			
4-Chlorophenyl phenyl ether	14.5	0.31	1.0	20	0	72.5	49-89	0			
4-Nitroaniline	13.5	0.57	1.0	20	0	67.5	47-98	0			
4-Nitrophenol	3.99	0.24	5.0	20	0	20	10-43	0			J
Acenaphthene	13.51	0.081	0.10	20	0	67.6	42-85	0			
Acenaphthylene	14.19	0.075	0.10	20	0	71	42-88	0			
Acetophenone	13.39	0.37	1.0	20	0	67	39-91	0			
Anthracene	16.32	0.028	0.10	20	0	81.6	55-93	0			
Atrazine	17.92	0.35	1.0	20	0	89.6	52-100	0			
Benzaldehyde	17.89	0.52	1.0	20	0	89.4	42-110	0			
Benzo(a)anthracene	17.3	0.022	0.10	20	0	86.5	56-91	0			
Benzo(a)pyrene	17.04	0.044	0.10	20	0	85.2	55-96	0			
Benzo(b)fluoranthene	16.96	0.051	0.10	20	0	84.8	55-99	0			
Benzo(g,h,i)perylene	15.93	0.03	0.10	20	0	79.6	44-102	0			
Benzo(k)fluoranthene	16.87	0.048	0.10	20	0	84.4	57-96	0			
Bis(2-chloroethoxy)methane	13.56	0.29	1.0	20	0	67.8	39-88	0			
Bis(2-chloroethyl)ether	13.97	0.37	1.0	20	0	69.8	36-91	0			
Bis(2-ethylhexyl)phthalate	17.19	0.4	1.0	20	0	86	39-113	0			
Butyl benzyl phthalate	15.22	0.3	1.0	20	0	76.1	49-97	0			
Carbazole	17.1	0.1	1.0	20	0	85.5	59-92	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	16.02	0.048	0.10	20	0	80.1	55-92	0
Dibenzo(a,h)anthracene	16.46	0.03	0.10	20	0	82.3	47-100	0
Dibenzofuran	14.07	0.23	1.0	20	0	70.4	44-89	0
Diethyl phthalate	16.25	0.17	1.0	20	0	81.2	54-95	0
Dimethyl phthalate	14.87	0.18	1.0	20	0	74.4	51-92	0
Di-n-butyl phthalate	16.91	0.21	1.0	20	0	84.6	57-98	0
Di-n-octyl phthalate	20.17	0.15	1.0	20	0	101	36-117	0
Fluoranthene	18.44	0.038	0.10	20	0	92.2	59-93	0
Fluorene	14.77	0.051	0.10	20	0	73.8	47-91	0
Hexachlorobenzene	15.24	0.44	1.0	20	0	76.2	53-89	0
Hexachlorobutadiene	10.3	0.28	1.0	20	0	51.5	11-83	0
Hexachlorocyclopentadiene	8.73	1.1	5.0	20	0	43.6	14-75	0
Hexachloroethane	9.52	0.21	1.0	20	0	47.6	10-85	0
Indeno(1,2,3-cd)pyrene	17.06	0.067	0.10	20	0	85.3	46-102	0
Isophorone	13.39	0.34	5.0	20	0	67	42-90	0
Naphthalene	11.88	0.067	0.10	20	0	59.4	26-78	0
Nitrobenzene	13.68	0.26	1.0	20	0	68.4	38-86	0
N-Nitrosodi-n-propylamine	13.4	0.35	1.0	20	0	67	39-95	0
N-Nitrosodiphenylamine	15.1	0.23	1.0	20	0	75.5	47-94	0
Pentachlorophenol	13.16	0.97	5.0	20	0	65.8	37-94	0
Phenanthrene	15.14	0.03	0.10	20	0	75.7	51-90	0
Phenol	4.9	0.21	1.0	20	0	24.5	10-40	0
Pyrene	14.09	0.036	0.10	20	0	70.4	48-98	0
Surr: 2,4,6-Tribromophenol	*35.79*	0	0	*50*	0	*71.6*	*27-83*	0
Surr: 2-Fluorobiphenyl	*32.28*	0	0	*50*	0	*64.6*	*26-79*	0
Surr: 2-Fluorophenol	*19.69*	0	0	*50*	0	*39.4*	*13-56*	0
Surr: 4-Terphenyl-d14	*35.81*	0	0	*50*	0	*71.6*	*43-106*	0
Surr: Nitrobenzene-d5	*35.29*	0	0	*50*	0	*70.6*	*29-80*	0
Surr: Phenol-d6	*12*	0	0	*50*	0	*24*	*10-35*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MS Sample ID: **1812641-02B MS** Units: **µg/L** Analysis Date: **12/14/2018 08:08 P**

Client ID: Run ID: **SVMS5_181214A** SeqNo: **5440536** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	10.63	0.42	5.0	20	0	53.2	40-85	0			
1,2,4,5-Tetrachlorobenzene	9.9	0.34	10	20	0	49.5	34-82	0			J
2,2`-Oxybis(1-chloropropane)	8.71	0.23	5.0	20	0	43.6	33-83	0			
2,3,4,6-Tetrachlorophenol	13.23	0.45	5.0	20	0	66.2	43-104	0			
2,4,5-Trichlorophenol	11.4	0.17	5.0	20	0	57	47-84	0			
2,4,6-Trichlorophenol	11.8	0.25	5.0	20	0	59	45-83	0			
2,4-Dichlorophenol	10.83	0.35	5.0	20	0	54.2	39-84	0			
2,4-Dimethylphenol	10.58	0.36	5.0	20	0	52.9	34-79	0			
2,4-Dinitrophenol	24.15	0.4	5.0	20	0	121	11-117	0			S
2,4-Dinitrotoluene	13.24	0.42	5.0	20	0	66.2	54-93	0			
2,6-Dinitrotoluene	12.59	0.11	5.0	20	0	63	51-90	0			
2-Chloronaphthalene	10.51	0.075	5.0	20	0	52.6	37-84	0			
2-Chlorophenol	9.47	0.23	5.0	20	0	47.4	38-83	0			
2-Methylnaphthalene	9.96	0.065	5.0	20	0	49.8	33-85	0			
2-Methylphenol	8.09	0.25	5.0	20	0	40.4	29-76	0			
2-Nitroaniline	12.5	0.21	5.0	20	0	62.5	45-94	0			
2-Nitrophenol	9.99	0.34	5.0	20	0	50	41-84	0			
3&4-Methylphenol	7.25	0.21	5.0	20	0	36.2	24-70	0			
3,3´-Dichlorobenzidine	8.26	1.6	5.0	20	0	41.3	39-96	0			
3-Nitroaniline	10.66	0.64	5.0	20	0	53.3	50-93	0			
4,6-Dinitro-2-methylphenol	19.64	0.27	5.0	20	0	98.2	23-116	0			
4-Bromophenyl phenyl ether	14.46	0.33	5.0	20	0	72.3	51-93	0			
4-Chloro-3-methylphenol	11.43	0.26	5.0	20	0	57.2	41-86	0			
4-Chloroaniline	7.87	0.34	5.0	20	0	39.4	44-92	0			S
4-Chlorophenyl phenyl ether	12.36	0.31	5.0	20	0	61.8	49-89	0			
4-Nitroaniline	13.04	0.57	5.0	20	0	65.2	47-98	0			
4-Nitrophenol	7.28	0.24	5.0	20	0	36.4	10-43	0			
Acenaphthene	10.9	0.081	5.0	20	0	54.5	42-85	0			
Acenaphthylene	10.44	0.075	5.0	20	0	52.2	42-88	0			
Acetophenone	10.06	0.37	1.0	20	0	50.3	39-91	0			
Anthracene	14.85	0.028	5.0	20	0	74.2	55-93	0			
Atrazine	14.38	0.35	1.0	20	0	71.9	52-100	0			
Benzaldehyde	9.85	0.52	1.0	20	0	49.2	42-110	0			
Benzo(a)anthracene	15.46	0.022	5.0	20	0	77.3	56-91	0			
Benzo(a)pyrene	14.81	0.044	5.0	20	0	74	55-96	0			
Benzo(b)fluoranthene	15.26	0.051	5.0	20	0	76.3	55-99	0			
Benzo(g,h,i)perylene	16.19	0.03	5.0	20	0	81	44-102	0			
Benzo(k)fluoranthene	15.7	0.048	5.0	20	0	78.5	57-96	0			
Bis(2-chloroethoxy)methane	10.76	0.29	5.0	20	0	53.8	39-88	0			
Bis(2-chloroethyl)ether	8.16	0.37	5.0	20	0	40.8	36-91	0			
Bis(2-ethylhexyl)phthalate	15.28	0.4	5.0	20	0.89	72	39-113	0			
Butyl benzyl phthalate	15.45	0.3	5.0	20	0	77.2	49-97	0			
Carbazole	14.77	0.1	5.0	20	0	73.8	59-92	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	14.98	0.048	5.0	20	0	74.9	55-92	0	
Dibenzo(a,h)anthracene	16.14	0.03	5.0	20	0	80.7	47-100	0	
Dibenzofuran	11	0.23	5.0	20	0	55	44-89	0	
Diethyl phthalate	13.02	0.17	5.0	20	0	65.1	54-95	0	
Dimethyl phthalate	13.66	0.18	5.0	20	0	68.3	51-92	0	
Di-n-butyl phthalate	15.19	0.21	5.0	20	0	76	57-98	0	
Di-n-octyl phthalate	14.53	0.15	5.0	20	0	72.6	36-117	0	
Fluoranthene	13.9	0.038	5.0	20	0	69.5	59-93	0	
Fluorene	11.39	0.051	5.0	20	0	57	47-91	0	
Hexachlorobenzene	14.52	0.44	5.0	20	0	72.6	53-89	0	
Hexachlorobutadiene	8.78	0.28	5.0	20	0	43.9	11-83	0	
Hexachlorocyclopentadiene	10.45	1.1	5.0	20	0	52.2	14-75	0	
Hexachloroethane	7.64	0.21	5.0	20	0	38.2	10-85	0	
Indeno(1,2,3-cd)pyrene	16.06	0.067	5.0	20	0	80.3	46-102	0	
Isophorone	10.52	0.34	5.0	20	0	52.6	42-90	0	
Naphthalene	9.13	0.067	5.0	20	0	45.6	26-78	0	
Nitrobenzene	9.98	0.26	5.0	20	0	49.9	38-86	0	
N-Nitrosodi-n-propylamine	10.44	0.35	5.0	20	0	52.2	39-95	0	
N-Nitrosodiphenylamine	15.66	0.23	5.0	20	0	78.3	47-94	0	
Pentachlorophenol	16.97	0.97	5.0	20	0	84.8	37-94	0	
Phenanthrene	14.49	0.03	5.0	20	0	72.4	51-90	0	
Phenol	3.33	0.21	5.0	20	0	16.6	10-40	0	J
Pyrene	16.69	0.036	5.0	20	0	83.4	48-98	0	
Surr: 2,4,6-Tribromophenol	*37.47*	0	0	*50*	0	*74.9*	*27-83*	0	
Surr: 2-Fluorobiphenyl	*24.7*	0	0	*50*	0	*49.4*	*26-79*	0	
Surr: 2-Fluorophenol	*12.32*	0	0	*50*	0	*24.6*	*13-56*	0	
Surr: 4-Terphenyl-d14	*38.86*	0	0	*50*	0	*77.7*	*43-106*	0	
Surr: Nitrobenzene-d5	*24.12*	0	0	*50*	0	*48.2*	*29-80*	0	
Surr: Phenol-d6	*7.79*	0	0	*50*	0	*15.6*	*10-35*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MS Sample ID: **1812641-02B MS** Units: **µg/L** Analysis Date: **12/14/2018 08:08 P**

Client ID: Run ID: **SVMS5_181214A** SeqNo: **5440587** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	10.63	0.42	1.0	20	0	53.2	39-101	0			
1,2,4,5-Tetrachlorobenzene	9.9	0.34	5.0	20	0	49.5	37-96	0			
2,2`-Oxybis(1-chloropropane)	8.71	0.23	1.0	20	0	43.6	40-95	0			
2,3,4,6-Tetrachlorophenol	13.23	0.45	1.0	20	0	66.2	44-110	0			
2,4,5-Trichlorophenol	11.4	0.17	1.0	20	0	57	45-104	0			
2,4,6-Trichlorophenol	11.8	0.25	1.0	20	0	59	41-102	0			
2,4-Dichlorophenol	10.83	0.35	1.0	20	0	54.2	39-98	0			
2,4-Dimethylphenol	10.58	0.36	1.0	20	0	52.9	32-90	0			
2,4-Dinitrophenol	24.15	0.4	5.0	20	0	121	23-110	0			S
2,4-Dinitrotoluene	13.24	0.42	1.0	20	0	66.2	52-106	0			
2,6-Dinitrotoluene	12.59	0.33	1.0	20	0	63	53-101	0			
2-Chloronaphthalene	10.51	0.075	0.10	20	0	52.6	42-97	0			
2-Chlorophenol	9.47	0.23	1.0	20	0	47.4	40-95	0			
2-Methylnaphthalene	9.96	0.065	0.10	20	0	49.8	37-99	0			
2-Methylphenol	8.09	0.25	1.0	20	0	40.4	32-87	0			
2-Nitroaniline	12.5	0.21	1.0	20	0	62.5	46-106	0			
2-Nitrophenol	9.99	0.34	1.0	20	0	50	39-102	0			
3&4-Methylphenol	7.25	0.21	1.0	20	0	36.2	31-81	0			
3,3´-Dichlorobenzidine	8.26	1.6	5.0	20	0	41.3	35-125	0			
3-Nitroaniline	10.66	0.64	1.0	20	0	53.3	42-102	0			
4,6-Dinitro-2-methylphenol	19.64	0.27	1.0	20	0	98.2	40-118	0			
4-Bromophenyl phenyl ether	14.46	0.33	1.0	20	0	72.3	50-107	0			
4-Chloro-3-methylphenol	11.43	0.26	1.0	20	0	57.2	40-101	0			
4-Chloroaniline	7.87	0.34	1.0	20	0	39.4	27-124	0			
4-Chlorophenyl phenyl ether	12.36	0.31	1.0	20	0	61.8	50-99	0			
4-Nitroaniline	13.04	0.57	1.0	20	0	65.2	41-108	0			
4-Nitrophenol	7.28	0.24	5.0	20	0	36.4	10-79	0			
Acenaphthene	10.9	0.081	0.10	20	0	54.5	45-97	0			
Acenaphthylene	10.44	0.075	0.10	20	0	52.2	45-103	0			
Acetophenone	10.06	0.37	1.0	20	0	50.3	43-108	0			
Anthracene	14.85	0.028	0.10	20	0	74.2	55-107	0			
Atrazine	14.38	0.35	1.0	20	0	71.9	50-130	0			
Benzaldehyde	9.85	0.52	1.0	20	0	49.2	30-120	0			
Benzo(a)anthracene	15.46	0.022	0.10	20	0	77.3	56-109	0			
Benzo(a)pyrene	14.81	0.044	0.10	20	0	74	55-112	0			
Benzo(b)fluoranthene	15.26	0.051	0.10	20	0	76.3	54-114	0			
Benzo(g,h,i)perylene	16.19	0.03	0.10	20	0	81	55-114	0			
Benzo(k)fluoranthene	15.7	0.048	0.10	20	0	78.5	57-112	0			
Bis(2-chloroethoxy)methane	10.76	0.29	1.0	20	0	53.8	46-98	0			
Bis(2-chloroethyl)ether	8.16	0.37	1.0	20	0	40.8	42-102	0			S
Bis(2-ethylhexyl)phthalate	15.28	0.4	1.0	20	0.89	72	50-121	0			
Butyl benzyl phthalate	15.45	0.3	1.0	20	0	77.2	49-114	0			
Carbazole	14.77	0.1	1.0	20	0	73.8	52-113	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	14.98	0.048	0.10	20	0	74.9	59-108	0
Dibenzo(a,h)anthracene	16.14	0.03	0.10	20	0	80.7	55-113	0
Dibenzofuran	11	0.23	1.0	20	0	55	47-100	0
Diethyl phthalate	13.02	0.17	1.0	20	0	65.1	55-106	0
Dimethyl phthalate	13.66	0.18	1.0	20	0	68.3	54-102	0
Di-n-butyl phthalate	15.19	0.21	1.0	20	0	76	54-114	0
Di-n-octyl phthalate	14.53	0.15	1.0	20	0	72.6	41-131	0
Fluoranthene	13.9	0.038	0.10	20	0	69.5	55-113	0
Fluorene	11.39	0.051	0.10	20	0	57	52-100	0
Hexachlorobenzene	14.52	0.44	1.0	20	0	72.6	52-104	0
Hexachlorobutadiene	8.78	0.28	1.0	20	0	43.9	21-98	0
Hexachlorocyclopentadiene	10.45	1.1	5.0	20	0	52.2	20-98	0
Hexachloroethane	7.64	0.21	1.0	20	0	38.2	19-99	0
Indeno(1,2,3-cd)pyrene	16.06	0.067	0.10	20	0	80.3	52-117	0
Isophorone	10.52	0.34	5.0	20	0	52.6	44-103	0
Naphthalene	9.13	0.067	0.10	20	0	45.6	34-95	0
Nitrobenzene	9.98	0.26	1.0	20	0	49.9	41-101	0
N-Nitrosodi-n-propylamine	10.44	0.35	1.0	20	0	52.2	44-108	0
N-Nitrosodiphenylamine	15.66	0.23	1.0	20	0	78.3	52-108	0
Pentachlorophenol	16.97	0.97	5.0	20	0	84.8	30-104	0
Phenanthrene	14.49	0.03	0.10	20	0	72.4	54-102	0
Phenol	3.33	0.21	1.0	20	0	16.6	15-42	0
Pyrene	16.69	0.036	0.10	20	0	83.4	54-115	0
Surr: 2,4,6-Tribromophenol	*37.47*	0	0	*50*	0	*74.9*	*32-92*	0
Surr: 2-Fluorobiphenyl	*24.7*	0	0	*50*	0	*49.4*	*34-98*	0
Surr: 2-Fluorophenol	*12.32*	0	0	*50*	0	*24.6*	*23-55*	0
Surr: 4-Terphenyl-d14	*38.86*	0	0	*50*	0	*77.7*	*50-111*	0
Surr: Nitrobenzene-d5	*24.12*	0	0	*50*	0	*48.2*	*32-89*	0
Surr: Phenol-d6	*7.79*	0	0	*50*	0	*15.6*	*10-35*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MS Sample ID: **1812641-02B MS** Units: **µg/L** Analysis Date: **12/17/2018 07:17 P**

Client ID: Run ID: **SVMS8_181217A** SeqNo: **5454533** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	9.55	0.42	1.0	20	0	47.8	40-85	0			
1,2,4,5-Tetrachlorobenzene	9.1	0.34	5.0	20	0	45.5	34-82	0			
2,2`-Oxybis(1-chloropropane)	8.69	0.23	1.0	20	0	43.4	33-83	0			
2,3,4,6-Tetrachlorophenol	13.35	0.45	1.0	20	0	66.8	43-104	0			
2,4,5-Trichlorophenol	11.4	0.17	1.0	20	0	57	47-84	0			
2,4,6-Trichlorophenol	10.82	0.25	1.0	20	0	54.1	45-83	0			
2,4-Dichlorophenol	9.85	0.35	1.0	20	0	49.2	39-84	0			
2,4-Dimethylphenol	9.44	0.36	1.0	20	0	47.2	34-79	0			
2,4-Dinitrophenol	18.52	0.4	5.0	20	0	92.6	11-117	0			
2,4-Dinitrotoluene	13.49	0.42	1.0	20	0	67.4	54-93	0			
2,6-Dinitrotoluene	12.9	0.33	1.0	20	0	64.5	51-90	0			
2-Chloronaphthalene	10.97	0.075	0.10	20	0	54.8	37-84	0			
2-Chlorophenol	8.9	0.23	1.0	20	0	44.5	38-83	0			
2-Methylnaphthalene	9.51	0.065	0.10	20	0	47.6	33-85	0			
2-Methylphenol	6.93	0.25	1.0	20	0	34.6	29-76	0			
2-Nitroaniline	12.85	0.21	1.0	20	0	64.2	45-94	0			
2-Nitrophenol	10.24	0.34	1.0	20	0	51.2	41-84	0			
3&4-Methylphenol	6.02	0.21	1.0	20	0	30.1	24-70	0			
3,3´-Dichlorobenzidine	9.99	1.6	5.0	20	0	50	39-96	0			
3-Nitroaniline	11.21	0.64	1.0	20	0	56	50-93	0			
4,6-Dinitro-2-methylphenol	20.45	0.27	1.0	20	0	102	23-116	0			
4-Bromophenyl phenyl ether	14.26	0.33	1.0	20	0	71.3	51-93	0			
4-Chloro-3-methylphenol	10.53	0.26	1.0	20	0	52.6	41-86	0			
4-Chloroaniline	7.05	0.34	1.0	20	0	35.2	44-92	0			S
4-Chlorophenyl phenyl ether	12.6	0.31	1.0	20	0	63	49-89	0			
4-Nitroaniline	12.39	0.57	1.0	20	0	62	47-98	0			
4-Nitrophenol	3.91	0.24	5.0	20	0	19.6	10-43	0			J
Acenaphthene	11.48	0.081	0.10	20	0	57.4	42-85	0			
Acenaphthylene	11.68	0.075	0.10	20	0	58.4	42-88	0			
Acetophenone	9.09	0.37	1.0	20	0	45.4	39-91	0			
Anthracene	14.9	0.028	0.10	20	0	74.5	55-93	0			
Atrazine	14.47	0.35	1.0	20	0	72.4	52-100	0			
Benzaldehyde	13.43	0.52	1.0	20	0	67.2	42-110	0			
Benzo(a)anthracene	16.58	0.022	0.10	20	0	82.9	56-91	0			
Benzo(a)pyrene	16.18	0.044	0.10	20	0	80.9	55-96	0			
Benzo(b)fluoranthene	15.68	0.051	0.10	20	0	78.4	55-99	0			
Benzo(g,h,i)perylene	17.72	0.03	0.10	20	0	88.6	44-102	0			
Benzo(k)fluoranthene	14.96	0.048	0.10	20	0	74.8	57-96	0			
Bis(2-chloroethoxy)methane	9.88	0.29	1.0	20	0	49.4	39-88	0			
Bis(2-chloroethyl)ether	8.65	0.37	1.0	20	0	43.2	36-91	0			
Bis(2-ethylhexyl)phthalate	16.57	0.4	1.0	20	0	82.8	39-113	0			
Butyl benzyl phthalate	13.83	0.3	1.0	20	0	69.2	49-97	0			
Carbazole	15.69	0.1	1.0	20	0	78.4	59-92	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	15.44	0.048	0.10	20	0	77.2	55-92	0
Dibenzo(a,h)anthracene	17.6	0.03	0.10	20	0	88	47-100	0
Dibenzofuran	11.76	0.23	1.0	20	0	58.8	44-89	0
Diethyl phthalate	14.34	0.17	1.0	20	0	71.7	54-95	0
Dimethyl phthalate	13.3	0.18	1.0	20	0	66.5	51-92	0
Di-n-butyl phthalate	15.44	0.21	1.0	20	0	77.2	57-98	0
Di-n-octyl phthalate	17.54	0.15	1.0	20	0	87.7	36-117	0
Fluoranthene	16.46	0.038	0.10	20	0	82.3	59-93	0
Fluorene	12.5	0.051	0.10	20	0	62.5	47-91	0
Hexachlorobenzene	14.29	0.44	1.0	20	0	71.4	53-89	0
Hexachlorobutadiene	8.99	0.28	1.0	20	0	45	11-83	0
Hexachlorocyclopentadiene	9.05	1.1	5.0	20	0	45.2	14-75	0
Hexachloroethane	7.98	0.21	1.0	20	0	39.9	10-85	0
Indeno(1,2,3-cd)pyrene	18.42	0.067	0.10	20	0	92.1	46-102	0
Isophorone	9.71	0.34	5.0	20	0	48.6	42-90	0
Naphthalene	9.13	0.067	0.10	20	0	45.6	26-78	0
Nitrobenzene	9.93	0.26	1.0	20	0	49.6	38-86	0
N-Nitrosodi-n-propylamine	9.03	0.35	1.0	20	0	45.2	39-95	0
N-Nitrosodiphenylamine	14.92	0.23	1.0	20	0	74.6	47-94	0
Pentachlorophenol	18.24	0.97	5.0	20	0	91.2	37-94	0
Phenanthrene	14	0.03	0.10	20	0	70	51-90	0
Phenol	2.72	0.21	1.0	20	0	13.6	10-40	0
Pyrene	12.37	0.036	0.10	20	0	61.8	48-98	0
Surr: 2,4,6-Tribromophenol	*35.46*	0	0	*50*	0	*70.9*	*27-83*	0
Surr: 2-Fluorobiphenyl	*26.3*	0	0	*50*	0	*52.6*	*26-79*	0
Surr: 2-Fluorophenol	*12.63*	0	0	*50*	0	*25.3*	*13-56*	0
Surr: 4-Terphenyl-d14	*31.6*	0	0	*50*	0	*63.2*	*43-106*	0
Surr: Nitrobenzene-d5	*25.32*	0	0	*50*	0	*50.6*	*29-80*	0
Surr: Phenol-d6	*6.91*	0	0	*50*	0	*13.8*	*10-35*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MSD Sample ID: **1812641-02B MSD** Units: **µg/L** Analysis Date: **12/14/2018 08:32 P**

Client ID: Run ID: **SVMS5_181214A** SeqNo: **5440544** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	9.25	0.42	5.0	20	0	46.2	40-85	10.63	13.9	30	
1,2,4,5-Tetrachlorobenzene	8.78	0.34	10	20	0	43.9	34-82	9.9	0	30	J
2,2`-Oxybis(1-chloropropane)	7.39	0.23	5.0	20	0	37	33-83	8.71	16.4	30	
2,3,4,6-Tetrachlorophenol	11.86	0.45	5.0	20	0	59.3	43-104	13.23	10.9	30	
2,4,5-Trichlorophenol	11.53	0.17	5.0	20	0	57.6	47-84	11.4	1.13	30	
2,4,6-Trichlorophenol	10.68	0.25	5.0	20	0	53.4	45-83	11.8	9.96	30	
2,4-Dichlorophenol	10.12	0.35	5.0	20	0	50.6	39-84	10.83	6.78	30	
2,4-Dimethylphenol	10.2	0.36	5.0	20	0	51	34-79	10.58	3.66	30	
2,4-Dinitrophenol	23.75	0.4	5.0	20	0	119	11-117	24.15	1.67	30	S
2,4-Dinitrotoluene	11.99	0.42	5.0	20	0	60	54-93	13.24	9.91	30	
2,6-Dinitrotoluene	11.59	0.11	5.0	20	0	58	51-90	12.59	8.27	30	
2-Chloronaphthalene	9.5	0.075	5.0	20	0	47.5	37-84	10.51	10.1	30	
2-Chlorophenol	9.43	0.23	5.0	20	0	47.2	38-83	9.47	0.423	30	
2-Methylnaphthalene	8.65	0.065	5.0	20	0	43.2	33-85	9.96	14.1	30	
2-Methylphenol	8.1	0.25	5.0	20	0	40.5	29-76	8.09	0.124	30	
2-Nitroaniline	12.12	0.21	5.0	20	0	60.6	45-94	12.5	3.09	30	
2-Nitrophenol	9.42	0.34	5.0	20	0	47.1	41-84	9.99	5.87	30	
3&4-Methylphenol	7.1	0.21	5.0	20	0	35.5	24-70	7.25	2.09	30	
3,3´-Dichlorobenzidine	5.69	1.6	5.0	20	0	28.4	39-96	8.26	36.8	30	SR
3-Nitroaniline	10.37	0.64	5.0	20	0	51.8	50-93	10.66	2.76	30	
4,6-Dinitro-2-methylphenol	17.67	0.27	5.0	20	0	88.4	23-116	19.64	10.6	30	
4-Bromophenyl phenyl ether	13.4	0.33	5.0	20	0	67	51-93	14.46	7.61	30	
4-Chloro-3-methylphenol	10.99	0.26	5.0	20	0	55	41-86	11.43	3.93	30	
4-Chloroaniline	7.8	0.34	5.0	20	0	39	44-92	7.87	0.893	30	S
4-Chlorophenyl phenyl ether	11.58	0.31	5.0	20	0	57.9	49-89	12.36	6.52	30	
4-Nitroaniline	12.95	0.57	5.0	20	0	64.8	47-98	13.04	0.693	30	
4-Nitrophenol	8.94	0.24	5.0	20	0	44.7	10-43	7.28	20.5	30	S
Acenaphthene	9.91	0.081	5.0	20	0	49.6	42-85	10.9	9.51	30	
Acenaphthylene	9.57	0.075	5.0	20	0	47.8	42-88	10.44	8.7	30	
Acetophenone	8.88	0.37	1.0	20	0	44.4	39-91	10.06	12.5	30	
Anthracene	13.42	0.028	5.0	20	0	67.1	55-93	14.85	10.1	30	
Atrazine	11.91	0.35	1.0	20	0	59.6	52-100	14.38	18.8	30	
Benzaldehyde	9.08	0.52	1.0	20	0	45.4	42-110	9.85	8.14	30	
Benzo(a)anthracene	13.98	0.022	5.0	20	0	69.9	56-91	15.46	10.1	30	
Benzo(a)pyrene	13.46	0.044	5.0	20	0	67.3	55-96	14.81	9.55	30	
Benzo(b)fluoranthene	13.72	0.051	5.0	20	0	68.6	55-99	15.26	10.6	30	
Benzo(g,h,i)perylene	14.59	0.03	5.0	20	0	73	44-102	16.19	10.4	30	
Benzo(k)fluoranthene	14.21	0.048	5.0	20	0	71	57-96	15.7	9.96	30	
Bis(2-chloroethoxy)methane	9.61	0.29	5.0	20	0	48	39-88	10.76	11.3	30	
Bis(2-chloroethyl)ether	7.29	0.37	5.0	20	0	36.4	36-91	8.16	11.3	30	
Bis(2-ethylhexyl)phthalate	13.53	0.4	5.0	20	0.89	63.2	39-113	15.28	12.1	30	
Butyl benzyl phthalate	13.4	0.3	5.0	20	0	67	49-97	15.45	14.2	30	
Carbazole	13.02	0.1	5.0	20	0	65.1	59-92	14.77	12.6	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	13.64	0.048	5.0	20	0	68.2	55-92	14.98	9.36	30	
Dibenzo(a,h)anthracene	14.5	0.03	5.0	20	0	72.5	47-100	16.14	10.7	30	
Dibenzofuran	10.18	0.23	5.0	20	0	50.9	44-89	11	7.74	30	
Diethyl phthalate	12.06	0.17	5.0	20	0	60.3	54-95	13.02	7.66	30	
Dimethyl phthalate	12.98	0.18	5.0	20	0	64.9	51-92	13.66	5.11	30	
Di-n-butyl phthalate	13.39	0.21	5.0	20	0	67	57-98	15.19	12.6	30	
Di-n-octyl phthalate	13.01	0.15	5.0	20	0	65	36-117	14.53	11	30	
Fluoranthene	12.6	0.038	5.0	20	0	63	59-93	13.9	9.81	30	
Fluorene	10.66	0.051	5.0	20	0	53.3	47-91	11.39	6.62	30	
Hexachlorobenzene	13.18	0.44	5.0	20	0	65.9	53-89	14.52	9.68	30	
Hexachlorobutadiene	6.9	0.28	5.0	20	0	34.5	11-83	8.78	24	30	
Hexachlorocyclopentadiene	9.14	1.1	5.0	20	0	45.7	14-75	10.45	13.4	30	
Hexachloroethane	5.85	0.21	5.0	20	0	29.2	10-85	7.64	26.5	30	
Indeno(1,2,3-cd)pyrene	14.62	0.067	5.0	20	0	73.1	46-102	16.06	9.39	30	
Isophorone	9.24	0.34	5.0	20	0	46.2	42-90	10.52	13	30	
Naphthalene	7.58	0.067	5.0	20	0	37.9	26-78	9.13	18.6	30	
Nitrobenzene	8.73	0.26	5.0	20	0	43.6	38-86	9.98	13.4	30	
N-Nitrosodi-n-propylamine	9.08	0.35	5.0	20	0	45.4	39-95	10.44	13.9	30	
N-Nitrosodiphenylamine	14.31	0.23	5.0	20	0	71.6	47-94	15.66	9.01	30	
Pentachlorophenol	15.7	0.97	5.0	20	0	78.5	37-94	16.97	7.77	30	
Phenanthrene	13.19	0.03	5.0	20	0	66	51-90	14.49	9.39	30	
Phenol	3.33	0.21	5.0	20	0	16.6	10-40	3.33	0	30	J
Pyrene	13.76	0.036	5.0	20	0	68.8	48-98	16.69	19.2	30	
Surr: 2,4,6-Tribromophenol	*33.48*	0	0	*50*	0	*67*	*27-83*	37.47	*11.2*	*40*	
Surr: 2-Fluorobiphenyl	*23.18*	0	0	*50*	0	*46.4*	*26-79*	24.7	*6.35*	*40*	
Surr: 2-Fluorophenol	*13.06*	0	0	*50*	0	*26.1*	*13-56*	12.32	*5.83*	*40*	
Surr: 4-Terphenyl-d14	*33.42*	0	0	*50*	0	*66.8*	*43-106*	38.86	*15.1*	*40*	
Surr: Nitrobenzene-d5	*22.29*	0	0	*50*	0	*44.6*	*29-80*	24.12	*7.89*	*40*	
Surr: Phenol-d6	*7.99*	0	0	*50*	0	*16*	*10-35*	7.79	*2.53*	*40*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MSD Sample ID: **1812641-02B MSD** Units: **µg/L** Analysis Date: **12/14/2018 08:32 P**

Client ID: Run ID: **SVMS5_181214A** SeqNo: **5440588** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	9.25	0.42	1.0	20	0	46.2	39-101	10.63	13.9	30	
1,2,4,5-Tetrachlorobenzene	8.78	0.34	5.0	20	0	43.9	37-96	9.9	12	30	
2,2`-Oxybis(1-chloropropane)	7.39	0.23	1.0	20	0	37	40-95	8.71	16.4	30	S
2,3,4,6-Tetrachlorophenol	11.86	0.45	1.0	20	0	59.3	44-110	13.23	10.9	30	
2,4,5-Trichlorophenol	11.53	0.17	1.0	20	0	57.6	45-104	11.4	1.13	30	
2,4,6-Trichlorophenol	10.68	0.25	1.0	20	0	53.4	41-102	11.8	9.96	30	
2,4-Dichlorophenol	10.12	0.35	1.0	20	0	50.6	39-98	10.83	6.78	30	
2,4-Dimethylphenol	10.2	0.36	1.0	20	0	51	32-90	10.58	3.66	30	
2,4-Dinitrophenol	23.75	0.4	5.0	20	0	119	23-110	24.15	1.67	30	S
2,4-Dinitrotoluene	11.99	0.42	1.0	20	0	60	52-106	13.24	9.91	30	
2,6-Dinitrotoluene	11.59	0.33	1.0	20	0	58	53-101	12.59	8.27	30	
2-Chloronaphthalene	9.5	0.075	0.10	20	0	47.5	42-97	10.51	10.1	30	
2-Chlorophenol	9.43	0.23	1.0	20	0	47.2	40-95	9.47	0.423	30	
2-Methylnaphthalene	8.65	0.065	0.10	20	0	43.2	37-99	9.96	14.1	30	
2-Methylphenol	8.1	0.25	1.0	20	0	40.5	32-87	8.09	0.124	30	
2-Nitroaniline	12.12	0.21	1.0	20	0	60.6	46-106	12.5	3.09	30	
2-Nitrophenol	9.42	0.34	1.0	20	0	47.1	39-102	9.99	5.87	30	
3&4-Methylphenol	7.1	0.21	1.0	20	0	35.5	31-81	7.25	2.09	30	
3,3´-Dichlorobenzidine	5.69	1.6	5.0	20	0	28.4	35-125	8.26	36.8	30	SR
3-Nitroaniline	10.37	0.64	1.0	20	0	51.8	42-102	10.66	2.76	30	
4,6-Dinitro-2-methylphenol	17.67	0.27	1.0	20	0	88.4	40-118	19.64	10.6	30	
4-Bromophenyl phenyl ether	13.4	0.33	1.0	20	0	67	50-107	14.46	7.61	30	
4-Chloro-3-methylphenol	10.99	0.26	1.0	20	0	55	40-101	11.43	3.93	30	
4-Chloroaniline	7.8	0.34	1.0	20	0	39	27-124	7.87	0.893	30	
4-Chlorophenyl phenyl ether	11.58	0.31	1.0	20	0	57.9	50-99	12.36	6.52	30	
4-Nitroaniline	12.95	0.57	1.0	20	0	64.8	41-108	13.04	0.693	30	
4-Nitrophenol	8.94	0.24	5.0	20	0	44.7	10-79	7.28	20.5	30	
Acenaphthene	9.91	0.081	0.10	20	0	49.6	45-97	10.9	9.51	30	
Acenaphthylene	9.57	0.075	0.10	20	0	47.8	45-103	10.44	8.7	30	
Acetophenone	8.88	0.37	1.0	20	0	44.4	43-108	10.06	12.5	30	
Anthracene	13.42	0.028	0.10	20	0	67.1	55-107	14.85	10.1	30	
Atrazine	11.91	0.35	1.0	20	0	59.6	50-130	14.38	18.8	30	
Benzaldehyde	9.08	0.52	1.0	20	0	45.4	30-120	9.85	8.14	30	
Benzo(a)anthracene	13.98	0.022	0.10	20	0	69.9	56-109	15.46	10.1	30	
Benzo(a)pyrene	13.46	0.044	0.10	20	0	67.3	55-112	14.81	9.55	30	
Benzo(b)fluoranthene	13.72	0.051	0.10	20	0	68.6	54-114	15.26	10.6	30	
Benzo(g,h,i)perylene	14.59	0.03	0.10	20	0	73	55-114	16.19	10.4	30	
Benzo(k)fluoranthene	14.21	0.048	0.10	20	0	71	57-112	15.7	9.96	30	
Bis(2-chloroethoxy)methane	9.61	0.29	1.0	20	0	48	46-98	10.76	11.3	30	
Bis(2-chloroethyl)ether	7.29	0.37	1.0	20	0	36.4	42-102	8.16	11.3	30	S
Bis(2-ethylhexyl)phthalate	13.53	0.4	1.0	20	0.89	63.2	50-121	15.28	12.1	30	
Butyl benzyl phthalate	13.4	0.3	1.0	20	0	67	49-114	15.45	14.2	30	
Carbazole	13.02	0.1	1.0	20	0	65.1	52-113	14.77	12.6	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	13.64	0.048	0.10	20	0	68.2	59-108	14.98	9.36	30
Dibenzo(a,h)anthracene	14.5	0.03	0.10	20	0	72.5	55-113	16.14	10.7	30
Dibenzofuran	10.18	0.23	1.0	20	0	50.9	47-100	11	7.74	30
Diethyl phthalate	12.06	0.17	1.0	20	0	60.3	55-106	13.02	7.66	30
Dimethyl phthalate	12.98	0.18	1.0	20	0	64.9	54-102	13.66	5.11	30
Di-n-butyl phthalate	13.39	0.21	1.0	20	0	67	54-114	15.19	12.6	30
Di-n-octyl phthalate	13.01	0.15	1.0	20	0	65	41-131	14.53	11	30
Fluoranthene	12.6	0.038	0.10	20	0	63	55-113	13.9	9.81	30
Fluorene	10.66	0.051	0.10	20	0	53.3	52-100	11.39	6.62	30
Hexachlorobenzene	13.18	0.44	1.0	20	0	65.9	52-104	14.52	9.68	30
Hexachlorobutadiene	6.9	0.28	1.0	20	0	34.5	21-98	8.78	24	30
Hexachlorocyclopentadiene	9.14	1.1	5.0	20	0	45.7	20-98	10.45	13.4	30
Hexachloroethane	5.85	0.21	1.0	20	0	29.2	19-99	7.64	26.5	30
Indeno(1,2,3-cd)pyrene	14.62	0.067	0.10	20	0	73.1	52-117	16.06	9.39	30
Isophorone	9.24	0.34	5.0	20	0	46.2	44-103	10.52	13	30
Naphthalene	7.58	0.067	0.10	20	0	37.9	34-95	9.13	18.6	30
Nitrobenzene	8.73	0.26	1.0	20	0	43.6	41-101	9.98	13.4	30
N-Nitrosodi-n-propylamine	9.08	0.35	1.0	20	0	45.4	44-108	10.44	13.9	30
N-Nitrosodiphenylamine	14.31	0.23	1.0	20	0	71.6	52-108	15.66	9.01	30
Pentachlorophenol	15.7	0.97	5.0	20	0	78.5	30-104	16.97	7.77	30
Phenanthrene	13.19	0.03	0.10	20	0	66	54-102	14.49	9.39	30
Phenol	3.33	0.21	1.0	20	0	16.6	15-42	3.33	0	30
Pyrene	13.76	0.036	0.10	20	0	68.8	54-115	16.69	19.2	30
Surr: 2,4,6-Tribromophenol	*33.48*	0	0	*50*	0	*67*	*32-92*	37.47	*11.2*	*40*
Surr: 2-Fluorobiphenyl	*23.18*	0	0	*50*	0	*46.4*	*34-98*	24.7	*6.35*	*40*
Surr: 2-Fluorophenol	*13.06*	0	0	*50*	0	*26.1*	*23-55*	12.32	*5.83*	*40*
Surr: 4-Terphenyl-d14	*33.42*	0	0	*50*	0	*66.8*	*50-111*	38.86	*15.1*	*40*
Surr: Nitrobenzene-d5	*22.29*	0	0	*50*	0	*44.6*	*32-89*	24.12	*7.89*	*40*
Surr: Phenol-d6	*7.99*	0	0	*50*	0	*16*	*10-35*	7.79	*2.53*	*40*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

MSD Sample ID: **1812641-02B MSD** Units: **µg/L** Analysis Date: **12/17/2018 07:37 P**

Client ID: Run ID: **SVMS8_181217A** SeqNo: **5454534** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	8.83	0.42	1.0	20	0	44.2	40-85	9.55	7.83	30	
1,2,4,5-Tetrachlorobenzene	8.11	0.34	5.0	20	0	40.6	34-82	9.1	11.5	30	
2,2`-Oxybis(1-chloropropane)	7.6	0.23	1.0	20	0	38	33-83	8.69	13.4	30	
2,3,4,6-Tetrachlorophenol	13.86	0.45	1.0	20	0	69.3	43-104	13.35	3.75	30	
2,4,5-Trichlorophenol	11.3	0.17	1.0	20	0	56.5	47-84	11.4	0.881	30	
2,4,6-Trichlorophenol	10.51	0.25	1.0	20	0	52.6	45-83	10.82	2.91	30	
2,4-Dichlorophenol	9.71	0.35	1.0	20	0	48.6	39-84	9.85	1.43	30	
2,4-Dimethylphenol	9.32	0.36	1.0	20	0	46.6	34-79	9.44	1.28	30	
2,4-Dinitrophenol	18.89	0.4	5.0	20	0	94.4	11-117	18.52	1.98	30	
2,4-Dinitrotoluene	13.31	0.42	1.0	20	0	66.6	54-93	13.49	1.34	30	
2,6-Dinitrotoluene	12.46	0.33	1.0	20	0	62.3	51-90	12.9	3.47	30	
2-Chloronaphthalene	9.78	0.075	0.10	20	0	48.9	37-84	10.97	11.5	30	
2-Chlorophenol	9.32	0.23	1.0	20	0	46.6	38-83	8.9	4.61	30	
2-Methylnaphthalene	8.45	0.065	0.10	20	0	42.2	33-85	9.51	11.8	30	
2-Methylphenol	7.49	0.25	1.0	20	0	37.4	29-76	6.93	7.77	30	
2-Nitroaniline	13.14	0.21	1.0	20	0	65.7	45-94	12.85	2.23	30	
2-Nitrophenol	9.82	0.34	1.0	20	0	49.1	41-84	10.24	4.19	30	
3&4-Methylphenol	6.36	0.21	1.0	20	0	31.8	24-70	6.02	5.49	30	
3,3´-Dichlorobenzidine	7.15	1.6	5.0	20	0	35.8	39-96	9.99	33.1	30	SR
3-Nitroaniline	11.93	0.64	1.0	20	0	59.6	50-93	11.21	6.22	30	
4,6-Dinitro-2-methylphenol	19.61	0.27	1.0	20	0	98	23-116	20.45	4.19	30	
4-Bromophenyl phenyl ether	13.67	0.33	1.0	20	0	68.4	51-93	14.26	4.22	30	
4-Chloro-3-methylphenol	11.06	0.26	1.0	20	0	55.3	41-86	10.53	4.91	30	
4-Chloroaniline	7.36	0.34	1.0	20	0	36.8	44-92	7.05	4.3	30	S
4-Chlorophenyl phenyl ether	12.17	0.31	1.0	20	0	60.8	49-89	12.6	3.47	30	
4-Nitroaniline	14.35	0.57	1.0	20	0	71.8	47-98	12.39	14.7	30	
4-Nitrophenol	4.02	0.24	5.0	20	0	20.1	10-43	3.91	0	30	J
Acenaphthene	10.8	0.081	0.10	20	0	54	42-85	11.48	6.1	30	
Acenaphthylene	10.81	0.075	0.10	20	0	54	42-88	11.68	7.74	30	
Acetophenone	8.44	0.37	1.0	20	0	42.2	39-91	9.09	7.42	30	
Anthracene	14.17	0.028	0.10	20	0	70.8	55-93	14.9	5.02	30	
Atrazine	13.59	0.35	1.0	20	0	68	52-100	14.47	6.27	30	
Benzaldehyde	12.63	0.52	1.0	20	0	63.2	42-110	13.43	6.14	30	
Benzo(a)anthracene	14.96	0.022	0.10	20	0	74.8	56-91	16.58	10.3	30	
Benzo(a)pyrene	14.92	0.044	0.10	20	0	74.6	55-96	16.18	8.1	30	
Benzo(b)fluoranthene	14.54	0.051	0.10	20	0	72.7	55-99	15.68	7.54	30	
Benzo(g,h,i)perylene	15.89	0.03	0.10	20	0	79.4	44-102	17.72	10.9	30	
Benzo(k)fluoranthene	13.93	0.048	0.10	20	0	69.6	57-96	14.96	7.13	30	
Bis(2-chloroethoxy)methane	9.06	0.29	1.0	20	0	45.3	39-88	9.88	8.66	30	
Bis(2-chloroethyl)ether	8.17	0.37	1.0	20	0	40.8	36-91	8.65	5.71	30	
Bis(2-ethylhexyl)phthalate	15.28	0.4	1.0	20	0	76.4	39-113	16.57	8.1	30	
Butyl benzyl phthalate	13.26	0.3	1.0	20	0	66.3	49-97	13.83	4.21	30	
Carbazole	14.65	0.1	1.0	20	0	73.2	59-92	15.69	6.86	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129409** Instrument ID **SVMS5** Method: **SW846 8270D**

Chrysene	14.28	0.048	0.10	20	0	71.4	55-92	15.44	7.81	30
Dibenzo(a,h)anthracene	15.98	0.03	0.10	20	0	79.9	47-100	17.6	9.65	30
Dibenzofuran	11.4	0.23	1.0	20	0	57	44-89	11.76	3.11	30
Diethyl phthalate	14.29	0.17	1.0	20	0	71.4	54-95	14.34	0.349	30
Dimethyl phthalate	13.04	0.18	1.0	20	0	65.2	51-92	13.3	1.97	30
Di-n-butyl phthalate	14.7	0.21	1.0	20	0	73.5	57-98	15.44	4.91	30
Di-n-octyl phthalate	16.88	0.15	1.0	20	0	84.4	36-117	17.54	3.83	30
Fluoranthene	15.45	0.038	0.10	20	0	77.2	59-93	16.46	6.33	30
Fluorene	12.3	0.051	0.10	20	0	61.5	47-91	12.5	1.61	30
Hexachlorobenzene	13.32	0.44	1.0	20	0	66.6	53-89	14.29	7.03	30
Hexachlorobutadiene	7.67	0.28	1.0	20	0	38.4	11-83	8.99	15.8	30
Hexachlorocyclopentadiene	7.42	1.1	5.0	20	0	37.1	14-75	9.05	19.8	30
Hexachloroethane	6.26	0.21	1.0	20	0	31.3	10-85	7.98	24.2	30
Indeno(1,2,3-cd)pyrene	16.72	0.067	0.10	20	0	83.6	46-102	18.42	9.68	30
Isophorone	9.07	0.34	5.0	20	0	45.4	42-90	9.71	6.82	30
Naphthalene	7.87	0.067	0.10	20	0	39.4	26-78	9.13	14.8	30
Nitrobenzene	8.93	0.26	1.0	20	0	44.6	38-86	9.93	10.6	30
N-Nitrosodi-n-propylamine	8.33	0.35	1.0	20	0	41.6	39-95	9.03	8.06	30
N-Nitrosodiphenylamine	13.67	0.23	1.0	20	0	68.4	47-94	14.92	8.74	30
Pentachlorophenol	15.43	0.97	5.0	20	0	77.2	37-94	18.24	16.7	30
Phenanthrene	13.2	0.03	0.10	20	0	66	51-90	14	5.88	30
Phenol	3	0.21	1.0	20	0	15	10-40	2.72	9.79	30
Pyrene	11.97	0.036	0.10	20	0	59.8	48-98	12.37	3.29	30
Surr: 2,4,6-Tribromophenol	*33.05*	0	0	*50*	0	*66.1*	*27-83*	35.46	*7.04*	*40*
Surr: 2-Fluorobiphenyl	*24.31*	0	0	*50*	0	*48.6*	*26-79*	26.3	*7.86*	*40*
Surr: 2-Fluorophenol	*13.39*	0	0	*50*	0	*26.8*	*13-56*	12.63	*5.84*	*40*
Surr: 4-Terphenyl-d14	*30.65*	0	0	*50*	0	*61.3*	*43-106*	31.6	*3.05*	*40*
Surr: Nitrobenzene-d5	*24.07*	0	0	*50*	0	*48.1*	*29-80*	25.32	*5.06*	*40*
Surr: Phenol-d6	*7.33*	0	0	*50*	0	*14.7*	*10-35*	6.91	*5.9*	*40*

The following samples were analyzed in this batch: 1812740-21C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129412** Instrument ID **SVMS8** Method: **SW8270**

MBLK Sample ID: **DBLKW1-129412-129412** Units: **mg/L** Analysis Date: **12/21/2018 06:21 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454767** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	0.013	0.10								
ORO (C21-C35)	U	0.027	0.10								
Surr: 4-Terphenyl-d14	*0.03646*	0	0	*0.05*	0	*72.9*	*23-112*	0			

LCS Sample ID: **DLCSW1-129412-129412** Units: **mg/L** Analysis Date: **12/21/2018 06:49 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454768** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	6.277	0.013	0.10	10	0	62.8	44-116	0			
ORO (C21-C35)	7.321	0.027	0.10	10	0	73.2	44-116	0			
Surr: 4-Terphenyl-d14	*0.06484*	0	0	*0.1*	0	*64.8*	*23-112*	0			

LCSD Sample ID: **DLCSDW1-129412-129412** Units: **mg/L** Analysis Date: **12/21/2018 07:17 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454769** Prep Date: **12/14/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	3.154	0.013	0.10	5	0	63.1	44-116	6.277	66.2	30	R
ORO (C21-C35)	3.122	0.027	0.10	5	0	62.4	44-116	7.321	80.4	30	R
Surr: 4-Terphenyl-d14	*0.02716*	0	0	*0.05*	0	*54.3*	*23-112*	0.06484	*81.9*		

The following samples were analyzed in this batch: 1812740-21C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129721** Instrument ID **SVMS8** Method: **SW8270**

MBLK Sample ID: **DBLKS1-129721-129721** Units: **mg/Kg** Analysis Date: **12/21/2018 10:02 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454795** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	1.5	5.0								
ORO (C21-C35)	U	1.7	5.0								
Surr: 4-Terphenyl-d14	*2.237*	0	0	*3.333*	0	*67.1*	*25-137*	0			

LCS Sample ID: **DLCSS1-129721-129721** Units: **mg/Kg** Analysis Date: **12/21/2018 10:30 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454796** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	331.3	1.5	5.0	333	0	99.5	31-135	0			
ORO (C21-C35)	271.7	1.7	5.0	333	0	81.6	31-135	0			
Surr: 4-Terphenyl-d14	*3.645*	0	0	*3.333*	0	*109*	*25-137*	0			

MS Sample ID: **18121048-05B MS** Units: **mg/Kg** Analysis Date: **12/21/2018 11:53 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454797** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	205.3	1.5	5.0	332.5	0	61.7	31-135	0			
ORO (C21-C35)	194.7	1.7	5.0	332.5	0	58.5	31-135	0			
Surr: 4-Terphenyl-d14	*1.743*	0	0	*3.328*	0	*52.4*	*25-137*	0			

MSD Sample ID: **18121048-05B MSD** Units: **mg/Kg** Analysis Date: **12/22/2018 12:20 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454819** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	225.2	1.5	4.8	323	0	69.7	31-135	205.3	9.28	30	
ORO (C21-C35)	216.7	1.6	4.8	323	0	67.1	31-135	194.7	10.7	30	
Surr: 4-Terphenyl-d14	*2.045*	0	0	*3.233*	0	*63.2*	*25-137*	1.743	*16*	*30*	

The following samples were analyzed in this batch:

1812740-13B	1812740-14B	1812740-15B
1812740-16B	1812740-17B	1812740-18B
1812740-19B	1812740-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-129753-129753** Units: **µg/Kg** Analysis Date: **12/24/2018 12:42 P**

Client ID: Run ID: **SVMS8_181224A** SeqNo: **5456743** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	5.4	33								
1,2,4,5-Tetrachlorobenzene	U	26	330								
1,4-Dioxane	U	24	170								
2,2`-Oxybis(1-chloropropane)	U	7.8	33								
2,3,4,6-Tetrachlorophenol	U	8.7	67								
2,4,5-Trichlorophenol	U	9.1	33								
2,4,6-Trichlorophenol	U	8.9	33								
2,4-Dichlorophenol	U	7	33								
2,4-Dimethylphenol	U	6.8	33								
2,4-Dinitrophenol	U	18	33								
2,4-Dinitrotoluene	U	8.7	33								
2,6-Dinitrotoluene	U	5.5	33								
2-Chloronaphthalene	U	4.7	6.7								
2-Chlorophenol	U	10	33								
2-Methylnaphthalene	U	3.4	6.7								
2-Methylphenol	U	9	33								
2-Nitroaniline	U	7.6	33								
2-Nitrophenol	U	9.5	33								
3&4-Methylphenol	U	6.7	33								
3,3´-Dichlorobenzidine	U	5	170								
3-Nitroaniline	U	7.6	33								
4,6-Dinitro-2-methylphenol	U	8.4	33								
4-Bromophenyl phenyl ether	U	9	33								
4-Chloro-3-methylphenol	U	9.5	33								
4-Chloroaniline	U	5.3	67								
4-Chlorophenyl phenyl ether	U	9.2	33								
4-Nitroaniline	U	52	170								
4-Nitrophenol	U	30	33								
Acenaphthene	U	4.8	6.7								
Acenaphthylene	U	5.8	6.7								
Acetophenone	U	5.2	33								
Anthracene	U	4.7	6.7								
Atrazine	U	5.2	33								
Benzaldehyde	U	51	67								
Benzo(a)anthracene	U	5.8	6.7								
Benzo(a)pyrene	U	4.1	6.7								
Benzo(b)fluoranthene	U	5	6.7								
Benzo(g,h,i)perylene	U	5.1	6.7								
Benzo(k)fluoranthene	U	5	6.7								
Bis(2-chloroethoxy)methane	U	3.2	33								
Bis(2-chloroethyl)ether	U	9.4	33								
Bis(2-ethylhexyl)phthalate	U	5.8	33								
Butyl benzyl phthalate	U	5.6	33								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

Caprolactam	U	11	33					
Carbazole	U	3.6	33					
Chrysene	U	5.4	6.7					
Dibenzo(a,h)anthracene	U	3.6	6.7					
Dibenzofuran	U	4.9	33					
Diethyl phthalate	U	5.1	33					
Dimethyl phthalate	U	6.5	33					
Di-n-butyl phthalate	U	6.1	33					
Di-n-octyl phthalate	U	6.4	33					
Fluoranthene	U	3.2	6.7					
Fluorene	U	4.8	6.7					
Hexachlorobenzene	U	9.7	33					
Hexachlorobutadiene	U	18	33					
Hexachlorocyclopentadiene	U	11	33					
Hexachloroethane	U	14	33					
Indeno(1,2,3-cd)pyrene	U	4.6	6.7					
Isophorone	U	6.5	170					
Naphthalene	U	4.3	6.7					
Nitrobenzene	U	11	170					
N-Nitrosodi-n-propylamine	U	5.5	33					
N-Nitrosodiphenylamine	U	3.2	33					
Pentachlorophenol	U	12	33					
Phenanthrene	U	3.1	6.7					
Phenol	U	8.3	33					
Pyrene	U	1.2	6.7					
Surr: 2,4,6-Tribromophenol	*1577*	0	0	*3333*	0	*47.3*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2315*	0	0	*3333*	0	*69.4*	*44-107*	0
Surr: 2-Fluorophenol	*2017*	0	0	*3333*	0	*60.5*	*37-109*	0
Surr: 4-Terphenyl-d14	*1900*	0	0	*3333*	0	*57*	*52-123*	0
Surr: Nitrobenzene-d5	*1927*	0	0	*3333*	0	*57.8*	*41-94*	0
Surr: Phenol-d6	*1684*	0	0	*3333*	0	*50.5*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-129753-129753** Units: **µg/Kg** Analysis Date: **12/24/2018 12:42 P**

Client ID: Run ID: **SVMS8_181224A** SeqNo: **5456823** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	U	26	330								
2,3,4,6-Tetrachlorophenol	U	8.7	67								
2,4,5-Trichlorophenol	U	9.1	33								
2,4,6-Trichlorophenol	U	8.9	33								
2,4-Dichlorophenol	U	7	33								
2,4-Dimethylphenol	U	6.8	33								
2,4-Dinitrophenol	U	18	33								
2,4-Dinitrotoluene	U	8.7	33								
2,6-Dinitrotoluene	U	5.5	33								
2-Chloronaphthalene	U	4.7	6.7								
2-Chlorophenol	U	10	33								
2-Methylnaphthalene	U	3.4	6.7								
2-Methylphenol	U	9	33								
2-Nitroaniline	U	7.6	33								
2-Nitrophenol	U	9.5	33								
3&4-Methylphenol	U	6.7	33								
3,3´-Dichlorobenzidine	U	5	170								
3-Nitroaniline	U	7.6	33								
4,6-Dinitro-2-methylphenol	U	8.4	33								
4-Bromophenyl phenyl ether	U	9	33								
4-Chloro-3-methylphenol	U	9.5	33								
4-Chloroaniline	U	5.3	67								
4-Chlorophenyl phenyl ether	U	9.2	33								
4-Nitroaniline	U	52	170								
4-Nitrophenol	U	30	33								
Acenaphthene	U	4.8	6.7								
Acenaphthylene	U	5.8	6.7								
Acetophenone	U	5.2	33								
Anthracene	U	4.7	6.7								
Benzo(a)anthracene	U	5.8	6.7								
Benzo(a)pyrene	U	4.1	6.7								
Benzo(b)fluoranthene	U	5	6.7								
Benzo(g,h,i)perylene	U	5.1	6.7								
Benzo(k)fluoranthene	U	5	6.7								
Bis(2-chloroethoxy)methane	U	3.2	33								
Bis(2-chloroethyl)ether	U	9.4	33								
Bis(2-ethylhexyl)phthalate	U	5.8	33								
Butyl benzyl phthalate	U	5.6	33								
Chrysene	U	5.4	6.7								
Dibenzo(a,h)anthracene	U	3.6	6.7								
Dibenzofuran	U	4.9	33								
Diethyl phthalate	U	5.1	33								
Dimethyl phthalate	U	6.5	33								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

Di-n-butyl phthalate	U	6.1	33					
Di-n-octyl phthalate	U	6.4	33					
Fluoranthene	U	3.2	6.7					
Fluorene	U	4.8	6.7					
Hexachlorobenzene	U	9.7	33					
Hexachlorobutadiene	U	18	33					
Hexachlorocyclopentadiene	U	11	33					
Hexachloroethane	U	14	33					
Indeno(1,2,3-cd)pyrene	U	4.6	6.7					
Isophorone	U	6.5	170					
Naphthalene	U	4.3	6.7					
Nitrobenzene	U	11	170					
N-Nitrosodi-n-propylamine	U	5.5	33					
N-Nitrosodiphenylamine	U	3.2	33					
Pentachlorophenol	U	12	33					
Phenanthrene	U	3.1	6.7					
Phenol	U	8.3	33					
Pyrene	U	1.2	6.7					
Surr: 2,4,6-Tribromophenol	*1577*	0	0	*3333*	0	*47.3*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2315*	0	0	*3333*	0	*69.4*	*44-107*	0
Surr: 2-Fluorophenol	*2017*	0	0	*3333*	0	*60.5*	*37-109*	0
Surr: 4-Terphenyl-d14	*1900*	0	0	*3333*	0	*57*	*52-123*	0
Surr: Nitrobenzene-d5	*1927*	0	0	*3333*	0	*57.8*	*41-94*	0
Surr: Phenol-d6	*1684*	0	0	*3333*	0	*50.5*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

LCS Sample ID: **SLCSS1-129753-129753** Units: **µg/Kg** Analysis Date: **12/24/2018 01:22 P**

Client ID: Run ID: **SVMS8_181224A** SeqNo: **5456745** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	1039	5.4	33	1333	0	78	53-97	0			
1,2,4,5-Tetrachlorobenzene	1101	26	330	1333	0	82.6	51-96	0			
2,2`-Oxybis(1-chloropropane)	750	7.8	33	1333	0	56.3	47-107	0			
2,3,4,6-Tetrachlorophenol	1331	8.7	67	1333	0	99.9	51-110	0			
2,4,5-Trichlorophenol	1247	9.1	33	1333	0	93.5	52-111	0			
2,4,6-Trichlorophenol	1027	8.9	33	1333	0	77.1	46-105	0			
2,4-Dichlorophenol	1003	7	33	1333	0	75.3	47-96	0			
2,4-Dimethylphenol	950.7	6.8	33	1333	0	71.3	49-97	0			
2,4-Dinitrophenol	891.3	18	33	1333	0	66.9	10-106	0			
2,4-Dinitrotoluene	1103	8.7	33	1333	0	82.8	58-110	0			
2,6-Dinitrotoluene	1121	5.5	33	1333	0	84.1	59-108	0			
2-Chloronaphthalene	1195	4.7	6.7	1333	0	89.7	56-104	0			
2-Chlorophenol	1008	10	33	1333	0	75.6	50-104	0			
2-Methylnaphthalene	1047	3.4	6.7	1333	0	78.5	54-96	0			
2-Methylphenol	892	9	33	1333	0	66.9	49-105	0			
2-Nitroaniline	972	7.6	33	1333	0	72.9	54-107	0			
2-Nitrophenol	1034	9.5	33	1333	0	77.6	51-94	0			
3&4-Methylphenol	858	6.7	33	1333	0	64.4	48-105	0			
3,3´-Dichlorobenzidine	1048	5	170	1333	0	78.6	39-99	0			
3-Nitroaniline	713.3	7.6	33	1333	0	53.5	17-92	0			
4,6-Dinitro-2-methylphenol	913.3	8.4	33	1333	0	68.5	32-103	0			
4-Bromophenyl phenyl ether	1207	9	33	1333	0	90.5	60-106	0			
4-Chloro-3-methylphenol	942	9.5	33	1333	0	70.7	51-101	0			
4-Chloroaniline	1009	5.3	67	1333	0	75.7	27-110	0			
4-Chlorophenyl phenyl ether	1263	9.2	33	1333	0	94.7	58-106	0			
4-Nitroaniline	570.7	52	170	1333	0	42.8	21-100	0			
4-Nitrophenol	610.7	30	33	1333	0	45.8	29-120	0			
Acenaphthene	1137	4.8	6.7	1333	0	85.3	55-101	0			
Acenaphthylene	1186	5.8	6.7	1333	0	89	59-106	0			
Acetophenone	926.7	5.2	33	1333	0	69.5	51-100	0			
Anthracene	1109	4.7	6.7	1333	0	83.2	67-105	0			
Atrazine	1309	5.2	33	1333	0	98.2	45-125	0			
Benzaldehyde	454.7	51	67	1333	0	34.1	10-120	0			
Benzo(a)anthracene	1094	5.8	6.7	1333	0	82.1	68-105	0			
Benzo(a)pyrene	1057	4.1	6.7	1333	0	79.3	68-110	0			
Benzo(b)fluoranthene	932	5	6.7	1333	0	69.9	65-110	0			
Benzo(g,h,i)perylene	1195	5.1	6.7	1333	0	89.6	60-120	0			
Benzo(k)fluoranthene	1313	5	6.7	1333	0	98.5	66-113	0			
Bis(2-chloroethoxy)methane	997.3	3.2	33	1333	0	74.8	53-96	0			
Bis(2-chloroethyl)ether	1092	9.4	33	1333	0	81.9	47-108	0			
Bis(2-ethylhexyl)phthalate	1062	5.8	33	1333	0	79.7	59-117	0			
Butyl benzyl phthalate	882.7	5.6	33	1333	0	66.2	59-106	0			
Caprolactam	634.7	11	33	1333	0	47.6	42-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

Carbazole	1081	3.6	33	1333	0	81.1	67-108	0
Chrysene	1085	5.4	6.7	1333	0	81.4	68-108	0
Dibenzo(a,h)anthracene	1103	3.6	6.7	1333	0	82.7	62-119	0
Dibenzofuran	1175	4.9	33	1333	0	88.2	60-104	0
Diethyl phthalate	1195	5.1	33	1333	0	89.6	62-111	0
Dimethyl phthalate	1173	6.5	33	1333	0	88	62-106	0
Di-n-butyl phthalate	1037	6.1	33	1333	0	77.8	59-105	0
Di-n-octyl phthalate	1055	6.4	33	1333	0	79.2	51-123	0
Fluoranthene	1199	3.2	6.7	1333	0	90	67-106	0
Fluorene	1204	4.8	6.7	1333	0	90.3	59-107	0
Hexachlorobenzene	1174	9.7	33	1333	0	88.1	62-103	0
Hexachlorobutadiene	1174	18	33	1333	0	88.1	51-94	0
Hexachlorocyclopentadiene	1249	11	33	1333	0	93.7	25-120	0
Hexachloroethane	994	14	33	1333	0	74.6	55-93	0
Indeno(1,2,3-cd)pyrene	1023	4.6	6.7	1333	0	76.8	56-120	0
Isophorone	934	6.5	170	1333	0	70.1	52-99	0
Naphthalene	1023	4.3	6.7	1333	0	76.7	46-98	0
Nitrobenzene	947.3	11	170	1333	0	71.1	53-95	0
N-Nitrosodi-n-propylamine	844.7	5.5	33	1333	0	63.4	50-104	0
N-Nitrosodiphenylamine	1091	3.2	33	1333	0	81.9	63-107	0
Pentachlorophenol	961.3	12	33	1333	0	72.1	34-106	0
Phenanthrene	1033	3.1	6.7	1333	0	77.5	66-101	0
Phenol	888	8.3	33	1333	0	66.6	44-109	0
Pyrene	946.7	1.2	6.7	1333	0	71	60-119	0
Surr: 2,4,6-Tribromophenol	*2607*	0	0	*3333*	0	*78.2*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2772*	0	0	*3333*	0	*83.2*	*44-107*	0
Surr: 2-Fluorophenol	*2417*	0	0	*3333*	0	*72.5*	*37-109*	0
Surr: 4-Terphenyl-d14	*2331*	0	0	*3333*	0	*69.9*	*52-123*	0
Surr: Nitrobenzene-d5	*2322*	0	0	*3333*	0	*69.7*	*41-94*	0
Surr: Phenol-d6	*2237*	0	0	*3333*	0	*67.1*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

MS Sample ID: **1812740-09B MS** Units: **µg/Kg** Analysis Date: **12/24/2018 03:54 P**

Client ID: **B-5 (13-15)** Run ID: **SVMS8_181224A** SeqNo: **5456750** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	1014	5.4	33	1326	0	76.4	53-97	0			
1,2,4,5-Tetrachlorobenzene	1085	26	330	1326	0	81.8	51-96	0			
2,2`-Oxybis(1-chloropropane)	729.7	7.8	33	1326	0	55	47-107	0			
2,3,4,6-Tetrachlorophenol	1200	8.6	67	1326	0	90.5	51-110	0			
2,4,5-Trichlorophenol	1188	9.1	33	1326	0	89.6	52-111	0			
2,4,6-Trichlorophenol	1046	8.8	33	1326	0	78.9	46-105	0			
2,4-Dichlorophenol	995	7	33	1326	0	75	47-96	0			
2,4-Dimethylphenol	883.6	6.8	33	1326	0	66.6	49-97	0			
2,4-Dinitrophenol	650.7	18	33	1326	0	49.1	10-106	0			
2,4-Dinitrotoluene	1116	8.6	33	1326	0	84.2	58-110	0			
2,6-Dinitrotoluene	1136	5.5	33	1326	0	85.6	59-108	0			
2-Chloronaphthalene	1152	4.6	6.6	1326	0	86.8	56-104	0			
2-Chlorophenol	996.4	10	33	1326	0	75.1	50-104	0			
2-Methylnaphthalene	1024	3.4	6.6	1326	0	77.2	54-96	0			
2-Methylphenol	895.5	9	33	1326	0	67.5	49-105	0			
2-Nitroaniline	981.8	7.6	33	1326	0	74	54-107	0			
2-Nitrophenol	1041	9.5	33	1326	0	78.5	51-94	0			
3&4-Methylphenol	844.4	6.7	33	1326	0	63.7	48-105	0			
3,3´-Dichlorobenzidine	660.7	4.9	170	1326	0	49.8	39-99	0			
3-Nitroaniline	524	7.6	33	1326	0	39.5	17-92	0			
4,6-Dinitro-2-methylphenol	814.6	8.3	33	1326	0	61.4	32-103	0			
4-Bromophenyl phenyl ether	1154	8.9	33	1326	0	87	60-106	0			
4-Chloro-3-methylphenol	926.7	9.5	33	1326	0	69.9	51-101	0			
4-Chloroaniline	897.5	5.2	67	1326	0	67.7	27-110	0			
4-Chlorophenyl phenyl ether	1234	9.2	33	1326	0	93.1	58-106	0			
4-Nitroaniline	574.5	51	170	1326	0	43.3	21-100	0			
4-Nitrophenol	683.9	30	33	1326	0	51.6	29-120	0			
Acenaphthene	1108	4.8	6.6	1326	0	83.5	55-101	0			
Acenaphthylene	1154	5.8	6.6	1326	0	87	59-106	0			
Acetophenone	904.1	5.2	33	1326	0	68.2	51-100	0			
Anthracene	1120	4.7	6.6	1326	0	84.4	67-105	0			
Atrazine	1332	5.2	33	1326	0	100	45-125	0			
Benzaldehyde	748.3	51	67	1326	0	56.4	10-120	0			
Benzo(a)anthracene	1105	5.7	6.6	1326	0	83.3	68-105	0			
Benzo(a)pyrene	1083	4.1	6.6	1326	0	81.6	68-110	0			
Benzo(b)fluoranthene	967.8	4.9	6.6	1326	0	73	65-110	0			
Benzo(g,h,i)perylene	1059	5.1	6.6	1326	0	79.8	60-120	0			
Benzo(k)fluoranthene	1305	5	6.6	1326	0	98.4	66-113	0			
Bis(2-chloroethoxy)methane	958.5	3.2	33	1326	0	72.3	53-96	0			
Bis(2-chloroethyl)ether	1154	9.4	33	1326	0	87	47-108	0			
Bis(2-ethylhexyl)phthalate	1063	5.8	33	1326	0	80.1	59-117	0			
Butyl benzyl phthalate	897.5	5.6	33	1326	0	67.7	59-106	0			
Caprolactam	593.7	11	33	1326	0	44.8	42-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

Carbazole	971.1	3.6	33	1326	0	73.2	67-108	0
Chrysene	1080	5.4	6.6	1326	0	81.4	68-108	0
Dibenzo(a,h)anthracene	971.1	3.6	6.6	1326	0	73.2	62-119	0
Dibenzofuran	1158	4.9	33	1326	0	87.3	60-104	0
Diethyl phthalate	1173	5.1	33	1326	0	88.5	62-111	0
Dimethyl phthalate	1152	6.5	33	1326	0	86.8	62-106	0
Di-n-butyl phthalate	1055	6.1	33	1326	0	79.5	59-105	0
Di-n-octyl phthalate	1112	6.4	33	1326	0	83.9	51-123	0
Fluoranthene	1237	3.2	6.6	1326	0	93.3	67-106	0
Fluorene	1189	4.8	6.6	1326	0	89.7	59-107	0
Hexachlorobenzene	1137	9.7	33	1326	0	85.7	62-103	0
Hexachlorobutadiene	1166	18	33	1326	0	87.9	51-94	0
Hexachlorocyclopentadiene	1106	11	33	1326	0	83.4	25-120	0
Hexachloroethane	973.8	14	33	1326	0	73.4	55-93	0
Indeno(1,2,3-cd)pyrene	996.4	4.6	6.6	1326	0	75.1	56-120	0
Isophorone	919.4	6.5	170	1326	0	69.3	52-99	0
Naphthalene	989.7	4.2	6.6	1326	0	74.6	46-98	0
Nitrobenzene	940	11	170	1326	0	70.9	53-95	0
N-Nitrosodi-n-propylamine	824.5	5.5	33	1326	0	62.2	50-104	0
N-Nitrosodiphenylamine	1063	3.2	33	1326	0	80.1	63-107	0
Pentachlorophenol	796.7	12	33	1326	0	60.1	34-106	0
Phenanthrene	1008	3.1	6.6	1326	0	76	66-101	0
Phenol	859.7	8.2	33	1326	0	64.8	44-109	0
Pyrene	912.1	1.2	6.6	1326	0	68.8	60-119	0
Surr: 2,4,6-Tribromophenol	*2511*	0	0	*3316*	0	*75.7*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2651*	0	0	*3316*	0	*79.9*	*44-107*	0
Surr: 2-Fluorophenol	*2386*	0	0	*3316*	0	*71.9*	*37-109*	0
Surr: 4-Terphenyl-d14	*2198*	0	0	*3316*	0	*66.3*	*52-123*	0
Surr: Nitrobenzene-d5	*2312*	0	0	*3316*	0	*69.7*	*41-94*	0
Surr: Phenol-d6	*2202*	0	0	*3316*	0	*66.4*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

MS Sample ID: **1812740-09B MS** Units: **µg/Kg** Analysis Date: **12/24/2018 03:54 P**

Client ID: **B-5 (13-15)** Run ID: **SVMS8_181224A** SeqNo: **5456794** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	1085	26	330	1326	0	81.8	51-96	0			
2,3,4,6-Tetrachlorophenol	1200	8.6	67	1326	0	90.5	51-110	0			
2,4,5-Trichlorophenol	1188	9.1	33	1326	0	89.6	52-111	0			
2,4,6-Trichlorophenol	1046	8.8	33	1326	0	78.9	46-105	0			
2,4-Dichlorophenol	995	7	33	1326	0	75	47-96	0			
2,4-Dimethylphenol	883.6	6.8	33	1326	0	66.6	49-97	0			
2,4-Dinitrophenol	650.7	18	33	1326	0	49.1	10-106	0			
2,4-Dinitrotoluene	1116	8.6	33	1326	0	84.2	58-110	0			
2,6-Dinitrotoluene	1136	5.5	33	1326	0	85.6	59-108	0			
2-Chloronaphthalene	1152	4.6	6.6	1326	0	86.8	56-104	0			
2-Chlorophenol	996.4	10	33	1326	0	75.1	50-104	0			
2-Methylnaphthalene	1024	3.4	6.6	1326	0	77.2	54-96	0			
2-Methylphenol	895.5	9	33	1326	0	67.5	49-105	0			
2-Nitroaniline	981.8	7.6	33	1326	0	74	54-107	0			
2-Nitrophenol	1041	9.5	33	1326	0	78.5	51-94	0			
3&4-Methylphenol	844.4	6.7	33	1326	0	63.7	48-105	0			
3,3´-Dichlorobenzidine	660.7	4.9	170	1326	0	49.8	39-99	0			
3-Nitroaniline	524	7.6	33	1326	0	39.5	17-92	0			
4,6-Dinitro-2-methylphenol	814.6	8.3	33	1326	0	61.4	32-103	0			
4-Bromophenyl phenyl ether	1154	8.9	33	1326	0	87	60-106	0			
4-Chloro-3-methylphenol	926.7	9.5	33	1326	0	69.9	51-101	0			
4-Chloroaniline	897.5	5.2	67	1326	0	67.7	27-110	0			
4-Chlorophenyl phenyl ether	1234	9.2	33	1326	0	93.1	58-106	0			
4-Nitroaniline	574.5	51	170	1326	0	43.3	21-100	0			
4-Nitrophenol	683.9	30	33	1326	0	51.6	29-120	0			
Acenaphthene	1108	4.8	6.6	1326	0	83.5	55-101	0			
Acenaphthylene	1154	5.8	6.6	1326	0	87	59-106	0			
Acetophenone	904.1	5.2	33	1326	0	68.2	51-100	0			
Anthracene	1120	4.7	6.6	1326	0	84.4	67-105	0			
Benzo(a)anthracene	1105	5.7	6.6	1326	0	83.3	68-105	0			
Benzo(a)pyrene	1083	4.1	6.6	1326	0	81.6	68-110	0			
Benzo(b)fluoranthene	967.8	4.9	6.6	1326	0	73	65-110	0			
Benzo(g,h,i)perylene	1059	5.1	6.6	1326	0	79.8	60-120	0			
Benzo(k)fluoranthene	1305	5	6.6	1326	0	98.4	66-113	0			
Bis(2-chloroethoxy)methane	958.5	3.2	33	1326	0	72.3	53-96	0			
Bis(2-chloroethyl)ether	1154	9.4	33	1326	0	87	47-108	0			
Bis(2-ethylhexyl)phthalate	1063	5.8	33	1326	0	80.1	59-117	0			
Butyl benzyl phthalate	897.5	5.6	33	1326	0	67.7	59-106	0			
Chrysene	1080	5.4	6.6	1326	0	81.4	68-108	0			
Dibenzo(a,h)anthracene	971.1	3.6	6.6	1326	0	73.2	62-119	0			
Dibenzofuran	1158	4.9	33	1326	0	87.3	60-104	0			
Diethyl phthalate	1173	5.1	33	1326	0	88.5	62-111	0			
Dimethyl phthalate	1152	6.5	33	1326	0	86.8	62-106	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

Di-n-butyl phthalate	1055	6.1	33	1326	0	79.5	67-109	0
Di-n-octyl phthalate	1112	6.4	33	1326	0	83.9	51-123	0
Fluoranthene	1237	3.2	6.6	1326	0	93.3	67-106	0
Fluorene	1189	4.8	6.6	1326	0	89.7	59-107	0
Hexachlorobenzene	1137	9.7	33	1326	0	85.7	62-103	0
Hexachlorobutadiene	1166	18	33	1326	0	87.9	51-94	0
Hexachlorocyclopentadiene	1106	11	33	1326	0	83.4	25-120	0
Hexachloroethane	973.8	14	33	1326	0	73.4	55-93	0
Indeno(1,2,3-cd)pyrene	996.4	4.6	6.6	1326	0	75.1	56-120	0
Isophorone	919.4	6.5	170	1326	0	69.3	52-99	0
Naphthalene	989.7	4.2	6.6	1326	0	74.6	46-98	0
Nitrobenzene	940	11	170	1326	0	70.9	53-95	0
N-Nitrosodi-n-propylamine	824.5	5.5	33	1326	0	62.2	50-104	0
N-Nitrosodiphenylamine	1063	3.2	33	1326	0	80.1	63-107	0
Pentachlorophenol	796.7	12	33	1326	0	60.1	34-106	0
Phenanthrene	1008	3.1	6.6	1326	0	76	66-101	0
Phenol	859.7	8.2	33	1326	0	64.8	44-109	0
Pyrene	912.1	1.2	6.6	1326	0	68.8	60-119	0
Surr: 2,4,6-Tribromophenol	*2511*	0	0	*3316*	0	*75.7*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2651*	0	0	*3316*	0	*79.9*	*44-107*	0
Surr: 2-Fluorophenol	*2386*	0	0	*3316*	0	*71.9*	*37-109*	0
Surr: 4-Terphenyl-d14	*2198*	0	0	*3316*	0	*66.3*	*52-123*	0
Surr: Nitrobenzene-d5	*2312*	0	0	*3316*	0	*69.7*	*41-94*	0
Surr: Phenol-d6	*2202*	0	0	*3316*	0	*66.4*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

MSD Sample ID: **1812740-09B MSD** Units: **µg/Kg** Analysis Date: **12/24/2018 04:14 P**

Client ID: **B-5 (13-15)** Run ID: **SVMS8_181224A** SeqNo: **5456751** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	887.4	5.1	31	1265	0	70.2	53-97	1014	13.3	30	
1,2,4,5-Tetrachlorobenzene	929.1	25	320	1265	0	73.5	51-96	1085	15.4	30	
2,2`-Oxybis(1-chloropropane)	635	7.4	31	1265	0	50.2	47-107	729.7	13.9	30	
2,3,4,6-Tetrachlorophenol	1140	8.2	64	1265	0	90.2	51-110	1200	5.1	30	
2,4,5-Trichlorophenol	1012	8.6	31	1265	0	80	52-111	1188	16	30	
2,4,6-Trichlorophenol	851.9	8.4	31	1265	0	67.4	46-105	1046	20.5	30	
2,4-Dichlorophenol	788.1	6.7	31	1265	0	62.3	47-96	995	23.2	30	
2,4-Dimethylphenol	721.6	6.5	31	1265	0	57.1	49-97	883.6	20.2	30	
2,4-Dinitrophenol	504.1	17	31	1265	0	39.9	10-106	650.7	25.4	30	
2,4-Dinitrotoluene	944.9	8.2	31	1265	0	74.7	58-110	1116	16.6	30	
2,6-Dinitrotoluene	942.4	5.2	31	1265	0	74.5	59-108	1136	18.6	30	
2-Chloronaphthalene	968.3	4.4	6.3	1265	0	76.6	56-104	1152	17.3	30	
2-Chlorophenol	838.7	10	31	1265	0	66.3	50-104	996.4	17.2	30	
2-Methylnaphthalene	874.1	3.2	6.3	1265	0	69.1	54-96	1024	15.8	30	
2-Methylphenol	757.1	8.5	31	1265	0	59.9	49-105	895.5	16.8	30	
2-Nitroaniline	798.8	7.2	31	1265	0	63.2	54-107	981.8	20.5	30	
2-Nitrophenol	960.7	9	31	1265	0	76	51-94	1041	8	30	
3&4-Methylphenol	698.2	6.4	31	1265	0	55.2	48-105	844.4	19	30	
3,3´-Dichlorobenzidine	540.1	4.7	160	1265	0	42.7	39-99	660.7	20.1	30	
3-Nitroaniline	476.3	7.2	31	1265	0	37.7	17-92	524	9.56	30	
4,6-Dinitro-2-methylphenol	514.2	7.9	31	1265	0	40.7	32-103	814.6	45.2	30	R
4-Bromophenyl phenyl ether	946.2	8.5	31	1265	0	74.8	60-106	1154	19.8	30	
4-Chloro-3-methylphenol	753.3	9	31	1265	0	59.6	51-101	926.7	20.6	30	
4-Chloroaniline	683.7	5	64	1265	0	54.1	27-110	897.5	27	30	
4-Chlorophenyl phenyl ether	1075	8.7	31	1265	0	85	58-106	1234	13.9	30	
4-Nitroaniline	572.4	49	160	1265	0	45.3	21-100	574.5	0.362	30	
4-Nitrophenol	522.4	28	31	1265	0	41.3	29-120	683.9	26.8	30	
Acenaphthene	939.9	4.6	6.3	1265	0	74.3	55-101	1108	16.4	30	
Acenaphthylene	978.4	5.5	6.3	1265	0	77.4	59-106	1154	16.5	30	
Acetophenone	790.6	5	31	1265	0	62.5	51-100	904.1	13.4	30	
Anthracene	933.5	4.5	6.3	1265	0	73.8	67-105	1120	18.1	30	
Atrazine	1192	5	31	1265	0	94.3	45-125	1332	11.1	30	
Benzaldehyde	587.6	49	64	1265	0	46.5	10-120	748.3	24.1	30	
Benzo(a)anthracene	934.8	5.5	6.3	1265	0	73.9	68-105	1105	16.7	30	
Benzo(a)pyrene	917.1	3.9	6.3	1265	0	72.5	68-110	1083	16.6	30	
Benzo(b)fluoranthene	854.5	4.7	6.3	1265	0	67.6	65-110	967.8	12.4	30	
Benzo(g,h,i)perylene	871.5	4.8	6.3	1265	0	68.9	60-120	1059	19.4	30	
Benzo(k)fluoranthene	1142	4.8	6.3	1265	0	90.3	66-113	1305	13.3	30	
Bis(2-chloroethoxy)methane	800.7	3	31	1265	0	63.3	53-96	958.5	17.9	30	
Bis(2-chloroethyl)ether	1006	9	31	1265	0	79.5	47-108	1154	13.8	30	
Bis(2-ethylhexyl)phthalate	882.3	5.5	31	1265	0	69.8	59-117	1063	18.5	30	
Butyl benzyl phthalate	729.2	5.4	31	1265	0	57.7	59-106	897.5	20.7	30	S
Caprolactam	503.4	11	31	1265	0	39.8	42-105	593.7	16.5	30	S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

Carbazole	891.8	3.4	31	1265	0	70.5	67-108	971.1	8.52	30	
Chrysene	947.4	5.1	6.3	1265	0	74.9	68-108	1080	13.1	30	
Dibenzo(a,h)anthracene	755.2	3.4	6.3	1265	0	59.7	62-119	971.1	25	30	S
Dibenzofuran	984.8	4.6	31	1265	0	77.9	60-104	1158	16.2	30	
Diethyl phthalate	1023	4.8	31	1265	0	80.9	62-111	1173	13.7	30	
Dimethyl phthalate	985.4	6.2	31	1265	0	77.9	62-106	1152	15.6	30	
Di-n-butyl phthalate	908.9	5.8	31	1265	0	71.9	59-105	1055	14.9	30	
Di-n-octyl phthalate	934.2	6.1	31	1265	0	73.9	51-123	1112	17.4	30	
Fluoranthene	1121	3	6.3	1265	0	88.7	67-106	1237	9.82	30	
Fluorene	1020	4.6	6.3	1265	0	80.6	59-107	1189	15.4	30	
Hexachlorobenzene	940.5	9.2	31	1265	0	74.4	62-103	1137	18.9	30	
Hexachlorobutadiene	1010	17	31	1265	0	79.9	51-94	1166	14.3	30	
Hexachlorocyclopentadiene	807.7	11	31	1265	0	63.9	25-120	1106	31.2	30	R
Hexachloroethane	839.9	13	31	1265	0	66.4	55-93	973.8	14.8	30	
Indeno(1,2,3-cd)pyrene	796.3	4.4	6.3	1265	0	63	56-120	996.4	22.3	30	
Isophorone	777.9	6.2	160	1265	0	61.5	52-99	919.4	16.7	30	
Naphthalene	853.8	4	6.3	1265	0	67.5	46-98	989.7	14.7	30	
Nitrobenzene	795.6	11	160	1265	0	62.9	53-95	940	16.6	30	
N-Nitrosodi-n-propylamine	719.1	5.2	31	1265	0	56.9	50-104	824.5	13.7	30	
N-Nitrosodiphenylamine	857.6	3	31	1265	0	67.8	63-107	1063	21.4	30	
Pentachlorophenol	633.1	12	31	1265	0	50.1	34-106	796.7	22.9	30	
Phenanthrene	860.2	2.9	6.3	1265	0	68	66-101	1008	15.9	30	
Phenol	707.1	7.9	31	1265	0	55.9	44-109	859.7	19.5	30	
Pyrene	726.7	1.1	6.3	1265	0	57.5	60-119	912.1	22.6	30	S
Surr: 2,4,6-Tribromophenol	*2033*	0	0	*3162*	0	*64.3*	*38-92*	2511	*21.1*	*40*	
Surr: 2-Fluorobiphenyl	*2244*	0	0	*3162*	0	*71*	*44-107*	2651	*16.6*	*40*	
Surr: 2-Fluorophenol	*1930*	0	0	*3162*	0	*61*	*37-109*	2386	*21.1*	*40*	
Surr: 4-Terphenyl-d14	*1798*	0	0	*3162*	0	*56.9*	*52-123*	2198	*20*	*40*	
Surr: Nitrobenzene-d5	*1916*	0	0	*3162*	0	*60.6*	*41-94*	2312	*18.7*	*40*	
Surr: Phenol-d6	*1775*	0	0	*3162*	0	*56.1*	*28-111*	2202	*21.5*	*40*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

MSD Sample ID: **1812740-09B MSD** Units: **µg/Kg** Analysis Date: **12/24/2018 04:14 P**

Client ID: **B-5 (13-15)** Run ID: **SVMS8_181224A** SeqNo: **5456796** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	929.1	25	320	1265	0	73.5	51-96	1085	15.4	30	
2,3,4,6-Tetrachlorophenol	1140	8.2	64	1265	0	90.2	51-110	1200	5.1	30	
2,4,5-Trichlorophenol	1012	8.6	31	1265	0	80	52-111	1188	16	30	
2,4,6-Trichlorophenol	851.9	8.4	31	1265	0	67.4	46-105	1046	20.5	30	
2,4-Dichlorophenol	788.1	6.7	31	1265	0	62.3	47-96	995	23.2	30	
2,4-Dimethylphenol	721.6	6.5	31	1265	0	57.1	49-97	883.6	20.2	30	
2,4-Dinitrophenol	504.1	17	31	1265	0	39.9	10-106	650.7	25.4	30	
2,4-Dinitrotoluene	944.9	8.2	31	1265	0	74.7	58-110	1116	16.6	30	
2,6-Dinitrotoluene	942.4	5.2	31	1265	0	74.5	59-108	1136	18.6	30	
2-Chloronaphthalene	968.3	4.4	6.3	1265	0	76.6	56-104	1152	17.3	30	
2-Chlorophenol	838.7	10	31	1265	0	66.3	50-104	996.4	17.2	30	
2-Methylnaphthalene	874.1	3.2	6.3	1265	0	69.1	54-96	1024	15.8	30	
2-Methylphenol	757.1	8.5	31	1265	0	59.9	49-105	895.5	16.8	30	
2-Nitroaniline	798.8	7.2	31	1265	0	63.2	54-107	981.8	20.5	30	
2-Nitrophenol	960.7	9	31	1265	0	76	51-94	1041	8	30	
3&4-Methylphenol	698.2	6.4	31	1265	0	55.2	48-105	844.4	19	30	
3,3´-Dichlorobenzidine	540.1	4.7	160	1265	0	42.7	39-99	660.7	20.1	30	
3-Nitroaniline	476.3	7.2	31	1265	0	37.7	17-92	524	9.56	30	
4,6-Dinitro-2-methylphenol	514.2	7.9	31	1265	0	40.7	32-103	814.6	45.2	30	R
4-Bromophenyl phenyl ether	946.2	8.5	31	1265	0	74.8	60-106	1154	19.8	30	
4-Chloro-3-methylphenol	753.3	9	31	1265	0	59.6	51-101	926.7	20.6	30	
4-Chloroaniline	683.7	5	64	1265	0	54.1	27-110	897.5	27	30	
4-Chlorophenyl phenyl ether	1075	8.7	31	1265	0	85	58-106	1234	13.9	30	
4-Nitroaniline	572.4	49	160	1265	0	45.3	21-100	574.5	0.362	30	
4-Nitrophenol	522.4	28	31	1265	0	41.3	29-120	683.9	26.8	30	
Acenaphthene	939.9	4.6	6.3	1265	0	74.3	55-101	1108	16.4	30	
Acenaphthylene	978.4	5.5	6.3	1265	0	77.4	59-106	1154	16.5	30	
Acetophenone	790.6	5	31	1265	0	62.5	51-100	904.1	13.4	30	
Anthracene	933.5	4.5	6.3	1265	0	73.8	67-105	1120	18.1	30	
Benzo(a)anthracene	934.8	5.5	6.3	1265	0	73.9	68-105	1105	16.7	30	
Benzo(a)pyrene	917.1	3.9	6.3	1265	0	72.5	68-110	1083	16.6	30	
Benzo(b)fluoranthene	854.5	4.7	6.3	1265	0	67.6	65-110	967.8	12.4	30	
Benzo(g,h,i)perylene	871.5	4.8	6.3	1265	0	68.9	60-120	1059	19.4	30	
Benzo(k)fluoranthene	1142	4.8	6.3	1265	0	90.3	66-113	1305	13.3	30	
Bis(2-chloroethoxy)methane	800.7	3	31	1265	0	63.3	53-96	958.5	17.9	30	
Bis(2-chloroethyl)ether	1006	9	31	1265	0	79.5	47-108	1154	13.8	30	
Bis(2-ethylhexyl)phthalate	882.3	5.5	31	1265	0	69.8	59-117	1063	18.5	30	
Butyl benzyl phthalate	729.2	5.4	31	1265	0	57.7	59-106	897.5	20.7	30	S
Chrysene	947.4	5.1	6.3	1265	0	74.9	68-108	1080	13.1	30	
Dibenzo(a,h)anthracene	755.2	3.4	6.3	1265	0	59.7	62-119	971.1	25	30	S
Dibenzofuran	984.8	4.6	31	1265	0	77.9	60-104	1158	16.2	30	
Diethyl phthalate	1023	4.8	31	1265	0	80.9	62-111	1173	13.7	30	
Dimethyl phthalate	985.4	6.2	31	1265	0	77.9	62-106	1152	15.6	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129753** Instrument ID **SVMS8** Method: **SW846 8270D**

Di-n-butyl phthalate	908.9	5.8	31	1265	0	71.9	67-109	1055	14.9	30	
Di-n-octyl phthalate	934.2	6.1	31	1265	0	73.9	51-123	1112	17.4	30	
Fluoranthene	1121	3	6.3	1265	0	88.7	67-106	1237	9.82	30	
Fluorene	1020	4.6	6.3	1265	0	80.6	59-107	1189	15.4	30	
Hexachlorobenzene	940.5	9.2	31	1265	0	74.4	62-103	1137	18.9	30	
Hexachlorobutadiene	1010	17	31	1265	0	79.9	51-94	1166	14.3	30	
Hexachlorocyclopentadiene	807.7	11	31	1265	0	63.9	25-120	1106	31.2	30	R
Hexachloroethane	839.9	13	31	1265	0	66.4	55-93	973.8	14.8	30	
Indeno(1,2,3-cd)pyrene	796.3	4.4	6.3	1265	0	63	56-120	996.4	22.3	30	
Isophorone	777.9	6.2	160	1265	0	61.5	52-99	919.4	16.7	30	
Naphthalene	853.8	4	6.3	1265	0	67.5	46-98	989.7	14.7	30	
Nitrobenzene	795.6	11	160	1265	0	62.9	53-95	940	16.6	30	
N-Nitrosodi-n-propylamine	719.1	5.2	31	1265	0	56.9	50-104	824.5	13.7	30	
N-Nitrosodiphenylamine	857.6	3	31	1265	0	67.8	63-107	1063	21.4	30	
Pentachlorophenol	633.1	12	31	1265	0	50.1	34-106	796.7	22.9	30	
Phenanthrene	860.2	2.9	6.3	1265	0	68	66-101	1008	15.9	30	
Phenol	707.1	7.9	31	1265	0	55.9	44-109	859.7	19.5	30	
Pyrene	726.7	1.1	6.3	1265	0	57.5	60-119	912.1	22.6	30	S
Surr: 2,4,6-Tribromophenol	*2033*	0	0	*3162*	0	*64.3*	*38-92*	2511	*21.1*	*40*	
Surr: 2-Fluorobiphenyl	*2244*	0	0	*3162*	0	*71*	*44-107*	2651	*16.6*	*40*	
Surr: 2-Fluorophenol	*1930*	0	0	*3162*	0	*61*	*37-109*	2386	*21.1*	*40*	
Surr: 4-Terphenyl-d14	*1798*	0	0	*3162*	0	*56.9*	*52-123*	2198	*20*	*40*	
Surr: Nitrobenzene-d5	*1916*	0	0	*3162*	0	*60.6*	*41-94*	2312	*18.7*	*40*	
Surr: Phenol-d6	*1775*	0	0	*3162*	0	*56.1*	*28-111*	2202	*21.5*	*40*	

The following samples were analyzed in this batch:

1812740-01B	1812740-02B	1812740-03B
1812740-04B	1812740-05B	1812740-06B
1812740-07B	1812740-08B	1812740-09B
1812740-10B	1812740-11B	1812740-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129755** Instrument ID **SVMS8** Method: **SW8270**

MBLK Sample ID: **DBLKS1-129755-129755** Units: **mg/Kg** Analysis Date: **12/21/2018 07:45 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454792** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	1.5	5.0								
ORO (C21-C35)	U	1.7	5.0								
Surr: 4-Terphenyl-d14	*1.883*	0	0	*3.333*	0	*56.5*	*25-137*	0			

LCS Sample ID: **DLCSS1-129755-129755** Units: **mg/Kg** Analysis Date: **12/21/2018 08:12 P**

Client ID: Run ID: **SVMS8_181221A** SeqNo: **5454793** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	318.9	1.5	5.0	333	0	95.8	31-135	0			
ORO (C21-C35)	244.3	1.7	5.0	333	0	73.4	31-135	0			
Surr: 4-Terphenyl-d14	*2.801*	0	0	*3.333*	0	*84*	*25-137*	0			

MS Sample ID: **1812740-09B MS** Units: **mg/Kg** Analysis Date: **12/22/2018 12:48 P**

Client ID: **B-5 (13-15)** Run ID: **SVMS8_181221A** SeqNo: **5454820** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	223.5	1.5	5.0	330.9	0	67.6	31-135	0			
ORO (C21-C35)	189.1	1.7	5.0	330.9	0	57.1	31-135	0			
Surr: 4-Terphenyl-d14	*1.967*	0	0	*3.312*	0	*59.4*	*25-137*	0			

MSD Sample ID: **1812740-09B MSD** Units: **mg/Kg** Analysis Date: **12/22/2018 01:15 A**

Client ID: **B-5 (13-15)** Run ID: **SVMS8_181221A** SeqNo: **5454798** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	260.4	1.5	4.9	324.3	0	80.3	31-135	223.5	15.2	30	
ORO (C21-C35)	204.8	1.6	4.9	324.3	0	63.2	31-135	189.1	8	30	
Surr: 4-Terphenyl-d14	*2.309*	0	0	*3.246*	0	*71.1*	*25-137*	1.967	*16*	*30*	

The following samples were analyzed in this batch:

1812740-01B	1812740-02B	1812740-03B
1812740-04B	1812740-05B	1812740-06B
1812740-07B	1812740-08B	1812740-09B
1812740-10B	1812740-11B	1812740-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129777** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-129777-129777** Units: **µg/Kg** Analysis Date: **12/24/2018 01:02 P**

Client ID: Run ID: **SVMS8_181224A** SeqNo: **5456744** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	5.4	33								
1,2,4,5-Tetrachlorobenzene	U	26	330								
1,4-Dioxane	U	24	170								
2,2`-Oxybis(1-chloropropane)	U	7.8	33								
2,3,4,6-Tetrachlorophenol	U	8.7	67								
2,4,5-Trichlorophenol	U	9.1	33								
2,4,6-Trichlorophenol	U	8.9	33								
2,4-Dichlorophenol	U	7	33								
2,4-Dimethylphenol	U	6.8	33								
2,4-Dinitrophenol	U	18	33								
2,4-Dinitrotoluene	U	8.7	33								
2,6-Dinitrotoluene	U	5.5	33								
2-Chloronaphthalene	U	4.7	6.7								
2-Chlorophenol	U	10	33								
2-Methylnaphthalene	U	3.4	6.7								
2-Methylphenol	U	9	33								
2-Nitroaniline	U	7.6	33								
2-Nitrophenol	U	9.5	33								
3&4-Methylphenol	U	6.7	33								
3,3´-Dichlorobenzidine	U	5	170								
3-Nitroaniline	U	7.6	33								
4,6-Dinitro-2-methylphenol	U	8.4	33								
4-Bromophenyl phenyl ether	U	9	33								
4-Chloro-3-methylphenol	U	9.5	33								
4-Chloroaniline	U	5.3	67								
4-Chlorophenyl phenyl ether	U	9.2	33								
4-Nitroaniline	U	52	170								
4-Nitrophenol	U	30	33								
Acenaphthene	U	4.8	6.7								
Acenaphthylene	U	5.8	6.7								
Acetophenone	U	5.2	33								
Anthracene	U	4.7	6.7								
Atrazine	U	5.2	33								
Benzaldehyde	U	51	67								
Benzo(a)anthracene	U	5.8	6.7								
Benzo(a)pyrene	U	4.1	6.7								
Benzo(b)fluoranthene	U	5	6.7								
Benzo(g,h,i)perylene	U	5.1	6.7								
Benzo(k)fluoranthene	U	5	6.7								
Bis(2-chloroethoxy)methane	U	3.2	33								
Bis(2-chloroethyl)ether	U	9.4	33								
Bis(2-ethylhexyl)phthalate	U	5.8	33								
Butyl benzyl phthalate	U	5.6	33								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129777** Instrument ID **SVMS8** Method: **SW846 8270D**

Caprolactam	U	11	33					
Carbazole	U	3.6	33					
Chrysene	U	5.4	6.7					
Dibenzo(a,h)anthracene	U	3.6	6.7					
Dibenzofuran	U	4.9	33					
Diethyl phthalate	U	5.1	33					
Dimethyl phthalate	U	6.5	33					
Di-n-butyl phthalate	U	6.1	33					
Di-n-octyl phthalate	U	6.4	33					
Fluoranthene	U	3.2	6.7					
Fluorene	U	4.8	6.7					
Hexachlorobenzene	U	9.7	33					
Hexachlorobutadiene	U	18	33					
Hexachlorocyclopentadiene	U	11	33					
Hexachloroethane	U	14	33					
Indeno(1,2,3-cd)pyrene	U	4.6	6.7					
Isophorone	U	6.5	170					
Naphthalene	U	4.3	6.7					
Nitrobenzene	U	11	170					
N-Nitrosodi-n-propylamine	U	5.5	33					
N-Nitrosodiphenylamine	U	3.2	33					
Pentachlorophenol	U	12	33					
Phenanthrene	U	3.1	6.7					
Phenol	U	8.3	33					
Pyrene	U	1.2	6.7					
Surr: 2,4,6-Tribromophenol	*2043*	0	0	*3333*	0	*61.3*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2801*	0	0	*3333*	0	*84*	*44-107*	0
Surr: 2-Fluorophenol	*2441*	0	0	*3333*	0	*73.2*	*37-109*	0
Surr: 4-Terphenyl-d14	*2341*	0	0	*3333*	0	*70.2*	*52-123*	0
Surr: Nitrobenzene-d5	*2287*	0	0	*3333*	0	*68.6*	*41-94*	0
Surr: Phenol-d6	*1961*	0	0	*3333*	0	*58.8*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129777** Instrument ID **SVMS8** Method: **SW846 8270D**

LCS Sample ID: **SLCSS1-129777-129777** Units: **µg/Kg** Analysis Date: **12/24/2018 12:22 P**

Client ID: Run ID: **SVMS8_181224A** SeqNo: **5456742** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	1089	5.4	33	1333	0	81.7	53-97	0			
1,2,4,5-Tetrachlorobenzene	1149	26	330	1333	0	86.2	51-96	0			
2,2`-Oxybis(1-chloropropane)	782	7.8	33	1333	0	58.7	47-107	0			
2,3,4,6-Tetrachlorophenol	1575	8.7	67	1333	0	118	51-110	0			S
2,4,5-Trichlorophenol	1400	9.1	33	1333	0	105	52-111	0			
2,4,6-Trichlorophenol	1037	8.9	33	1333	0	77.8	46-105	0			
2,4-Dichlorophenol	1001	7	33	1333	0	75.1	47-96	0			
2,4-Dimethylphenol	955.3	6.8	33	1333	0	71.7	49-97	0			
2,4-Dinitrophenol	952.7	18	33	1333	0	71.5	10-106	0			
2,4-Dinitrotoluene	1169	8.7	33	1333	0	87.7	58-110	0			
2,6-Dinitrotoluene	1208	5.5	33	1333	0	90.6	59-108	0			
2-Chloronaphthalene	1230	4.7	6.7	1333	0	92.3	56-104	0			
2-Chlorophenol	1039	10	33	1333	0	78	50-104	0			
2-Methylnaphthalene	1078	3.4	6.7	1333	0	80.9	54-96	0			
2-Methylphenol	929.3	9	33	1333	0	69.7	49-105	0			
2-Nitroaniline	1007	7.6	33	1333	0	75.5	54-107	0			
2-Nitrophenol	1075	9.5	33	1333	0	80.6	51-94	0			
3&4-Methylphenol	871.3	6.7	33	1333	0	65.4	48-105	0			
3,3´-Dichlorobenzidine	1081	5	170	1333	0	81.1	39-99	0			
3-Nitroaniline	752	7.6	33	1333	0	56.4	17-92	0			
4,6-Dinitro-2-methylphenol	970	8.4	33	1333	0	72.8	32-103	0			
4-Bromophenyl phenyl ether	1198	9	33	1333	0	89.9	60-106	0			
4-Chloro-3-methylphenol	946.7	9.5	33	1333	0	71	51-101	0			
4-Chloroaniline	1071	5.3	67	1333	0	80.3	27-110	0			
4-Chlorophenyl phenyl ether	1341	9.2	33	1333	0	101	58-106	0			
4-Nitroaniline	704	52	170	1333	0	52.8	21-100	0			
4-Nitrophenol	747.3	30	33	1333	0	56.1	29-120	0			
Acenaphthene	1178	4.8	6.7	1333	0	88.4	55-101	0			
Acenaphthylene	1241	5.8	6.7	1333	0	93.1	59-106	0			
Acetophenone	980.7	5.2	33	1333	0	73.6	51-100	0			
Anthracene	1213	4.7	6.7	1333	0	91	67-105	0			
Atrazine	1433	5.2	33	1333	0	108	45-125	0			
Benzaldehyde	459.3	51	67	1333	0	34.5	10-120	0			
Benzo(a)anthracene	1199	5.8	6.7	1333	0	90	68-105	0			
Benzo(a)pyrene	1162	4.1	6.7	1333	0	87.2	68-110	0			
Benzo(b)fluoranthene	1061	5	6.7	1333	0	79.6	65-110	0			
Benzo(g,h,i)perylene	1089	5.1	6.7	1333	0	81.7	60-120	0			
Benzo(k)fluoranthene	1398	5	6.7	1333	0	105	66-113	0			
Bis(2-chloroethoxy)methane	1004	3.2	33	1333	0	75.3	53-96	0			
Bis(2-chloroethyl)ether	963.3	9.4	33	1333	0	72.3	47-108	0			
Bis(2-ethylhexyl)phthalate	1094	5.8	33	1333	0	82.1	59-117	0			
Butyl benzyl phthalate	888.7	5.6	33	1333	0	66.7	59-106	0			
Caprolactam	732.7	11	33	1333	0	55	42-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129777** Instrument ID **SVMS8** Method: **SW846 8270D**

Carbazole	1205	3.6	33	1333	0	90.4	67-108	0	
Chrysene	1327	5.4	6.7	1333	0	99.6	68-108	0	
Dibenzo(a,h)anthracene	1106	3.6	6.7	1333	0	83	62-119	0	
Dibenzofuran	1242	4.9	33	1333	0	93.2	60-104	0	
Diethyl phthalate	1303	5.1	33	1333	0	97.8	62-111	0	
Dimethyl phthalate	1249	6.5	33	1333	0	93.7	62-106	0	
Di-n-butyl phthalate	1142	6.1	33	1333	0	85.7	59-105	0	
Di-n-octyl phthalate	1098	6.4	33	1333	0	82.4	51-123	0	
Fluoranthene	1407	3.2	6.7	1333	0	106	67-106	0	
Fluorene	1283	4.8	6.7	1333	0	96.2	59-107	0	
Hexachlorobenzene	1229	9.7	33	1333	0	92.2	62-103	0	
Hexachlorobutadiene	1272	18	33	1333	0	95.4	51-94	0	S
Hexachlorocyclopentadiene	1241	11	33	1333	0	93.1	25-120	0	
Hexachloroethane	1057	14	33	1333	0	79.3	55-93	0	
Indeno(1,2,3-cd)pyrene	1047	4.6	6.7	1333	0	78.5	56-120	0	
Isophorone	972	6.5	170	1333	0	72.9	52-99	0	
Naphthalene	1064	4.3	6.7	1333	0	79.8	46-98	0	
Nitrobenzene	991.3	11	170	1333	0	74.4	53-95	0	
N-Nitrosodi-n-propylamine	874.7	5.5	33	1333	0	65.6	50-104	0	
N-Nitrosodiphenylamine	1110	3.2	33	1333	0	83.3	63-107	0	
Pentachlorophenol	1089	12	33	1333	0	81.7	34-106	0	
Phenanthrene	1090	3.1	6.7	1333	0	81.8	66-101	0	
Phenol	909.3	8.3	33	1333	0	68.2	44-109	0	
Pyrene	883.3	1.2	6.7	1333	0	66.3	60-119	0	
Surr: 2,4,6-Tribromophenol	*2667*	0	0	*3333*	0	*80*	*38-92*	0	
Surr: 2-Fluorobiphenyl	*2849*	0	0	*3333*	0	*85.5*	*44-107*	0	
Surr: 2-Fluorophenol	*2487*	0	0	*3333*	0	*74.6*	*37-109*	0	
Surr: 4-Terphenyl-d14	*2204*	0	0	*3333*	0	*66.1*	*52-123*	0	
Surr: Nitrobenzene-d5	*2381*	0	0	*3333*	0	*71.4*	*41-94*	0	
Surr: Phenol-d6	*2293*	0	0	*3333*	0	*68.8*	*28-111*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129777** Instrument ID **SVMS8** Method: **SW846 8270D**

MS Sample ID: **1812740-14B MS** Units: **µg/Kg** Analysis Date: **12/24/2018 05:56 P**

Client ID: **B-8 (0-2)** Run ID: **SVMS8_181224A** SeqNo: **5456756** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	1042	5.4	33	1324	0	78.7	53-97	0			
1,2,4,5-Tetrachlorobenzene	1116	26	330	1324	0	84.3	51-96	0			
2,2`-Oxybis(1-chloropropane)	766.2	7.8	33	1324	0	57.9	47-107	0			
2,3,4,6-Tetrachlorophenol	1386	8.6	67	1324	0	105	51-110	0			
2,4,5-Trichlorophenol	1262	9	33	1324	0	95.3	52-111	0			
2,4,6-Trichlorophenol	1079	8.8	33	1324	0	81.5	46-105	0			
2,4-Dichlorophenol	927.1	7	33	1324	0	70	47-96	0			
2,4-Dimethylphenol	386.7	6.8	33	1324	0	29.2	49-97	0			S
2,4-Dinitrophenol	1667	18	33	1324	0	126	10-106	0			S
2,4-Dinitrotoluene	1134	8.6	33	1324	0	85.7	58-110	0			
2,6-Dinitrotoluene	1130	5.5	33	1324	0	85.4	59-108	0			
2-Chloronaphthalene	1193	4.6	6.6	1324	0	90.1	56-104	0			
2-Chlorophenol	948.9	10	33	1324	0	71.7	50-104	0			
2-Methylnaphthalene	1062	3.4	6.6	1324	0	80.2	54-96	0			
2-Methylphenol	707.9	8.9	33	1324	0	53.5	49-105	0			
2-Nitroaniline	992.6	7.6	33	1324	0	75	54-107	0			
2-Nitrophenol	1083	9.4	33	1324	0	81.8	51-94	0			
3&4-Methylphenol	625.1	6.7	33	1324	0	47.2	48-105	0			S
3,3´-Dichlorobenzidine	71.52	4.9	170	1324	0	5.4	39-99	0			JS
3-Nitroaniline	815.8	7.6	33	1324	0	61.6	17-92	0			
4,6-Dinitro-2-methylphenol	1369	8.3	33	1324	0	103	32-103	0			S
4-Bromophenyl phenyl ether	1185	8.9	33	1324	0	89.5	60-106	0			
4-Chloro-3-methylphenol	862.9	9.4	33	1324	0	65.2	51-101	0			
4-Chloroaniline	575.5	5.2	67	1324	0	43.5	27-110	0			
4-Chlorophenyl phenyl ether	1304	9.1	33	1324	0	98.5	58-106	0			
4-Nitroaniline	860.2	51	170	1324	0	65	21-100	0			
4-Nitrophenol	821.1	30	33	1324	37.31	59.2	29-120	0			
Acenaphthene	1179	4.8	6.6	1324	0	89	55-101	0			
Acenaphthylene	1191	5.7	6.6	1324	0	90	59-106	0			
Acetophenone	939.7	5.2	33	1324	0	71	51-100	0			
Anthracene	1110	4.7	6.6	1324	0	83.8	67-105	0			
Atrazine	1427	5.2	33	1324	0	108	45-125	0			
Benzaldehyde	1181	51	67	1324	0	89.2	10-120	0			
Benzo(a)anthracene	1116	5.7	6.6	1324	0	84.3	68-105	0			
Benzo(a)pyrene	1126	4.1	6.6	1324	0	85.1	68-110	0			
Benzo(b)fluoranthene	1028	4.9	6.6	1324	0	77.7	65-110	0			
Benzo(g,h,i)perylene	1111	5.1	6.6	1324	0	83.9	60-120	0			
Benzo(k)fluoranthene	1336	5	6.6	1324	0	101	66-113	0			
Bis(2-chloroethoxy)methane	986.7	3.2	33	1324	0	74.5	53-96	0			
Bis(2-chloroethyl)ether	372.8	9.4	33	1324	0	28.2	47-108	0			S
Bis(2-ethylhexyl)phthalate	1101	5.7	33	1324	0	83.2	59-117	0			
Butyl benzyl phthalate	984.7	5.6	33	1324	0	74.4	59-106	0			
Caprolactam	696.6	11	33	1324	0	52.6	42-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129777** Instrument ID **SVMS8** Method: **SW846 8270D**

Carbazole	1122	3.6	33	1324	0	84.8	67-108	0
Chrysene	1135	5.4	6.6	1324	0	85.7	68-108	0
Dibenzo(a,h)anthracene	1102	3.6	6.6	1324	0	83.2	62-119	0
Dibenzofuran	1201	4.9	33	1324	0	90.7	60-104	0
Diethyl phthalate	1230	5.1	33	1324	0	92.9	62-111	0
Dimethyl phthalate	1189	6.5	33	1324	0	89.8	62-106	0
Di-n-butyl phthalate	1114	6.1	33	1324	0	84.2	59-105	0
Di-n-octyl phthalate	1280	6.4	33	1324	0	96.7	51-123	0
Fluoranthene	1283	3.2	6.6	1324	0	96.9	67-106	0
Fluorene	1229	4.8	6.6	1324	0	92.8	59-107	0
Hexachlorobenzene	1152	9.6	33	1324	0	87	62-103	0
Hexachlorobutadiene	1220	18	33	1324	0	92.1	51-94	0
Hexachlorocyclopentadiene	1177	11	33	1324	0	88.9	25-120	0
Hexachloroethane	1040	14	33	1324	0	78.5	55-93	0
Indeno(1,2,3-cd)pyrene	1049	4.6	6.6	1324	0	79.2	56-120	0
Isophorone	936.4	6.5	170	1324	0	70.7	52-99	0
Naphthalene	1022	4.2	6.6	1324	0	77.2	46-98	0
Nitrobenzene	966.8	11	170	1324	0	73	53-95	0
N-Nitrosodi-n-propylamine	851.6	5.5	33	1324	0	64.3	50-104	0
N-Nitrosodiphenylamine	980.1	3.2	33	1324	0	74	63-107	0
Pentachlorophenol	1220	12	33	1324	0	92.1	34-106	0
Phenanthrene	1039	3.1	6.6	1324	0	78.5	66-101	0
Phenol	788.7	8.2	33	1324	0	59.6	44-109	0
Pyrene	955.6	1.2	6.6	1324	0	72.2	60-119	0
Surr: 2,4,6-Tribromophenol	*2577*	0	0	*3311*	0	*77.8*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2798*	0	0	*3311*	0	*84.5*	*44-107*	0
Surr: 2-Fluorophenol	*2167*	0	0	*3311*	0	*65.4*	*37-109*	0
Surr: 4-Terphenyl-d14	*2393*	0	0	*3311*	0	*72.3*	*52-123*	0
Surr: Nitrobenzene-d5	*2348*	0	0	*3311*	0	*70.9*	*41-94*	0
Surr: Phenol-d6	*2025*	0	0	*3311*	0	*61.2*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129777** Instrument ID **SVMS8** Method: **SW846 8270D**

MSD Sample ID: **1812740-14B MSD** Units: **µg/Kg** Analysis Date: **12/24/2018 06:16 P**

Client ID: **B-8 (0-2)** Run ID: **SVMS8_181224A** SeqNo: **5456757** Prep Date: **12/21/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	936.8	5.2	31	1271	0	73.7	53-97	1042	10.7	30	
1,2,4,5-Tetrachlorobenzene	985.7	25	320	1271	0	77.6	51-96	1116	12.4	30	
2,2`-Oxybis(1-chloropropane)	666.7	7.4	31	1271	0	52.5	47-107	766.2	13.9	30	
2,3,4,6-Tetrachlorophenol	1375	8.3	64	1271	0	108	51-110	1386	0.823	30	
2,4,5-Trichlorophenol	1255	8.7	31	1271	0	98.8	52-111	1262	0.504	30	
2,4,6-Trichlorophenol	952	8.5	31	1271	0	74.9	46-105	1079	12.5	30	
2,4-Dichlorophenol	843.3	6.7	31	1271	0	66.4	47-96	927.1	9.46	30	
2,4-Dimethylphenol	394	6.5	31	1271	0	31	49-97	386.7	1.87	30	S
2,4-Dinitrophenol	1661	17	31	1271	0	131	10-106	1667	0.371	30	S
2,4-Dinitrotoluene	1077	8.3	31	1271	0	84.7	58-110	1134	5.23	30	
2,6-Dinitrotoluene	1039	5.2	31	1271	0	81.8	59-108	1130	8.42	30	
2-Chloronaphthalene	1031	4.4	6.4	1271	0	81.1	56-104	1193	14.6	30	
2-Chlorophenol	841.4	10	31	1271	0	66.2	50-104	948.9	12	30	
2-Methylnaphthalene	912	3.2	6.4	1271	0	71.8	54-96	1062	15.2	30	
2-Methylphenol	624.7	8.6	31	1271	0	49.2	49-105	707.9	12.5	30	
2-Nitroaniline	916.4	7.3	31	1271	0	72.1	54-107	992.6	7.99	30	
2-Nitrophenol	931	9.1	31	1271	0	73.3	51-94	1083	15.1	30	
3&4-Methylphenol	552.3	6.4	31	1271	0	43.5	48-105	625.1	12.4	30	S
3,3´-Dichlorobenzidine	146.2	4.7	160	1271	0	11.5	39-99	71.52	0	30	JS
3-Nitroaniline	817.9	7.3	31	1271	0	64.4	17-92	815.8	0.255	30	
4,6-Dinitro-2-methylphenol	1342	8	31	1271	0	106	32-103	1369	2.01	30	S
4-Bromophenyl phenyl ether	1089	8.5	31	1271	0	85.7	60-106	1185	8.39	30	
4-Chloro-3-methylphenol	818.6	9.1	31	1271	0	64.4	51-101	862.9	5.27	30	
4-Chloroaniline	636.2	5	64	1271	0	50.1	27-110	575.5	10	30	
4-Chlorophenyl phenyl ether	1171	8.8	31	1271	0	92.2	58-106	1304	10.7	30	
4-Nitroaniline	837	49	160	1271	0	65.9	21-100	860.2	2.74	30	
4-Nitrophenol	760.1	28	31	1271	37.31	56.9	29-120	821.1	7.72	30	
Acenaphthene	1052	4.6	6.4	1271	0	82.8	55-101	1179	11.4	30	
Acenaphthylene	1066	5.5	6.4	1271	0	83.9	59-106	1191	11.1	30	
Acetophenone	816.7	5	31	1271	0	64.3	51-100	939.7	14	30	
Anthracene	1039	4.5	6.4	1271	0	81.8	67-105	1110	6.59	30	
Atrazine	1406	5	31	1271	0	111	45-125	1427	1.46	30	
Benzaldehyde	1020	49	64	1271	0	80.3	10-120	1181	14.6	30	
Benzo(a)anthracene	1091	5.5	6.4	1271	0	85.8	68-105	1116	2.29	30	
Benzo(a)pyrene	1096	3.9	6.4	1271	0	86.3	68-110	1126	2.71	30	
Benzo(b)fluoranthene	1036	4.7	6.4	1271	0	81.5	65-110	1028	0.726	30	
Benzo(g,h,i)perylene	1058	4.9	6.4	1271	0	83.2	60-120	1111	4.95	30	
Benzo(k)fluoranthene	1210	4.8	6.4	1271	0	95.2	66-113	1336	9.87	30	
Bis(2-chloroethoxy)methane	850.3	3.1	31	1271	0	66.9	53-96	986.7	14.8	30	
Bis(2-chloroethyl)ether	325.4	9	31	1271	0	25.6	47-108	372.8	13.6	30	S
Bis(2-ethylhexyl)phthalate	1073	5.5	31	1271	0	84.5	59-117	1101	2.56	30	
Butyl benzyl phthalate	933	5.4	31	1271	0	73.4	59-106	984.7	5.4	30	
Caprolactam	701	11	31	1271	0	55.2	42-105	696.6	0.621	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129777** Instrument ID **SVMS8** Method: **SW846 8270D**

Carbazole	1074	3.4	31	1271	0	84.5	67-108	1122	4.41	30	
Chrysene	1055	5.1	6.4	1271	0	83	68-108	1135	7.31	30	
Dibenzo(a,h)anthracene	1097	3.4	6.4	1271	0	86.3	62-119	1102	0.454	30	
Dibenzofuran	1069	4.7	31	1271	0	84.1	60-104	1201	11.7	30	
Diethyl phthalate	1142	4.9	31	1271	0	89.9	62-111	1230	7.39	30	
Dimethyl phthalate	1063	6.2	31	1271	0	83.6	62-106	1189	11.3	30	
Di-n-butyl phthalate	1056	5.8	31	1271	0	83.1	59-105	1114	5.37	30	
Di-n-octyl phthalate	1292	6.1	31	1271	0	102	51-123	1280	0.931	30	
Fluoranthene	1249	3.1	6.4	1271	0	98.3	67-106	1283	2.73	30	
Fluorene	1134	4.6	6.4	1271	0	89.3	59-107	1229	8.01	30	
Hexachlorobenzene	1061	9.2	31	1271	0	83.5	62-103	1152	8.22	30	
Hexachlorobutadiene	1045	17	31	1271	0	82.2	51-94	1220	15.5	30	
Hexachlorocyclopentadiene	798.2	11	31	1271	0	62.8	25-120	1177	38.3	30	R
Hexachloroethane	862.4	13	31	1271	0	67.9	55-93	1040	18.6	30	
Indeno(1,2,3-cd)pyrene	944.4	4.4	6.4	1271	0	74.3	56-120	1049	10.5	30	
Isophorone	835.7	6.2	160	1271	0	65.8	52-99	936.4	11.4	30	
Naphthalene	890.4	4.1	6.4	1271	0	70.1	46-98	1022	13.7	30	
Nitrobenzene	837	11	160	1271	0	65.9	53-95	966.8	14.4	30	
N-Nitrosodi-n-propylamine	750.6	5.2	31	1271	0	59.1	50-104	851.6	12.6	30	
N-Nitrosodiphenylamine	917.1	3.1	31	1271	0	72.2	63-107	980.1	6.64	30	
Pentachlorophenol	1246	12	31	1271	0	98	34-106	1220	2.1	30	
Phenanthrene	973	3	6.4	1271	0	76.6	66-101	1039	6.56	30	
Phenol	676.8	7.9	31	1271	0	53.3	44-109	788.7	15.3	30	
Pyrene	865.6	1.2	6.4	1271	0	68.1	60-119	955.6	9.88	30	
Surr: 2,4,6-Tribromophenol	*2293*	0	0	*3177*	0	*72.2*	*38-92*	2577	*11.7*	*40*	
Surr: 2-Fluorobiphenyl	*2331*	0	0	*3177*	0	*73.4*	*44-107*	2798	*18.2*	*40*	
Surr: 2-Fluorophenol	*1800*	0	0	*3177*	0	*56.6*	*37-109*	2167	*18.5*	*40*	
Surr: 4-Terphenyl-d14	*2039*	0	0	*3177*	0	*64.2*	*52-123*	2393	*16*	*40*	
Surr: Nitrobenzene-d5	*1988*	0	0	*3177*	0	*62.6*	*41-94*	2348	*16.6*	*40*	
Surr: Phenol-d6	*1713*	0	0	*3177*	0	*53.9*	*28-111*	2025	*16.7*	*40*	

The following samples were analyzed in this batch:

1812740-13B	1812740-14B	1812740-15B
1812740-16B	1812740-17B	1812740-18B
1812740-19B	1812740-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129361** Instrument ID **VMS7** Method: **SW8260C**

MBLK Sample ID: **MBLK-129361-129361** Units: **µg/Kg-dry** Analysis Date: **12/19/2018 03:39 P**

Client ID: Run ID: **VMS7_181219A** SeqNo: **5449232** Prep Date: **12/13/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	14	30								
1,1,2,2-Tetrachloroethane	U	13	30								
1,1,2-Trichloroethane	U	13	30								
1,1,2-Trichlorotrifluoroethane	U	19	30								
1,1-Dichloroethane	U	11	30								
1,1-Dichloroethene	U	9.7	30								
1,2,3-Trichlorobenzene	U	14	30								
1,2,4-Trichlorobenzene	U	10	30								
1,2-Dibromo-3-chloropropane	U	28	100								
1,2-Dibromoethane	U	8.4	30								
1,2-Dichlorobenzene	U	11	30								
1,2-Dichloroethane	U	13	30								
1,2-Dichloropropane	U	5.2	30								
1,3-Dichlorobenzene	U	10	30								
1,4-Dichlorobenzene	U	7.2	30								
2-Butanone	U	25	200								
2-Hexanone	U	15	30								
4-Methyl-2-pentanone	U	14	30								
Acetone	U	31	100								
Benzene	U	5.1	30								
Bromochloromethane	U	15	30								
Bromodichloromethane	U	17	30								
Bromoform	U	13	30								
Bromomethane	U	57	100								
Carbon disulfide	U	16	30								
Carbon tetrachloride	U	12	30								
Chlorobenzene	U	10	30								
Chloroethane	U	10	100								
Chloroform	U	11	30								
Chloromethane	U	25	100								
cis-1,2-Dichloroethene	U	9.4	30								
cis-1,3-Dichloropropene	U	11	30								
Cyclohexane	U	9.8	30								
Dibromochloromethane	U	17	30								
Dichlorodifluoromethane	U	6.3	30								
Ethylbenzene	U	6.3	30								
Isopropylbenzene	U	9.2	30								
m,p-Xylene	U	14	60								
Methyl acetate	U	13	200								
Methyl tert-butyl ether	U	8.6	30								
Methylcyclohexane	U	11	30								
Methylene chloride	41	13	30								
o-Xylene	U	12	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129361** Instrument ID **VMS7** Method: **SW8260C**

Styrene	U	12	30					
Tetrachloroethene	U	8.7	30					
Toluene	U	8.2	30					
trans-1,2-Dichloroethene	U	11	30					
trans-1,3-Dichloropropene	U	17	30					
Trichloroethene	U	13	30					
Trichlorofluoromethane	U	15	30					
Vinyl chloride	U	6.4	30					
Surr: 1,2-Dichloroethane-d4	*1086*	0	0	*1000*	0	*109*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1008*	0	0	*1000*	0	*101*	*70-130*	0
Surr: Dibromofluoromethane	*983.5*	0	0	*1000*	0	*98.4*	*70-130*	0
Surr: Toluene-d8	*1023*	0	0	*1000*	0	*102*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129361** Instrument ID **VMS7** Method: **SW8260C**

LCS Sample ID: **LCS-129361-129361** Units: **µg/Kg-dry** Analysis Date: **12/19/2018 01:37 P**

Client ID: Run ID: **VMS7_181219A** SeqNo: **5449230** Prep Date: **12/13/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1175	14	30	1000	0	118	70-135	0			
1,1,2,2-Tetrachloroethane	1236	13	30	1000	0	124	55-130	0			
1,1,2-Trichloroethane	1162	13	30	1000	0	116	60-125	0			
1,1-Dichloroethane	1178	11	30	1000	0	118	75-125	0			
1,1-Dichloroethene	1194	9.7	30	1000	0	119	76-148	0			
1,2,3-Trichlorobenzene	1036	14	30	1000	0	104	60-135	0			
1,2,4-Trichlorobenzene	1095	10	30	1000	0	110	65-130	0			
1,2-Dibromo-3-chloropropane	1070	28	100	1000	0	107	40-135	0			
1,2-Dibromoethane	1291	8.4	30	1000	0	129	80-195	0			
1,2-Dichlorobenzene	1088	11	30	1000	0	109	75-120	0			
1,2-Dichloroethane	1126	13	30	1000	0	113	70-135	0			
1,2-Dichloropropane	1137	5.2	30	1000	0	114	70-120	0			
1,3-Dichlorobenzene	1101	10	30	1000	0	110	70-125	0			
1,4-Dichlorobenzene	1116	7.2	30	1000	0	112	70-125	0			
2-Butanone	1089	25	200	1000	0	109	30-160	0			
2-Hexanone	1075	15	30	1000	0	108	45-145	0			
4-Methyl-2-pentanone	1554	14	30	1000	0	155	74-176	0			
Acetone	1064	31	100	1000	0	106	20-160	0			
Benzene	1085	5.1	30	1000	0	108	75-125	0			
Bromochloromethane	1226	15	30	1000	0	123	74-134	0			
Bromodichloromethane	1148	17	30	1000	0	115	70-130	0			
Bromoform	1012	13	30	1000	0	101	55-135	0			
Bromomethane	1016	57	100	1000	0	102	50-170	0			
Carbon disulfide	1184	16	30	1000	0	118	45-160	0			
Carbon tetrachloride	998.5	12	30	1000	0	99.8	65-135	0			
Chlorobenzene	1045	10	30	1000	0	104	75-125	0			
Chloroethane	1140	10	100	1000	0	114	40-155	0			
Chloroform	1185	11	30	1000	0	118	70-125	0			
Chloromethane	925	25	100	1000	0	92.5	50-144	0			
cis-1,2-Dichloroethene	1176	9.4	30	1000	0	118	65-125	0			
cis-1,3-Dichloropropene	1086	11	30	1000	0	109	70-125	0			
Dibromochloromethane	996	17	30	1000	0	99.6	65-135	0			
Dichlorodifluoromethane	750	6.3	30	1000	0	75	35-135	0			
Ethylbenzene	1096	6.3	30	1000	0	110	75-125	0			
Isopropylbenzene	1115	9.2	30	1000	0	112	75-130	0			
m,p-Xylene	2228	14	60	2000	0	111	80-125	0			
Methyl tert-butyl ether	1206	8.6	30	1000	0	121	75-125	0			
Methylene chloride	1178	13	30	1000	0	118	55-145	0			B
o-Xylene	1118	12	30	1000	0	112	75-125	0			
Styrene	1182	12	30	1000	0	118	80-138	0			
Tetrachloroethene	1097	8.7	30	1000	0	110	67-167	0			
Toluene	1085	8.2	30	1000	0	108	70-125	0			
trans-1,2-Dichloroethene	1210	11	30	1000	0	121	65-135	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129361** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	1096	17	30	1000	0	110	59-129	0
Trichloroethene	1073	13	30	1000	0	107	75-125	0
Trichlorofluoromethane	1092	15	30	1000	0	109	25-185	0
Vinyl chloride	1039	6.4	30	1000	0	104	60-125	0
Surr: 1,2-Dichloroethane-d4	*1050*	0	0	*1000*	0	*105*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1010*	0	0	*1000*	0	*101*	*70-130*	0
Surr: Dibromofluoromethane	*1055*	0	0	*1000*	0	*106*	*70-130*	0
Surr: Toluene-d8	*1014*	0	0	*1000*	0	*101*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129361** Instrument ID **VMS7** Method: **SW8260C**

MS Sample ID: **1812740-10A MS** Units: **µg/Kg-dry** Analysis Date: **12/19/2018 09:51 P**

Client ID: **B-6 (0-2)** Run ID: **VMS7_181219A** SeqNo: **5449240** Prep Date: **12/13/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1429	20	45	1500	0	95.2	70-135	0			
1,1,2,2-Tetrachloroethane	1612	20	45	1500	0	107	55-130	0			
1,1,2-Trichloroethane	1512	19	45	1500	0	101	60-125	0			
1,1-Dichloroethane	1308	16	45	1500	0	87.2	75-125	0			
1,1-Dichloroethene	1446	15	45	1500	0	96.4	76-148	0			
1,2,3-Trichlorobenzene	1367	21	45	1500	0	91.2	60-135	0			
1,2,4-Trichlorobenzene	1336	16	45	1500	0	89	65-130	0			
1,2-Dibromo-3-chloropropane	1382	41	150	1500	0	92.1	40-135	0			
1,2-Dibromoethane	1703	13	45	1500	0	114	80-195	0			
1,2-Dichlorobenzene	1394	17	45	1500	0	92.9	75-120	0			
1,2-Dichloroethane	1482	19	45	1500	0	98.8	70-135	0			
1,2-Dichloropropane	1414	7.9	45	1500	0	94.2	70-120	0			
1,3-Dichlorobenzene	1330	15	45	1500	0	88.7	70-125	0			
1,4-Dichlorobenzene	1373	11	45	1500	0	91.6	70-125	0			
2-Butanone	1696	37	300	1500	0	113	30-160	0			
2-Hexanone	1733	22	45	1500	0	116	45-145	0			
4-Methyl-2-pentanone	2057	21	45	1500	0	137	74-176	0			
Acetone	2722	47	150	1500	0	182	20-160	0			S
Benzene	1355	7.7	45	1500	0	90.4	75-125	0			
Bromochloromethane	1525	23	45	1500	0	102	74-134	0			
Bromodichloromethane	1391	25	45	1500	0	92.8	70-130	0			
Bromoform	1277	19	45	1500	0	85.2	55-135	0			
Bromomethane	1008	86	150	1500	0	67.2	50-170	0			
Carbon disulfide	1313	23	45	1500	0	87.6	45-160	0			
Carbon tetrachloride	1190	18	45	1500	0	79.4	65-135	0			
Chlorobenzene	1293	15	45	1500	0	86.2	75-125	0			
Chloroethane	64.5	16	150	1500	0	4.3	40-155	0			JS
Chloroform	1438	16	45	1500	0	95.8	70-125	0			
Chloromethane	1175	38	150	1500	0	78.4	50-144	0			
cis-1,2-Dichloroethene	1406	14	45	1500	0	93.8	65-125	0			
cis-1,3-Dichloropropene	1322	17	45	1500	0	88.1	70-125	0			
Dibromochloromethane	1228	25	45	1500	0	81.9	65-135	0			
Dichlorodifluoromethane	1022	9.4	45	1500	0	68.1	35-135	0			
Ethylbenzene	1358	9.5	45	1500	0	90.6	75-125	0			
Isopropylbenzene	1325	14	45	1500	0	88.4	75-130	0			
m,p-Xylene	2661	21	90	3000	0	88.7	80-125	0			
Methyl tert-butyl ether	1553	13	45	1500	0	104	75-125	0			
Methylene chloride	1403	19	45	1500	0	93.6	55-145	0			B
o-Xylene	1377	17	45	1500	9	91.2	75-125	0			
Styrene	1409	18	45	1500	0	94	80-138	0			
Tetrachloroethene	2074	13	45	1500	11.25	138	67-167	0			
Toluene	1308	12	45	1500	0	87.2	70-125	0			
trans-1,2-Dichloroethene	1444	17	45	1500	0	96.2	65-135	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129361** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	1346	25	45	1500	0	89.7	59-129	0
Trichloroethene	1315	20	45	1500	0	87.6	75-125	0
Trichlorofluoromethane	1220	23	45	1500	0	81.3	25-185	0
Vinyl chloride	1424	9.7	45	1500	0	95	60-125	0
Surr: 1,2-Dichloroethane-d4	*1608*	0	0	*1500*	0	*107*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1510*	0	0	*1500*	0	*101*	*70-130*	0
Surr: Dibromofluoromethane	*1548*	0	0	*1500*	0	*103*	*70-130*	0
Surr: Toluene-d8	*1516*	0	0	*1500*	0	*101*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129361** Instrument ID **VMS7** Method: **SW8260C**

MSD Sample ID: **1812740-10A MSD** Units: **µg/Kg-dry** Analysis Date: **12/19/2018 10:07 P**

Client ID: **B-6 (0-2)** Run ID: **VMS7_181219A** SeqNo: **5449241** Prep Date: **12/13/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1684	20	45	1500	0	112	70-135	1429	16.4	30	
1,1,2,2-Tetrachloroethane	1602	20	45	1500	0	107	55-130	1612	0.607	30	
1,1,2-Trichloroethane	1564	19	45	1500	0	104	60-125	1512	3.41	30	
1,1-Dichloroethane	1542	16	45	1500	0	103	75-125	1308	16.4	30	
1,1-Dichloroethene	1758	15	45	1500	0	117	76-148	1446	19.5	30	
1,2,3-Trichlorobenzene	1426	21	45	1500	0	95	60-135	1367	4.19	30	
1,2,4-Trichlorobenzene	1421	16	45	1500	0	94.8	65-130	1336	6.2	30	
1,2-Dibromo-3-chloropropane	1357	41	150	1500	0	90.4	40-135	1382	1.81	30	
1,2-Dibromoethane	1741	13	45	1500	0	116	80-195	1703	2.18	30	
1,2-Dichlorobenzene	1455	17	45	1500	0	97	75-120	1394	4.32	30	
1,2-Dichloroethane	1596	19	45	1500	0	106	70-135	1482	7.41	30	
1,2-Dichloropropane	1579	7.9	45	1500	0	105	70-120	1414	11	30	
1,3-Dichlorobenzene	1441	15	45	1500	0	96	70-125	1330	7.96	30	
1,4-Dichlorobenzene	1456	11	45	1500	0	97	70-125	1373	5.83	30	
2-Butanone	1756	37	300	1500	0	117	30-160	1696	3.48	30	
2-Hexanone	1709	22	45	1500	0	114	45-145	1733	1.39	30	
4-Methyl-2-pentanone	2121	21	45	1500	0	141	74-176	2057	3.05	30	
Acetone	2776	47	150	1500	0	185	20-160	2722	1.96	30	S
Benzene	1571	7.7	45	1500	0	105	75-125	1355	14.8	30	
Bromochloromethane	1712	23	45	1500	0	114	74-134	1525	11.6	30	
Bromodichloromethane	1532	25	45	1500	0	102	70-130	1391	9.6	30	
Bromoform	1328	19	45	1500	0	88.6	55-135	1277	3.91	30	
Bromomethane	1252	86	150	1500	0	83.5	50-170	1008	21.6	30	
Carbon disulfide	1592	23	45	1500	0	106	45-160	1313	19.2	30	
Carbon tetrachloride	1456	18	45	1500	0	97	65-135	1190	20.1	30	
Chlorobenzene	1408	15	45	1500	0	93.9	75-125	1293	8.55	30	
Chloroethane	114	16	150	1500	0	7.6	40-155	64.5	0	30	JS
Chloroform	1636	16	45	1500	0	109	70-125	1438	12.9	30	
Chloromethane	1364	38	150	1500	0	91	50-144	1175	14.9	30	
cis-1,2-Dichloroethene	1632	14	45	1500	0	109	65-125	1406	14.9	30	
cis-1,3-Dichloropropene	1472	17	45	1500	0	98.1	70-125	1322	10.7	30	
Dibromochloromethane	1298	25	45	1500	0	86.6	65-135	1228	5.52	30	
Dichlorodifluoromethane	1313	9.4	45	1500	0	87.6	35-135	1022	25	30	
Ethylbenzene	1514	9.5	45	1500	0	101	75-125	1358	10.9	30	
Isopropylbenzene	1474	14	45	1500	0	98.2	75-130	1325	10.6	30	
m,p-Xylene	2996	21	90	3000	0	99.9	80-125	2661	11.9	30	
Methyl tert-butyl ether	1666	13	45	1500	0	111	75-125	1553	6.99	30	
Methylene chloride	1608	19	45	1500	0	107	55-145	1403	13.6	30	B
o-Xylene	1523	17	45	1500	9	101	75-125	1377	10.1	30	
Styrene	1537	18	45	1500	0	102	80-138	1409	8.66	30	
Tetrachloroethene	2363	13	45	1500	11.25	157	67-167	2074	13	30	
Toluene	1488	12	45	1500	0	99.2	70-125	1308	12.9	30	
trans-1,2-Dichloroethene	1699	17	45	1500	0	113	65-135	1444	16.2	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129361** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	1399	25	45	1500	0	93.2	59-129	1346	3.88	30
Trichloroethene	1574	20	45	1500	0	105	75-125	1315	17.9	30
Trichlorofluoromethane	1502	23	45	1500	0	100	25-185	1220	20.8	30
Vinyl chloride	1711	9.7	45	1500	0	114	60-125	1424	18.3	30
Surr: 1,2-Dichloroethane-d4	*1621*	0	0	*1500*	0	*108*	*70-130*	1608	*0.79*	*30*
Surr: 4-Bromofluorobenzene	*1564*	0	0	*1500*	0	*104*	*70-130*	1510	*3.51*	*30*
Surr: Dibromofluoromethane	*1595*	0	0	*1500*	0	*106*	*70-130*	1548	*3.01*	*30*
Surr: Toluene-d8	*1516*	0	0	*1500*	0	*101*	*70-130*	1516	*0*	*30*

The following samples were analyzed in this batch:

1812740-01A	1812740-03A	1812740-04A
1812740-05A	1812740-06A	1812740-07A
1812740-08A	1812740-09A	1812740-10A
1812740-12A	1812740-13A	1812740-14A
1812740-15A	1812740-16A	1812740-17A
1812740-18A	1812740-19A	1812740-20A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129377** Instrument ID **VMS7** Method: **SW8260C**

MBLK Sample ID: **MBLK-129377-129377** Units: **µg/Kg-dry** Analysis Date: **12/18/2018 12:50 P**

Client ID: Run ID: **VMS7_181217B** SeqNo: **5444539** Prep Date: **12/13/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	14	30								
1,1,2,2-Tetrachloroethane	U	13	30								
1,1,2-Trichloroethane	U	13	30								
1,1,2-Trichlorotrifluoroethane	U	19	30								
1,1-Dichloroethane	U	11	30								
1,1-Dichloroethene	U	9.7	30								
1,2,3-Trichlorobenzene	U	14	30								
1,2,4-Trichlorobenzene	12.5	10	30								J
1,2-Dibromo-3-chloropropane	U	28	100								
1,2-Dibromoethane	U	8.4	30								
1,2-Dichlorobenzene	U	11	30								
1,2-Dichloroethane	U	13	30								
1,2-Dichloropropane	U	5.2	30								
1,3-Dichlorobenzene	U	10	30								
1,4-Dichlorobenzene	U	7.2	30								
2-Butanone	U	25	200								
2-Hexanone	U	15	30								
4-Methyl-2-pentanone	U	14	30								
Acetone	U	31	100								
Benzene	U	5.1	30								
Bromochloromethane	U	15	30								
Bromodichloromethane	U	17	30								
Bromoform	U	13	30								
Bromomethane	U	57	100								
Carbon disulfide	U	16	30								
Carbon tetrachloride	U	12	30								
Chlorobenzene	U	10	30								
Chloroethane	U	10	100								
Chloroform	U	11	30								
Chloromethane	U	25	100								
cis-1,2-Dichloroethene	U	9.4	30								
cis-1,3-Dichloropropene	U	11	30								
Cyclohexane	U	9.8	30								
Dibromochloromethane	U	17	30								
Dichlorodifluoromethane	U	6.3	30								
Ethylbenzene	U	6.3	30								
Isopropylbenzene	U	9.2	30								
m,p-Xylene	U	14	60								
Methyl acetate	U	13	200								
Methyl tert-butyl ether	U	8.6	30								
Methylcyclohexane	U	11	30								
Methylene chloride	16	13	30								J
o-Xylene	U	12	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129377** Instrument ID **VMS7** Method: **SW8260C**

Styrene	U	12	30					
Tetrachloroethene	U	8.7	30					
Toluene	U	8.2	30					
trans-1,2-Dichloroethene	U	11	30					
trans-1,3-Dichloropropene	U	17	30					
Trichloroethene	U	13	30					
Trichlorofluoromethane	U	15	30					
Vinyl chloride	U	6.4	30					
Surr: 1,2-Dichloroethane-d4	*910*	0	0	*1000*	0	*91*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1020*	0	0	*1000*	0	*102*	*70-130*	0
Surr: Dibromofluoromethane	*871*	0	0	*1000*	0	*87.1*	*70-130*	0
Surr: Toluene-d8	*980.5*	0	0	*1000*	0	*98*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129377** Instrument ID **VMS7** Method: **SW8260C**

LCS Sample ID: **LCS-129377-129377** Units: **µg/Kg-dry** Analysis Date: **12/17/2018 11:48 P**

Client ID: Run ID: **VMS7_181217B** SeqNo: **5444519** Prep Date: **12/13/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1072	14	30	1000	0	107	70-135	0			
1,1,2,2-Tetrachloroethane	1106	13	30	1000	0	111	55-130	0			
1,1,2-Trichloroethane	998.5	13	30	1000	0	99.8	60-125	0			
1,1-Dichloroethane	994.5	11	30	1000	0	99.4	75-125	0			
1,1-Dichloroethene	1071	9.7	30	1000	0	107	76-148	0			
1,2,3-Trichlorobenzene	1083	14	30	1000	0	108	60-135	0			
1,2,4-Trichlorobenzene	989	10	30	1000	0	98.9	65-130	0			
1,2-Dibromo-3-chloropropane	993	28	100	1000	0	99.3	40-135	0			
1,2-Dibromoethane	1122	8.4	30	1000	0	112	80-195	0			
1,2-Dichlorobenzene	1044	11	30	1000	0	104	75-120	0			
1,2-Dichloroethane	921.5	13	30	1000	0	92.2	70-135	0			
1,2-Dichloropropane	982.5	5.2	30	1000	0	98.2	70-120	0			
1,3-Dichlorobenzene	1046	10	30	1000	0	105	70-125	0			
1,4-Dichlorobenzene	1044	7.2	30	1000	0	104	70-125	0			
2-Butanone	966.5	25	200	1000	0	96.6	30-160	0			
2-Hexanone	951.5	15	30	1000	0	95.2	45-145	0			
4-Methyl-2-pentanone	1444	14	30	1000	0	144	74-176	0			
Acetone	902.5	31	100	1000	0	90.2	20-160	0			
Benzene	1007	5.1	30	1000	0	101	75-125	0			
Bromochloromethane	1021	15	30	1000	0	102	74-134	0			
Bromodichloromethane	957.5	17	30	1000	0	95.8	70-130	0			
Bromoform	913	13	30	1000	0	91.3	55-135	0			
Bromomethane	843.5	57	100	1000	0	84.4	50-170	0			
Carbon disulfide	1075	16	30	1000	0	108	45-160	0			
Carbon tetrachloride	880	12	30	1000	0	88	65-135	0			
Chlorobenzene	978	10	30	1000	0	97.8	75-125	0			
Chloroethane	842	10	100	1000	0	84.2	40-155	0			
Chloroform	976	11	30	1000	0	97.6	70-125	0			
Chloromethane	595.5	25	100	1000	0	59.6	50-144	0			
cis-1,2-Dichloroethene	1002	9.4	30	1000	0	100	65-125	0			
cis-1,3-Dichloropropene	937	11	30	1000	0	93.7	70-125	0			
Dibromochloromethane	840.5	17	30	1000	0	84	65-135	0			
Dichlorodifluoromethane	938	6.3	30	1000	0	93.8	35-135	0			
Ethylbenzene	1018	6.3	30	1000	0	102	75-125	0			
Isopropylbenzene	1098	9.2	30	1000	0	110	75-130	0			
m,p-Xylene	2033	14	60	2000	0	102	80-125	0			
Methyl tert-butyl ether	1094	8.6	30	1000	0	109	75-125	0			
Methylene chloride	904	13	30	1000	0	90.4	55-145	0			
o-Xylene	1086	12	30	1000	0	109	75-125	0			
Styrene	1109	12	30	1000	0	111	80-138	0			
Tetrachloroethene	1052	8.7	30	1000	0	105	67-167	0			
Toluene	1002	8.2	30	1000	0	100	70-125	0			
trans-1,2-Dichloroethene	1030	11	30	1000	0	103	65-135	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **129377** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	904	17	30	1000	0	90.4	59-129	0
Trichloroethene	1015	13	30	1000	0	102	75-125	0
Trichlorofluoromethane	771	15	30	1000	0	77.1	25-185	0
Vinyl chloride	864.5	6.4	30	1000	0	86.4	60-125	0
Surr: 1,2-Dichloroethane-d4	*938.5*	0	0	*1000*	0	*93.8*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1036*	0	0	*1000*	0	*104*	*70-130*	0
Surr: Dibromofluoromethane	*988*	0	0	*1000*	0	*98.8*	*70-130*	0
Surr: Toluene-d8	*965.5*	0	0	*1000*	0	*96.6*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129377** Instrument ID **VMS7** Method: **SW8260C**

MS Sample ID: **1812811-03A MS** Units: **µg/Kg-dry** Analysis Date: **12/18/2018 06:32 A**

Client ID: Run ID: **VMS7_181217B** SeqNo: **5444534** Prep Date: **12/13/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1515	21	47	1564	0	96.8	70-135	0			
1,1,2,2-Tetrachloroethane	935.3	21	47	1564	0	59.8	55-130	0			
1,1,2-Trichloroethane	1524	20	47	1564	0	97.4	60-125	0			
1,1-Dichloroethane	1345	17	47	1564	0	86	75-125	0			
1,1-Dichloroethene	1563	15	47	1564	0	99.9	76-148	0			
1,2,3-Trichlorobenzene	1660	22	47	1564	0	106	60-135	0			
1,2,4-Trichlorobenzene	1475	16	47	1564	17.99	93.2	65-130	0			
1,2-Dibromo-3-chloropropane	1373	43	160	1564	0	87.8	40-135	0			
1,2-Dibromoethane	1580	13	47	1564	0	101	80-195	0			
1,2-Dichlorobenzene	1575	18	47	1564	0	101	75-120	0			
1,2-Dichloroethane	1347	20	47	1564	0	86.1	70-135	0			
1,2-Dichloropropane	1416	8.2	47	1564	0	90.6	70-120	0			
1,3-Dichlorobenzene	1486	16	47	1564	0	95	70-125	0			
1,4-Dichlorobenzene	1543	11	47	1564	0	98.6	70-125	0			
2-Butanone	2175	39	310	1564	16.42	138	30-160	0			
2-Hexanone	1794	23	47	1564	38.32	112	45-145	0			
4-Methyl-2-pentanone	1585	22	47	1564	14.08	100	74-176	0			
Acetone	2914	49	160	1564	11.73	186	20-160	0			S
Benzene	1466	8	47	1564	0	93.7	75-125	0			
Bromochloromethane	1499	24	47	1564	0	95.8	74-134	0			
Bromodichloromethane	1322	26	47	1564	0	84.6	70-130	0			
Bromoform	1257	20	47	1564	0	80.4	55-135	0			
Bromomethane	1017	90	160	1564	0	65	50-170	0			
Carbon disulfide	1383	24	47	1564	54.74	85	45-160	0			
Carbon tetrachloride	1292	18	47	1564	0	82.6	65-135	0			
Chlorobenzene	1459	16	47	1564	0	93.3	75-125	0			
Chloroethane	43.79	16	160	1564	0	2.8	40-155	0			JS
Chloroform	1416	17	47	1564	0	90.5	70-125	0			
Chloromethane	860.3	39	160	1564	23.46	53.5	50-144	0			
cis-1,2-Dichloroethene	1414	15	47	1564	0	90.4	65-125	0			
cis-1,3-Dichloropropene	1279	17	47	1564	0	81.8	70-125	0			
Dibromochloromethane	1165	26	47	1564	0	74.5	65-135	0			
Dichlorodifluoromethane	1398	9.8	47	1564	0	89.4	35-135	0			
Ethylbenzene	1468	9.9	47	1564	0	93.8	75-125	0			
Isopropylbenzene	1455	14	47	1564	0	93	75-130	0			
m,p-Xylene	3005	22	94	3128	0	96.1	80-125	0			
Methyl tert-butyl ether	1650	14	47	1564	8.603	105	75-125	0			
Methylene chloride	1300	20	47	1564	0	83.1	55-145	0			
o-Xylene	1540	18	47	1564	9.385	97.8	75-125	0			
Styrene	1548	19	47	1564	0	99	80-138	0			
Tetrachloroethene	2709	14	47	1564	0	173	67-167	0			S
Toluene	1496	13	47	1564	0	95.6	70-125	0			
trans-1,2-Dichloroethene	1536	17	47	1564	0	98.2	65-135	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129377** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	1151	26	47	1564	36.76	71.2	59-129	0	
Trichloroethene	2094	21	47	1564	0	134	75-125	0	S
Trichlorofluoromethane	926.7	24	47	1564	0	59.2	25-185	0	
Vinyl chloride	1419	10	47	1564	0	90.7	60-125	0	
Surr: 1,2-Dichloroethane-d4	*1413*	0	0	*1564*	0	*90.4*	*70-130*	0	
Surr: 4-Bromofluorobenzene	*1567*	0	0	*1564*	0	*100*	*70-130*	0	
Surr: Dibromofluoromethane	*1496*	0	0	*1564*	0	*95.6*	*70-130*	0	
Surr: Toluene-d8	*1599*	0	0	*1564*	0	*102*	*70-130*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129377** Instrument ID **VMS7** Method: **SW8260C**

MSD Sample ID: **1812811-03A MSD** Units: **µg/Kg-dry** Analysis Date: **12/18/2018 06:48 A**

Client ID: Run ID: **VMS7_181217B** SeqNo: **5444536** Prep Date: **12/13/2018** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1511	21	47	1564	0	96.6	70-135	1515	0.258	30	
1,1,2,2-Tetrachloroethane	1455	21	47	1564	0	93	55-130	935.3	43.5	30	R
1,1,2-Trichloroethane	1590	20	47	1564	0	102	60-125	1524	4.22	30	
1,1-Dichloroethane	1405	17	47	1564	0	89.8	75-125	1345	4.32	30	
1,1-Dichloroethene	1555	15	47	1564	0	99.4	76-148	1563	0.502	30	
1,2,3-Trichlorobenzene	1630	22	47	1564	0	104	60-135	1660	1.85	30	
1,2,4-Trichlorobenzene	1426	16	47	1564	17.99	90	65-130	1475	3.34	30	
1,2-Dibromo-3-chloropropane	1359	43	160	1564	0	86.9	40-135	1373	1.03	30	
1,2-Dibromoethane	1674	13	47	1564	0	107	80-195	1580	5.82	30	
1,2-Dichlorobenzene	1575	18	47	1564	0	101	75-120	1575	0	30	
1,2-Dichloroethane	1398	20	47	1564	0	89.4	70-135	1347	3.7	30	
1,2-Dichloropropane	1447	8.2	47	1564	0	92.5	70-120	1416	2.13	30	
1,3-Dichlorobenzene	1565	16	47	1564	0	100	70-125	1486	5.18	30	
1,4-Dichlorobenzene	1553	11	47	1564	0	99.3	70-125	1543	0.657	30	
2-Butanone	1961	39	310	1564	16.42	124	30-160	2175	10.4	30	
2-Hexanone	1721	23	47	1564	38.32	108	45-145	1794	4.18	30	
4-Methyl-2-pentanone	1884	22	47	1564	14.08	120	74-176	1585	17.2	30	
Acetone	2892	49	160	1564	11.73	184	20-160	2914	0.754	30	S
Benzene	1462	8	47	1564	0	93.5	75-125	1466	0.214	30	
Bromochloromethane	1554	24	47	1564	0	99.4	74-134	1499	3.59	30	
Bromodichloromethane	1344	26	47	1564	0	86	70-130	1322	1.64	30	
Bromoform	1356	20	47	1564	0	86.7	55-135	1257	7.6	30	
Bromomethane	1092	90	160	1564	0	69.8	50-170	1017	7.04	30	
Carbon disulfide	1361	24	47	1564	54.74	83.5	45-160	1383	1.65	30	
Carbon tetrachloride	1278	18	47	1564	0	81.7	65-135	1292	1.1	30	
Chlorobenzene	1502	16	47	1564	0	96	75-125	1459	2.9	30	
Chloroethane	48.49	16	160	1564	0	3.1	40-155	43.79	0	30	JS
Chloroform	1469	17	47	1564	0	93.9	70-125	1416	3.69	30	
Chloromethane	918.9	39	160	1564	23.46	57.2	50-144	860.3	6.59	30	
cis-1,2-Dichloroethene	1444	15	47	1564	0	92.3	65-125	1414	2.08	30	
cis-1,3-Dichloropropene	1266	17	47	1564	0	81	70-125	1279	0.983	30	
Dibromochloromethane	1247	26	47	1564	0	79.8	65-135	1165	6.81	30	
Dichlorodifluoromethane	1380	9.8	47	1564	0	88.2	35-135	1398	1.29	30	
Ethylbenzene	1524	9.9	47	1564	0	97.4	75-125	1468	3.76	30	
Isopropylbenzene	1615	14	47	1564	0	103	75-130	1455	10.4	30	
m,p-Xylene	3027	22	94	3128	0	96.8	80-125	3005	0.7	30	
Methyl tert-butyl ether	1630	14	47	1564	8.603	104	75-125	1650	1.24	30	
Methylene chloride	1339	20	47	1564	0	85.6	55-145	1300	2.96	30	
o-Xylene	1595	18	47	1564	9.385	101	75-125	1540	3.54	30	
Styrene	1643	19	47	1564	0	105	80-138	1548	5.98	30	
Tetrachloroethene	2921	14	47	1564	0	187	67-167	2709	7.53	30	S
Toluene	1460	13	47	1564	0	93.4	70-125	1496	2.43	30	
trans-1,2-Dichloroethene	1526	17	47	1564	0	97.6	65-135	1536	0.664	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **129377** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	1229	26	47	1564	36.76	76.2	59-129	1151	6.57	30
Trichloroethene	1724	21	47	1564	0	110	75-125	2094	19.3	30
Trichlorofluoromethane	1170	24	47	1564	0	74.8	25-185	926.7	23.2	30
Vinyl chloride	1488	10	47	1564	0	95.2	60-125	1419	4.79	30
Surr: 1,2-Dichloroethane-d4	*1410*	0	0	*1564*	0	*90.2*	*70-130*	1413	*0.222*	*30*
Surr: 4-Bromofluorobenzene	*1602*	0	0	*1564*	0	*102*	*70-130*	1567	*2.17*	*30*
Surr: Dibromofluoromethane	*1426*	0	0	*1564*	0	*91.2*	*70-130*	1496	*4.82*	*30*
Surr: Toluene-d8	*1538*	0	0	*1564*	0	*98.4*	*70-130*	1599	*3.84*	*30*

The following samples were analyzed in this batch: 1812740-22A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251685a** Instrument ID **VMS7** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-181219-R251685a** Units: **µg/L** Analysis Date: **12/19/2018 03:23 P**

Client ID: Run ID: **VMS7_181219A** SeqNo: **5449088** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.33	1.0								
1,1,2,2-Tetrachloroethane	U	0.17	1.0								
1,1,2-Trichloroethane	U	0.22	1.0								
1,1,2-Trichlorotrifluoroethane	U	0.18	1.0								
1,1-Dichloroethane	U	0.48	1.0								
1,1-Dichloroethene	U	0.36	1.0								
1,2,3-Trichlorobenzene	U	0.29	1.0								
1,2,4-Trichlorobenzene	U	0.25	1.0								
1,2-Dibromo-3-chloropropane	U	0.43	1.0								
1,2-Dibromoethane	U	0.17	1.0								
1,2-Dichlorobenzene	U	0.12	1.0								
1,2-Dichloroethane	U	0.11	1.0								
1,2-Dichloropropane	U	0.34	1.0								
1,3-Dichlorobenzene	U	0.13	1.0								
1,4-Dichlorobenzene	U	0.13	1.0								
2-Butanone	U	0.47	5.0								
2-Hexanone	U	0.5	5.0								
4-Methyl-2-pentanone	U	0.52	1.0								
Acetone	U	0.47	10								
Benzene	U	0.42	1.0								
Bromochloromethane	U	0.15	1.0								
Bromodichloromethane	U	0.22	1.0								
Bromoform	U	0.56	1.0								
Bromomethane	U	0.29	1.0								
Carbon disulfide	U	0.39	1.0								
Carbon tetrachloride	U	0.32	1.0								
Chlorobenzene	U	0.21	1.0								
Chloroethane	U	0.68	1.0								
Chloroform	U	0.46	1.0								
Chloromethane	U	0.68	1.0								
cis-1,2-Dichloroethene	U	0.38	1.0								
cis-1,3-Dichloropropene	U	0.13	1.0								
Cyclohexane	U	0.18	1.0								
Dibromochloromethane	U	0.2	1.0								
Dichlorodifluoromethane	U	0.3	1.0								
Ethylbenzene	U	0.29	1.0								
Isopropylbenzene	U	0.17	1.0								
m,p-Xylene	U	0.53	2.0								
Methyl acetate	U	0.26	2.0								
Methyl tert-butyl ether	U	0.21	1.0								
Methylcyclohexane	U	0.09	1.0								
Methylene chloride	U	0.16	5.0								
o-Xylene	U	0.19	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251685a** Instrument ID **VMS7** Method: **SW8260C**

Styrene	U	0.19	1.0					
Tetrachloroethene	U	0.28	1.0					
Toluene	U	0.32	1.0					
trans-1,2-Dichloroethene	U	0.48	1.0					
trans-1,3-Dichloropropene	U	0.15	1.0					
Trichloroethene	U	0.33	1.0					
Trichlorofluoromethane	U	0.24	1.0					
Vinyl chloride	U	0.53	1.0					
Surr: 1,2-Dichloroethane-d4	*21.3*	0	0	*20*	0	*106*	*75-120*	0
Surr: 4-Bromofluorobenzene	*18.82*	0	0	*20*	0	*94.1*	*80-110*	0
Surr: Dibromofluoromethane	*20.33*	0	0	*20*	0	*102*	*85-115*	0
Surr: Toluene-d8	*19.6*	0	0	*20*	0	*98*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251685a** Instrument ID **VMS7** Method: **SW8260C**

LCS Sample ID: **VLCSW1-181219-R251685a** Units: **µg/L** Analysis Date: **12/19/2018 01:22 P**

Client ID: Run ID: **VMS7_181219A** SeqNo: **5449087** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	24.96	0.33	1.0	20	0	125	75-130	0			
1,1,2,2-Tetrachloroethane	23.96	0.17	1.0	20	0	120	75-130	0			
1,1,2-Trichloroethane	23.64	0.22	1.0	20	0	118	75-125	0			
1,1-Dichloroethane	24.03	0.48	1.0	20	0	120	68-142	0			
1,1-Dichloroethene	24.34	0.36	1.0	20	0	122	70-145	0			
1,2,3-Trichlorobenzene	21.91	0.29	1.0	20	0	110	70-140	0			
1,2,4-Trichlorobenzene	22.45	0.25	1.0	20	0	112	70-135	0			
1,2-Dibromo-3-chloropropane	21.53	0.43	1.0	20	0	108	60-130	0			
1,2-Dibromoethane	25.98	0.17	1.0	20	0	130	67-155	0			
1,2-Dichlorobenzene	22.9	0.12	1.0	20	0	114	70-130	0			
1,2-Dichloroethane	23.34	0.11	1.0	20	0	117	78-125	0			
1,2-Dichloropropane	23.11	0.34	1.0	20	0	116	75-125	0			
1,3-Dichlorobenzene	22.88	0.13	1.0	20	0	114	75-130	0			
1,4-Dichlorobenzene	23.19	0.13	1.0	20	0	116	75-130	0			
2-Butanone	21.25	0.47	5.0	20	0	106	55-150	0			
2-Hexanone	20.98	0.5	5.0	20	0	105	60-135	0			
4-Methyl-2-pentanone	30.84	0.52	1.0	20	0	154	77-178	0			
Acetone	20.62	0.47	10	20	0	103	60-160	0			
Benzene	22.89	0.42	1.0	20	0	114	85-125	0			
Bromochloromethane	24.12	0.15	1.0	20	0	121	72-141	0			
Bromodichloromethane	23.93	0.22	1.0	20	0	120	75-125	0			
Bromoform	20.14	0.56	1.0	20	0	101	60-125	0			
Bromomethane	22.59	0.29	1.0	20	0	113	30-185	0			
Carbon disulfide	24.25	0.39	1.0	20	0	121	60-165	0			
Carbon tetrachloride	21.41	0.32	1.0	20	0	107	65-140	0			
Chlorobenzene	21.38	0.21	1.0	20	0	107	80-120	0			
Chloroethane	24.47	0.68	1.0	20	0	122	31-172	0			
Chloroform	23.42	0.46	1.0	20	0	117	80-130	0			
Chloromethane	19.14	0.68	1.0	20	0	95.7	46-148	0			
cis-1,2-Dichloroethene	23.54	0.38	1.0	20	0	118	75-134	0			
cis-1,3-Dichloropropene	22.32	0.13	1.0	20	0	112	70-130	0			
Dibromochloromethane	19.98	0.2	1.0	20	0	99.9	60-115	0			
Dichlorodifluoromethane	15.47	0.3	1.0	20	0	77.4	20-120	0			
Ethylbenzene	22.68	0.29	1.0	20	0	113	76-123	0			
Isopropylbenzene	22.72	0.17	1.0	20	0	114	80-127	0			
m,p-Xylene	45.77	0.53	2.0	40	0	114	75-130	0			
Methyl tert-butyl ether	23.83	0.21	1.0	20	0	119	68-129	0			
Methylene chloride	22.87	0.16	5.0	20	0	114	75-140	0			
o-Xylene	22.47	0.19	1.0	20	0	112	76-127	0			
Styrene	23.04	0.19	1.0	20	0	115	83-137	0			
Tetrachloroethene	23.5	0.28	1.0	20	0	118	68-166	0			
Toluene	22.4	0.32	1.0	20	0	112	76-125	0			
trans-1,2-Dichloroethene	24.51	0.48	1.0	20	0	123	80-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251685a** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	21.91	0.15	1.0	20	0	110	56-132	0
Trichloroethene	22.53	0.33	1.0	20	0	113	84-130	0
Trichlorofluoromethane	21.85	0.24	1.0	20	0	109	60-140	0
Vinyl chloride	21.73	0.53	1.0	20	0	109	50-136	0
Surr: 1,2-Dichloroethane-d4	*21.72*	0	0	*20*	0	*109*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.52*	0	0	*20*	0	*97.6*	*80-110*	0
Surr: Dibromofluoromethane	*21.54*	0	0	*20*	0	*108*	*85-115*	0
Surr: Toluene-d8	*20.41*	0	0	*20*	0	*102*	*85-110*	0

The following samples were analyzed in this batch: 1812740-21A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251685c** Instrument ID **VMS7** Method: **SW8260GRO**

MBLK Sample ID: **VBLKW1-181219-R251685c** Units: **µg/L** Analysis Date: **12/19/2018 03:23 P**

Client ID: Run ID: **VMS7_181219A** SeqNo: **5449807** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	25	100								
Surr: Toluene-d8	*17.77*	0	0	*20*	0	*88.8*	*70-120*	0			

LCS Sample ID: **VLCSW2-181219-R251685c** Units: **µg/L** Analysis Date: **12/19/2018 02:08 P**

Client ID: Run ID: **VMS7_181219A** SeqNo: **5449804** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	419.7	25	100	500	0	83.9	70-130	0			
Surr: Toluene-d8	*20.73*	0	0	*20*	0	*104*	*70-130*	0			

The following samples were analyzed in this batch: 1812740-21A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251763a** Instrument ID **VMS7** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-181220-R251763a** Units: **µg/L** Analysis Date: **12/20/2018 11:45 A**

Client ID: Run ID: **VMS7_181220A** SeqNo: **5450637** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.33	1.0								
1,1,2,2-Tetrachloroethane	U	0.17	1.0								
1,1,2-Trichloroethane	U	0.22	1.0								
1,1,2-Trichlorotrifluoroethane	U	0.18	1.0								
1,1-Dichloroethane	U	0.48	1.0								
1,1-Dichloroethene	U	0.36	1.0								
1,2,3-Trichlorobenzene	U	0.29	1.0								
1,2,4-Trichlorobenzene	U	0.25	1.0								
1,2-Dibromo-3-chloropropane	U	0.43	1.0								
1,2-Dibromoethane	U	0.17	1.0								
1,2-Dichlorobenzene	U	0.12	1.0								
1,2-Dichloroethane	U	0.11	1.0								
1,2-Dichloropropane	U	0.34	1.0								
1,3-Dichlorobenzene	U	0.13	1.0								
1,4-Dichlorobenzene	U	0.13	1.0								
2-Butanone	U	0.47	5.0								
2-Hexanone	U	0.5	5.0								
4-Methyl-2-pentanone	U	0.52	1.0								
Acetone	U	0.47	10								
Benzene	U	0.42	1.0								
Bromochloromethane	U	0.15	1.0								
Bromodichloromethane	U	0.22	1.0								
Bromoform	U	0.56	1.0								
Bromomethane	U	0.29	1.0								
Carbon disulfide	U	0.39	1.0								
Carbon tetrachloride	U	0.32	1.0								
Chlorobenzene	U	0.21	1.0								
Chloroethane	U	0.68	1.0								
Chloroform	U	0.46	1.0								
Chloromethane	U	0.68	1.0								
cis-1,2-Dichloroethene	U	0.38	1.0								
cis-1,3-Dichloropropene	U	0.13	1.0								
Cyclohexane	U	0.18	1.0								
Dibromochloromethane	U	0.2	1.0								
Dichlorodifluoromethane	U	0.3	1.0								
Ethylbenzene	U	0.29	1.0								
Isopropylbenzene	U	0.17	1.0								
m,p-Xylene	U	0.53	2.0								
Methyl acetate	U	0.26	2.0								
Methyl tert-butyl ether	U	0.21	1.0								
Methylcyclohexane	U	0.09	1.0								
Methylene chloride	U	0.16	5.0								
o-Xylene	U	0.19	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251763a** Instrument ID **VMS7** Method: **SW8260C**

Styrene	U	0.19	1.0					
Tetrachloroethene	U	0.28	1.0					
Toluene	U	0.32	1.0					
trans-1,2-Dichloroethene	U	0.48	1.0					
trans-1,3-Dichloropropene	U	0.15	1.0					
Trichloroethene	U	0.33	1.0					
Trichlorofluoromethane	U	0.24	1.0					
Vinyl chloride	U	0.53	1.0					
Surr: 1,2-Dichloroethane-d4	*20.09*	0	0	*20*	0	*100*	*75-120*	0
Surr: 4-Bromofluorobenzene	*17.06*	0	0	*20*	0	*85.3*	*80-110*	0
Surr: Dibromofluoromethane	*20.29*	0	0	*20*	0	*101*	*85-115*	0
Surr: Toluene-d8	*19.34*	0	0	*20*	0	*96.7*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251763a** Instrument ID **VMS7** Method: **SW8260C**

LCS Sample ID: **VLCSW1-181220-R251763a** Units: **µg/L** Analysis Date: **12/20/2018 10:59 A**

Client ID: Run ID: **VMS7_181220A** SeqNo: **5450633** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.21	0.33	1.0	20	0	106	75-130	0			
1,1,2,2-Tetrachloroethane	23.97	0.17	1.0	20	0	120	75-130	0			
1,1,2-Trichloroethane	22.22	0.22	1.0	20	0	111	75-125	0			
1,1-Dichloroethane	20.22	0.48	1.0	20	0	101	68-142	0			
1,1-Dichloroethene	19.89	0.36	1.0	20	0	99.4	70-145	0			
1,2,3-Trichlorobenzene	20.5	0.29	1.0	20	0	102	70-140	0			
1,2,4-Trichlorobenzene	20.64	0.25	1.0	20	0	103	70-135	0			
1,2-Dibromo-3-chloropropane	20.58	0.43	1.0	20	0	103	60-130	0			
1,2-Dibromoethane	24.71	0.17	1.0	20	0	124	67-155	0			
1,2-Dichlorobenzene	21.24	0.12	1.0	20	0	106	70-130	0			
1,2-Dichloroethane	19.97	0.11	1.0	20	0	99.8	78-125	0			
1,2-Dichloropropane	19.86	0.34	1.0	20	0	99.3	75-125	0			
1,3-Dichlorobenzene	21.47	0.13	1.0	20	0	107	75-130	0			
1,4-Dichlorobenzene	21.79	0.13	1.0	20	0	109	75-130	0			
2-Butanone	18.11	0.47	5.0	20	0	90.6	55-150	0			
2-Hexanone	19.22	0.5	5.0	20	0	96.1	60-135	0			
4-Methyl-2-pentanone	28.6	0.52	1.0	20	0	143	77-178	0			
Acetone	17.26	0.47	10	20	0	86.3	60-160	0			
Benzene	19.96	0.42	1.0	20	0	99.8	85-125	0			
Bromochloromethane	20.8	0.15	1.0	20	0	104	72-141	0			
Bromodichloromethane	20.9	0.22	1.0	20	0	104	75-125	0			
Bromoform	20	0.56	1.0	20	0	100	60-125	0			
Bromomethane	21.28	0.29	1.0	20	0	106	30-185	0			
Carbon disulfide	20.57	0.39	1.0	20	0	103	60-165	0			
Carbon tetrachloride	18.39	0.32	1.0	20	0	92	65-140	0			
Chlorobenzene	19.56	0.21	1.0	20	0	97.8	80-120	0			
Chloroethane	19.11	0.68	1.0	20	0	95.6	31-172	0			
Chloroform	20.28	0.46	1.0	20	0	101	80-130	0			
Chloromethane	12.82	0.68	1.0	20	0	64.1	46-148	0			
cis-1,2-Dichloroethene	19.75	0.38	1.0	20	0	98.8	75-134	0			
cis-1,3-Dichloropropene	19.63	0.13	1.0	20	0	98.2	70-130	0			
Dibromochloromethane	19.6	0.2	1.0	20	0	98	60-115	0			
Dichlorodifluoromethane	11.42	0.3	1.0	20	0	57.1	20-120	0			
Ethylbenzene	20.13	0.29	1.0	20	0	101	76-123	0			
Isopropylbenzene	21.15	0.17	1.0	20	0	106	80-127	0			
m,p-Xylene	41.03	0.53	2.0	40	0	103	75-130	0			
Methyl tert-butyl ether	20.86	0.21	1.0	20	0	104	68-129	0			
Methylene chloride	19.22	0.16	5.0	20	0	96.1	75-140	0			
o-Xylene	20.59	0.19	1.0	20	0	103	76-127	0			
Styrene	22	0.19	1.0	20	0	110	83-137	0			
Tetrachloroethene	22.64	0.28	1.0	20	0	113	68-166	0			
Toluene	21.14	0.32	1.0	20	0	106	76-125	0			
trans-1,2-Dichloroethene	20.78	0.48	1.0	20	0	104	80-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R251763a** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	20.34	0.15	1.0	20	0	102	56-132	0
Trichloroethene	20.16	0.33	1.0	20	0	101	84-130	0
Trichlorofluoromethane	17.59	0.24	1.0	20	0	88	60-140	0
Vinyl chloride	15.15	0.53	1.0	20	0	75.8	50-136	0
Surr: 1,2-Dichloroethane-d4	*19.25*	0	0	*20*	0	*96.2*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.96*	0	0	*20*	0	*105*	*80-110*	0
Surr: Dibromofluoromethane	*20.63*	0	0	*20*	0	*103*	*85-115*	0
Surr: Toluene-d8	*20.74*	0	0	*20*	0	*104*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251763a** Instrument ID **VMS7** Method: **SW8260C**

MS Sample ID: **18121130-01B MS** Units: **µg/L** Analysis Date: **12/20/2018 07:17 P**

Client ID: Run ID: **VMS7_181220A** SeqNo: **5452148** Prep Date: DF: **20**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	493	6.6	20	400	0	123	75-130	0			
1,1,2,2-Tetrachloroethane	U	3.4	20	400	0	0	75-130	0			S
1,1,2-Trichloroethane	421.6	4.4	20	400	0	105	75-125	0			
1,1-Dichloroethane	414.8	9.6	20	400	0	104	68-142	0			
1,1-Dichloroethene	447.8	7.2	20	400	0	112	70-145	0			
1,2,3-Trichlorobenzene	416.6	5.8	20	400	0	104	70-140	0			
1,2,4-Trichlorobenzene	408	5	20	400	0	102	70-135	0			
1,2-Dibromo-3-chloropropane	407.8	8.6	20	400	0	102	60-130	0			
1,2-Dibromoethane	460.4	3.4	20	400	0	115	67-155	0			
1,2-Dichlorobenzene	420	2.4	20	400	0	105	70-130	0			
1,2-Dichloroethane	413	2.2	20	400	0	103	78-125	0			
1,2-Dichloropropane	425.2	6.8	20	400	0	106	75-125	0			
1,3-Dichlorobenzene	422.6	2.6	20	400	0	106	75-130	0			
1,4-Dichlorobenzene	430.6	2.6	20	400	0	108	75-130	0			
2-Butanone	537.2	9.4	100	400	0	134	55-150	0			
2-Hexanone	406.8	10	100	400	0	102	60-135	0			
4-Methyl-2-pentanone	356.8	10	20	400	13	86	77-178	0			
Acetone	790.6	9.4	200	400	28.6	190	60-160	0			S
Benzene	1239	8.4	20	400	840.2	99.7	85-125	0			
Bromochloromethane	411.8	3	20	400	0	103	72-141	0			
Bromodichloromethane	433	4.4	20	400	0	108	75-125	0			
Bromoform	394.6	11	20	400	0	98.6	60-125	0			
Bromomethane	U	5.8	20	400	0	0	30-185	0			S
Carbon disulfide	452	7.8	20	400	0	113	60-165	0			
Carbon tetrachloride	429.8	6.4	20	400	0	107	65-140	0			
Chlorobenzene	408.6	4.2	20	400	0	102	80-120	0			
Chloroethane	434.6	14	20	400	0	109	31-172	0			
Chloroform	425.8	9.2	20	400	0	106	80-130	0			
Chloromethane	250	14	20	400	0	62.5	46-148	0			
cis-1,2-Dichloroethene	400.8	7.6	20	400	0	100	75-134	0			
cis-1,3-Dichloropropene	381.6	2.6	20	400	0	95.4	70-130	0			
Dibromochloromethane	383	4	20	400	0	95.8	60-115	0			
Dichlorodifluoromethane	343.6	6	20	400	0	85.9	20-120	0			
Ethylbenzene	439.4	5.8	20	400	17.4	106	76-123	0			
Isopropylbenzene	392	3.4	20	400	0	98	80-127	0			
m,p-Xylene	873.2	11	40	800	24.4	106	75-130	0			
Methyl tert-butyl ether	398	4.2	20	400	0	99.5	68-129	0			
Methylene chloride	391.4	3.2	100	400	0	97.8	75-140	0			
o-Xylene	433	3.8	20	400	12.4	105	76-127	0			
Styrene	444	3.8	20	400	1.6	111	83-137	0			
Tetrachloroethene	850.6	5.6	20	400	0	213	68-166	0			S
Toluene	432	6.4	20	400	17	104	76-125	0			
trans-1,2-Dichloroethene	417	9.6	20	400	0	104	80-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251763a** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	370.2	3	20	400	0	92.6	56-132	0	
Trichloroethene	848	6.6	20	400	0	212	84-130	0	S
Trichlorofluoromethane	394.2	4.8	20	400	0	98.6	60-140	0	
Vinyl chloride	308.6	11	20	400	0	77.2	50-136	0	
Surr: 1,2-Dichloroethane-d4	*392*	0	0	*400*	0	*98*	*75-120*	0	
Surr: 4-Bromofluorobenzene	*359.2*	0	0	*400*	0	*89.8*	*80-110*	0	
Surr: Dibromofluoromethane	*395.8*	0	0	*400*	0	*99*	*85-115*	0	
Surr: Toluene-d8	*384.8*	0	0	*400*	0	*96.2*	*85-110*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251763a** Instrument ID **VMS7** Method: **SW8260C**

MSD Sample ID: **18121130-01B MSD** Units: **µg/L** Analysis Date: **12/20/2018 07:33 P**

Client ID: Run ID: **VMS7_181220A** SeqNo: **5452151** Prep Date: DF: **20**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	411	6.6	20	400	0	103	75-130	493	18.1	30	
1,1,2,2-Tetrachloroethane	U	3.4	20	400	0	0	75-130	1.8	0	30	S
1,1,2-Trichloroethane	425.8	4.4	20	400	0	106	75-125	421.6	0.991	30	
1,1-Dichloroethane	381.4	9.6	20	400	0	95.4	68-142	414.8	8.39	30	
1,1-Dichloroethene	405.4	7.2	20	400	0	101	70-145	447.8	9.94	30	
1,2,3-Trichlorobenzene	384.4	5.8	20	400	0	96.1	70-140	416.6	8.04	30	
1,2,4-Trichlorobenzene	422.2	5	20	400	0	106	70-135	408	3.42	30	
1,2-Dibromo-3-chloropropane	416	8.6	20	400	0	104	60-130	407.8	1.99	30	
1,2-Dibromoethane	475.4	3.4	20	400	0	119	67-155	460.4	3.21	30	
1,2-Dichlorobenzene	398.8	2.4	20	400	0	99.7	70-130	420	5.18	30	
1,2-Dichloroethane	367	2.2	20	400	0	91.8	78-125	413	11.8	30	
1,2-Dichloropropane	371.8	6.8	20	400	0	93	75-125	425.2	13.4	30	
1,3-Dichlorobenzene	405	2.6	20	400	0	101	75-130	422.6	4.25	30	
1,4-Dichlorobenzene	406	2.6	20	400	0	102	75-130	430.6	5.88	30	
2-Butanone	551.2	9.4	100	400	0	138	55-150	537.2	2.57	30	
2-Hexanone	436	10	100	400	0	109	60-135	406.8	6.93	30	
4-Methyl-2-pentanone	393.6	10	20	400	13	95.2	77-178	356.8	9.81	30	
Acetone	842.2	9.4	200	400	28.6	203	60-160	790.6	6.32	30	S
Benzene	1216	8.4	20	400	840.2	93.8	85-125	1239	1.91	30	
Bromochloromethane	397	3	20	400	0	99.2	72-141	411.8	3.66	30	
Bromodichloromethane	392.6	4.4	20	400	0	98.2	75-125	433	9.79	30	
Bromoform	393.6	11	20	400	0	98.4	60-125	394.6	0.254	30	
Bromomethane	3954	5.8	20	400	0	988	30-185	0	200	30	SRE
Carbon disulfide	399	7.8	20	400	0	99.8	60-165	452	12.5	30	
Carbon tetrachloride	364.8	6.4	20	400	0	91.2	65-140	429.8	16.4	30	
Chlorobenzene	384	4.2	20	400	0	96	80-120	408.6	6.21	30	
Chloroethane	373	14	20	400	0	93.2	31-172	434.6	15.3	30	
Chloroform	385.8	9.2	20	400	0	96.4	80-130	425.8	9.86	30	
Chloromethane	243.4	14	20	400	0	60.8	46-148	250	2.68	30	
cis-1,2-Dichloroethene	375.2	7.6	20	400	0	93.8	75-134	400.8	6.6	30	
cis-1,3-Dichloropropene	346	2.6	20	400	0	86.5	70-130	381.6	9.79	30	
Dibromochloromethane	365.8	4	20	400	0	91.4	60-115	383	4.59	30	
Dichlorodifluoromethane	304	6	20	400	0	76	20-120	343.6	12.2	30	
Ethylbenzene	414.4	5.8	20	400	17.4	99.2	76-123	439.4	5.86	30	
Isopropylbenzene	402.4	3.4	20	400	0	101	80-127	392	2.62	30	
m,p-Xylene	830	11	40	800	24.4	101	75-130	873.2	5.07	30	
Methyl tert-butyl ether	393	4.2	20	400	0	98.2	68-129	398	1.26	30	
Methylene chloride	383.4	3.2	100	400	0	95.8	75-140	391.4	2.07	30	
o-Xylene	415.6	3.8	20	400	12.4	101	76-127	433	4.1	30	
Styrene	423.2	3.8	20	400	1.6	105	83-137	444	4.8	30	
Tetrachloroethene	739.6	5.6	20	400	0	185	68-166	850.6	14	30	S
Toluene	398.4	6.4	20	400	17	95.4	76-125	432	8.09	30	
trans-1,2-Dichloroethene	386.4	9.6	20	400	0	96.6	80-140	417	7.62	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251763a** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	373.6	3	20	400	0	93.4	56-132	370.2	0.914	30	
Trichloroethene	779.2	6.6	20	400	0	195	84-130	848	8.46	30	S
Trichlorofluoromethane	352.6	4.8	20	400	0	88.2	60-140	394.2	11.1	30	
Vinyl chloride	285.2	11	20	400	0	71.3	50-136	308.6	7.88	30	
Surr: 1,2-Dichloroethane-d4	*381.2*	0	0	*400*	0	*95.3*	*75-120*	392	*2.79*	*30*	
Surr: 4-Bromofluorobenzene	*407.6*	0	0	*400*	0	*102*	*80-110*	359.2	*12.6*	*30*	
Surr: Dibromofluoromethane	*367.2*	0	0	*400*	0	*91.8*	*85-115*	395.8	*7.5*	*30*	
Surr: Toluene-d8	*396.2*	0	0	*400*	0	*99*	*85-110*	384.8	*2.92*	*30*	

The following samples were analyzed in this batch: 1812740-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251775a** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKS1-181220-R251775a** Units: **µg/Kg** Analysis Date: **12/20/2018 01:12 P**

Client ID: Run ID: **VMS10_181220A** SeqNo: **5453362** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.79	5.0								
1,1,2,2-Tetrachloroethane	U	0.27	5.0								
1,1,2-Trichloroethane	U	0.39	5.0								
1,1,2-Trichlorotrifluoroethane	U	1.1	5.0								
1,1-Dichloroethane	U	2.1	5.0								
1,1-Dichloroethene	U	0.98	5.0								
1,2,3-Trichlorobenzene	U	0.62	5.0								
1,2,4-Trichlorobenzene	U	0.73	5.0								
1,2-Dibromo-3-chloropropane	U	1.4	5.0								
1,2-Dibromoethane	U	0.36	5.0								
1,2-Dichlorobenzene	U	0.63	5.0								
1,2-Dichloroethane	U	0.36	5.0								
1,2-Dichloropropane	U	0.44	5.0								
1,3-Dichlorobenzene	U	0.52	5.0								
1,4-Dichlorobenzene	U	0.36	5.0								
2-Butanone	U	1.9	10								
2-Hexanone	U	0.98	5.0								
4-Methyl-2-pentanone	U	0.81	5.0								
Acetone	U	2.1	10								
Benzene	U	0.52	5.0								
Bromochloromethane	U	0.49	5.0								
Bromodichloromethane	U	0.32	5.0								
Bromoform	U	0.31	5.0								
Bromomethane	U	0.72	10								
Carbon disulfide	U	0.56	5.0								
Carbon tetrachloride	U	0.83	5.0								
Chlorobenzene	U	0.32	5.0								
Chloroethane	U	0.63	5.0								
Chloroform	U	0.3	5.0								
Chloromethane	U	0.46	10								
cis-1,2-Dichloroethene	U	0.48	5.0								
cis-1,3-Dichloropropene	U	0.26	5.0								
Cyclohexane	U	3	10								
Dibromochloromethane	U	0.47	5.0								
Dichlorodifluoromethane	U	1.1	10								
Ethylbenzene	U	0.6	5.0								
Isopropylbenzene	U	0.64	5.0								
m,p-Xylene	U	1.2	2.5								
Methyl acetate	U	1.2	10								
Methyl tert-butyl ether	U	0.23	5.0								
Methylcyclohexane	U	1.5	10								
Methylene chloride	U	0.86	5.0								
o-Xylene	U	0.47	2.5								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251775a** Instrument ID **VMS10** Method: **SW8260C**

Styrene	U	0.4	5.0					
Tetrachloroethene	U	0.89	5.0					
Toluene	U	0.56	5.0					
trans-1,2-Dichloroethene	U	0.4	5.0					
trans-1,3-Dichloropropene	U	0.29	5.0					
Trichloroethene	U	0.72	5.0					
Trichlorofluoromethane	U	0.71	5.0					
Vinyl chloride	U	0.7	5.0					
Surr: 1,2-Dichloroethane-d4	*21.81*	0	0	*20*	0	*109*	*83-132*	0
Surr: 4-Bromofluorobenzene	*18.38*	0	0	*20*	0	*91.9*	*83-111*	0
Surr: Dibromofluoromethane	*20.91*	0	0	*20*	0	*105*	*77-125*	0
Surr: Toluene-d8	*19.46*	0	0	*20*	0	*97.3*	*86-108*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251775a** Instrument ID **VMS10** Method: **SW8260C**

LCS Sample ID: **VLCSS2-181220-R251775a** Units: **µg/Kg** Analysis Date: **12/20/2018 12:29 P**

Client ID: Run ID: **VMS10_181220A** SeqNo: **5453361** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.45	0.79	5.0	20	0	102	73-138	0			
1,1,2,2-Tetrachloroethane	20.65	0.27	5.0	20	0	103	71-126	0			
1,1,2-Trichloroethane	19.38	0.39	5.0	20	0	96.9	77-123	0			
1,1-Dichloroethane	22.21	2.1	5.0	20	0	111	63-148	0			
1,1-Dichloroethene	23.35	0.98	5.0	20	0	117	67-156	0			
1,2,3-Trichlorobenzene	20.16	0.62	5.0	20	0	101	73-129	0			
1,2,4-Trichlorobenzene	19.64	0.73	5.0	20	0	98.2	70-132	0			
1,2-Dibromo-3-chloropropane	17.67	1.4	5.0	20	0	88.4	48-127	0			
1,2-Dibromoethane	22.24	0.36	5.0	20	0	111	71-144	0			
1,2-Dichlorobenzene	21.11	0.63	5.0	20	0	106	77-127	0			
1,2-Dichloroethane	21.2	0.36	5.0	20	0	106	77-127	0			
1,2-Dichloropropane	22.02	0.44	5.0	20	0	110	74-130	0			
1,3-Dichlorobenzene	20.14	0.52	5.0	20	0	101	75-133	0			
1,4-Dichlorobenzene	20.14	0.36	5.0	20	0	101	74-130	0			
2-Butanone	14.3	1.9	10	20	0	71.5	55-132	0			
2-Hexanone	17.99	0.98	5.0	20	0	90	55-124	0			
4-Methyl-2-pentanone	25.21	0.81	5.0	20	0	126	67-159	0			
Acetone	12.89	2.1	10	20	0	64.4	31-156	0			
Benzene	21.59	0.52	5.0	20	0	108	77-133	0			
Bromochloromethane	24.42	0.49	5.0	20	0	122	72-139	0			
Bromodichloromethane	19.84	0.32	5.0	20	0	99.2	69-133	0			
Bromoform	17.52	0.31	5.0	20	0	87.6	55-126	0			
Bromomethane	20.68	0.72	10	20	0	103	31-174	0			
Carbon disulfide	21.96	0.56	5.0	20	0	110	45-160	0			
Carbon tetrachloride	20.45	0.83	5.0	20	0	102	69-140	0			
Chlorobenzene	19.2	0.32	5.0	20	0	96	76-130	0			
Chloroethane	37.91	0.63	5.0	20	0	190	53-150	0			S
Chloroform	21.8	0.3	5.0	20	0	109	72-132	0			
Chloromethane	22.57	0.46	10	20	0	113	43-150	0			
cis-1,2-Dichloroethene	22.48	0.48	5.0	20	0	112	74-134	0			
cis-1,3-Dichloropropene	21.84	0.26	5.0	20	0	109	62-134	0			
Dibromochloromethane	17.23	0.47	5.0	20	0	86.2	57-118	0			
Dichlorodifluoromethane	12.57	1.1	10	20	0	62.8	43-126	0			
Ethylbenzene	20.26	0.6	5.0	20	0	101	75-133	0			
Isopropylbenzene	18.32	0.64	5.0	20	0	91.6	74-137	0			
m,p-Xylene	45.37	1.2	2.5	40	0	113	75-134	0			
Methyl tert-butyl ether	21.29	0.23	5.0	20	0	106	62-136	0			
Methylene chloride	23.71	0.86	5.0	20	0	119	55-157	0			
o-Xylene	19.94	0.47	2.5	20	0	99.7	76-130	0			
Styrene	20.65	0.4	5.0	20	0	103	72-138	0			
Tetrachloroethene	21.33	0.89	5.0	20	0	107	70-171	0			
Toluene	19.8	0.56	5.0	20	0	99	76-130	0			
trans-1,2-Dichloroethene	23.73	0.4	5.0	20	0	119	65-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251775a** Instrument ID **VMS10** Method: **SW8260C**

trans-1,3-Dichloropropene	19.71	0.29	5.0	20	0	98.6	58-126	0
Trichloroethene	20.13	0.72	5.0	20	0	101	75-135	0
Trichlorofluoromethane	19.56	0.71	5.0	20	0	97.8	62-136	0
Vinyl chloride	22.71	0.7	5.0	20	0	114	57-143	0
Surr: 1,2-Dichloroethane-d4	*20.46*	0	0	*20*	0	*102*	*83-132*	0
Surr: 4-Bromofluorobenzene	*21.54*	0	0	*20*	0	*108*	*83-111*	0
Surr: Dibromofluoromethane	*19.53*	0	0	*20*	0	*97.6*	*77-125*	0
Surr: Toluene-d8	*19.87*	0	0	*20*	0	*99.4*	*86-108*	0

The following samples were analyzed in this batch:

1812740-01A	1812740-02A	1812740-03A
1812740-11A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251895** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKS1-181221-R251895** Units: **µg/Kg** Analysis Date: **12/21/2018 03:40 P**

Client ID: Run ID: **VMS10_181221A** SeqNo: **5454014** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.79	5.0								
1,1,2,2-Tetrachloroethane	U	0.27	5.0								
1,1,2-Trichloroethane	U	0.39	5.0								
1,1,2-Trichlorotrifluoroethane	U	1.1	5.0								
1,1-Dichloroethane	U	2.1	5.0								
1,1-Dichloroethene	U	0.98	5.0								
1,2,3-Trichlorobenzene	U	0.62	5.0								
1,2,4-Trichlorobenzene	U	0.73	5.0								
1,2-Dibromo-3-chloropropane	U	1.4	5.0								
1,2-Dibromoethane	U	0.36	5.0								
1,2-Dichlorobenzene	U	0.63	5.0								
1,2-Dichloroethane	U	0.36	5.0								
1,2-Dichloropropane	U	0.44	5.0								
1,3-Dichlorobenzene	U	0.52	5.0								
1,4-Dichlorobenzene	U	0.36	5.0								
2-Butanone	U	1.9	10								
2-Hexanone	U	0.98	5.0								
4-Methyl-2-pentanone	U	0.81	5.0								
Acetone	U	2.1	10								
Benzene	U	0.52	5.0								
Bromochloromethane	U	0.49	5.0								
Bromodichloromethane	U	0.32	5.0								
Bromoform	U	0.31	5.0								
Bromomethane	U	0.72	10								
Carbon disulfide	U	0.56	5.0								
Carbon tetrachloride	U	0.83	5.0								
Chlorobenzene	U	0.32	5.0								
Chloroethane	U	0.63	5.0								
Chloroform	U	0.3	5.0								
Chloromethane	U	0.46	10								
cis-1,2-Dichloroethene	U	0.48	5.0								
cis-1,3-Dichloropropene	U	0.26	5.0								
Cyclohexane	U	3	10								
Dibromochloromethane	U	0.47	5.0								
Dichlorodifluoromethane	U	1.1	10								
Ethylbenzene	U	0.6	5.0								
Isopropylbenzene	U	0.64	5.0								
m,p-Xylene	U	1.2	2.5								
Methyl acetate	U	1.2	10								
Methyl tert-butyl ether	U	0.23	5.0								
Methylcyclohexane	U	1.5	10								
Methylene chloride	U	0.86	5.0								
o-Xylene	U	0.47	2.5								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R251895** Instrument ID **VMS10** Method: **SW8260C**

Styrene	U	0.4	5.0					
Tetrachloroethene	U	0.89	5.0					
Toluene	U	0.56	5.0					
trans-1,2-Dichloroethene	U	0.4	5.0					
trans-1,3-Dichloropropene	U	0.29	5.0					
Trichloroethene	U	0.72	5.0					
Trichlorofluoromethane	U	0.71	5.0					
Vinyl chloride	U	0.7	5.0					
Surr: 1,2-Dichloroethane-d4	*20.7*	0	0	*20*	0	*104*	*83-132*	0
Surr: 4-Bromofluorobenzene	*18.44*	0	0	*20*	0	*92.2*	*83-111*	0
Surr: Dibromofluoromethane	*19.69*	0	0	*20*	0	*98.4*	*77-125*	0
Surr: Toluene-d8	*18.99*	0	0	*20*	0	*95*	*86-108*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251895** Instrument ID **VMS10** Method: **SW8260C**

LCS Sample ID: **VLCSS2-181221-R251895** Units: **µg/Kg** Analysis Date: **12/21/2018 02:19 P**

Client ID: Run ID: **VMS10_181221A** SeqNo: **5454013** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.23	0.79	5.0	20	0	106	73-138	0			
1,1,2,2-Tetrachloroethane	19.9	0.27	5.0	20	0	99.5	71-126	0			
1,1,2-Trichloroethane	19.85	0.39	5.0	20	0	99.2	77-123	0			
1,1-Dichloroethane	22.6	2.1	5.0	20	0	113	63-148	0			
1,1-Dichloroethene	23.33	0.98	5.0	20	0	117	67-156	0			
1,2,3-Trichlorobenzene	21.67	0.62	5.0	20	0	108	73-129	0			
1,2,4-Trichlorobenzene	19.84	0.73	5.0	20	0	99.2	70-132	0			
1,2-Dibromo-3-chloropropane	17.09	1.4	5.0	20	0	85.4	48-127	0			
1,2-Dibromoethane	23.68	0.36	5.0	20	0	118	71-144	0			
1,2-Dichlorobenzene	20.33	0.63	5.0	20	0	102	77-127	0			
1,2-Dichloroethane	21.38	0.36	5.0	20	0	107	77-127	0			
1,2-Dichloropropane	21.48	0.44	5.0	20	0	107	74-130	0			
1,3-Dichlorobenzene	20.08	0.52	5.0	20	0	100	75-133	0			
1,4-Dichlorobenzene	19.79	0.36	5.0	20	0	99	74-130	0			
2-Butanone	13.52	1.9	10	20	0	67.6	55-132	0			
2-Hexanone	20.73	0.98	5.0	20	0	104	55-124	0			
4-Methyl-2-pentanone	26.51	0.81	5.0	20	0	133	67-159	0			
Acetone	14.78	2.1	10	20	0	73.9	31-156	0			
Benzene	21.52	0.52	5.0	20	0	108	77-133	0			
Bromochloromethane	23.25	0.49	5.0	20	0	116	72-139	0			
Bromodichloromethane	19.47	0.32	5.0	20	0	97.4	69-133	0			
Bromoform	17.17	0.31	5.0	20	0	85.8	55-126	0			
Bromomethane	24.76	0.72	10	20	0	124	31-174	0			
Carbon disulfide	22.61	0.56	5.0	20	0	113	45-160	0			
Carbon tetrachloride	19.95	0.83	5.0	20	0	99.8	69-140	0			
Chlorobenzene	20.06	0.32	5.0	20	0	100	76-130	0			
Chloroethane	37.6	0.63	5.0	20	0	188	53-150	0			S
Chloroform	22.04	0.3	5.0	20	0	110	72-132	0			
Chloromethane	20.52	0.46	10	20	0	103	43-150	0			
cis-1,2-Dichloroethene	22.67	0.48	5.0	20	0	113	74-134	0			
cis-1,3-Dichloropropene	21.97	0.26	5.0	20	0	110	62-134	0			
Dibromochloromethane	17.66	0.47	5.0	20	0	88.3	57-118	0			
Dichlorodifluoromethane	15.88	1.1	10	20	0	79.4	43-126	0			
Ethylbenzene	21.17	0.6	5.0	20	0	106	75-133	0			
Isopropylbenzene	19.45	0.64	5.0	20	0	97.2	74-137	0			
m,p-Xylene	47.52	1.2	2.5	40	0	119	75-134	0			
Methyl tert-butyl ether	24.27	0.23	5.0	20	0	121	62-136	0			
Methylene chloride	24.16	0.86	5.0	20	0	121	55-157	0			
o-Xylene	20.8	0.47	2.5	20	0	104	76-130	0			
Styrene	21.37	0.4	5.0	20	0	107	72-138	0			
Tetrachloroethene	22.27	0.89	5.0	20	0	111	70-171	0			
Toluene	20.3	0.56	5.0	20	0	102	76-130	0			
trans-1,2-Dichloroethene	23.14	0.4	5.0	20	0	116	65-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R251895** Instrument ID **VMS10** Method: **SW8260C**

trans-1,3-Dichloropropene	19.52	0.29	5.0	20	0	97.6	58-126	0
Trichloroethene	19.9	0.72	5.0	20	0	99.5	75-135	0
Trichlorofluoromethane	21.85	0.71	5.0	20	0	109	62-136	0
Vinyl chloride	23.8	0.7	5.0	20	0	119	57-143	0
Surr: 1,2-Dichloroethane-d4	*19.66*	0	0	*20*	0	*98.3*	*83-132*	0
Surr: 4-Bromofluorobenzene	*21.17*	0	0	*20*	0	*106*	*83-111*	0
Surr: Dibromofluoromethane	*18.8*	0	0	*20*	0	*94*	*77-125*	0
Surr: Toluene-d8	*20.58*	0	0	*20*	0	*103*	*86-108*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251895** Instrument ID **VMS10** Method: **SW8260C**

MS Sample ID: **1812740-05A MS** Units: **µg/Kg** Analysis Date: **12/21/2018 11:22 P**

Client ID: **B-3 (0-2)** Run ID: **VMS10_181221A** SeqNo: **5454021** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.14	0.79	5.0	20	0	80.7	73-138	0			
1,1,2,2-Tetrachloroethane	16.75	0.27	5.0	20	0	83.8	71-126	0			
1,1,2-Trichloroethane	16.49	0.39	5.0	20	0	82.4	77-123	0			
1,1-Dichloroethane	18.81	2.1	5.0	20	0	94	63-148	0			
1,1-Dichloroethene	18.98	0.98	5.0	20	0	94.9	67-156	0			
1,2,3-Trichlorobenzene	7.2	0.62	5.0	20	0	36	73-129	0			S
1,2,4-Trichlorobenzene	6.98	0.73	5.0	20	0	34.9	70-132	0			S
1,2-Dibromo-3-chloropropane	13.04	1.4	5.0	20	0	65.2	48-127	0			
1,2-Dibromoethane	17.67	0.36	5.0	20	0	88.4	71-144	0			
1,2-Dichlorobenzene	10.83	0.63	5.0	20	0	54.2	77-127	0			S
1,2-Dichloroethane	17.53	0.36	5.0	20	0	87.6	77-127	0			
1,2-Dichloropropane	17.37	0.44	5.0	20	0	86.8	74-130	0			
1,3-Dichlorobenzene	10.35	0.52	5.0	20	0	51.8	75-133	0			S
1,4-Dichlorobenzene	10.62	0.36	5.0	20	0	53.1	74-130	0			S
2-Butanone	16.16	1.9	10	20	11.33	24.2	55-132	0			S
2-Hexanone	9.02	0.98	5.0	20	0	45.1	55-124	0			S
4-Methyl-2-pentanone	13.94	0.81	5.0	20	0	69.7	67-159	0			
Acetone	380.1	2.1	10	20	113.4	1330	31-156	0			SEO
Benzene	16.24	0.52	5.0	20	0	81.2	77-133	0			
Bromochloromethane	22.05	0.49	5.0	20	0	110	72-139	0			
Bromodichloromethane	15.21	0.32	5.0	20	0	76	69-133	0			
Bromoform	13.04	0.31	5.0	20	0	65.2	55-126	0			
Bromomethane	17.25	0.72	10	20	0	86.2	31-174	0			
Carbon disulfide	18.19	0.56	5.0	20	0	91	45-160	0			
Carbon tetrachloride	14.43	0.83	5.0	20	0	72.2	69-140	0			
Chlorobenzene	12.99	0.32	5.0	20	0	65	76-130	0			S
Chloroethane	24.83	0.63	5.0	20	0	124	53-150	0			
Chloroform	18.2	0.3	5.0	20	0	91	72-132	0			
Chloromethane	14.6	0.46	10	20	0	73	43-150	0			
cis-1,2-Dichloroethene	17.41	0.48	5.0	20	0	87	74-134	0			
cis-1,3-Dichloropropene	13.22	0.26	5.0	20	0	66.1	62-134	0			
Dibromochloromethane	13.52	0.47	5.0	20	0	67.6	57-118	0			
Dichlorodifluoromethane	12.76	1.1	10	20	0	63.8	43-126	0			
Ethylbenzene	13.64	0.6	5.0	20	0	68.2	75-133	0			S
Isopropylbenzene	11.8	0.64	5.0	20	0	59	74-137	0			S
m,p-Xylene	31.39	1.2	2.5	40	0	78.5	75-134	0			
Methyl tert-butyl ether	21.71	0.23	5.0	20	0	109	62-136	0			
Methylene chloride	21.44	0.86	5.0	20	0	107	55-157	0			
o-Xylene	13.66	0.47	2.5	20	0	68.3	76-130	0			S
Styrene	13.76	0.4	5.0	20	0	68.8	72-138	0			S
Tetrachloroethene	16.81	0.89	5.0	20	0	84	70-171	0			
Toluene	14.11	0.56	5.0	20	0	70.6	76-130	0			S
trans-1,2-Dichloroethene	18.77	0.4	5.0	20	0	93.8	65-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251895** Instrument ID **VMS10** Method: **SW8260C**

trans-1,3-Dichloropropene	12	0.29	5.0	20	0	60	58-126	0	
Trichloroethene	13.95	0.72	5.0	20	0	69.8	75-135	0	S
Trichlorofluoromethane	17.36	0.71	5.0	20	0	86.8	62-136	0	
Vinyl chloride	20.36	0.7	5.0	20	0	102	57-143	0	
Surr: 1,2-Dichloroethane-d4	*23.14*	0	0	*20*	0	*116*	*83-132*	0	
Surr: 4-Bromofluorobenzene	*22.9*	0	0	*20*	0	*114*	*83-111*	0	*S*
Surr: Dibromofluoromethane	*20.56*	0	0	*20*	0	*103*	*77-125*	0	
Surr: Toluene-d8	*20.27*	0	0	*20*	0	*101*	*86-108*	0	

The following samples were analyzed in this batch: 1812740-05A 1812740-20A 1812740-23A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251866** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R251866** Units: **% of sample** Analysis Date: **12/20/2018 12:25 P**

Client ID: Run ID: **MOIST_181220A** SeqNo: **5452564** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.1	0.10								

LCS Sample ID: **LCS-R251866** Units: **% of sample** Analysis Date: **12/20/2018 12:25 P**

Client ID: Run ID: **MOIST_181220A** SeqNo: **5452562** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.1	0.10	100	0	100	98-102	0			

DUP Sample ID: **1812740-01B DUP** Units: **% of sample** Analysis Date: **12/20/2018 12:25 P**

Client ID: **B-1 (0--2)** Run ID: **MOIST_181220A** SeqNo: **5452552** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.27	0.1	0.10	0	0	0	0-0	19.57	1.54	10	

DUP Sample ID: **1812740-02B DUP** Units: **% of sample** Analysis Date: **12/20/2018 12:25 P**

Client ID: **B-1 (10-12)** Run ID: **MOIST_181220A** SeqNo: **5452554** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	13.67	0.1	0.10	0	0	0	0-0	13.55	0.882	10	

The following samples were analyzed in this batch:

1812740-01B	1812740-02B	1812740-03B
1812740-04B	1812740-05B	1812740-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 1812740
Project: Holden Business Park (103x9025140002.056)

QC BATCH REPORT

Batch ID: **R251868** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R251868** Units: **% of sample** Analysis Date: **12/20/2018 02:23 P**

Client ID: Run ID: **MOIST_181220B** SeqNo: **5452608** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.1	0.10								

LCS Sample ID: **LCS-R251868** Units: **% of sample** Analysis Date: **12/20/2018 02:23 P**

Client ID: Run ID: **MOIST_181220B** SeqNo: **5452607** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.98	0.1	0.10	100	0	100	98-102	0			

DUP Sample ID: **1812749-04A DUP** Units: **% of sample** Analysis Date: **12/20/2018 02:23 P**

Client ID: Run ID: **MOIST_181220B** SeqNo: **5452603** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.67	0.1	0.10	0	0	0	0-0	7.82	1.94	10	

DUP Sample ID: **1812749-06A DUP** Units: **% of sample** Analysis Date: **12/20/2018 02:23 P**

Client ID: Run ID: **MOIST_181220B** SeqNo: **5452606** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.72	0.1	0.10	0	0	0	0-0	8.65	0.806	10	

The following samples were analyzed in this batch:

1812740-07B	1812740-08B	1812740-09B
1812740-10B	1812740-11B	1812740-12B
1812740-13B	1812740-14B	1812740-15B
1812740-16B	1812740-17B	1812740-18B
1812740-19B	1812740-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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Chain of Custody Form

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COC ID: 179042

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ALS Project Manager: EB | ALS Work Order #: 1812740

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	VOC's (8260) + TPH-GRO
Work Order		Project Number	103X9025140002.056	B	RCRA METALS (6010)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	SVOC's (8270) + TPH DRO/ORO
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	PCB's (8082)
Address	415 Oak Street	Address	415 Oak Street	E	~~TPH~~
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-1 (0-2)	12/10/18	1230	SOIL	9	4	✓	✓	✓	✓							
2	B-1 (10-12)	12/10/18	1305	SOIL	9	4	✓	✓	✓	✓							
3	B-2 (0-2)	12/10/18	1335	SOIL	9	4	✓	✓	✓	✓							
4	B-2 (12-14)	12/10/18	1355	SOIL	9	4	✓	✓	✓	✓							
5	B-3 (0-2)	12/10/18	1410	SOIL	9	4	✓	✓	✓	✓							
6	B-3 (12-14)	12/10/18	1430	SOIL	9	4	✓	✓	✓	✓							
7	B-4 (2-4)	12/10/18	1445	SOIL	9	4	✓	✓	✓	✓							
8	B-5 (0-2)	12/10/18	1500	SOIL	9	4	✓	✓	✓	✓							
9	B-5 (13-15)	12/10/18	1515	SOIL	9	4	✓	✓	✓	✓							
10	B-6 (0-2)	12/10/18	1535	SOIL	9	4	✓	✓	✓	✓							

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 12/11/18	Time: 1400	Received by: FEDEX
Relinquished by: FEDEX	Date: 12/12/18	Time: 0900	Received by (Laboratory):
Logged by (Laboratory): KR	Date: 12/12/18	Time: 1315	Checked by (Laboratory): EB

Notes:

Cooler ID	Cooler Temp.
522	4.4°C
	3.6°C
	3.2°C

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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Chain of Custody Form

COC ID: 179043

ALS Project Manager: EB | ALS Work Order #: 1812740

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	VOC's + TPH-GRO (8260)
Work Order		Project Number	103X9025 140002.056	B	RCRA METALS (6010)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	SVOCs + TPH ORO/DRO (8270)
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	PCBs (8082)
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-6 (8-10)	12/10/18	1555	SOIL	9	4	✓	✓	✓	✓							
2	B-7 (0-2)	12/11/18	0915	SOIL	9	4	✓	✓	✓	✓							
3	B-7 (4-6)	12/11/18	0935	SOIL	9	4	✓	✓	✓	✓							
4	B-8 (0-2)	12/11/18	0950	SOIL	9	4	✓	✓	✓	✓							
5	B-8 (8-10)	12/11/18	1015	SOIL	9	4	✓	✓	✓	✓							
6	B-9 (0-2)	12/11/18	1025	SOIL	9	4	✓	✓	✓	✓							
7	B-9 (6-8)	12/11/18	1040	SOIL	9	4	✓	✓	✓	✓							
8	B-10 (0-2)	12/11/18	1050	SOIL	9	4	✓	✓	✓	✓							
9	B-10 (12-14)	12/11/18	1115	SOIL	9	4	✓	✓	✓	✓							
10	DUPLICATE	—	—	SOIL	9	4	✓	✓	✓	✓							

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 12/11/18	Time: 1400	Received by: FEDEX
Relinquished by: FEDEX	Date: 12/12/18	Time: 0900	Received by (Laboratory):
Logged by (Laboratory): KRU	Date: 12/12/18	Time: 1315	Checked by (Laboratory): EB

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Chain of Custody Form

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COC ID: 179045

ALS Project Manager: EB

ALS Work Order #: 1812740

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	VOCs + TPH GRO (8260)
Work Order		Project Number	103X9025 140002.056	B	RCRA METALS (6010)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	SVOCs + TPH DRO (8270)
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	PCBs (8082)
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RINSE	10/12/18	1120	WATER	1,2,	10	✓	✓	✓	✓							
2	TRIP BLANK #1	↓					✓										
3	↓ #2	↓					✓										
4	↓ #3	↓					✓										
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☒ Std 10 Wk Days ☐ 5 Wk Days ☐ 3 Wk Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 12/11/18	Time: 1400	Received by: FEDEX	Notes:
Relinquished by: FEDEX	Date: 12/12/18	Time: 0900	Received by (Laboratory):	Cooler ID / Cooler Temp.
Logged by (Laboratory):	Date: 12/12/18	Time: 1315	Checked by (Laboratory): EB	QC Package: (Check One Box Below)

☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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Sample Receipt Checklist

Client Name: **TETRATECH - MO** Date/Time Received: **12-Dec-18 09:00**

Work Order: **1812740** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 12-Dec-18 (Date) Reviewed by: Ehrland Bosworth (eSignature) 12-Dec-18 (Date)

Matrices: Soil & Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.4/4.4, 3.6/3.6, 3.2/3.2 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	12/12/2018 2:38:04 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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Chain of Custody Form

Page 1 of 3

COC ID: 179042

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	VOCs (8260) + TPH-GRO
Work Order		Project Number	103X9025140002.056	B	RCRA METALS (6010)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	SVOCs (8270) + TPH DRO/ORO
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	PCB's (8082)
Address	415 Oak Street	Address	415 Oak Street	E	~~TPH~~
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-1 (0-2)	12/10/18	1230	SOIL	9	4	✓	✓	✓	✓							
2	B-1 (10-12)	12/10/18	1305	SOIL	9	4	✓	✓	✓	✓							
3	B-2 (0-2)	12/10/18	1335	SOIL	9	4	✓	✓	✓	✓							
4	B-2 (12-14)	12/10/18	1355	SOIL	9	4	✓	✓	✓	✓							
5	B-3 (0-2)	12/10/18	1410	SOIL	9	4	✓	✓	✓	✓							
6	B-3 (12-14)	12/10/18	1430	SOIL	9	4	✓	✓	✓	✓							
7	B-4 (2-4)	12/10/18	1445	SOIL	9	4	✓	✓	✓	✓							
8	B-5 (0-2)	12/10/18	1500	SOIL	9	4	✓	✓	✓	✓							
9	B-5 (13-15)	12/10/18	1515	SOIL	9	4	✓	✓	✓	✓							
10	B-6 (0-2)	12/10/18	1535	SOIL	9	4	✓	✓	✓	✓							

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date: 12/11/18	Time: 1400	Received by: FEDEX
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Chain of Custody Form

Page 2 of 3

COC ID: 179043

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	VOC'S + TPH-GRO (8260)
Work Order		Project Number	103X9025 140002.056	B	RCRA METALS (6010)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	SVOCS + TPH ORO/DRO (8270)
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	PCBs (8082)
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-6 (8-10)	12/10/18	1555	SOIL	9	4	✓	✓	✓	✓							
2	B-7 (0-2)	12/11/18	0915	SOIL	9	4	✓	✓	✓	✓							
3	B-7 (4-6)	12/11/18	0935	SOIL	9	4	✓	✓	✓	✓							
4	B-8 (0-2)	12/11/18	0950	SOIL	9	4	✓	✓	✓	✓							
5	B-8 (8-10)	12/11/18	1015	SOIL	9	4	✓	✓	✓	✓							
6	B-9 (0-2)	12/11/18	1025	SOIL	9	4	✓	✓	✓	✓							
7	B-9 (6-8)	12/11/18	1040	SOIL	9	4	✓	✓	✓	✓							
8	B-10 (0-2)	12/11/18	1050	SOIL	9	4	✓	✓	✓	✓							
9	B-10 (12-14)	12/11/18	1115	SOIL	9	4	✓	✓	✓	✓							
10	DUPLICATE	—	—	SOIL	9	4	✓	✓	✓	✓							

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ____ ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 12/11/18	Time: 1400	Received by: FEDEX	Notes:
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID / Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check One Box Below)

☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	VOCs + TPH GRO (8260)
Work Order		Project Number	103X9025 140002.056	B	RCRA METALS (6010)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	SVOCs + TPH GRO / DRO (8270)
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	PCBs (8082)
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RINSE	10/12/18	1120	WATER	1,2,	10	✓	✓	✓	✓							
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 12/11/18	Time: 1400	Received by: FEDEX
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

25-Jan-2019

Joshua Mellema
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Holden Business Park (103X9025140002.056)** Work Order: **19011014**

Dear Joshua,

ALS Environmental received 24 samples on 21-Jan-2019 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 83.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Ehrland Bosworth

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

ALS Group, USA

Date: 25-Jan-19

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Work Order: **19011014**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19011014-01	B-11 (0-2)	Soil		1/16/2019 08:25	1/21/2019 09:00	☐
19011014-02	B-11 (10.5-11.5)	Soil		1/16/2019 08:48	1/21/2019 09:00	☐
19011014-03	B-12 (0--2)	Soil		1/16/2019 09:00	1/21/2019 09:00	☐
19011014-04	B-12 (9.5-10.5)	Soil		1/16/2019 09:19	1/21/2019 09:00	☐
19011014-05	B-13 (0-2)	Soil		1/16/2019 09:35	1/21/2019 09:00	☐
19011014-06	B-13 (11-12)	Soil		1/16/2019 09:50	1/21/2019 09:00	☐
19011014-07	B-14 (0-2)	Soil		1/16/2019 10:08	1/21/2019 09:00	☐
19011014-08	B-14 (10-11)	Soil		1/16/2019 10:15	1/21/2019 09:00	☐
19011014-09	B-15 (0-2)	Soil		1/16/2019 10:26	1/21/2019 09:00	☐
19011014-10	B-15 (8-9)	Soil		1/16/2019 10:39	1/21/2019 09:00	☐
19011014-11	B-16 (0-2)	Soil		1/16/2019 10:50	1/21/2019 09:00	☐
19011014-12	B-16 (10.5-11.5)	Soil		1/16/2019 11:15	1/21/2019 09:00	☐
19011014-13	B-17 (0-2)	Soil		1/16/2019 11:28	1/21/2019 09:00	☐
19011014-14	B-17 (9-10)	Soil		1/16/2019 11:40	1/21/2019 09:00	☐
19011014-15	B-18 (0-2)	Soil		1/16/2019 12:45	1/21/2019 09:00	☐
19011014-16	B-18 (10-11)	Soil		1/16/2019 12:55	1/21/2019 09:00	☐
19011014-17	B-19 (0-2)	Soil		1/16/2019 13:10	1/21/2019 09:00	☐
19011014-18	B-19 (8-9)	Soil		1/16/2019 13:20	1/21/2019 09:00	☐
19011014-19	B-20 (0-2)	Soil		1/16/2019 13:36	1/21/2019 09:00	☐
19011014-20	B-20 (9-10)	Soil		1/16/2019 13:45	1/21/2019 09:00	☐
19011014-21	B-21 (0-2)	Soil		1/16/2019 13:56	1/21/2019 09:00	☐
19011014-22	B-21 (10-11)	Soil		1/16/2019 14:05	1/21/2019 09:00	☐
19011014-23	DUP-1	Soil		1/16/2019	1/21/2019 09:00	☐
19011014-24	DUP-2	Soil		1/16/2019	1/21/2019 09:00	☐

ALS Group, USA

Date: 25-Jan-19

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
WorkOrder: **19011014**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Work Order: 19011014

Case Narrative

Samples for the above noted Work Order were received on 01/21/19. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
Batch 130964, Method VOC_8260_S, Sample 19011014-07A MS and -07A MSD: The VOC MS and/or MSD recoveries were above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary for Acetone.

Batch 130964, Method VOC_8260_S, Sample 19011014-07A MS and -07A MSD: The VOC MS and/or MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for Chloroethane.

Batch 130966, Method VOC_8260_S, Sample 19011014-24A MSD: The VOC RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for Acetone and Chloroethane.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-18A MS and -18A MSD: The VOC MS and/or MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for multiple analytes. Please reference QC report for full compound list.

Batch 130966, Method VOC_8260_S, Sample 19011014-24A MSD: The VOC MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for Acetone.

Batch R253552, Method VOC_8260_SLL, Sample 19011014-04A: One or more VOC surrogate recoveries were below the lower control limits. The sample results may be biased

low.

Batch R253552, Method VOC_8260_SLL, Sample 19011014-04A: One or more VOC surrogate recoveries were high due to matrix interference.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-08A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-09A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-10A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-11A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-13A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-14A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-15A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-16A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-19A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-20A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-21A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-22A: One or more VOC surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-23A: One or more VOC

surrogate recoveries were low due to preservation effects.

Batch R253681, Method VOC_8260_SLL, Sample 19011014-24A: One or more VOC surrogate recoveries were low due to preservation effects.

No other deviations or anomalies were noted.

Wet Chemistry:
No deviations or anomalies were noted.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-11 (0-2)
Collection Date: 1/16/2019 08:25 AM

Work Order: 19011014
Lab ID: 19011014-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		23	50	µg/Kg-dry	1	1/22/2019 17:54
1,1,2,2-Tetrachloroethane	U		22	50	µg/Kg-dry	1	1/22/2019 17:54
1,1,2-Trichloroethane	U		21	50	µg/Kg-dry	1	1/22/2019 17:54
1,1,2-Trichlorotrifluoroethane	U		32	50	µg/Kg-dry	1	1/22/2019 17:54
1,1-Dichloroethane	U		18	50	µg/Kg-dry	1	1/22/2019 17:54
1,1-Dichloroethene	U		16	50	µg/Kg-dry	1	1/22/2019 17:54
1,2,3-Trichlorobenzene	U		24	50	µg/Kg-dry	1	1/22/2019 17:54
1,2,4-Trichlorobenzene	U		17	50	µg/Kg-dry	1	1/22/2019 17:54
1,2-Dibromo-3-chloropropane	U		46	170	µg/Kg-dry	1	1/22/2019 17:54
1,2-Dibromoethane	U		14	50	µg/Kg-dry	1	1/22/2019 17:54
1,2-Dichlorobenzene	U		19	50	µg/Kg-dry	1	1/22/2019 17:54
1,2-Dichloroethane	U		21	50	µg/Kg-dry	1	1/22/2019 17:54
1,2-Dichloropropane	U		8.8	50	µg/Kg-dry	1	1/22/2019 17:54
1,3-Dichlorobenzene	U		17	50	µg/Kg-dry	1	1/22/2019 17:54
1,4-Dichlorobenzene	U		12	50	µg/Kg-dry	1	1/22/2019 17:54
2-Butanone	U		41	330	µg/Kg-dry	1	1/22/2019 17:54
2-Hexanone	U		25	50	µg/Kg-dry	1	1/22/2019 17:54
4-Methyl-2-pentanone	U		24	50	µg/Kg-dry	1	1/22/2019 17:54
Acetone	U		52	170	µg/Kg-dry	1	1/22/2019 17:54
Benzene	U		8.6	50	µg/Kg-dry	1	1/22/2019 17:54
Bromochloromethane	U		25	50	µg/Kg-dry	1	1/22/2019 17:54
Bromodichloromethane	U		28	50	µg/Kg-dry	1	1/22/2019 17:54
Bromoform	U		21	50	µg/Kg-dry	1	1/22/2019 17:54
Bromomethane	U		96	170	µg/Kg-dry	1	1/22/2019 17:54
Carbon disulfide	U		26	50	µg/Kg-dry	1	1/22/2019 17:54
Carbon tetrachloride	U		20	50	µg/Kg-dry	1	1/22/2019 17:54
Chlorobenzene	U		17	50	µg/Kg-dry	1	1/22/2019 17:54
Chloroethane	U		17	170	µg/Kg-dry	1	1/22/2019 17:54
Chloroform	U		18	50	µg/Kg-dry	1	1/22/2019 17:54
Chloromethane	U		42	170	µg/Kg-dry	1	1/22/2019 17:54
cis-1,2-Dichloroethene	U		16	50	µg/Kg-dry	1	1/22/2019 17:54
cis-1,3-Dichloropropene	U		19	50	µg/Kg-dry	1	1/22/2019 17:54
Cyclohexane	U		16	50	µg/Kg-dry	1	1/22/2019 17:54
Dibromochloromethane	U		28	50	µg/Kg-dry	1	1/22/2019 17:54
Dichlorodifluoromethane	U		10	50	µg/Kg-dry	1	1/22/2019 17:54
Ethylbenzene	U		11	50	µg/Kg-dry	1	1/22/2019 17:54
Isopropylbenzene	**57**		**15**	**50**	**µg/Kg-dry**	1	1/22/2019 17:54
m,p-Xylene	U		24	100	µg/Kg-dry	1	1/22/2019 17:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-11 (0-2)
Collection Date: 1/16/2019 08:25 AM

Work Order: 19011014
Lab ID: 19011014-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	**130**	J	**22**	**330**	**µg/Kg-dry**	1	1/22/2019 17:54
Methyl tert-butyl ether	U		14	50	µg/Kg-dry	1	1/22/2019 17:54
Methylcyclohexane	U		19	50	µg/Kg-dry	1	1/22/2019 17:54
Methylene chloride	U		21	50	µg/Kg-dry	1	1/22/2019 17:54
o-Xylene	U		19	50	µg/Kg-dry	1	1/22/2019 17:54
Styrene	U		20	50	µg/Kg-dry	1	1/22/2019 17:54
Tetrachloroethene	U		15	50	µg/Kg-dry	1	1/22/2019 17:54
Toluene	U		14	50	µg/Kg-dry	1	1/22/2019 17:54
trans-1,2-Dichloroethene	U		18	50	µg/Kg-dry	1	1/22/2019 17:54
trans-1,3-Dichloropropene	U		28	50	µg/Kg-dry	1	1/22/2019 17:54
Trichloroethene	U		22	50	µg/Kg-dry	1	1/22/2019 17:54
Trichlorofluoromethane	U		26	50	µg/Kg-dry	1	1/22/2019 17:54
Vinyl chloride	U		11	50	µg/Kg-dry	1	1/22/2019 17:54
Surr: 1,2-Dichloroethane-d4	*120*			*70-130*	*%REC*	1	1/22/2019 17:54
Surr: 4-Bromofluorobenzene	*103*			*70-130*	*%REC*	1	1/22/2019 17:54
Surr: Dibromofluoromethane	*113*			*70-130*	*%REC*	1	1/22/2019 17:54
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	1/22/2019 17:54

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**25**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-11 (10.5-11.5)
Collection Date: 1/16/2019 08:48 AM

Work Order: 19011014
Lab ID: 19011014-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		19	42	µg/Kg-dry	1	1/21/2019 22:29
1,1,2,2-Tetrachloroethane	U		19	42	µg/Kg-dry	1	1/21/2019 22:29
1,1,2-Trichloroethane	U		18	42	µg/Kg-dry	1	1/21/2019 22:29
1,1,2-Trichlorotrifluoroethane	U		27	42	µg/Kg-dry	1	1/21/2019 22:29
1,1-Dichloroethane	U		15	42	µg/Kg-dry	1	1/21/2019 22:29
1,1-Dichloroethene	U		14	42	µg/Kg-dry	1	1/21/2019 22:29
1,2,3-Trichlorobenzene	U		20	42	µg/Kg-dry	1	1/21/2019 22:29
1,2,4-Trichlorobenzene	U		15	42	µg/Kg-dry	1	1/21/2019 22:29
1,2-Dibromo-3-chloropropane	U		39	140	µg/Kg-dry	1	1/21/2019 22:29
1,2-Dibromoethane	U		12	42	µg/Kg-dry	1	1/21/2019 22:29
1,2-Dichlorobenzene	U		16	42	µg/Kg-dry	1	1/21/2019 22:29
1,2-Dichloroethane	U		18	42	µg/Kg-dry	1	1/21/2019 22:29
1,2-Dichloropropane	U		7.4	42	µg/Kg-dry	1	1/21/2019 22:29
1,3-Dichlorobenzene	U		14	42	µg/Kg-dry	1	1/21/2019 22:29
1,4-Dichlorobenzene	U		10	42	µg/Kg-dry	1	1/21/2019 22:29
2-Butanone	U		35	280	µg/Kg-dry	1	1/21/2019 22:29
2-Hexanone	U		21	42	µg/Kg-dry	1	1/21/2019 22:29
4-Methyl-2-pentanone	U		20	42	µg/Kg-dry	1	1/21/2019 22:29
Acetone	U		44	140	µg/Kg-dry	1	1/21/2019 22:29
Benzene	U		7.2	42	µg/Kg-dry	1	1/21/2019 22:29
Bromochloromethane	U		22	42	µg/Kg-dry	1	1/21/2019 22:29
Bromodichloromethane	U		24	42	µg/Kg-dry	1	1/21/2019 22:29
Bromoform	U		18	42	µg/Kg-dry	1	1/21/2019 22:29
Bromomethane	U		81	140	µg/Kg-dry	1	1/21/2019 22:29
Carbon disulfide	U		22	42	µg/Kg-dry	1	1/21/2019 22:29
Carbon tetrachloride	U		17	42	µg/Kg-dry	1	1/21/2019 22:29
Chlorobenzene	U		14	42	µg/Kg-dry	1	1/21/2019 22:29
Chloroethane	U		15	140	µg/Kg-dry	1	1/21/2019 22:29
Chloroform	U		15	42	µg/Kg-dry	1	1/21/2019 22:29
Chloromethane	U		35	140	µg/Kg-dry	1	1/21/2019 22:29
cis-1,2-Dichloroethene	U		13	42	µg/Kg-dry	1	1/21/2019 22:29
cis-1,3-Dichloropropene	U		16	42	µg/Kg-dry	1	1/21/2019 22:29
Cyclohexane	U		14	42	µg/Kg-dry	1	1/21/2019 22:29
Dibromochloromethane	U		24	42	µg/Kg-dry	1	1/21/2019 22:29
Dichlorodifluoromethane	U		8.8	42	µg/Kg-dry	1	1/21/2019 22:29
Ethylbenzene	U		8.9	42	µg/Kg-dry	1	1/21/2019 22:29
Isopropylbenzene	U		13	42	µg/Kg-dry	1	1/21/2019 22:29
m,p-Xylene	U		20	85	µg/Kg-dry	1	1/21/2019 22:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-11 (10.5-11.5)
Collection Date: 1/16/2019 08:48 AM

Work Order: 19011014
Lab ID: 19011014-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	**39**	J	**19**	**280**	**µg/Kg-dry**	1	1/21/2019 22:29
Methyl tert-butyl ether	U		12	42	µg/Kg-dry	1	1/21/2019 22:29
Methylcyclohexane	U		16	42	µg/Kg-dry	1	1/21/2019 22:29
Methylene chloride	U		18	42	µg/Kg-dry	1	1/21/2019 22:29
o-Xylene	U		16	42	µg/Kg-dry	1	1/21/2019 22:29
Styrene	U		17	42	µg/Kg-dry	1	1/21/2019 22:29
Tetrachloroethene	U		12	42	µg/Kg-dry	1	1/21/2019 22:29
Toluene	U		12	42	µg/Kg-dry	1	1/21/2019 22:29
trans-1,2-Dichloroethene	U		16	42	µg/Kg-dry	1	1/21/2019 22:29
trans-1,3-Dichloropropene	U		24	42	µg/Kg-dry	1	1/21/2019 22:29
Trichloroethene	U		19	42	µg/Kg-dry	1	1/21/2019 22:29
Trichlorofluoromethane	U		22	42	µg/Kg-dry	1	1/21/2019 22:29
Vinyl chloride	U		9.1	42	µg/Kg-dry	1	1/21/2019 22:29
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	1/21/2019 22:29
Surr: 4-Bromofluorobenzene	*99.6*			*70-130*	*%REC*	1	1/21/2019 22:29
Surr: Dibromofluoromethane	*99.2*			*70-130*	*%REC*	1	1/21/2019 22:29
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	1/21/2019 22:29

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**17**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-12 (0--2)
Collection Date: 1/16/2019 09:00 AM

Work Order: 19011014
Lab ID: 19011014-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		22	49	µg/Kg-dry	1	1/21/2019 22:44
1,1,2,2-Tetrachloroethane	U		22	49	µg/Kg-dry	1	1/21/2019 22:44
1,1,2-Trichloroethane	U		21	49	µg/Kg-dry	1	1/21/2019 22:44
1,1,2-Trichlorotrifluoroethane	U		31	49	µg/Kg-dry	1	1/21/2019 22:44
1,1-Dichloroethane	U		18	49	µg/Kg-dry	1	1/21/2019 22:44
1,1-Dichloroethene	U		16	49	µg/Kg-dry	1	1/21/2019 22:44
1,2,3-Trichlorobenzene	U		23	49	µg/Kg-dry	1	1/21/2019 22:44
1,2,4-Trichlorobenzene	U		17	49	µg/Kg-dry	1	1/21/2019 22:44
1,2-Dibromo-3-chloropropane	U		45	160	µg/Kg-dry	1	1/21/2019 22:44
1,2-Dibromoethane	U		14	49	µg/Kg-dry	1	1/21/2019 22:44
1,2-Dichlorobenzene	U		19	49	µg/Kg-dry	1	1/21/2019 22:44
1,2-Dichloroethane	U		21	49	µg/Kg-dry	1	1/21/2019 22:44
1,2-Dichloropropane	U		8.6	49	µg/Kg-dry	1	1/21/2019 22:44
1,3-Dichlorobenzene	U		16	49	µg/Kg-dry	1	1/21/2019 22:44
1,4-Dichlorobenzene	U		12	49	µg/Kg-dry	1	1/21/2019 22:44
2-Butanone	U		40	330	µg/Kg-dry	1	1/21/2019 22:44
2-Hexanone	U		24	49	µg/Kg-dry	1	1/21/2019 22:44
4-Methyl-2-pentanone	U		23	49	µg/Kg-dry	1	1/21/2019 22:44
Acetone	U		51	160	µg/Kg-dry	1	1/21/2019 22:44
Benzene	U		8.4	49	µg/Kg-dry	1	1/21/2019 22:44
Bromochloromethane	U		25	49	µg/Kg-dry	1	1/21/2019 22:44
Bromodichloromethane	U		27	49	µg/Kg-dry	1	1/21/2019 22:44
Bromoform	U		21	49	µg/Kg-dry	1	1/21/2019 22:44
Bromomethane	U		94	160	µg/Kg-dry	1	1/21/2019 22:44
Carbon disulfide	U		25	49	µg/Kg-dry	1	1/21/2019 22:44
Carbon tetrachloride	U		19	49	µg/Kg-dry	1	1/21/2019 22:44
Chlorobenzene	U		16	49	µg/Kg-dry	1	1/21/2019 22:44
Chloroethane	U		17	160	µg/Kg-dry	1	1/21/2019 22:44
Chloroform	U		18	49	µg/Kg-dry	1	1/21/2019 22:44
Chloromethane	U		41	160	µg/Kg-dry	1	1/21/2019 22:44
cis-1,2-Dichloroethene	U		15	49	µg/Kg-dry	1	1/21/2019 22:44
cis-1,3-Dichloropropene	U		18	49	µg/Kg-dry	1	1/21/2019 22:44
Cyclohexane	U		16	49	µg/Kg-dry	1	1/21/2019 22:44
Dibromochloromethane	U		27	49	µg/Kg-dry	1	1/21/2019 22:44
Dichlorodifluoromethane	U		10	49	µg/Kg-dry	1	1/21/2019 22:44
Ethylbenzene	U		10	49	µg/Kg-dry	1	1/21/2019 22:44
Isopropylbenzene	U		15	49	µg/Kg-dry	1	1/21/2019 22:44
m,p-Xylene	U		23	98	µg/Kg-dry	1	1/21/2019 22:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-12 (0--2)
Collection Date: 1/16/2019 09:00 AM

Work Order: 19011014
Lab ID: 19011014-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	**120**	J	**22**	**330**	**µg/Kg-dry**	1	1/21/2019 22:44
Methyl tert-butyl ether	U		14	49	µg/Kg-dry	1	1/21/2019 22:44
Methylcyclohexane	U		19	49	µg/Kg-dry	1	1/21/2019 22:44
Methylene chloride	U		21	49	µg/Kg-dry	1	1/21/2019 22:44
o-Xylene	U		19	49	µg/Kg-dry	1	1/21/2019 22:44
Styrene	U		19	49	µg/Kg-dry	1	1/21/2019 22:44
Tetrachloroethene	U		14	49	µg/Kg-dry	1	1/21/2019 22:44
Toluene	U		13	49	µg/Kg-dry	1	1/21/2019 22:44
trans-1,2-Dichloroethene	U		18	49	µg/Kg-dry	1	1/21/2019 22:44
trans-1,3-Dichloropropene	U		27	49	µg/Kg-dry	1	1/21/2019 22:44
Trichloroethene	U		22	49	µg/Kg-dry	1	1/21/2019 22:44
Trichlorofluoromethane	U		25	49	µg/Kg-dry	1	1/21/2019 22:44
Vinyl chloride	U		11	49	µg/Kg-dry	1	1/21/2019 22:44
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	1/21/2019 22:44
Surr: 4-Bromofluorobenzene	*99.6*			*70-130*	*%REC*	1	1/21/2019 22:44
Surr: Dibromofluoromethane	*95.8*			*70-130*	*%REC*	1	1/21/2019 22:44
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	1/21/2019 22:44

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**24**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-12 (9.5-10.5)
Collection Date: 1/16/2019 09:19 AM

Work Order: 19011014
Lab ID: 19011014-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.76	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,1,2,2-Tetrachloroethane	U		0.26	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,1,2-Trichloroethane	U		0.37	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,1,2-Trichlorotrifluoroethane	U		1.1	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,1-Dichloroethane	U		2.0	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,1-Dichloroethene	U		0.94	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,2,3-Trichlorobenzene	U		0.60	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,2,4-Trichlorobenzene	U		0.70	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,2-Dibromo-3-chloropropane	U		1.3	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,2-Dibromoethane	U		0.35	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,2-Dichlorobenzene	U		0.61	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,2-Dichloroethane	U		0.35	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,2-Dichloropropane	U		0.42	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,3-Dichlorobenzene	U		0.50	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
1,4-Dichlorobenzene	U		0.35	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
2-Butanone	U		1.8	9.6	µg/Kg-dry	0.825	1/22/2019 16:45
2-Hexanone	U		0.94	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
4-Methyl-2-pentanone	U		0.78	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Acetone	**33**		**2.0**	**9.6**	**µg/Kg-dry**	0.825	1/22/2019 16:45
Benzene	U		0.50	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Bromochloromethane	U		0.47	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Bromodichloromethane	U		0.31	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Bromoform	U		0.30	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Bromomethane	U		0.69	9.6	µg/Kg-dry	0.825	1/22/2019 16:45
Carbon disulfide	U		0.54	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Carbon tetrachloride	U		0.80	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Chlorobenzene	U		0.31	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Chloroethane	U		0.61	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Chloroform	**0.67**	J	**0.29**	**4.8**	**µg/Kg-dry**	0.825	1/22/2019 16:45
Chloromethane	U		0.44	9.6	µg/Kg-dry	0.825	1/22/2019 16:45
cis-1,2-Dichloroethene	U		0.46	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
cis-1,3-Dichloropropene	U		0.25	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Cyclohexane	U		2.9	9.6	µg/Kg-dry	0.825	1/22/2019 16:45
Dibromochloromethane	U		0.45	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Dichlorodifluoromethane	U		1.0	9.6	µg/Kg-dry	0.825	1/22/2019 16:45
Ethylbenzene	U		0.58	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Isopropylbenzene	U		0.62	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
m,p-Xylene	U		1.2	2.4	µg/Kg-dry	0.825	1/22/2019 16:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-12 (9.5-10.5)
Collection Date: 1/16/2019 09:19 AM

Work Order: 19011014
Lab ID: 19011014-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.2	9.6	µg/Kg-dry	0.825	1/22/2019 16:45
Methyl tert-butyl ether	U		0.22	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Methylcyclohexane	U		1.4	9.6	µg/Kg-dry	0.825	1/22/2019 16:45
Methylene chloride	U		0.83	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
o-Xylene	U		0.45	2.4	µg/Kg-dry	0.825	1/22/2019 16:45
Styrene	U		0.38	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Tetrachloroethene	U		0.86	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Toluene	U		0.54	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
trans-1,2-Dichloroethene	U		0.38	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
trans-1,3-Dichloropropene	U		0.28	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Trichloroethene	U		0.69	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Trichlorofluoromethane	U		0.68	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Vinyl chloride	U		0.67	4.8	µg/Kg-dry	0.825	1/22/2019 16:45
Surr: 1,2-Dichloroethane-d4	*140*	S		*83-132*	*%REC*	0.825	1/22/2019 16:45
Surr: 4-Bromofluorobenzene	*89.6*			*83-111*	*%REC*	0.825	1/22/2019 16:45
Surr: Dibromofluoromethane	*72.4*	S		*77-125*	*%REC*	0.825	1/22/2019 16:45
Surr: Toluene-d8	*98.9*			*86-108*	*%REC*	0.825	1/22/2019 16:45
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**14**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-13 (0-2)
Collection Date: 1/16/2019 09:35 AM

Work Order: 19011014
Lab ID: 19011014-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		24	52	µg/Kg-dry	1	1/21/2019 23:15
1,1,2,2-Tetrachloroethane	U		23	52	µg/Kg-dry	1	1/21/2019 23:15
1,1,2-Trichloroethane	U		22	52	µg/Kg-dry	1	1/21/2019 23:15
1,1,2-Trichlorotrifluoroethane	U		33	52	µg/Kg-dry	1	1/21/2019 23:15
1,1-Dichloroethane	U		19	52	µg/Kg-dry	1	1/21/2019 23:15
1,1-Dichloroethene	U		17	52	µg/Kg-dry	1	1/21/2019 23:15
1,2,3-Trichlorobenzene	U		25	52	µg/Kg-dry	1	1/21/2019 23:15
1,2,4-Trichlorobenzene	U		18	52	µg/Kg-dry	1	1/21/2019 23:15
1,2-Dibromo-3-chloropropane	U		48	170	µg/Kg-dry	1	1/21/2019 23:15
1,2-Dibromoethane	U		15	52	µg/Kg-dry	1	1/21/2019 23:15
1,2-Dichlorobenzene	U		20	52	µg/Kg-dry	1	1/21/2019 23:15
1,2-Dichloroethane	U		22	52	µg/Kg-dry	1	1/21/2019 23:15
1,2-Dichloropropane	U		9.1	52	µg/Kg-dry	1	1/21/2019 23:15
1,3-Dichlorobenzene	U		17	52	µg/Kg-dry	1	1/21/2019 23:15
1,4-Dichlorobenzene	U		13	52	µg/Kg-dry	1	1/21/2019 23:15
2-Butanone	U		43	350	µg/Kg-dry	1	1/21/2019 23:15
2-Hexanone	U		26	52	µg/Kg-dry	1	1/21/2019 23:15
4-Methyl-2-pentanone	U		25	52	µg/Kg-dry	1	1/21/2019 23:15
Acetone	U		54	170	µg/Kg-dry	1	1/21/2019 23:15
Benzene	U		8.9	52	µg/Kg-dry	1	1/21/2019 23:15
Bromochloromethane	U		27	52	µg/Kg-dry	1	1/21/2019 23:15
Bromodichloromethane	U		29	52	µg/Kg-dry	1	1/21/2019 23:15
Bromoform	U		22	52	µg/Kg-dry	1	1/21/2019 23:15
Bromomethane	U		100	170	µg/Kg-dry	1	1/21/2019 23:15
Carbon disulfide	U		27	52	µg/Kg-dry	1	1/21/2019 23:15
Carbon tetrachloride	U		20	52	µg/Kg-dry	1	1/21/2019 23:15
Chlorobenzene	U		17	52	µg/Kg-dry	1	1/21/2019 23:15
Chloroethane	U		18	170	µg/Kg-dry	1	1/21/2019 23:15
Chloroform	U		19	52	µg/Kg-dry	1	1/21/2019 23:15
Chloromethane	**43**	J	**43**	**170**	**µg/Kg-dry**	1	1/21/2019 23:15
cis-1,2-Dichloroethene	U		16	52	µg/Kg-dry	1	1/21/2019 23:15
cis-1,3-Dichloropropene	U		19	52	µg/Kg-dry	1	1/21/2019 23:15
Cyclohexane	U		17	52	µg/Kg-dry	1	1/21/2019 23:15
Dibromochloromethane	U		29	52	µg/Kg-dry	1	1/21/2019 23:15
Dichlorodifluoromethane	U		11	52	µg/Kg-dry	1	1/21/2019 23:15
Ethylbenzene	U		11	52	µg/Kg-dry	1	1/21/2019 23:15
Isopropylbenzene	U		16	52	µg/Kg-dry	1	1/21/2019 23:15
m,p-Xylene	U		25	100	µg/Kg-dry	1	1/21/2019 23:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-13 (0-2)
Collection Date: 1/16/2019 09:35 AM

Work Order: 19011014
Lab ID: 19011014-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	**120**	J	**23**	**350**	**µg/Kg-dry**	1	1/21/2019 23:15
Methyl tert-butyl ether	U		15	52	µg/Kg-dry	1	1/21/2019 23:15
Methylcyclohexane	U		20	52	µg/Kg-dry	1	1/21/2019 23:15
Methylene chloride	U		22	52	µg/Kg-dry	1	1/21/2019 23:15
o-Xylene	U		20	52	µg/Kg-dry	1	1/21/2019 23:15
Styrene	U		21	52	µg/Kg-dry	1	1/21/2019 23:15
Tetrachloroethene	U		15	52	µg/Kg-dry	1	1/21/2019 23:15
Toluene	U		14	52	µg/Kg-dry	1	1/21/2019 23:15
trans-1,2-Dichloroethene	U		19	52	µg/Kg-dry	1	1/21/2019 23:15
trans-1,3-Dichloropropene	U		29	52	µg/Kg-dry	1	1/21/2019 23:15
Trichloroethene	U		23	52	µg/Kg-dry	1	1/21/2019 23:15
Trichlorofluoromethane	U		27	52	µg/Kg-dry	1	1/21/2019 23:15
Vinyl chloride	U		11	52	µg/Kg-dry	1	1/21/2019 23:15
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	1/21/2019 23:15
Surr: 4-Bromofluorobenzene	*97.7*			*70-130*	*%REC*	1	1/21/2019 23:15
Surr: Dibromofluoromethane	*97.2*			*70-130*	*%REC*	1	1/21/2019 23:15
Surr: Toluene-d8	*104*			*70-130*	*%REC*	1	1/21/2019 23:15

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**27**	**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-13 (11-12)
Collection Date: 1/16/2019 09:50 AM

Work Order: 19011014
Lab ID: 19011014-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		18	41	µg/Kg-dry	1	1/21/2019 23:31
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	1/21/2019 23:31
1,1,2-Trichloroethane	U		17	41	µg/Kg-dry	1	1/21/2019 23:31
1,1,2-Trichlorotrifluoroethane	U		26	41	µg/Kg-dry	1	1/21/2019 23:31
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	1/21/2019 23:31
1,1-Dichloroethene	U		13	41	µg/Kg-dry	1	1/21/2019 23:31
1,2,3-Trichlorobenzene	U		19	41	µg/Kg-dry	1	1/21/2019 23:31
1,2,4-Trichlorobenzene	U		14	41	µg/Kg-dry	1	1/21/2019 23:31
1,2-Dibromo-3-chloropropane	U		37	140	µg/Kg-dry	1	1/21/2019 23:31
1,2-Dibromoethane	U		11	41	µg/Kg-dry	1	1/21/2019 23:31
1,2-Dichlorobenzene	U		15	41	µg/Kg-dry	1	1/21/2019 23:31
1,2-Dichloroethane	U		17	41	µg/Kg-dry	1	1/21/2019 23:31
1,2-Dichloropropane	U		7.1	41	µg/Kg-dry	1	1/21/2019 23:31
1,3-Dichlorobenzene	U		14	41	µg/Kg-dry	1	1/21/2019 23:31
1,4-Dichlorobenzene	U		9.8	41	µg/Kg-dry	1	1/21/2019 23:31
2-Butanone	U		33	270	µg/Kg-dry	1	1/21/2019 23:31
2-Hexanone	U		20	41	µg/Kg-dry	1	1/21/2019 23:31
4-Methyl-2-pentanone	U		19	41	µg/Kg-dry	1	1/21/2019 23:31
Acetone	U		42	140	µg/Kg-dry	1	1/21/2019 23:31
Benzene	U		6.9	41	µg/Kg-dry	1	1/21/2019 23:31
Bromochloromethane	U		21	41	µg/Kg-dry	1	1/21/2019 23:31
Bromodichloromethane	U		23	41	µg/Kg-dry	1	1/21/2019 23:31
Bromoform	U		17	41	µg/Kg-dry	1	1/21/2019 23:31
Bromomethane	U		78	140	µg/Kg-dry	1	1/21/2019 23:31
Carbon disulfide	U		21	41	µg/Kg-dry	1	1/21/2019 23:31
Carbon tetrachloride	U		16	41	µg/Kg-dry	1	1/21/2019 23:31
Chlorobenzene	U		13	41	µg/Kg-dry	1	1/21/2019 23:31
Chloroethane	U		14	140	µg/Kg-dry	1	1/21/2019 23:31
Chloroform	U		15	41	µg/Kg-dry	1	1/21/2019 23:31
Chloromethane	U		34	140	µg/Kg-dry	1	1/21/2019 23:31
cis-1,2-Dichloroethene	U		13	41	µg/Kg-dry	1	1/21/2019 23:31
cis-1,3-Dichloropropene	U		15	41	µg/Kg-dry	1	1/21/2019 23:31
Cyclohexane	U		13	41	µg/Kg-dry	1	1/21/2019 23:31
Dibromochloromethane	U		23	41	µg/Kg-dry	1	1/21/2019 23:31
Dichlorodifluoromethane	U		8.5	41	µg/Kg-dry	1	1/21/2019 23:31
Ethylbenzene	U		8.6	41	µg/Kg-dry	1	1/21/2019 23:31
Isopropylbenzene	U		12	41	µg/Kg-dry	1	1/21/2019 23:31
m,p-Xylene	U		19	81	µg/Kg-dry	1	1/21/2019 23:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-13 (11-12)
Collection Date: 1/16/2019 09:50 AM

Work Order: 19011014
Lab ID: 19011014-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	**36**	J	**18**	**270**	**µg/Kg-dry**	1	1/21/2019 23:31
Methyl tert-butyl ether	U		12	41	µg/Kg-dry	1	1/21/2019 23:31
Methylcyclohexane	U		15	41	µg/Kg-dry	1	1/21/2019 23:31
Methylene chloride	U		17	41	µg/Kg-dry	1	1/21/2019 23:31
o-Xylene	U		16	41	µg/Kg-dry	1	1/21/2019 23:31
Styrene	U		16	41	µg/Kg-dry	1	1/21/2019 23:31
Tetrachloroethene	U		12	41	µg/Kg-dry	1	1/21/2019 23:31
Toluene	U		11	41	µg/Kg-dry	1	1/21/2019 23:31
trans-1,2-Dichloroethene	U		15	41	µg/Kg-dry	1	1/21/2019 23:31
trans-1,3-Dichloropropene	U		23	41	µg/Kg-dry	1	1/21/2019 23:31
Trichloroethene	U		18	41	µg/Kg-dry	1	1/21/2019 23:31
Trichlorofluoromethane	U		21	41	µg/Kg-dry	1	1/21/2019 23:31
Vinyl chloride	U		8.7	41	µg/Kg-dry	1	1/21/2019 23:31
Surr: 1,2-Dichloroethane-d4	*100*			*70-130*	*%REC*	1	1/21/2019 23:31
Surr: 4-Bromofluorobenzene	*100*			*70-130*	*%REC*	1	1/21/2019 23:31
Surr: Dibromofluoromethane	*96.4*			*70-130*	*%REC*	1	1/21/2019 23:31
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	1/21/2019 23:31

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**15**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-14 (0-2)
Collection Date: 1/16/2019 10:08 AM

Work Order: 19011014
Lab ID: 19011014-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		20	43	µg/Kg-dry	1	1/21/2019 23:46
1,1,2,2-Tetrachloroethane	U		19	43	µg/Kg-dry	1	1/21/2019 23:46
1,1,2-Trichloroethane	U		18	43	µg/Kg-dry	1	1/21/2019 23:46
1,1,2-Trichlorotrifluoroethane	U		27	43	µg/Kg-dry	1	1/21/2019 23:46
1,1-Dichloroethane	U		16	43	µg/Kg-dry	1	1/21/2019 23:46
1,1-Dichloroethene	U		14	43	µg/Kg-dry	1	1/21/2019 23:46
1,2,3-Trichlorobenzene	U		20	43	µg/Kg-dry	1	1/21/2019 23:46
1,2,4-Trichlorobenzene	U		15	43	µg/Kg-dry	1	1/21/2019 23:46
1,2-Dibromo-3-chloropropane	U		40	140	µg/Kg-dry	1	1/21/2019 23:46
1,2-Dibromoethane	U		12	43	µg/Kg-dry	1	1/21/2019 23:46
1,2-Dichlorobenzene	U		16	43	µg/Kg-dry	1	1/21/2019 23:46
1,2-Dichloroethane	U		19	43	µg/Kg-dry	1	1/21/2019 23:46
1,2-Dichloropropane	U		7.6	43	µg/Kg-dry	1	1/21/2019 23:46
1,3-Dichlorobenzene	U		14	43	µg/Kg-dry	1	1/21/2019 23:46
1,4-Dichlorobenzene	U		10	43	µg/Kg-dry	1	1/21/2019 23:46
2-Butanone	U		36	290	µg/Kg-dry	1	1/21/2019 23:46
2-Hexanone	U		21	43	µg/Kg-dry	1	1/21/2019 23:46
4-Methyl-2-pentanone	U		21	43	µg/Kg-dry	1	1/21/2019 23:46
Acetone	U		45	140	µg/Kg-dry	1	1/21/2019 23:46
Benzene	U		7.4	43	µg/Kg-dry	1	1/21/2019 23:46
Bromochloromethane	U		22	43	µg/Kg-dry	1	1/21/2019 23:46
Bromodichloromethane	U		24	43	µg/Kg-dry	1	1/21/2019 23:46
Bromoform	U		18	43	µg/Kg-dry	1	1/21/2019 23:46
Bromomethane	U		83	140	µg/Kg-dry	1	1/21/2019 23:46
Carbon disulfide	U		22	43	µg/Kg-dry	1	1/21/2019 23:46
Carbon tetrachloride	U		17	43	µg/Kg-dry	1	1/21/2019 23:46
Chlorobenzene	U		14	43	µg/Kg-dry	1	1/21/2019 23:46
Chloroethane	U		15	140	µg/Kg-dry	1	1/21/2019 23:46
Chloroform	U		16	43	µg/Kg-dry	1	1/21/2019 23:46
Chloromethane	U		36	140	µg/Kg-dry	1	1/21/2019 23:46
cis-1,2-Dichloroethene	U		14	43	µg/Kg-dry	1	1/21/2019 23:46
cis-1,3-Dichloropropene	U		16	43	µg/Kg-dry	1	1/21/2019 23:46
Cyclohexane	U		14	43	µg/Kg-dry	1	1/21/2019 23:46
Dibromochloromethane	U		24	43	µg/Kg-dry	1	1/21/2019 23:46
Dichlorodifluoromethane	U		9.0	43	µg/Kg-dry	1	1/21/2019 23:46
Ethylbenzene	U		9.1	43	µg/Kg-dry	1	1/21/2019 23:46
Isopropylbenzene	U		13	43	µg/Kg-dry	1	1/21/2019 23:46
m,p-Xylene	U		21	86	µg/Kg-dry	1	1/21/2019 23:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-14 (0-2)
Collection Date: 1/16/2019 10:08 AM

Work Order: 19011014
Lab ID: 19011014-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	**83**	J	**19**	**290**	**µg/Kg-dry**	1	1/21/2019 23:46
Methyl tert-butyl ether	U		12	43	µg/Kg-dry	1	1/21/2019 23:46
Methylcyclohexane	U		16	43	µg/Kg-dry	1	1/21/2019 23:46
Methylene chloride	U		18	43	µg/Kg-dry	1	1/21/2019 23:46
o-Xylene	U		17	43	µg/Kg-dry	1	1/21/2019 23:46
Styrene	U		17	43	µg/Kg-dry	1	1/21/2019 23:46
Tetrachloroethene	U		13	43	µg/Kg-dry	1	1/21/2019 23:46
Toluene	U		12	43	µg/Kg-dry	1	1/21/2019 23:46
trans-1,2-Dichloroethene	U		16	43	µg/Kg-dry	1	1/21/2019 23:46
trans-1,3-Dichloropropene	U		24	43	µg/Kg-dry	1	1/21/2019 23:46
Trichloroethene	U		19	43	µg/Kg-dry	1	1/21/2019 23:46
Trichlorofluoromethane	U		22	43	µg/Kg-dry	1	1/21/2019 23:46
Vinyl chloride	U		9.3	43	µg/Kg-dry	1	1/21/2019 23:46
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	1/21/2019 23:46
Surr: 4-Bromofluorobenzene	*100*			*70-130*	*%REC*	1	1/21/2019 23:46
Surr: Dibromofluoromethane	*94.5*			*70-130*	*%REC*	1	1/21/2019 23:46
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	1/21/2019 23:46

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**18**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-14 (10-11)
Collection Date: 1/16/2019 10:15 AM

Work Order: 19011014
Lab ID: 19011014-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.76	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,1,2,2-Tetrachloroethane	U		0.26	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,1,2-Trichloroethane	U		0.38	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,1,2-Trichlorotrifluoroethane	U		1.1	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,1-Dichloroethane	U		2.0	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,1-Dichloroethene	U		0.95	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,2,3-Trichlorobenzene	U		0.60	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,2,4-Trichlorobenzene	U		0.71	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,2-Dibromo-3-chloropropane	U		1.3	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,2-Dibromoethane	U		0.35	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,2-Dichlorobenzene	U		0.61	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,2-Dichloroethane	U		0.35	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,2-Dichloropropane	U		0.43	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,3-Dichlorobenzene	U		0.50	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
1,4-Dichlorobenzene	U		0.35	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
2-Butanone	U		1.8	9.7	µg/Kg-dry	0.808	1/24/2019 13:22
2-Hexanone	U		0.95	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
4-Methyl-2-pentanone	U		0.78	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Acetone	**7.8**	J	**2.0**	**9.7**	**µg/Kg-dry**	0.808	1/24/2019 13:22
Benzene	U		0.50	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Bromochloromethane	U		0.47	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Bromodichloromethane	U		0.31	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Bromoform	U		0.30	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Bromomethane	U		0.70	9.7	µg/Kg-dry	0.808	1/24/2019 13:22
Carbon disulfide	U		0.54	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Carbon tetrachloride	U		0.80	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Chlorobenzene	U		0.31	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Chloroethane	U		0.61	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Chloroform	U		0.29	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Chloromethane	U		0.44	9.7	µg/Kg-dry	0.808	1/24/2019 13:22
cis-1,2-Dichloroethene	U		0.46	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
cis-1,3-Dichloropropene	U		0.25	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Cyclohexane	U		2.9	9.7	µg/Kg-dry	0.808	1/24/2019 13:22
Dibromochloromethane	U		0.45	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Dichlorodifluoromethane	U		1.0	9.7	µg/Kg-dry	0.808	1/24/2019 13:22
Ethylbenzene	**0.94**	J	**0.58**	**4.8**	**µg/Kg-dry**	0.808	1/24/2019 13:22
Isopropylbenzene	U		0.62	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
m,p-Xylene	**2.0**	J	**1.2**	**2.4**	**µg/Kg-dry**	0.808	1/24/2019 13:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-14 (10-11)
Collection Date: 1/16/2019 10:15 AM

Work Order: 19011014
Lab ID: 19011014-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.2	9.7	µg/Kg-dry	0.808	1/24/2019 13:22
Methyl tert-butyl ether	U		0.22	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Methylcyclohexane	U		1.4	9.7	µg/Kg-dry	0.808	1/24/2019 13:22
Methylene chloride	U		0.83	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
o-Xylene	**1.1**	J	**0.45**	**2.4**	**µg/Kg-dry**	0.808	1/24/2019 13:22
Styrene	**1.2**	J	**0.39**	**4.8**	**µg/Kg-dry**	0.808	1/24/2019 13:22
Tetrachloroethene	U		0.86	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Toluene	U		0.54	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
trans-1,2-Dichloroethene	U		0.39	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
trans-1,3-Dichloropropene	U		0.28	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Trichloroethene	U		0.70	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Trichlorofluoromethane	U		0.69	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Vinyl chloride	U		0.68	4.8	µg/Kg-dry	0.808	1/24/2019 13:22
Surr: 1,2-Dichloroethane-d4	*106*			*83-132*	*%REC*	0.808	1/24/2019 13:22
Surr: 4-Bromofluorobenzene	*89.0*			*83-111*	*%REC*	0.808	1/24/2019 13:22
Surr: Dibromofluoromethane	*84.2*			*77-125*	*%REC*	0.808	1/24/2019 13:22
Surr: Toluene-d8	*98.6*			*86-108*	*%REC*	0.808	1/24/2019 13:22
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**16**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-15 (0-2)
Collection Date: 1/16/2019 10:26 AM

Work Order: 19011014
Lab ID: 19011014-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.81	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,1,2,2-Tetrachloroethane	U		0.28	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,1,2-Trichloroethane	U		0.40	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,1,2-Trichlorotrifluoroethane	U		1.1	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,1-Dichloroethane	U		2.1	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,1-Dichloroethene	U		1.0	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,2,3-Trichlorobenzene	U		0.64	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,2,4-Trichlorobenzene	U		0.75	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,2-Dibromo-3-chloropropane	U		1.4	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,2-Dibromoethane	U		0.37	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,2-Dichlorobenzene	U		0.65	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,2-Dichloroethane	U		0.37	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,2-Dichloropropane	U		0.45	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,3-Dichlorobenzene	U		0.54	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
1,4-Dichlorobenzene	U		0.37	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
2-Butanone	U		2.0	10	µg/Kg-dry	0.828	1/24/2019 13:39
2-Hexanone	U		1.0	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
4-Methyl-2-pentanone	U		0.83	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Acetone	**14**		**2.2**	**10**	**µg/Kg-dry**	0.828	1/24/2019 13:39
Benzene	U		0.54	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Bromochloromethane	U		0.50	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Bromodichloromethane	U		0.33	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Bromoform	U		0.32	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Bromomethane	U		0.74	10	µg/Kg-dry	0.828	1/24/2019 13:39
Carbon disulfide	U		0.58	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Carbon tetrachloride	U		0.85	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Chlorobenzene	U		0.33	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Chloroethane	U		0.65	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Chloroform	U		0.31	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Chloromethane	U		0.47	10	µg/Kg-dry	0.828	1/24/2019 13:39
cis-1,2-Dichloroethene	U		0.49	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
cis-1,3-Dichloropropene	U		0.27	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Cyclohexane	U		3.1	10	µg/Kg-dry	0.828	1/24/2019 13:39
Dibromochloromethane	U		0.48	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Dichlorodifluoromethane	U		1.1	10	µg/Kg-dry	0.828	1/24/2019 13:39
Ethylbenzene	**0.97**	J	**0.62**	**5.1**	**µg/Kg-dry**	0.828	1/24/2019 13:39
Isopropylbenzene	**1.5**	J	**0.66**	**5.1**	**µg/Kg-dry**	0.828	1/24/2019 13:39
m,p-Xylene	**2.2**	J	**1.3**	**2.6**	**µg/Kg-dry**	0.828	1/24/2019 13:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-15 (0-2)
Collection Date: 1/16/2019 10:26 AM

Work Order: 19011014
Lab ID: 19011014-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.2	10	µg/Kg-dry	0.828	1/24/2019 13:39
Methyl tert-butyl ether	U		0.24	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Methylcyclohexane	U		1.5	10	µg/Kg-dry	0.828	1/24/2019 13:39
Methylene chloride	U		0.89	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
o-Xylene	**1.1**	J	**0.48**	**2.6**	**µg/Kg-dry**	0.828	1/24/2019 13:39
Styrene	U		0.41	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Tetrachloroethene	U		0.92	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Toluene	U		0.58	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
trans-1,2-Dichloroethene	U		0.41	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
trans-1,3-Dichloropropene	U		0.30	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Trichloroethene	U		0.74	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Trichlorofluoromethane	U		0.73	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Vinyl chloride	U		0.72	5.1	µg/Kg-dry	0.828	1/24/2019 13:39
Surr: 1,2-Dichloroethane-d4	*116*			*83-132*	*%REC*	0.828	1/24/2019 13:39
Surr: 4-Bromofluorobenzene	*93.3*			*83-111*	*%REC*	0.828	1/24/2019 13:39
Surr: Dibromofluoromethane	*76.8*	S		*77-125*	*%REC*	0.828	1/24/2019 13:39
Surr: Toluene-d8	*95.6*			*86-108*	*%REC*	0.828	1/24/2019 13:39

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**20**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-15 (8-9)
Collection Date: 1/16/2019 10:39 AM

Work Order: 19011014
Lab ID: 19011014-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.73	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,1,2,2-Tetrachloroethane	U		0.25	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,1,2-Trichloroethane	U		0.36	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,1,2-Trichlorotrifluoroethane	U		1.0	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,1-Dichloroethane	U		1.9	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,1-Dichloroethene	U		0.90	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,2,3-Trichlorobenzene	U		0.57	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,2,4-Trichlorobenzene	U		0.67	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,2-Dibromo-3-chloropropane	U		1.3	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,2-Dibromoethane	U		0.33	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,2-Dichlorobenzene	U		0.58	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,2-Dichloroethane	U		0.33	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,2-Dichloropropane	U		0.40	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,3-Dichlorobenzene	U		0.48	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
1,4-Dichlorobenzene	U		0.33	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
2-Butanone	U		1.7	9.2	µg/Kg-dry	0.781	1/24/2019 13:56
2-Hexanone	U		0.90	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
4-Methyl-2-pentanone	U		0.74	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Acetone	**8.8**	J	**1.9**	**9.2**	**µg/Kg-dry**	0.781	1/24/2019 13:56
Benzene	U		0.48	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Bromochloromethane	U		0.45	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Bromodichloromethane	U		0.29	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Bromoform	U		0.28	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Bromomethane	U		0.66	9.2	µg/Kg-dry	0.781	1/24/2019 13:56
Carbon disulfide	U		0.51	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Carbon tetrachloride	U		0.76	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Chlorobenzene	U		0.29	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Chloroethane	U		0.58	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Chloroform	U		0.28	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Chloromethane	U		0.42	9.2	µg/Kg-dry	0.781	1/24/2019 13:56
cis-1,2-Dichloroethene	U		0.44	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
cis-1,3-Dichloropropene	U		0.24	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Cyclohexane	U		2.8	9.2	µg/Kg-dry	0.781	1/24/2019 13:56
Dibromochloromethane	U		0.43	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Dichlorodifluoromethane	U		0.99	9.2	µg/Kg-dry	0.781	1/24/2019 13:56
Ethylbenzene	**0.84**	J	**0.55**	**4.6**	**µg/Kg-dry**	0.781	1/24/2019 13:56
Isopropylbenzene	**1.3**	J	**0.59**	**4.6**	**µg/Kg-dry**	0.781	1/24/2019 13:56
m,p-Xylene	**1.9**	J	**1.1**	**2.3**	**µg/Kg-dry**	0.781	1/24/2019 13:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-15 (8-9)
Collection Date: 1/16/2019 10:39 AM

Work Order: 19011014
Lab ID: 19011014-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.1	9.2	µg/Kg-dry	0.781	1/24/2019 13:56
Methyl tert-butyl ether	U		0.21	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Methylcyclohexane	U		1.4	9.2	µg/Kg-dry	0.781	1/24/2019 13:56
Methylene chloride	U		0.79	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
o-Xylene	**0.99**	J	**0.43**	**2.3**	**µg/Kg-dry**	0.781	1/24/2019 13:56
Styrene	U		0.37	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Tetrachloroethene	U		0.82	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Toluene	U		0.51	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
trans-1,2-Dichloroethene	U		0.37	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
trans-1,3-Dichloropropene	U		0.27	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Trichloroethene	U		0.66	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Trichlorofluoromethane	U		0.65	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Vinyl chloride	U		0.64	4.6	µg/Kg-dry	0.781	1/24/2019 13:56
Surr: 1,2-Dichloroethane-d4	*114*			*83-132*	*%REC*	0.781	1/24/2019 13:56
Surr: 4-Bromofluorobenzene	*90.2*			*83-111*	*%REC*	0.781	1/24/2019 13:56
Surr: Dibromofluoromethane	*67.9*	S		*77-125*	*%REC*	0.781	1/24/2019 13:56
Surr: Toluene-d8	*95.9*			*86-108*	*%REC*	0.781	1/24/2019 13:56
MOISTURE			Method: **SW3550C**				Analyst: **KTP**
Moisture	**15**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-16 (0-2)
Collection Date: 1/16/2019 10:50 AM

Work Order: 19011014
Lab ID: 19011014-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.76	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,1,2,2-Tetrachloroethane	U		0.26	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,1,2-Trichloroethane	U		0.38	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,1,2-Trichlorotrifluoroethane	U		1.1	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,1-Dichloroethane	U		2.0	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,1-Dichloroethene	U		0.94	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,2,3-Trichlorobenzene	U		0.60	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,2,4-Trichlorobenzene	U		0.70	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,2-Dibromo-3-chloropropane	U		1.3	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,2-Dibromoethane	U		0.35	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,2-Dichlorobenzene	U		0.61	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,2-Dichloroethane	U		0.35	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,2-Dichloropropane	U		0.42	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,3-Dichlorobenzene	U		0.50	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
1,4-Dichlorobenzene	U		0.35	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
2-Butanone	U		1.8	9.6	µg/Kg-dry	0.801	1/24/2019 14:12
2-Hexanone	U		0.94	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
4-Methyl-2-pentanone	U		0.78	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Acetone	**32**		**2.0**	**9.6**	**µg/Kg-dry**	0.801	1/24/2019 14:12
Benzene	U		0.50	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Bromochloromethane	U		0.47	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Bromodichloromethane	U		0.31	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Bromoform	U		0.30	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Bromomethane	U		0.69	9.6	µg/Kg-dry	0.801	1/24/2019 14:12
Carbon disulfide	U		0.54	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Carbon tetrachloride	U		0.80	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Chlorobenzene	U		0.31	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Chloroethane	U		0.61	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Chloroform	U		0.29	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Chloromethane	U		0.44	9.6	µg/Kg-dry	0.801	1/24/2019 14:12
cis-1,2-Dichloroethene	U		0.46	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
cis-1,3-Dichloropropene	U		0.25	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Cyclohexane	U		2.9	9.6	µg/Kg-dry	0.801	1/24/2019 14:12
Dibromochloromethane	U		0.45	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Dichlorodifluoromethane	U		1.0	9.6	µg/Kg-dry	0.801	1/24/2019 14:12
Ethylbenzene	**0.88**	J	**0.58**	**4.8**	**µg/Kg-dry**	0.801	1/24/2019 14:12
Isopropylbenzene	**1.4**	J	**0.62**	**4.8**	**µg/Kg-dry**	0.801	1/24/2019 14:12
m,p-Xylene	**2.0**	J	**1.2**	**2.4**	**µg/Kg-dry**	0.801	1/24/2019 14:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-16 (0-2)
Collection Date: 1/16/2019 10:50 AM

Work Order: 19011014
Lab ID: 19011014-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.2	9.6	µg/Kg-dry	0.801	1/24/2019 14:12
Methyl tert-butyl ether	U		0.22	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Methylcyclohexane	U		1.4	9.6	µg/Kg-dry	0.801	1/24/2019 14:12
Methylene chloride	U		0.83	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
o-Xylene	U		0.45	2.4	µg/Kg-dry	0.801	1/24/2019 14:12
Styrene	U		0.39	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Tetrachloroethene	U		0.86	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Toluene	U		0.54	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
trans-1,2-Dichloroethene	U		0.39	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
trans-1,3-Dichloropropene	U		0.28	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Trichloroethene	U		0.69	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Trichlorofluoromethane	U		0.68	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Vinyl chloride	U		0.67	4.8	µg/Kg-dry	0.801	1/24/2019 14:12
Surr: 1,2-Dichloroethane-d4	*114*			*83-132*	*%REC*	0.801	1/24/2019 14:12
Surr: 4-Bromofluorobenzene	*91.0*			*83-111*	*%REC*	0.801	1/24/2019 14:12
Surr: Dibromofluoromethane	*67.6*	S		*77-125*	*%REC*	0.801	1/24/2019 14:12
Surr: Toluene-d8	*94.8*			*86-108*	*%REC*	0.801	1/24/2019 14:12
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**17**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-16 (10.5-11.5)
Collection Date: 1/16/2019 11:15 AM

Work Order: 19011014
Lab ID: 19011014-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		19	41	µg/Kg-dry	1	1/22/2019 01:04
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	1/22/2019 01:04
1,1,2-Trichloroethane	U		18	41	µg/Kg-dry	1	1/22/2019 01:04
1,1,2-Trichlorotrifluoroethane	U		26	41	µg/Kg-dry	1	1/22/2019 01:04
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	1/22/2019 01:04
1,1-Dichloroethene	U		13	41	µg/Kg-dry	1	1/22/2019 01:04
1,2,3-Trichlorobenzene	U		20	41	µg/Kg-dry	1	1/22/2019 01:04
1,2,4-Trichlorobenzene	U		14	41	µg/Kg-dry	1	1/22/2019 01:04
1,2-Dibromo-3-chloropropane	U		38	140	µg/Kg-dry	1	1/22/2019 01:04
1,2-Dibromoethane	U		12	41	µg/Kg-dry	1	1/22/2019 01:04
1,2-Dichlorobenzene	U		16	41	µg/Kg-dry	1	1/22/2019 01:04
1,2-Dichloroethane	U		18	41	µg/Kg-dry	1	1/22/2019 01:04
1,2-Dichloropropane	U		7.2	41	µg/Kg-dry	1	1/22/2019 01:04
1,3-Dichlorobenzene	U		14	41	µg/Kg-dry	1	1/22/2019 01:04
1,4-Dichlorobenzene	U		10	41	µg/Kg-dry	1	1/22/2019 01:04
2-Butanone	U		34	280	µg/Kg-dry	1	1/22/2019 01:04
2-Hexanone	U		21	41	µg/Kg-dry	1	1/22/2019 01:04
4-Methyl-2-pentanone	U		20	41	µg/Kg-dry	1	1/22/2019 01:04
Acetone	U		43	140	µg/Kg-dry	1	1/22/2019 01:04
Benzene	U		7.1	41	µg/Kg-dry	1	1/22/2019 01:04
Bromochloromethane	U		21	41	µg/Kg-dry	1	1/22/2019 01:04
Bromodichloromethane	U		23	41	µg/Kg-dry	1	1/22/2019 01:04
Bromoform	U		17	41	µg/Kg-dry	1	1/22/2019 01:04
Bromomethane	U		79	140	µg/Kg-dry	1	1/22/2019 01:04
Carbon disulfide	U		21	41	µg/Kg-dry	1	1/22/2019 01:04
Carbon tetrachloride	U		16	41	µg/Kg-dry	1	1/22/2019 01:04
Chlorobenzene	U		14	41	µg/Kg-dry	1	1/22/2019 01:04
Chloroethane	U		14	140	µg/Kg-dry	1	1/22/2019 01:04
Chloroform	U		15	41	µg/Kg-dry	1	1/22/2019 01:04
Chloromethane	U		35	140	µg/Kg-dry	1	1/22/2019 01:04
cis-1,2-Dichloroethene	U		13	41	µg/Kg-dry	1	1/22/2019 01:04
cis-1,3-Dichloropropene	U		15	41	µg/Kg-dry	1	1/22/2019 01:04
Cyclohexane	U		13	41	µg/Kg-dry	1	1/22/2019 01:04
Dibromochloromethane	U		23	41	µg/Kg-dry	1	1/22/2019 01:04
Dichlorodifluoromethane	U		8.7	41	µg/Kg-dry	1	1/22/2019 01:04
Ethylbenzene	U		8.7	41	µg/Kg-dry	1	1/22/2019 01:04
Ethylene oxide	U		**0**	**410**	**µg/Kg-dry**	1	1/22/2019 01:04
Isopropylbenzene	U		13	41	µg/Kg-dry	1	1/22/2019 01:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-16 (10.5-11.5)
Collection Date: 1/16/2019 11:15 AM

Work Order: 19011014
Lab ID: 19011014-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
m,p-Xylene	U		20	83	µg/Kg-dry	1	1/22/2019 01:04
Methyl acetate	**40**	J	**19**	**280**	**µg/Kg-dry**	1	1/22/2019 01:04
Methyl tert-butyl ether	U		12	41	µg/Kg-dry	1	1/22/2019 01:04
Methylcyclohexane	U		16	41	µg/Kg-dry	1	1/22/2019 01:04
Methylene chloride	U		18	41	µg/Kg-dry	1	1/22/2019 01:04
o-Xylene	U		16	41	µg/Kg-dry	1	1/22/2019 01:04
Scan for Volatile Organics	U		**0**		**µg/Kg-dry**	1	1/22/2019 01:04
Styrene	U		16	41	µg/Kg-dry	1	1/22/2019 01:04
Tetrachloroethene	U		12	41	µg/Kg-dry	1	1/22/2019 01:04
Toluene	U		11	41	µg/Kg-dry	1	1/22/2019 01:04
trans-1,2-Dichloroethene	U		15	41	µg/Kg-dry	1	1/22/2019 01:04
trans-1,3-Dichloropropene	U		23	41	µg/Kg-dry	1	1/22/2019 01:04
Trichloroethene	U		19	41	µg/Kg-dry	1	1/22/2019 01:04
Trichlorofluoromethane	U		21	41	µg/Kg-dry	1	1/22/2019 01:04
Vinyl chloride	U		8.9	41	µg/Kg-dry	1	1/22/2019 01:04
Surr: 1,2-Dichloroethane-d4	*102*			*70-130*	*%REC*	1	1/22/2019 01:04
Surr: 4-Bromofluorobenzene	*96.0*			*70-130*	*%REC*	1	1/22/2019 01:04
Surr: Dibromofluoromethane	*96.2*			*70-130*	*%REC*	1	1/22/2019 01:04
Surr: Toluene-d8	*102*			*70-130*	*%REC*	1	1/22/2019 01:04
MOISTURE		Method: **SW3550C**					Analyst: **KTP**
Moisture	**16**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-17 (0-2)
Collection Date: 1/16/2019 11:28 AM

Work Order: 19011014
Lab ID: 19011014-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 1/21/19		Analyst: **WH**
Acetone	**50**	J	**45**	**140**	**µg/Kg-dry**	1	1/22/2019 17:24
Surr: 1,2-Dichloroethane-d4	*119*			*70-130*	*%REC*	1	1/22/2019 17:24
Surr: 4-Bromofluorobenzene	*98.8*			*70-130*	*%REC*	1	1/22/2019 17:24
Surr: Dibromofluoromethane	*115*			*70-130*	*%REC*	1	1/22/2019 17:24
Surr: Toluene-d8	*106*			*70-130*	*%REC*	1	1/22/2019 17:24
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **PM**
1,1,1-Trichloroethane	U		0.93	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,1,2,2-Tetrachloroethane	U		0.32	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,1,2-Trichloroethane	U		0.46	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,1,2-Trichlorotrifluoroethane	U		1.3	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,1-Dichloroethane	U		2.4	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,1-Dichloroethene	U		1.2	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,2,3-Trichlorobenzene	U		0.73	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,2,4-Trichlorobenzene	U		0.86	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,2-Dibromo-3-chloropropane	U		1.6	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,2-Dibromoethane	U		0.43	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,2-Dichlorobenzene	U		0.74	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,2-Dichloroethane	U		0.43	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,2-Dichloropropane	U		0.52	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,3-Dichlorobenzene	U		0.61	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
1,4-Dichlorobenzene	U		0.43	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
2-Butanone	**66**		**2.2**	**12**	**µg/Kg-dry**	0.963	1/24/2019 14:46
2-Hexanone	U		1.2	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
4-Methyl-2-pentanone	**1.9**	J	**0.96**	**5.9**	**µg/Kg-dry**	0.963	1/24/2019 14:46
Benzene	U		0.61	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Bromochloromethane	U		0.58	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Bromodichloromethane	U		0.38	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Bromoform	U		0.37	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Bromomethane	U		0.85	12	µg/Kg-dry	0.963	1/24/2019 14:46
Carbon disulfide	U		0.66	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Carbon tetrachloride	U		0.98	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Chlorobenzene	U		0.38	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Chloroethane	U		0.74	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Chloroform	U		0.35	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Chloromethane	U		0.54	12	µg/Kg-dry	0.963	1/24/2019 14:46
cis-1,2-Dichloroethene	U		0.57	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
cis-1,3-Dichloropropene	U		0.31	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Cyclohexane	U		3.6	12	µg/Kg-dry	0.963	1/24/2019 14:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-17 (0-2)
Collection Date: 1/16/2019 11:28 AM

Work Order: 19011014
Lab ID: 19011014-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.56	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Dichlorodifluoromethane	U		1.3	12	µg/Kg-dry	0.963	1/24/2019 14:46
Ethylbenzene	**1.2**	J	**0.71**	**5.9**	**µg/Kg-dry**	0.963	1/24/2019 14:46
Isopropylbenzene	**1.7**	J	**0.76**	**5.9**	**µg/Kg-dry**	0.963	1/24/2019 14:46
m,p-Xylene	**2.5**	J	**1.5**	**3.0**	**µg/Kg-dry**	0.963	1/24/2019 14:46
Methyl acetate	U		1.4	12	µg/Kg-dry	0.963	1/24/2019 14:46
Methyl tert-butyl ether	U		0.27	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Methylcyclohexane	U		1.8	12	µg/Kg-dry	0.963	1/24/2019 14:46
Methylene chloride	U		1.0	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
o-Xylene	**1.3**	J	**0.56**	**3.0**	**µg/Kg-dry**	0.963	1/24/2019 14:46
Styrene	U		0.47	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Tetrachloroethene	U		1.1	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Toluene	U		0.66	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
trans-1,2-Dichloroethene	U		0.47	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
trans-1,3-Dichloropropene	U		0.34	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Trichloroethene	U		0.85	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Trichlorofluoromethane	U		0.84	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Vinyl chloride	U		0.83	5.9	µg/Kg-dry	0.963	1/24/2019 14:46
Surr: 1,2-Dichloroethane-d4	*111*			*83-132*	*%REC*	0.963	1/24/2019 14:46
Surr: 4-Bromofluorobenzene	*84.1*			*83-111*	*%REC*	0.963	1/24/2019 14:46
Surr: Dibromofluoromethane	*57.3*	S		*77-125*	*%REC*	0.963	1/24/2019 14:46
Surr: Toluene-d8	*101*			*86-108*	*%REC*	0.963	1/24/2019 14:46
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**18**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-17 (9-10)
Collection Date: 1/16/2019 11:40 AM

Work Order: 19011014
Lab ID: 19011014-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		1.0	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,1,2,2-Tetrachloroethane	U		0.35	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,1,2-Trichloroethane	U		0.51	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,1,2-Trichlorotrifluoroethane	U		1.4	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,1-Dichloroethane	U		2.7	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,1-Dichloroethene	U		1.3	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,2,3-Trichlorobenzene	U		0.80	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,2,4-Trichlorobenzene	U		0.95	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,2-Dibromo-3-chloropropane	U		1.8	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,2-Dibromoethane	U		0.47	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,2-Dichlorobenzene	U		0.82	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,2-Dichloroethane	U		0.47	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,2-Dichloropropane	U		0.57	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,3-Dichlorobenzene	U		0.67	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
1,4-Dichlorobenzene	U		0.47	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
2-Butanone	U		2.5	13	µg/Kg-dry	1.12	1/24/2019 15:03
2-Hexanone	U		1.3	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
4-Methyl-2-pentanone	U		1.0	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Acetone	**78**		**2.7**	**13**	**µg/Kg-dry**	1.12	1/24/2019 15:03
Benzene	U		0.67	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Bromochloromethane	U		0.64	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Bromodichloromethane	U		0.41	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Bromoform	U		0.40	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Bromomethane	U		0.93	13	µg/Kg-dry	1.12	1/24/2019 15:03
Carbon disulfide	U		0.73	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Carbon tetrachloride	U		1.1	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Chlorobenzene	U		0.41	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Chloroethane	U		0.82	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Chloroform	U		0.39	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Chloromethane	U		0.60	13	µg/Kg-dry	1.12	1/24/2019 15:03
cis-1,2-Dichloroethene	U		0.62	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
cis-1,3-Dichloropropene	U		0.34	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Cyclohexane	U		4.0	13	µg/Kg-dry	1.12	1/24/2019 15:03
Dibromochloromethane	U		0.61	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Dichlorodifluoromethane	U		1.4	13	µg/Kg-dry	1.12	1/24/2019 15:03
Ethylbenzene	U		0.78	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Isopropylbenzene	**1.9**	J	**0.83**	**6.5**	**µg/Kg-dry**	1.12	1/24/2019 15:03
m,p-Xylene	**2.7**	J	**1.6**	**3.2**	**µg/Kg-dry**	1.12	1/24/2019 15:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-17 (9-10)
Collection Date: 1/16/2019 11:40 AM

Work Order: 19011014
Lab ID: 19011014-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.6	13	µg/Kg-dry	1.12	1/24/2019 15:03
Methyl tert-butyl ether	U		0.30	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Methylcyclohexane	U		1.9	13	µg/Kg-dry	1.12	1/24/2019 15:03
Methylene chloride	U		1.1	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
o-Xylene	U		0.61	3.2	µg/Kg-dry	1.12	1/24/2019 15:03
Styrene	U		0.52	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Tetrachloroethene	U		1.2	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Toluene	U		0.73	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
trans-1,2-Dichloroethene	U		0.52	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
trans-1,3-Dichloropropene	U		0.38	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Trichloroethene	U		0.93	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Trichlorofluoromethane	U		0.92	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Vinyl chloride	U		0.91	6.5	µg/Kg-dry	1.12	1/24/2019 15:03
Surr: 1,2-Dichloroethane-d4	*119*			*83-132*	*%REC*	1.12	1/24/2019 15:03
Surr: 4-Bromofluorobenzene	*90.0*			*83-111*	*%REC*	1.12	1/24/2019 15:03
Surr: Dibromofluoromethane	*59.2*	S		*77-125*	*%REC*	1.12	1/24/2019 15:03
Surr: Toluene-d8	*97.6*			*86-108*	*%REC*	1.12	1/24/2019 15:03
MOISTURE			Method: **SW3550C**				Analyst: **KTP**
Moisture	**14**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-18 (0-2)
Collection Date: 1/16/2019 12:45 PM

Work Order: 19011014
Lab ID: 19011014-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.85	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,1,2,2-Tetrachloroethane	U		0.29	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,1,2-Trichloroethane	U		0.42	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,1,2-Trichlorotrifluoroethane	U		1.2	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,1-Dichloroethane	U		2.2	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,1-Dichloroethene	U		1.1	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,2,3-Trichlorobenzene	U		0.67	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,2,4-Trichlorobenzene	U		0.79	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,2-Dibromo-3-chloropropane	U		1.5	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,2-Dibromoethane	U		0.39	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,2-Dichlorobenzene	U		0.68	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,2-Dichloroethane	U		0.39	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,2-Dichloropropane	U		0.48	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,3-Dichlorobenzene	U		0.56	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
1,4-Dichlorobenzene	U		0.39	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
2-Butanone	U		2.1	11	µg/Kg-dry	0.98	1/24/2019 15:20
2-Hexanone	U		1.1	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
4-Methyl-2-pentanone	U		0.88	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Acetone	**55**		**2.3**	**11**	**µg/Kg-dry**	0.98	1/24/2019 15:20
Benzene	**0.78**	J	**0.56**	**5.4**	**µg/Kg-dry**	0.98	1/24/2019 15:20
Bromochloromethane	U		0.53	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Bromodichloromethane	U		0.35	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Bromoform	U		0.34	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Bromomethane	U		0.78	11	µg/Kg-dry	0.98	1/24/2019 15:20
Carbon disulfide	U		0.61	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Carbon tetrachloride	U		0.90	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Chlorobenzene	U		0.35	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Chloroethane	U		0.68	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Chloroform	U		0.32	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Chloromethane	U		0.50	11	µg/Kg-dry	0.98	1/24/2019 15:20
cis-1,2-Dichloroethene	U		0.52	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
cis-1,3-Dichloropropene	U		0.28	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Cyclohexane	U		3.3	11	µg/Kg-dry	0.98	1/24/2019 15:20
Dibromochloromethane	U		0.51	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Dichlorodifluoromethane	U		1.2	11	µg/Kg-dry	0.98	1/24/2019 15:20
Ethylbenzene	**1.1**	J	**0.65**	**5.4**	**µg/Kg-dry**	0.98	1/24/2019 15:20
Isopropylbenzene	U		0.69	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
m,p-Xylene	**2.3**	J	**1.3**	**2.7**	**µg/Kg-dry**	0.98	1/24/2019 15:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-18 (0-2)
Collection Date: 1/16/2019 12:45 PM

Work Order: 19011014
Lab ID: 19011014-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.3	11	µg/Kg-dry	0.98	1/24/2019 15:20
Methyl tert-butyl ether	U		0.25	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Methylcyclohexane	U		1.6	11	µg/Kg-dry	0.98	1/24/2019 15:20
Methylene chloride	U		0.93	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
o-Xylene	**1.2**	J	**0.51**	**2.7**	**µg/Kg-dry**	0.98	1/24/2019 15:20
Styrene	U		0.43	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Tetrachloroethene	U		0.96	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Toluene	**0.78**	J	**0.61**	**5.4**	**µg/Kg-dry**	0.98	1/24/2019 15:20
trans-1,2-Dichloroethene	U		0.43	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
trans-1,3-Dichloropropene	U		0.31	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Trichloroethene	U		0.78	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Trichlorofluoromethane	U		0.77	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Vinyl chloride	U		0.76	5.4	µg/Kg-dry	0.98	1/24/2019 15:20
Surr: 1,2-Dichloroethane-d4	*114*			*83-132*	*%REC*	0.98	1/24/2019 15:20
Surr: 4-Bromofluorobenzene	*81.6*	S		*83-111*	*%REC*	0.98	1/24/2019 15:20
Surr: Dibromofluoromethane	*49.8*	S		*77-125*	*%REC*	0.98	1/24/2019 15:20
Surr: Toluene-d8	*100*			*86-108*	*%REC*	0.98	1/24/2019 15:20

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**9.4**	**0.10**	**0.10**	**% of sample**	1	1/21/2019 15:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-18 (10-11)
Collection Date: 1/16/2019 12:55 PM

Work Order: 19011014
Lab ID: 19011014-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.73	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,1,2,2-Tetrachloroethane	U		0.25	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,1,2-Trichloroethane	U		0.36	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,1,2-Trichlorotrifluoroethane	U		1.0	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,1-Dichloroethane	U		1.9	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,1-Dichloroethene	U		0.90	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,2,3-Trichlorobenzene	U		0.57	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,2,4-Trichlorobenzene	U		0.67	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,2-Dibromo-3-chloropropane	U		1.3	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,2-Dibromoethane	U		0.33	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,2-Dichlorobenzene	U		0.58	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,2-Dichloroethane	U		0.33	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,2-Dichloropropane	U		0.41	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,3-Dichlorobenzene	U		0.48	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
1,4-Dichlorobenzene	U		0.33	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
2-Butanone	U		1.8	9.2	µg/Kg-dry	0.781	1/24/2019 15:36
2-Hexanone	U		0.90	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
4-Methyl-2-pentanone	U		0.75	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Acetone	**17**		**1.9**	**9.2**	**µg/Kg-dry**	0.781	1/24/2019 15:36
Benzene	U		0.48	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Bromochloromethane	U		0.45	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Bromodichloromethane	U		0.29	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Bromoform	U		0.29	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Bromomethane	U		0.66	9.2	µg/Kg-dry	0.781	1/24/2019 15:36
Carbon disulfide	U		0.52	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Carbon tetrachloride	U		0.77	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Chlorobenzene	U		0.29	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Chloroethane	U		0.58	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Chloroform	U		0.28	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Chloromethane	U		0.42	9.2	µg/Kg-dry	0.781	1/24/2019 15:36
cis-1,2-Dichloroethene	U		0.44	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
cis-1,3-Dichloropropene	U		0.24	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Cyclohexane	U		2.8	9.2	µg/Kg-dry	0.781	1/24/2019 15:36
Dibromochloromethane	U		0.43	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Dichlorodifluoromethane	U		1.0	9.2	µg/Kg-dry	0.781	1/24/2019 15:36
Ethylbenzene	U		0.55	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Isopropylbenzene	U		0.59	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
m,p-Xylene	U		1.1	2.3	µg/Kg-dry	0.781	1/24/2019 15:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-18 (10-11)
Collection Date: 1/16/2019 12:55 PM

Work Order: 19011014
Lab ID: 19011014-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.1	9.2	µg/Kg-dry	0.781	1/24/2019 15:36
Methyl tert-butyl ether	U		0.21	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Methylcyclohexane	U		1.4	9.2	µg/Kg-dry	0.781	1/24/2019 15:36
Methylene chloride	U		0.79	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
o-Xylene	U		0.43	2.3	µg/Kg-dry	0.781	1/24/2019 15:36
Styrene	U		0.37	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Tetrachloroethene	U		0.82	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Toluene	U		0.52	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
trans-1,2-Dichloroethene	U		0.37	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
trans-1,3-Dichloropropene	U		0.27	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Trichloroethene	U		0.66	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Trichlorofluoromethane	U		0.65	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Vinyl chloride	U		0.65	4.6	µg/Kg-dry	0.781	1/24/2019 15:36
Surr: 1,2-Dichloroethane-d4	*115*			*83-132*	*%REC*	0.781	1/24/2019 15:36
Surr: 4-Bromofluorobenzene	*88.4*			*83-111*	*%REC*	0.781	1/24/2019 15:36
Surr: Dibromofluoromethane	*61.3*	S		*77-125*	*%REC*	0.781	1/24/2019 15:36
Surr: Toluene-d8	*98.2*			*86-108*	*%REC*	0.781	1/24/2019 15:36
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**15**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 15:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-19 (0-2)
Collection Date: 1/16/2019 01:10 PM

Work Order: 19011014
Lab ID: 19011014-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		21	46	µg/Kg-dry	1	1/22/2019 02:21
1,1,2,2-Tetrachloroethane	U		20	46	µg/Kg-dry	1	1/22/2019 02:21
1,1,2-Trichloroethane	U		20	46	µg/Kg-dry	1	1/22/2019 02:21
1,1,2-Trichlorotrifluoroethane	U		29	46	µg/Kg-dry	1	1/22/2019 02:21
1,1-Dichloroethane	U		17	46	µg/Kg-dry	1	1/22/2019 02:21
1,1-Dichloroethene	U		15	46	µg/Kg-dry	1	1/22/2019 02:21
1,2,3-Trichlorobenzene	U		22	46	µg/Kg-dry	1	1/22/2019 02:21
1,2,4-Trichlorobenzene	U		16	46	µg/Kg-dry	1	1/22/2019 02:21
1,2-Dibromo-3-chloropropane	U		42	150	µg/Kg-dry	1	1/22/2019 02:21
1,2-Dibromoethane	U		13	46	µg/Kg-dry	1	1/22/2019 02:21
1,2-Dichlorobenzene	U		17	46	µg/Kg-dry	1	1/22/2019 02:21
1,2-Dichloroethane	U		20	46	µg/Kg-dry	1	1/22/2019 02:21
1,2-Dichloropropane	U		8.0	46	µg/Kg-dry	1	1/22/2019 02:21
1,3-Dichlorobenzene	U		15	46	µg/Kg-dry	1	1/22/2019 02:21
1,4-Dichlorobenzene	U		11	46	µg/Kg-dry	1	1/22/2019 02:21
2-Butanone	U		38	310	µg/Kg-dry	1	1/22/2019 02:21
2-Hexanone	U		23	46	µg/Kg-dry	1	1/22/2019 02:21
4-Methyl-2-pentanone	U		22	46	µg/Kg-dry	1	1/22/2019 02:21
Acetone	**58**	J	**48**	**150**	**µg/Kg-dry**	1	1/22/2019 02:21
Benzene	U		7.9	46	µg/Kg-dry	1	1/22/2019 02:21
Bromochloromethane	U		23	46	µg/Kg-dry	1	1/22/2019 02:21
Bromodichloromethane	U		26	46	µg/Kg-dry	1	1/22/2019 02:21
Bromoform	U		19	46	µg/Kg-dry	1	1/22/2019 02:21
Bromomethane	U		88	150	µg/Kg-dry	1	1/22/2019 02:21
Carbon disulfide	U		24	46	µg/Kg-dry	1	1/22/2019 02:21
Carbon tetrachloride	U		18	46	µg/Kg-dry	1	1/22/2019 02:21
Chlorobenzene	U		15	46	µg/Kg-dry	1	1/22/2019 02:21
Chloroethane	U		16	150	µg/Kg-dry	1	1/22/2019 02:21
Chloroform	U		17	46	µg/Kg-dry	1	1/22/2019 02:21
Chloromethane	U		38	150	µg/Kg-dry	1	1/22/2019 02:21
cis-1,2-Dichloroethene	U		14	46	µg/Kg-dry	1	1/22/2019 02:21
cis-1,3-Dichloropropene	U		17	46	µg/Kg-dry	1	1/22/2019 02:21
Cyclohexane	U		15	46	µg/Kg-dry	1	1/22/2019 02:21
Dibromochloromethane	U		26	46	µg/Kg-dry	1	1/22/2019 02:21
Dichlorodifluoromethane	U		9.6	46	µg/Kg-dry	1	1/22/2019 02:21
Ethylbenzene	U		9.7	46	µg/Kg-dry	1	1/22/2019 02:21
Ethylene oxide	U		**0**	**460**	**µg/Kg-dry**	1	1/22/2019 02:21
Isopropylbenzene	U		14	46	µg/Kg-dry	1	1/22/2019 02:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-19 (0-2)
Collection Date: 1/16/2019 01:10 PM

Work Order: 19011014
Lab ID: 19011014-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
m,p-Xylene	U		22	92	µg/Kg-dry	1	1/22/2019 02:21
Methyl acetate	**260**	J	**21**	**310**	**µg/Kg-dry**	1	1/22/2019 02:21
Methyl tert-butyl ether	U		13	46	µg/Kg-dry	1	1/22/2019 02:21
Methylcyclohexane	U		18	46	µg/Kg-dry	1	1/22/2019 02:21
Methylene chloride	U		20	46	µg/Kg-dry	1	1/22/2019 02:21
o-Xylene	U		18	46	µg/Kg-dry	1	1/22/2019 02:21
Scan for Volatile Organics	U		**0**		**µg/Kg-dry**	1	1/22/2019 02:21
Styrene	U		18	46	µg/Kg-dry	1	1/22/2019 02:21
Tetrachloroethene	U		13	46	µg/Kg-dry	1	1/22/2019 02:21
Toluene	U		13	46	µg/Kg-dry	1	1/22/2019 02:21
trans-1,2-Dichloroethene	U		17	46	µg/Kg-dry	1	1/22/2019 02:21
trans-1,3-Dichloropropene	U		26	46	µg/Kg-dry	1	1/22/2019 02:21
Trichloroethene	U		21	46	µg/Kg-dry	1	1/22/2019 02:21
Trichlorofluoromethane	U		23	46	µg/Kg-dry	1	1/22/2019 02:21
Vinyl chloride	U		9.9	46	µg/Kg-dry	1	1/22/2019 02:21
Surr: 1,2-Dichloroethane-d4	*109*			*70-130*	*%REC*	1	1/22/2019 02:21
Surr: 4-Bromofluorobenzene	*98.2*			*70-130*	*%REC*	1	1/22/2019 02:21
Surr: Dibromofluoromethane	*106*			*70-130*	*%REC*	1	1/22/2019 02:21
Surr: Toluene-d8	*100*			*70-130*	*%REC*	1	1/22/2019 02:21

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**21**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 15:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-19 (8-9)
Collection Date: 1/16/2019 01:20 PM

Work Order: 19011014
Lab ID: 19011014-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 1/21/19		Analyst: **WH**
1,1,1-Trichloroethane	U		20	43	µg/Kg-dry	1	1/22/2019 02:37
1,1,2,2-Tetrachloroethane	U		19	43	µg/Kg-dry	1	1/22/2019 02:37
1,1,2-Trichloroethane	U		18	43	µg/Kg-dry	1	1/22/2019 02:37
1,1,2-Trichlorotrifluoroethane	U		27	43	µg/Kg-dry	1	1/22/2019 02:37
1,1-Dichloroethane	U		16	43	µg/Kg-dry	1	1/22/2019 02:37
1,1-Dichloroethene	U		14	43	µg/Kg-dry	1	1/22/2019 02:37
1,2,3-Trichlorobenzene	U		20	43	µg/Kg-dry	1	1/22/2019 02:37
1,2,4-Trichlorobenzene	U		15	43	µg/Kg-dry	1	1/22/2019 02:37
1,2-Dibromo-3-chloropropane	U		40	140	µg/Kg-dry	1	1/22/2019 02:37
1,2-Dibromoethane	U		12	43	µg/Kg-dry	1	1/22/2019 02:37
1,2-Dichlorobenzene	U		16	43	µg/Kg-dry	1	1/22/2019 02:37
1,2-Dichloroethane	U		19	43	µg/Kg-dry	1	1/22/2019 02:37
1,2-Dichloropropane	U		7.6	43	µg/Kg-dry	1	1/22/2019 02:37
1,3-Dichlorobenzene	U		14	43	µg/Kg-dry	1	1/22/2019 02:37
1,4-Dichlorobenzene	U		10	43	µg/Kg-dry	1	1/22/2019 02:37
2-Butanone	U		36	290	µg/Kg-dry	1	1/22/2019 02:37
2-Hexanone	U		21	43	µg/Kg-dry	1	1/22/2019 02:37
4-Methyl-2-pentanone	U		21	43	µg/Kg-dry	1	1/22/2019 02:37
Acetone	U		45	140	µg/Kg-dry	1	1/22/2019 02:37
Benzene	U		7.4	43	µg/Kg-dry	1	1/22/2019 02:37
Bromochloromethane	U		22	43	µg/Kg-dry	1	1/22/2019 02:37
Bromodichloromethane	U		24	43	µg/Kg-dry	1	1/22/2019 02:37
Bromoform	U		18	43	µg/Kg-dry	1	1/22/2019 02:37
Bromomethane	U		83	140	µg/Kg-dry	1	1/22/2019 02:37
Carbon disulfide	U		22	43	µg/Kg-dry	1	1/22/2019 02:37
Carbon tetrachloride	U		17	43	µg/Kg-dry	1	1/22/2019 02:37
Chlorobenzene	U		14	43	µg/Kg-dry	1	1/22/2019 02:37
Chloroethane	U		15	140	µg/Kg-dry	1	1/22/2019 02:37
Chloroform	U		16	43	µg/Kg-dry	1	1/22/2019 02:37
Chloromethane	U		36	140	µg/Kg-dry	1	1/22/2019 02:37
cis-1,2-Dichloroethene	U		14	43	µg/Kg-dry	1	1/22/2019 02:37
cis-1,3-Dichloropropene	U		16	43	µg/Kg-dry	1	1/22/2019 02:37
Cyclohexane	U		14	43	µg/Kg-dry	1	1/22/2019 02:37
Dibromochloromethane	U		24	43	µg/Kg-dry	1	1/22/2019 02:37
Dichlorodifluoromethane	U		9.0	43	µg/Kg-dry	1	1/22/2019 02:37
Ethylbenzene	U		9.1	43	µg/Kg-dry	1	1/22/2019 02:37
Ethylene oxide	U		**0**	**430**	**µg/Kg-dry**	1	1/22/2019 02:37
Isopropylbenzene	U		13	43	µg/Kg-dry	1	1/22/2019 02:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-19 (8-9)
Collection Date: 1/16/2019 01:20 PM

Work Order: 19011014
Lab ID: 19011014-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
m,p-Xylene	U		21	86	µg/Kg-dry	1	1/22/2019 02:37
Methyl acetate	**42**	J	**19**	**290**	**µg/Kg-dry**	1	1/22/2019 02:37
Methyl tert-butyl ether	U		12	43	µg/Kg-dry	1	1/22/2019 02:37
Methylcyclohexane	U		16	43	µg/Kg-dry	1	1/22/2019 02:37
Methylene chloride	U		18	43	µg/Kg-dry	1	1/22/2019 02:37
o-Xylene	U		17	43	µg/Kg-dry	1	1/22/2019 02:37
Scan for Volatile Organics	U		**0**		**µg/Kg-dry**	1	1/22/2019 02:37
Styrene	U		17	43	µg/Kg-dry	1	1/22/2019 02:37
Tetrachloroethene	U		13	43	µg/Kg-dry	1	1/22/2019 02:37
Toluene	U		12	43	µg/Kg-dry	1	1/22/2019 02:37
trans-1,2-Dichloroethene	U		16	43	µg/Kg-dry	1	1/22/2019 02:37
trans-1,3-Dichloropropene	U		24	43	µg/Kg-dry	1	1/22/2019 02:37
Trichloroethene	U		19	43	µg/Kg-dry	1	1/22/2019 02:37
Trichlorofluoromethane	U		22	43	µg/Kg-dry	1	1/22/2019 02:37
Vinyl chloride	U		9.3	43	µg/Kg-dry	1	1/22/2019 02:37
Surr: 1,2-Dichloroethane-d4	*108*			*70-130*	*%REC*	1	1/22/2019 02:37
Surr: 4-Bromofluorobenzene	*99.4*			*70-130*	*%REC*	1	1/22/2019 02:37
Surr: Dibromofluoromethane	*104*			*70-130*	*%REC*	1	1/22/2019 02:37
Surr: Toluene-d8	*101*			*70-130*	*%REC*	1	1/22/2019 02:37
MOISTURE		Method: **SW3550C**					Analyst: **KTP**
Moisture	**18**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 15:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-20 (0-2)
Collection Date: 1/16/2019 01:36 PM

Work Order: 19011014
Lab ID: 19011014-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.84	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,1,2,2-Tetrachloroethane	U		0.29	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,1,2-Trichloroethane	U		0.42	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,1,2-Trichlorotrifluoroethane	U		1.2	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,1-Dichloroethane	U		2.2	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,1-Dichloroethene	U		1.0	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,2,3-Trichlorobenzene	U		0.66	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,2,4-Trichlorobenzene	U		0.78	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,2-Dibromo-3-chloropropane	U		1.5	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,2-Dibromoethane	U		0.38	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,2-Dichlorobenzene	U		0.67	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,2-Dichloroethane	U		0.38	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,2-Dichloropropane	U		0.47	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,3-Dichlorobenzene	U		0.55	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
1,4-Dichlorobenzene	U		0.38	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
2-Butanone	U		2.0	11	µg/Kg-dry	0.821	1/24/2019 16:27
2-Hexanone	U		1.0	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
4-Methyl-2-pentanone	U		0.86	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Acetone	**71**		**2.2**	**11**	**µg/Kg-dry**	0.821	1/24/2019 16:27
Benzene	U		0.55	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Bromochloromethane	U		0.52	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Bromodichloromethane	U		0.34	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Bromoform	U		0.33	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Bromomethane	U		0.77	11	µg/Kg-dry	0.821	1/24/2019 16:27
Carbon disulfide	U		0.60	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Carbon tetrachloride	U		0.88	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Chlorobenzene	U		0.34	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Chloroethane	U		0.67	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Chloroform	U		0.32	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Chloromethane	U		0.49	11	µg/Kg-dry	0.821	1/24/2019 16:27
cis-1,2-Dichloroethene	U		0.51	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
cis-1,3-Dichloropropene	U		0.28	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Cyclohexane	U		3.2	11	µg/Kg-dry	0.821	1/24/2019 16:27
Dibromochloromethane	U		0.50	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Dichlorodifluoromethane	U		1.1	11	µg/Kg-dry	0.821	1/24/2019 16:27
Ethylbenzene	U		0.64	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Isopropylbenzene	U		0.68	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
m,p-Xylene	**2.1**	J	**1.3**	**2.7**	**µg/Kg-dry**	0.821	1/24/2019 16:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-20 (0-2)
Collection Date: 1/16/2019 01:36 PM

Work Order: 19011014
Lab ID: 19011014-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.3	11	µg/Kg-dry	0.821	1/24/2019 16:27
Methyl tert-butyl ether	U		0.24	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Methylcyclohexane	U		1.6	11	µg/Kg-dry	0.821	1/24/2019 16:27
Methylene chloride	U		0.92	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
o-Xylene	U		0.50	2.7	µg/Kg-dry	0.821	1/24/2019 16:27
Styrene	U		0.43	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Tetrachloroethene	U		0.95	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Toluene	U		0.60	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
trans-1,2-Dichloroethene	U		0.43	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
trans-1,3-Dichloropropene	U		0.31	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Trichloroethene	U		0.77	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Trichlorofluoromethane	U		0.76	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Vinyl chloride	U		0.74	5.3	µg/Kg-dry	0.821	1/24/2019 16:27
Surr: 1,2-Dichloroethane-d4	*121*			*83-132*	*%REC*	0.821	1/24/2019 16:27
Surr: 4-Bromofluorobenzene	*90.5*			*83-111*	*%REC*	0.821	1/24/2019 16:27
Surr: Dibromofluoromethane	*77.6*			*77-125*	*%REC*	0.821	1/24/2019 16:27
Surr: Toluene-d8	*94.0*			*86-108*	*%REC*	0.821	1/24/2019 16:27

MOISTURE Method: **SW3550C** Analyst: **KTP**

Moisture	**23**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 15:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-20 (9-10)
Collection Date: 1/16/2019 01:45 PM

Work Order: 19011014
Lab ID: 19011014-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 1/21/19		Analyst: **WH**
Acetone	U		43	140	µg/Kg-dry	1	1/22/2019 17:39
Surr: 1,2-Dichloroethane-d4	*121*			*70-130*	*%REC*	1	1/22/2019 17:39
Surr: 4-Bromofluorobenzene	*96.3*			*70-130*	*%REC*	1	1/22/2019 17:39
Surr: Dibromofluoromethane	*114*			*70-130*	*%REC*	1	1/22/2019 17:39
Surr: Toluene-d8	*103*			*70-130*	*%REC*	1	1/22/2019 17:39
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **PM**
1,1,1-Trichloroethane	U		0.75	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,1,2,2-Tetrachloroethane	U		0.26	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,1,2-Trichloroethane	U		0.37	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,1,2-Trichlorotrifluoroethane	U		1.0	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,1-Dichloroethane	U		2.0	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,1-Dichloroethene	U		0.93	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,2,3-Trichlorobenzene	U		0.59	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,2,4-Trichlorobenzene	U		0.69	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,2-Dibromo-3-chloropropane	U		1.3	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,2-Dibromoethane	U		0.34	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,2-Dichlorobenzene	U		0.60	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,2-Dichloroethane	U		0.34	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,2-Dichloropropane	U		0.42	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,3-Dichlorobenzene	U		0.49	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
1,4-Dichlorobenzene	U		0.34	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
2-Butanone	**12**		**1.8**	**9.5**	**µg/Kg-dry**	0.792	1/24/2019 16:43
2-Hexanone	U		0.93	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
4-Methyl-2-pentanone	U		0.77	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Benzene	U		0.49	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Bromochloromethane	U		0.46	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Bromodichloromethane	U		0.30	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Bromoform	U		0.29	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Bromomethane	U		0.68	9.5	µg/Kg-dry	0.792	1/24/2019 16:43
Carbon disulfide	U		0.53	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Carbon tetrachloride	U		0.79	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Chlorobenzene	U		0.30	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Chloroethane	U		0.60	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Chloroform	U		0.28	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Chloromethane	U		0.44	9.5	µg/Kg-dry	0.792	1/24/2019 16:43
cis-1,2-Dichloroethene	U		0.45	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
cis-1,3-Dichloropropene	U		0.25	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Cyclohexane	U		2.9	9.5	µg/Kg-dry	0.792	1/24/2019 16:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-20 (9-10)
Collection Date: 1/16/2019 01:45 PM

Work Order: 19011014
Lab ID: 19011014-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.44	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Dichlorodifluoromethane	U		1.0	9.5	µg/Kg-dry	0.792	1/24/2019 16:43
Ethylbenzene	U		0.57	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Isopropylbenzene	U		0.61	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
m,p-Xylene	U		1.2	2.4	µg/Kg-dry	0.792	1/24/2019 16:43
Methyl acetate	U		1.1	9.5	µg/Kg-dry	0.792	1/24/2019 16:43
Methyl tert-butyl ether	U		0.22	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Methylcyclohexane	U		1.4	9.5	µg/Kg-dry	0.792	1/24/2019 16:43
Methylene chloride	U		0.81	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
o-Xylene	U		0.44	2.4	µg/Kg-dry	0.792	1/24/2019 16:43
Styrene	U		0.38	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Tetrachloroethene	U		0.84	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Toluene	U		0.53	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
trans-1,2-Dichloroethene	U		0.38	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
trans-1,3-Dichloropropene	U		0.27	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Trichloroethene	U		0.68	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Trichlorofluoromethane	U		0.67	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Vinyl chloride	U		0.66	4.7	µg/Kg-dry	0.792	1/24/2019 16:43
Surr: 1,2-Dichloroethane-d4	*114*			*83-132*	*%REC*	0.792	1/24/2019 16:43
Surr: 4-Bromofluorobenzene	*89.1*			*83-111*	*%REC*	0.792	1/24/2019 16:43
Surr: Dibromofluoromethane	*58.8*	S		*77-125*	*%REC*	0.792	1/24/2019 16:43
Surr: Toluene-d8	*96.2*			*86-108*	*%REC*	0.792	1/24/2019 16:43
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**16**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 15:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-21 (0-2)
Collection Date: 1/16/2019 01:56 PM

Work Order: 19011014
Lab ID: 19011014-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 1/21/19		Analyst: **BG**
Acetone	U		52	170	µg/Kg-dry	1	1/22/2019 15:01
Surr: 1,2-Dichloroethane-d4	*89.6*			*70-130*	*%REC*	1	1/22/2019 15:01
Surr: 4-Bromofluorobenzene	*97.0*			*70-130*	*%REC*	1	1/22/2019 15:01
Surr: Dibromofluoromethane	*103*			*70-130*	*%REC*	1	1/22/2019 15:01
Surr: Toluene-d8	*94.1*			*70-130*	*%REC*	1	1/22/2019 15:01
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **PM**
1,1,1-Trichloroethane	U		0.98	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,1,2,2-Tetrachloroethane	U		0.34	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,1,2-Trichloroethane	U		0.49	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,1,2-Trichlorotrifluoroethane	U		1.4	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,1-Dichloroethane	U		2.6	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,1-Dichloroethene	U		1.2	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,2,3-Trichlorobenzene	U		0.77	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,2,4-Trichlorobenzene	U		0.91	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,2-Dibromo-3-chloropropane	U		1.7	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,2-Dibromoethane	U		0.45	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,2-Dichlorobenzene	U		0.78	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,2-Dichloroethane	U		0.45	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,2-Dichloropropane	U		0.55	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,3-Dichlorobenzene	U		0.65	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
1,4-Dichlorobenzene	U		0.45	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
2-Butanone	**25**		**2.4**	**12**	**µg/Kg-dry**	0.928	1/24/2019 17:00
2-Hexanone	U		1.2	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
4-Methyl-2-pentanone	U		1.0	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Benzene	U		0.65	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Bromochloromethane	U		0.61	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Bromodichloromethane	U		0.40	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Bromoform	U		0.39	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Bromomethane	U		0.90	12	µg/Kg-dry	0.928	1/24/2019 17:00
Carbon disulfide	U		0.70	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Carbon tetrachloride	U		1.0	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Chlorobenzene	U		0.40	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Chloroethane	U		0.78	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Chloroform	U		0.37	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Chloromethane	U		0.57	12	µg/Kg-dry	0.928	1/24/2019 17:00
cis-1,2-Dichloroethene	U		0.60	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
cis-1,3-Dichloropropene	U		0.32	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Cyclohexane	U		3.8	12	µg/Kg-dry	0.928	1/24/2019 17:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-21 (0-2)
Collection Date: 1/16/2019 01:56 PM

Work Order: 19011014
Lab ID: 19011014-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.58	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Dichlorodifluoromethane	U		1.3	12	µg/Kg-dry	0.928	1/24/2019 17:00
Ethylbenzene	U		0.75	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Isopropylbenzene	U		0.80	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
m,p-Xylene	U		1.5	3.1	µg/Kg-dry	0.928	1/24/2019 17:00
Methyl acetate	U		1.5	12	µg/Kg-dry	0.928	1/24/2019 17:00
Methyl tert-butyl ether	U		0.29	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Methylcyclohexane	U		1.9	12	µg/Kg-dry	0.928	1/24/2019 17:00
Methylene chloride	U		1.1	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
o-Xylene	U		0.58	3.1	µg/Kg-dry	0.928	1/24/2019 17:00
Styrene	U		0.50	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Tetrachloroethene	U		1.1	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Toluene	U		0.70	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
trans-1,2-Dichloroethene	U		0.50	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
trans-1,3-Dichloropropene	U		0.36	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Trichloroethene	U		0.90	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Trichlorofluoromethane	U		0.88	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Vinyl chloride	U		0.87	6.2	µg/Kg-dry	0.928	1/24/2019 17:00
Surr: 1,2-Dichloroethane-d4	*113*			*83-132*	*%REC*	0.928	1/24/2019 17:00
Surr: 4-Bromofluorobenzene	*86.2*			*83-111*	*%REC*	0.928	1/24/2019 17:00
Surr: Dibromofluoromethane	*63.8*	S		*77-125*	*%REC*	0.928	1/24/2019 17:00
Surr: Toluene-d8	*98.2*			*86-108*	*%REC*	0.928	1/24/2019 17:00
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**25**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 15:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-21 (10-11)
Collection Date: 1/16/2019 02:05 PM

Work Order: 19011014
Lab ID: 19011014-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 1/21/19		Analyst: **BG**
Acetone	U		45	140	µg/Kg-dry	1	1/22/2019 15:25
Surr: 1,2-Dichloroethane-d4	*95.2*			*70-130*	*%REC*	1	1/22/2019 15:25
Surr: 4-Bromofluorobenzene	*102*			*70-130*	*%REC*	1	1/22/2019 15:25
Surr: Dibromofluoromethane	*107*			*70-130*	*%REC*	1	1/22/2019 15:25
Surr: Toluene-d8	*92.9*			*70-130*	*%REC*	1	1/22/2019 15:25
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**				Analyst: **PM**
1,1,1-Trichloroethane	U		0.84	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,1,2,2-Tetrachloroethane	U		0.29	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,1,2-Trichloroethane	U		0.41	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,1,2-Trichlorotrifluoroethane	U		1.2	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,1-Dichloroethane	U		2.2	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,1-Dichloroethene	U		1.0	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,2,3-Trichlorobenzene	U		0.66	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,2,4-Trichlorobenzene	U		0.77	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,2-Dibromo-3-chloropropane	U		1.5	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,2-Dibromoethane	U		0.38	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,2-Dichlorobenzene	U		0.67	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,2-Dichloroethane	U		0.38	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,2-Dichloropropane	U		0.47	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,3-Dichlorobenzene	U		0.55	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
1,4-Dichlorobenzene	U		0.38	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
2-Butanone	**24**		**2.0**	**11**	**µg/Kg-dry**	0.867	1/24/2019 17:17
2-Hexanone	U		1.0	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
4-Methyl-2-pentanone	U		0.86	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Benzene	U		0.55	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Bromochloromethane	U		0.52	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Bromodichloromethane	U		0.34	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Bromoform	U		0.33	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Bromomethane	U		0.76	11	µg/Kg-dry	0.867	1/24/2019 17:17
Carbon disulfide	U		0.59	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Carbon tetrachloride	U		0.88	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Chlorobenzene	U		0.34	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Chloroethane	U		0.67	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Chloroform	U		0.32	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Chloromethane	U		0.49	11	µg/Kg-dry	0.867	1/24/2019 17:17
cis-1,2-Dichloroethene	U		0.51	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
cis-1,3-Dichloropropene	U		0.28	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Cyclohexane	U		3.2	11	µg/Kg-dry	0.867	1/24/2019 17:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: B-21 (10-11)
Collection Date: 1/16/2019 02:05 PM

Work Order: 19011014
Lab ID: 19011014-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.50	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Dichlorodifluoromethane	U		1.1	11	µg/Kg-dry	0.867	1/24/2019 17:17
Ethylbenzene	U		0.64	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Isopropylbenzene	U		0.68	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
m,p-Xylene	U		1.3	2.7	µg/Kg-dry	0.867	1/24/2019 17:17
Methyl acetate	U		1.3	11	µg/Kg-dry	0.867	1/24/2019 17:17
Methyl tert-butyl ether	U		0.24	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Methylcyclohexane	U		1.6	11	µg/Kg-dry	0.867	1/24/2019 17:17
Methylene chloride	U		0.91	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
o-Xylene	U		0.50	2.7	µg/Kg-dry	0.867	1/24/2019 17:17
Styrene	U		0.42	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Tetrachloroethene	U		0.94	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Toluene	U		0.59	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
trans-1,2-Dichloroethene	U		0.42	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
trans-1,3-Dichloropropene	U		0.31	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Trichloroethene	U		0.76	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Trichlorofluoromethane	U		0.75	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Vinyl chloride	U		0.74	5.3	µg/Kg-dry	0.867	1/24/2019 17:17
Surr: 1,2-Dichloroethane-d4	*111*			*83-132*	*%REC*	0.867	1/24/2019 17:17
Surr: 4-Bromofluorobenzene	*89.6*			*83-111*	*%REC*	0.867	1/24/2019 17:17
Surr: Dibromofluoromethane	*67.5*	S		*77-125*	*%REC*	0.867	1/24/2019 17:17
Surr: Toluene-d8	*99.6*			*86-108*	*%REC*	0.867	1/24/2019 17:17
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**18**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 15:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: DUP-1
Collection Date: 1/16/2019

Work Order: 19011014
Lab ID: 19011014-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.98	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,1,2,2-Tetrachloroethane	U		0.33	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,1,2-Trichloroethane	U		0.48	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,1,2-Trichlorotrifluoroethane	U		1.4	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,1-Dichloroethane	U		2.6	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,1-Dichloroethene	U		1.2	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,2,3-Trichlorobenzene	U		0.77	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,2,4-Trichlorobenzene	U		0.90	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,2-Dibromo-3-chloropropane	U		1.7	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,2-Dibromoethane	U		0.45	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,2-Dichlorobenzene	U		0.78	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,2-Dichloroethane	U		0.45	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,2-Dichloropropane	U		0.54	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,3-Dichlorobenzene	U		0.64	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
1,4-Dichlorobenzene	U		0.45	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
2-Butanone	U		2.4	12	µg/Kg-dry	0.909	1/24/2019 17:34
2-Hexanone	U		1.2	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
4-Methyl-2-pentanone	U		1.0	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Acetone	**88**		**2.6**	**12**	**µg/Kg-dry**	0.909	1/24/2019 17:34
Benzene	U		0.64	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Bromochloromethane	U		0.61	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Bromodichloromethane	U		0.40	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Bromoform	U		0.38	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Bromomethane	U		0.89	12	µg/Kg-dry	0.909	1/24/2019 17:34
Carbon disulfide	U		0.69	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Carbon tetrachloride	U		1.0	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Chlorobenzene	U		0.40	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Chloroethane	U		0.78	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Chloroform	U		0.37	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Chloromethane	U		0.57	12	µg/Kg-dry	0.909	1/24/2019 17:34
cis-1,2-Dichloroethene	U		0.59	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
cis-1,3-Dichloropropene	U		0.32	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Cyclohexane	U		3.8	12	µg/Kg-dry	0.909	1/24/2019 17:34
Dibromochloromethane	U		0.58	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Dichlorodifluoromethane	U		1.3	12	µg/Kg-dry	0.909	1/24/2019 17:34
Ethylbenzene	U		0.74	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Isopropylbenzene	U		0.79	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
m,p-Xylene	U		1.5	3.1	µg/Kg-dry	0.909	1/24/2019 17:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: DUP-1
Collection Date: 1/16/2019

Work Order: 19011014
Lab ID: 19011014-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl acetate	U		1.5	12	µg/Kg-dry	0.909	1/24/2019 17:34
Methyl tert-butyl ether	U		0.28	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Methylcyclohexane	U		1.8	12	µg/Kg-dry	0.909	1/24/2019 17:34
Methylene chloride	U		1.1	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
o-Xylene	U		0.58	3.1	µg/Kg-dry	0.909	1/24/2019 17:34
Styrene	U		0.50	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Tetrachloroethene	U		1.1	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Toluene	U		0.69	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
trans-1,2-Dichloroethene	U		0.50	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
trans-1,3-Dichloropropene	U		0.36	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Trichloroethene	U		0.89	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Trichlorofluoromethane	U		0.88	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Vinyl chloride	U		0.87	6.2	µg/Kg-dry	0.909	1/24/2019 17:34
Surr: 1,2-Dichloroethane-d4	*113*			*83-132*	*%REC*	0.909	1/24/2019 17:34
Surr: 4-Bromofluorobenzene	*90.8*			*83-111*	*%REC*	0.909	1/24/2019 17:34
Surr: Dibromofluoromethane	*67.8*	S		*77-125*	*%REC*	0.909	1/24/2019 17:34
Surr: Toluene-d8	*95.6*			*86-108*	*%REC*	0.909	1/24/2019 17:34
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**27**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: DUP-2
Collection Date: 1/16/2019

Work Order: 19011014
Lab ID: 19011014-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 1/21/19		Analyst: **PM**
Acetone	U		48	150	µg/Kg-dry	1	1/22/2019 15:22
Surr: 1,2-Dichloroethane-d4	*105*			*70-130*	*%REC*	1	1/22/2019 15:22
Surr: 4-Bromofluorobenzene	*96.1*			*70-130*	*%REC*	1	1/22/2019 15:22
Surr: Dibromofluoromethane	*103*			*70-130*	*%REC*	1	1/22/2019 15:22
Surr: Toluene-d8	*98.2*			*70-130*	*%REC*	1	1/22/2019 15:22
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **PM**
1,1,1-Trichloroethane	U		0.85	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,1,2,2-Tetrachloroethane	U		0.29	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,1,2-Trichloroethane	U		0.42	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,1,2-Trichlorotrifluoroethane	U		1.2	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,1-Dichloroethane	U		2.2	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,1-Dichloroethene	U		1.1	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,2,3-Trichlorobenzene	U		0.67	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,2,4-Trichlorobenzene	U		0.79	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,2-Dibromo-3-chloropropane	U		1.5	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,2-Dibromoethane	U		0.39	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,2-Dichlorobenzene	U		0.68	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,2-Dichloroethane	U		0.39	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,2-Dichloropropane	U		0.47	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,3-Dichlorobenzene	U		0.56	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
1,4-Dichlorobenzene	U		0.39	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
2-Butanone	U		2.0	11	µg/Kg-dry	0.849	1/24/2019 17:50
2-Hexanone	U		1.1	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
4-Methyl-2-pentanone	U		0.87	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Benzene	U		0.56	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Bromochloromethane	U		0.53	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Bromodichloromethane	U		0.34	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Bromoform	U		0.33	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Bromomethane	U		0.77	11	µg/Kg-dry	0.849	1/24/2019 17:50
Carbon disulfide	U		0.60	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Carbon tetrachloride	U		0.89	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Chlorobenzene	U		0.34	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Chloroethane	U		0.68	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Chloroform	U		0.32	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Chloromethane	U		0.49	11	µg/Kg-dry	0.849	1/24/2019 17:50
cis-1,2-Dichloroethene	U		0.52	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
cis-1,3-Dichloropropene	U		0.28	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Cyclohexane	U		3.3	11	µg/Kg-dry	0.849	1/24/2019 17:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *25-Jan-19*

Client: Tetra Tech
Project: Holden Business Park (103X9025140002.056)
Sample ID: DUP-2
Collection Date: 1/16/2019

Work Order: 19011014
Lab ID: 19011014-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.51	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Dichlorodifluoromethane	U		1.2	11	µg/Kg-dry	0.849	1/24/2019 17:50
Ethylbenzene	U		0.65	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Isopropylbenzene	U		0.69	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
m,p-Xylene	**2.2**	J	**1.3**	**2.7**	**µg/Kg-dry**	0.849	1/24/2019 17:50
Methyl acetate	U		1.3	11	µg/Kg-dry	0.849	1/24/2019 17:50
Methyl tert-butyl ether	U		0.25	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Methylcyclohexane	U		1.6	11	µg/Kg-dry	0.849	1/24/2019 17:50
Methylene chloride	U		0.93	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
o-Xylene	U		0.51	2.7	µg/Kg-dry	0.849	1/24/2019 17:50
Styrene	U		0.43	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Tetrachloroethene	U		0.96	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Toluene	U		0.60	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
trans-1,2-Dichloroethene	U		0.43	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
trans-1,3-Dichloropropene	U		0.31	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Trichloroethene	U		0.77	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Trichlorofluoromethane	U		0.76	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Vinyl chloride	U		0.75	5.4	µg/Kg-dry	0.849	1/24/2019 17:50
Surr: 1,2-Dichloroethane-d4	*118*			*83-132*	*%REC*	0.849	1/24/2019 17:50
Surr: 4-Bromofluorobenzene	*90.6*			*83-111*	*%REC*	0.849	1/24/2019 17:50
Surr: Dibromofluoromethane	*63.4*	S		*77-125*	*%REC*	0.849	1/24/2019 17:50
Surr: Toluene-d8	*96.8*			*86-108*	*%REC*	0.849	1/24/2019 17:50
MOISTURE		Method:	**SW3550C**				Analyst: **KTP**
Moisture	**21**		**0.10**	**0.10**	**% of sample**	1	1/21/2019 13:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Jan-19

Client: Tetra Tech

Work Order: 19011014

Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **130964** Instrument ID **VMS7** Method: **SW8260C**

MBLK Sample ID: **MBLK-130964-130964** Units: **µg/Kg-dry** Analysis Date: **1/21/2019 09:58 PM**

Client ID: Run ID: **VMS7_190121B** SeqNo: **5489852** Prep Date: **1/21/2019** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	14	30								
1,1,2,2-Tetrachloroethane	U	13	30								
1,1,2-Trichloroethane	U	13	30								
1,1,2-Trichlorotrifluoroethane	U	19	30								
1,1-Dichloroethane	U	11	30								
1,1-Dichloroethene	U	9.7	30								
1,2,3-Trichlorobenzene	U	14	30								
1,2,4-Trichlorobenzene	14	10	30								J
1,2-Dibromo-3-chloropropane	U	28	100								
1,2-Dibromoethane	U	8.4	30								
1,2-Dichlorobenzene	U	11	30								
1,2-Dichloroethane	U	13	30								
1,2-Dichloropropane	U	5.2	30								
1,3-Dichlorobenzene	U	10	30								
1,4-Dichlorobenzene	U	7.2	30								
2-Butanone	U	25	200								
2-Hexanone	U	15	30								
4-Methyl-2-pentanone	U	14	30								
Acetone	U	31	100								
Benzene	U	5.1	30								
Bromochloromethane	U	15	30								
Bromodichloromethane	U	17	30								
Bromoform	U	13	30								
Bromomethane	U	57	100								
Carbon disulfide	U	16	30								
Carbon tetrachloride	U	12	30								
Chlorobenzene	U	10	30								
Chloroethane	U	10	100								
Chloroform	U	11	30								
Chloromethane	27.5	25	100								J
cis-1,2-Dichloroethene	U	9.4	30								
cis-1,3-Dichloropropene	U	11	30								
Cyclohexane	U	9.8	30								
Dibromochloromethane	U	17	30								
Dichlorodifluoromethane	U	6.3	30								
Ethylbenzene	U	6.3	30								
Isopropylbenzene	U	9.2	30								
m,p-Xylene	U	14	60								
Methyl acetate	U	13	200								
Methyl tert-butyl ether	U	8.6	30								
Methylcyclohexane	U	11	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **130964** Instrument ID **VMS7** Method: **SW8260C**

Methylene chloride	U	13	30					
o-Xylene	U	12	30					
Styrene	U	12	30					
Tetrachloroethene	U	8.7	30					
Toluene	U	8.2	30					
trans-1,2-Dichloroethene	U	11	30					
trans-1,3-Dichloropropene	U	17	30					
Trichloroethene	U	13	30					
Trichlorofluoromethane	U	15	30					
Vinyl chloride	U	6.4	30					
Surr: 1,2-Dichloroethane-d4	*1046*	0	0	*1000*	0	*105*	*70-130*	0
Surr: 4-Bromofluorobenzene	*989.5*	0	0	*1000*	0	*99*	*70-130*	0
Surr: Dibromofluoromethane	*1006*	0	0	*1000*	0	*101*	*70-130*	0
Surr: Toluene-d8	*1012*	0	0	*1000*	0	*101*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **130964** Instrument ID **VMS7** Method: **SW8260C**

LCS Sample ID: **LCS-130964-130964** Units: **µg/Kg-dry** Analysis Date: **1/21/2019 09:11 PM**

Client ID: Run ID: **VMS7_190121B** SeqNo: **5489851** Prep Date: **1/21/2019** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1056	14	30	1000	0	106	70-135	0			
1,1,2,2-Tetrachloroethane	1058	13	30	1000	0	106	55-130	0			
1,1,2-Trichloroethane	1102	13	30	1000	0	110	60-125	0			
1,1-Dichloroethane	1059	11	30	1000	0	106	75-125	0			
1,1-Dichloroethene	1086	9.7	30	1000	0	109	76-148	0			
1,2,3-Trichlorobenzene	1084	14	30	1000	0	108	60-135	0			
1,2,4-Trichlorobenzene	1064	10	30	1000	0	106	65-130	0			
1,2-Dibromo-3-chloropropane	961	28	100	1000	0	96.1	40-135	0			
1,2-Dibromoethane	1149	8.4	30	1000	0	115	80-195	0			
1,2-Dichlorobenzene	1106	11	30	1000	0	111	75-120	0			
1,2-Dichloroethane	1060	13	30	1000	0	106	70-135	0			
1,2-Dichloropropane	1028	5.2	30	1000	0	103	70-120	0			
1,3-Dichlorobenzene	1086	10	30	1000	0	109	70-125	0			
1,4-Dichlorobenzene	1066	7.2	30	1000	0	107	70-125	0			
2-Butanone	1019	25	200	1000	0	102	30-160	0			
2-Hexanone	1033	15	30	1000	0	103	45-145	0			
4-Methyl-2-pentanone	1448	14	30	1000	0	145	74-176	0			
Acetone	1080	31	100	1000	0	108	20-160	0			
Benzene	1050	5.1	30	1000	0	105	75-125	0			
Bromochloromethane	1052	15	30	1000	0	105	74-134	0			
Bromodichloromethane	1014	17	30	1000	0	101	70-130	0			
Bromoform	902	13	30	1000	0	90.2	55-135	0			
Bromomethane	972.5	57	100	1000	0	97.2	50-170	0			
Carbon disulfide	1024	16	30	1000	0	102	45-160	0			
Carbon tetrachloride	883	12	30	1000	0	88.3	65-135	0			
Chlorobenzene	1051	10	30	1000	0	105	75-125	0			
Chloroethane	1126	10	100	1000	0	113	40-155	0			
Chloroform	1018	11	30	1000	0	102	70-125	0			
Chloromethane	956.5	25	100	1000	0	95.6	50-144	0			
cis-1,2-Dichloroethene	1057	9.4	30	1000	0	106	65-125	0			
cis-1,3-Dichloropropene	1054	11	30	1000	0	105	70-125	0			
Dibromochloromethane	879	17	30	1000	0	87.9	65-135	0			
Dichlorodifluoromethane	853	6.3	30	1000	0	85.3	35-135	0			
Ethylbenzene	1076	6.3	30	1000	0	108	75-125	0			
Isopropylbenzene	1104	9.2	30	1000	0	110	75-130	0			
m,p-Xylene	2186	14	60	2000	0	109	80-125	0			
Methyl tert-butyl ether	1107	8.6	30	1000	0	111	75-125	0			
Methylene chloride	1064	13	30	1000	0	106	55-145	0			
o-Xylene	1077	12	30	1000	0	108	75-125	0			
Styrene	1100	12	30	1000	0	110	80-138	0			
Tetrachloroethene	1037	8.7	30	1000	0	104	67-167	0			
Toluene	1032	8.2	30	1000	0	103	70-125	0			
trans-1,2-Dichloroethene	1077	11	30	1000	0	108	65-135	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **130964** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	1024	17	30	1000	0	102	59-129	0
Trichloroethene	1029	13	30	1000	0	103	75-125	0
Trichlorofluoromethane	1034	15	30	1000	0	103	25-185	0
Vinyl chloride	1034	6.4	30	1000	0	103	60-125	0
Surr: 1,2-Dichloroethane-d4	*1018*	0	0	*1000*	0	*102*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1008*	0	0	*1000*	0	*101*	*70-130*	0
Surr: Dibromofluoromethane	*1032*	0	0	*1000*	0	*103*	*70-130*	0
Surr: Toluene-d8	*1038*	0	0	*1000*	0	*104*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **130964** Instrument ID **VMS7** Method: **SW8260C**

MS Sample ID: **19011014-07A MS** Units: **µg/Kg-dry** Analysis Date: **1/22/2019 10:02 PM**

Client ID: **B-14 (0-2)** Run ID: **VMS7_190122A** SeqNo: **5491906** Prep Date: **1/21/2019** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1225	20	43	1439	0	85.2	70-135	0			
1,1,2,2-Tetrachloroethane	1312	19	43	1439	0	91.2	55-130	0			
1,1,2-Trichloroethane	1298	18	43	1439	0	90.2	60-125	0			
1,1-Dichloroethane	1292	16	43	1439	0	89.8	75-125	0			
1,1-Dichloroethene	1562	14	43	1439	0	109	76-148	0			
1,2,3-Trichlorobenzene	1027	20	43	1439	0	71.4	60-135	0			
1,2,4-Trichlorobenzene	955.5	15	43	1439	0	66.4	65-130	0			
1,2-Dibromo-3-chloropropane	1053	40	140	1439	0	73.2	40-135	0			
1,2-Dibromoethane	1293	12	43	1439	0	89.8	80-195	0			
1,2-Dichlorobenzene	1126	16	43	1439	0	78.2	75-120	0			
1,2-Dichloroethane	1344	19	43	1439	0	93.4	70-135	0			
1,2-Dichloropropane	1276	7.6	43	1439	0	88.7	70-120	0			
1,3-Dichlorobenzene	1077	14	43	1439	0	74.8	70-125	0			
1,4-Dichlorobenzene	1071	10	43	1439	0	74.4	70-125	0			
2-Butanone	2120	36	290	1439	0	147	30-160	0			
2-Hexanone	1710	21	43	1439	0	119	45-145	0			
4-Methyl-2-pentanone	1742	21	43	1439	0	121	74-176	0			
Acetone	3754	45	140	1439	0	261	20-160	0			S
Benzene	1204	7.4	43	1439	0	83.7	75-125	0			
Bromochloromethane	1505	22	43	1439	0	105	74-134	0			
Bromodichloromethane	1394	24	43	1439	0	96.8	70-130	0			
Bromoform	1220	18	43	1439	0	84.8	55-135	0			
Bromomethane	1242	83	140	1439	0	86.3	50-170	0			
Carbon disulfide	1593	22	43	1439	0	111	45-160	0			
Carbon tetrachloride	1134	17	43	1439	0	78.8	65-135	0			
Chlorobenzene	1162	14	43	1439	0	80.8	75-125	0			
Chloroethane	39.57	15	140	1439	0	2.75	40-155	0			JS
Chloroform	1318	16	43	1439	0	91.6	70-125	0			
Chloromethane	1358	36	140	1439	0	94.4	50-144	0			
cis-1,2-Dichloroethene	1372	14	43	1439	0	95.4	65-125	0			
cis-1,3-Dichloropropene	1178	16	43	1439	0	81.8	70-125	0			
Dibromochloromethane	1188	24	43	1439	0	82.6	65-135	0			
Dichlorodifluoromethane	1155	9	43	1439	0	80.2	35-135	0			
Ethylbenzene	1204	9.1	43	1439	0	83.7	75-125	0			
Isopropylbenzene	1199	13	43	1439	0	83.3	75-130	0			
m,p-Xylene	2472	21	86	2878	0	85.9	80-125	0			
Methyl tert-butyl ether	1356	12	43	1439	0	94.2	75-125	0			
Methylene chloride	1443	18	43	1439	0	100	55-145	0			
o-Xylene	1189	17	43	1439	0	82.6	75-125	0			
Styrene	1235	17	43	1439	0	85.8	80-138	0			
Tetrachloroethene	1738	13	43	1439	0	121	67-167	0			
Toluene	1156	12	43	1439	0	80.4	70-125	0			
trans-1,2-Dichloroethene	1483	16	43	1439	0	103	65-135	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **130964** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	1104	24	43	1439	0	76.8	59-129	0
Trichloroethene	1135	19	43	1439	0	78.9	75-125	0
Trichlorofluoromethane	1587	22	43	1439	0	110	25-185	0
Vinyl chloride	1701	9.3	43	1439	0	118	60-125	0
Surr: 1,2-Dichloroethane-d4	*1699*	0	0	*1439*	0	*118*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1523*	0	0	*1439*	0	*106*	*70-130*	0
Surr: Dibromofluoromethane	*1653*	0	0	*1439*	0	*115*	*70-130*	0
Surr: Toluene-d8	*1539*	0	0	*1439*	0	*107*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **130964** Instrument ID **VMS7** Method: **SW8260C**

MSD Sample ID: **19011014-07A MSD** Units: **µg/Kg-dry** Analysis Date: **1/22/2019 10:18 PM**

Client ID: **B-14 (0-2)** Run ID: **VMS7_190122A** SeqNo: **5491907** Prep Date: **1/21/2019** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1251	20	43	1439	0	86.9	70-135	1225	2.03	30	
1,1,2,2-Tetrachloroethane	1322	19	43	1439	0	91.9	55-130	1312	0.765	30	
1,1,2-Trichloroethane	1301	18	43	1439	0	90.4	60-125	1298	0.221	30	
1,1-Dichloroethane	1289	16	43	1439	0	89.6	75-125	1292	0.223	30	
1,1-Dichloroethene	1546	14	43	1439	0	107	76-148	1562	1.02	30	
1,2,3-Trichlorobenzene	1088	20	43	1439	0	75.6	60-135	1027	5.71	30	
1,2,4-Trichlorobenzene	1004	15	43	1439	0	69.8	65-130	955.5	4.99	30	
1,2-Dibromo-3-chloropropane	1089	40	140	1439	0	75.6	40-135	1053	3.36	30	
1,2-Dibromoethane	1292	12	43	1439	0	89.8	80-195	1293	0.0557	30	
1,2-Dichlorobenzene	1167	16	43	1439	0	81.1	75-120	1126	3.58	30	
1,2-Dichloroethane	1368	19	43	1439	0	95	70-135	1344	1.75	30	
1,2-Dichloropropane	1292	7.6	43	1439	0	89.8	70-120	1276	1.18	30	
1,3-Dichlorobenzene	1125	14	43	1439	0	78.2	70-125	1077	4.31	30	
1,4-Dichlorobenzene	1111	10	43	1439	0	77.2	70-125	1071	3.63	30	
2-Butanone	2129	36	290	1439	0	148	30-160	2120	0.44	30	
2-Hexanone	1711	21	43	1439	0	119	45-145	1710	0.0421	30	
4-Methyl-2-pentanone	1769	21	43	1439	0	123	74-176	1742	1.56	30	
Acetone	3718	45	140	1439	0	258	20-160	3754	0.944	30	S
Benzene	1227	7.4	43	1439	0	85.2	75-125	1204	1.83	30	
Bromochloromethane	1498	22	43	1439	0	104	74-134	1505	0.479	30	
Bromodichloromethane	1368	24	43	1439	0	95	70-130	1394	1.88	30	
Bromoform	1245	18	43	1439	0	86.5	55-135	1220	1.98	30	
Bromomethane	1120	83	140	1439	0	77.8	50-170	1242	10.3	30	
Carbon disulfide	1562	22	43	1439	0	109	45-160	1593	1.96	30	
Carbon tetrachloride	1106	17	43	1439	0	76.8	65-135	1134	2.51	30	
Chlorobenzene	1179	14	43	1439	0	82	75-125	1162	1.48	30	
Chloroethane	34.54	15	140	1439	0	2.4	40-155	39.57	0	30	JS
Chloroform	1298	16	43	1439	0	90.2	70-125	1318	1.54	30	
Chloromethane	1395	36	140	1439	0	97	50-144	1358	2.72	30	
cis-1,2-Dichloroethene	1346	14	43	1439	0	93.6	65-125	1372	1.91	30	
cis-1,3-Dichloropropene	1204	16	43	1439	0	83.6	70-125	1178	2.18	30	
Dibromochloromethane	1154	24	43	1439	0	80.2	65-135	1188	2.89	30	
Dichlorodifluoromethane	1156	9	43	1439	0	80.4	35-135	1155	0.125	30	
Ethylbenzene	1205	9.1	43	1439	0	83.8	75-125	1204	0.0597	30	
Isopropylbenzene	1199	13	43	1439	0	83.3	75-130	1199	0	30	
m,p-Xylene	2482	21	86	2878	0	86.2	80-125	2472	0.407	30	
Methyl tert-butyl ether	1358	12	43	1439	0	94.4	75-125	1356	0.212	30	
Methylene chloride	1435	18	43	1439	0	99.8	55-145	1443	0.5	30	
o-Xylene	1220	17	43	1439	0	84.8	75-125	1189	2.57	30	
Styrene	1248	17	43	1439	0	86.8	80-138	1235	1.1	30	
Tetrachloroethene	1694	13	43	1439	0	118	67-167	1738	2.56	30	
Toluene	1182	12	43	1439	0	82.2	70-125	1156	2.22	30	
trans-1,2-Dichloroethene	1483	16	43	1439	0	103	65-135	1483	0	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **130964** Instrument ID **VMS7** Method: **SW8260C**

trans-1,3-Dichloropropene	1097	24	43	1439	0	76.2	59-129	1104	0.719	30
Trichloroethene	1164	19	43	1439	0	80.9	75-125	1135	2.5	30
Trichlorofluoromethane	1573	22	43	1439	0	109	25-185	1587	0.911	30
Vinyl chloride	1717	9.3	43	1439	0	119	60-125	1701	0.926	30
Surr: 1,2-Dichloroethane-d4	*1689*	0	0	*1439*	0	*117*	*70-130*	1699	*0.595*	*30*
Surr: 4-Bromofluorobenzene	*1466*	0	0	*1439*	0	*102*	*70-130*	1523	*3.8*	*30*
Surr: Dibromofluoromethane	*1632*	0	0	*1439*	0	*113*	*70-130*	1653	*1.31*	*30*
Surr: Toluene-d8	*1494*	0	0	*1439*	0	*104*	*70-130*	1539	*2.99*	*30*

The following samples were analyzed in this batch:

19011014-01A	19011014-02A	19011014-03A
19011014-05A	19011014-06A	19011014-07A
19011014-12A	19011014-13A	19011014-17A
19011014-18A	19011014-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **130966** Instrument ID **VMS9** Method: **SW8260C**

MBLK Sample ID: **MBLK-130966-130966** Units: **µg/Kg-dry** Analysis Date: **1/22/2019 02:37 PM**
Client ID: Run ID: **VMS9_190122A** SeqNo: **5491927** Prep Date: **1/21/2019** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	U	31	100								
Surr: 1,2-Dichloroethane-d4	*1018*	0	0	*1000*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*973.5*	0	0	*1000*	0	*97.4*	*70-130*	0			
Surr: Dibromofluoromethane	*1017*	0	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*967.5*	0	0	*1000*	0	*96.8*	*70-130*	0			

LCS Sample ID: **LCS-130966-130966** Units: **µg/Kg-dry** Analysis Date: **1/22/2019 01:52 PM**
Client ID: Run ID: **VMS9_190122A** SeqNo: **5491925** Prep Date: **1/21/2019** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	1014	31	100	1000	0	101	20-160	0			
Surr: 1,2-Dichloroethane-d4	*1035*	0	0	*1000*	0	*104*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*993.5*	0	0	*1000*	0	*99.4*	*70-130*	0			
Surr: Dibromofluoromethane	*998.5*	0	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Toluene-d8	*1000*	0	0	*1000*	0	*100*	*70-130*	0			

MS Sample ID: **19011014-24A MS** Units: **µg/Kg-dry** Analysis Date: **1/22/2019 08:23 PM**
Client ID: **DUP-2** Run ID: **VMS9_190122A** SeqNo: **5491997** Prep Date: **1/21/2019** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	1741	48	150	1532	0	114	20-160	0			
Surr: 1,2-Dichloroethane-d4	*1628*	0	0	*1532*	0	*106*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1640*	0	0	*1532*	0	*107*	*70-130*	0			
Surr: Dibromofluoromethane	*1593*	0	0	*1532*	0	*104*	*70-130*	0			
Surr: Toluene-d8	*1491*	0	0	*1532*	0	*97.4*	*70-130*	0			

MSD Sample ID: **19011014-24A MSD** Units: **µg/Kg-dry** Analysis Date: **1/22/2019 08:38 PM**
Client ID: **DUP-2** Run ID: **VMS9_190122A** SeqNo: **5491999** Prep Date: **1/21/2019** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	2840	48	150	1532	0	185	20-160	1741	47.9	30	SR
Surr: 1,2-Dichloroethane-d4	*1620*	0	0	*1532*	0	*106*	*70-130*	1628	*0.519*	*30*	
Surr: 4-Bromofluorobenzene	*1601*	0	0	*1532*	0	*105*	*70-130*	1640	*2.36*	*30*	
Surr: Dibromofluoromethane	*1647*	0	0	*1532*	0	*108*	*70-130*	1593	*3.31*	*30*	
Surr: Toluene-d8	*1482*	0	0	*1532*	0	*96.8*	*70-130*	1491	*0.618*	*30*	

The following samples were analyzed in this batch:

19011014-21A	19011014-22A	19011014-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253552** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKS2-190122-R253552** Units: **µg/Kg** Analysis Date: **1/22/2019 02:11 PM**

Client ID: Run ID: **VMS10_190122A** SeqNo: **5491507** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.79	5.0								
1,1,2,2-Tetrachloroethane	U	0.27	5.0								
1,1,2-Trichloroethane	U	0.39	5.0								
1,1,2-Trichlorotrifluoroethane	U	1.1	5.0								
1,1-Dichloroethane	U	2.1	5.0								
1,1-Dichloroethene	U	0.98	5.0								
1,2,3-Trichlorobenzene	U	0.62	5.0								
1,2,4-Trichlorobenzene	U	0.73	5.0								
1,2-Dibromo-3-chloropropane	U	1.4	5.0								
1,2-Dibromoethane	U	0.36	5.0								
1,2-Dichlorobenzene	U	0.63	5.0								
1,2-Dichloroethane	U	0.36	5.0								
1,2-Dichloropropane	U	0.44	5.0								
1,3-Dichlorobenzene	U	0.52	5.0								
1,4-Dichlorobenzene	U	0.36	5.0								
2-Butanone	U	1.9	10								
2-Hexanone	U	0.98	5.0								
4-Methyl-2-pentanone	U	0.81	5.0								
Acetone	U	2.1	10								
Benzene	U	0.52	5.0								
Bromochloromethane	U	0.49	5.0								
Bromodichloromethane	U	0.32	5.0								
Bromoform	U	0.31	5.0								
Bromomethane	U	0.72	10								
Carbon disulfide	U	0.56	5.0								
Carbon tetrachloride	U	0.83	5.0								
Chlorobenzene	U	0.32	5.0								
Chloroethane	U	0.63	5.0								
Chloroform	0.7	0.3	5.0								J
Chloromethane	U	0.46	10								
cis-1,2-Dichloroethene	U	0.48	5.0								
cis-1,3-Dichloropropene	U	0.26	5.0								
Cyclohexane	U	3	10								
Dibromochloromethane	U	0.47	5.0								
Dichlorodifluoromethane	U	1.1	10								
Ethylbenzene	U	0.6	5.0								
Isopropylbenzene	U	0.64	5.0								
m,p-Xylene	U	1.2	2.5								
Methyl acetate	U	1.2	10								
Methyl tert-butyl ether	U	0.23	5.0								
Methylcyclohexane	U	1.5	10								
Methylene chloride	U	0.86	5.0								
o-Xylene	U	0.47	2.5								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253552** Instrument ID **VMS10** Method: **SW8260C**

Styrene	U	0.4	5.0					
Tetrachloroethene	U	0.89	5.0					
Toluene	U	0.56	5.0					
trans-1,2-Dichloroethene	U	0.4	5.0					
trans-1,3-Dichloropropene	U	0.29	5.0					
Trichloroethene	U	0.72	5.0					
Trichlorofluoromethane	U	0.71	5.0					
Vinyl chloride	U	0.7	5.0					
Surr: 1,2-Dichloroethane-d4	*24.87*	0	0	*20*	0	*124*	*83-132*	0
Surr: 4-Bromofluorobenzene	*17.69*	0	0	*20*	0	*88.4*	*83-111*	0
Surr: Dibromofluoromethane	*22.92*	0	0	*20*	0	*115*	*77-125*	0
Surr: Toluene-d8	*19.38*	0	0	*20*	0	*96.9*	*86-108*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253552** Instrument ID **VMS10** Method: **SW8260C**

LCS Sample ID: **VLCSS1-190122-R253552** Units: **µg/Kg** Analysis Date: **1/22/2019 01:05 PM**

Client ID: Run ID: **VMS10_190122A** SeqNo: **5491506** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	24.37	0.79	5.0	20	0	122	73-138	0			
1,1,2,2-Tetrachloroethane	21.46	0.27	5.0	20	0	107	71-126	0			
1,1,2-Trichloroethane	19.78	0.39	5.0	20	0	98.9	77-123	0			
1,1-Dichloroethane	24.98	2.1	5.0	20	0	125	63-148	0			
1,1-Dichloroethene	25.99	0.98	5.0	20	0	130	67-156	0			
1,2,3-Trichlorobenzene	19.04	0.62	5.0	20	0	95.2	73-129	0			
1,2,4-Trichlorobenzene	19.27	0.73	5.0	20	0	96.4	70-132	0			
1,2-Dibromo-3-chloropropane	18.6	1.4	5.0	20	0	93	48-127	0			
1,2-Dibromoethane	23.8	0.36	5.0	20	0	119	71-144	0			
1,2-Dichlorobenzene	20.13	0.63	5.0	20	0	101	77-127	0			
1,2-Dichloroethane	22.2	0.36	5.0	20	0	111	77-127	0			
1,2-Dichloropropane	21.7	0.44	5.0	20	0	108	74-130	0			
1,3-Dichlorobenzene	20.65	0.52	5.0	20	0	103	75-133	0			
1,4-Dichlorobenzene	20.25	0.36	5.0	20	0	101	74-130	0			
2-Butanone	20	1.9	10	20	0	100	55-132	0			
2-Hexanone	25.12	0.98	5.0	20	0	126	55-124	0			S
4-Methyl-2-pentanone	31.62	0.81	5.0	20	0	158	67-159	0			
Acetone	26.04	2.1	10	20	0	130	31-156	0			
Benzene	22.29	0.52	5.0	20	0	111	77-133	0			
Bromochloromethane	25.58	0.49	5.0	20	0	128	72-139	0			
Bromodichloromethane	23.79	0.32	5.0	20	0	119	69-133	0			
Bromoform	20.71	0.31	5.0	20	0	104	55-126	0			
Bromomethane	28.48	0.72	10	20	0	142	31-174	0			
Carbon disulfide	29.11	0.56	5.0	20	0	146	45-160	0			
Carbon tetrachloride	24.12	0.83	5.0	20	0	121	69-140	0			
Chlorobenzene	19.35	0.32	5.0	20	0	96.8	76-130	0			
Chloroethane	17.07	0.63	5.0	20	0	85.4	53-150	0			
Chloroform	23.37	0.3	5.0	20	0	117	72-132	0			
Chloromethane	22	0.46	10	20	0	110	43-150	0			
cis-1,2-Dichloroethene	24.54	0.48	5.0	20	0	123	74-134	0			
cis-1,3-Dichloropropene	21.54	0.26	5.0	20	0	108	62-134	0			
Dibromochloromethane	21	0.47	5.0	20	0	105	57-118	0			
Dichlorodifluoromethane	15.63	1.1	10	20	0	78.2	43-126	0			
Ethylbenzene	19.06	0.6	5.0	20	0	95.3	75-133	0			
Isopropylbenzene	19.66	0.64	5.0	20	0	98.3	74-137	0			
m,p-Xylene	39.46	1.2	2.5	40	0	98.6	75-134	0			
Methyl tert-butyl ether	21.97	0.23	5.0	20	0	110	62-136	0			
Methylene chloride	22.27	0.86	5.0	20	0	111	55-157	0			
o-Xylene	19.65	0.47	2.5	20	0	98.2	76-130	0			
Styrene	20.92	0.4	5.0	20	0	105	72-138	0			
Tetrachloroethene	20.43	0.89	5.0	20	0	102	70-171	0			
Toluene	20.11	0.56	5.0	20	0	101	76-130	0			
trans-1,2-Dichloroethene	25.93	0.4	5.0	20	0	130	65-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R253552** Instrument ID **VMS10** Method: **SW8260C**

trans-1,3-Dichloropropene	20.38	0.29	5.0	20	0	102	58-126	0
Trichloroethene	20.81	0.72	5.0	20	0	104	75-135	0
Trichlorofluoromethane	20.34	0.71	5.0	20	0	102	62-136	0
Vinyl chloride	22.18	0.7	5.0	20	0	111	57-143	0
Surr: 1,2-Dichloroethane-d4	*23.54*	0	0	*20*	0	*118*	*83-132*	0
Surr: 4-Bromofluorobenzene	*20.48*	0	0	*20*	0	*102*	*83-111*	0
Surr: Dibromofluoromethane	*22.28*	0	0	*20*	0	*111*	*77-125*	0
Surr: Toluene-d8	*20.38*	0	0	*20*	0	*102*	*86-108*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253552** Instrument ID **VMS10** Method: **SW8260C**

MS Sample ID: **19011014-08A MS** Units: **µg/Kg** Analysis Date: **1/22/2019 09:29 PM**

Client ID: **B-14 (10-11)** Run ID: **VMS10_190122A** SeqNo: **5491527** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.43	0.79	5.0	20	0	97.2	73-138	0			
1,1,2,2-Tetrachloroethane	18.58	0.27	5.0	20	0	92.9	71-126	0			
1,1,2-Trichloroethane	15.57	0.39	5.0	20	0	77.8	77-123	0			
1,1-Dichloroethane	19.34	2.1	5.0	20	0	96.7	63-148	0			
1,1-Dichloroethene	21.03	0.98	5.0	20	0	105	67-156	0			
1,2,3-Trichlorobenzene	5.36	0.62	5.0	20	0	26.8	73-129	0			S
1,2,4-Trichlorobenzene	5.87	0.73	5.0	20	0	29.4	70-132	0			S
1,2-Dibromo-3-chloropropane	13.64	1.4	5.0	20	0	68.2	48-127	0			
1,2-Dibromoethane	18.53	0.36	5.0	20	0	92.6	71-144	0			
1,2-Dichlorobenzene	11.74	0.63	5.0	20	0	58.7	77-127	0			S
1,2-Dichloroethane	18.96	0.36	5.0	20	0	94.8	77-127	0			
1,2-Dichloropropane	16.8	0.44	5.0	20	0	84	74-130	0			
1,3-Dichlorobenzene	11.68	0.52	5.0	20	0	58.4	75-133	0			S
1,4-Dichlorobenzene	11.43	0.36	5.0	20	0	57.2	74-130	0			S
2-Butanone	20.69	1.9	10	20	0	103	55-132	0			
2-Hexanone	15.96	0.98	5.0	20	0	79.8	55-124	0			
4-Methyl-2-pentanone	26.36	0.81	5.0	20	0	132	67-159	0			
Acetone	43.29	2.1	10	20	0	216	31-156	0			S
Benzene	16.91	0.52	5.0	20	0	84.6	77-133	0			
Bromochloromethane	20.66	0.49	5.0	20	0	103	72-139	0			
Bromodichloromethane	19.66	0.32	5.0	20	0	98.3	69-133	0			
Bromoform	16.54	0.31	5.0	20	0	82.7	55-126	0			
Bromomethane	26.83	0.72	10	20	0	134	31-174	0			
Carbon disulfide	23.04	0.56	5.0	20	0	115	45-160	0			
Carbon tetrachloride	19.32	0.83	5.0	20	0	96.6	69-140	0			
Chlorobenzene	13.06	0.32	5.0	20	0	65.3	76-130	0			S
Chloroethane	18.4	0.63	5.0	20	0	92	53-150	0			
Chloroform	18.76	0.3	5.0	20	0	93.8	72-132	0			
Chloromethane	19.79	0.46	10	20	0	99	43-150	0			
cis-1,2-Dichloroethene	18.43	0.48	5.0	20	0	92.2	74-134	0			
cis-1,3-Dichloropropene	15.5	0.26	5.0	20	0	77.5	62-134	0			
Dibromochloromethane	16.21	0.47	5.0	20	0	81	57-118	0			
Dichlorodifluoromethane	16.57	1.1	10	20	0	82.8	43-126	0			
Ethylbenzene	12.88	0.6	5.0	20	0	64.4	75-133	0			S
Isopropylbenzene	13.19	0.64	5.0	20	0	66	74-137	0			S
m,p-Xylene	25.99	1.2	2.5	40	0	65	75-134	0			S
Methyl tert-butyl ether	17.56	0.23	5.0	20	0	87.8	62-136	0			
Methylene chloride	18.08	0.86	5.0	20	0	90.4	55-157	0			
o-Xylene	13.44	0.47	2.5	20	0	67.2	76-130	0			S
Styrene	13.37	0.4	5.0	20	0	66.8	72-138	0			S
Tetrachloroethene	15.47	0.89	5.0	20	0	77.4	70-171	0			
Toluene	14.16	0.56	5.0	20	0	70.8	76-130	0			S
trans-1,2-Dichloroethene	20.22	0.4	5.0	20	0	101	65-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253552** Instrument ID **VMS10** Method: **SW8260C**

trans-1,3-Dichloropropene	14.09	0.29	5.0	20	0	70.4	58-126	0	
Trichloroethene	15.98	0.72	5.0	20	0	79.9	75-135	0	
Trichlorofluoromethane	17.11	0.71	5.0	20	0	85.6	62-136	0	
Vinyl chloride	18.51	0.7	5.0	20	0	92.6	57-143	0	
Surr: 1,2-Dichloroethane-d4	*28.23*	0	0	*20*	0	*141*	*83-132*	0	*S*
Surr: 4-Bromofluorobenzene	*20.48*	0	0	*20*	0	*102*	*83-111*	0	
Surr: Dibromofluoromethane	*24.44*	0	0	*20*	0	*122*	*77-125*	0	
Surr: Toluene-d8	*19.88*	0	0	*20*	0	*99.4*	*86-108*	0	

The following samples were analyzed in this batch:

19011014-03A	19011014-04A	19011014-06A
19011014-08A	19011014-09A	19011014-11A
19011014-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253681** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKW2-190124-R253681** Units: **µg/Kg** Analysis Date: **1/24/2019 12:47 PM**

Client ID: Run ID: **VMS10_190124A** SeqNo: **5495199** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.79	5.0								
1,1,2,2-Tetrachloroethane	U	0.27	5.0								
1,1,2-Trichloroethane	U	0.39	5.0								
1,1,2-Trichlorotrifluoroethane	U	1.1	5.0								
1,1-Dichloroethane	U	2.1	5.0								
1,1-Dichloroethene	U	0.98	5.0								
1,2,3-Trichlorobenzene	U	0.62	5.0								
1,2,4-Trichlorobenzene	1.21	0.73	5.0								J
1,2-Dibromo-3-chloropropane	U	1.4	5.0								
1,2-Dibromoethane	U	0.36	5.0								
1,2-Dichlorobenzene	U	0.63	5.0								
1,2-Dichloroethane	U	0.36	5.0								
1,2-Dichloropropane	U	0.44	5.0								
1,3-Dichlorobenzene	U	0.52	5.0								
1,4-Dichlorobenzene	0.39	0.36	5.0								J
2-Butanone	U	1.9	10								
2-Hexanone	3.24	0.98	5.0								J
4-Methyl-2-pentanone	1.86	0.81	5.0								J
Acetone	2.86	2.1	10								J
Benzene	U	0.52	5.0								
Bromochloromethane	U	0.49	5.0								
Bromodichloromethane	U	0.32	5.0								
Bromoform	U	0.31	5.0								
Bromomethane	U	0.72	10								
Carbon disulfide	U	0.56	5.0								
Carbon tetrachloride	U	0.83	5.0								
Chlorobenzene	U	0.32	5.0								
Chloroethane	U	0.63	5.0								
Chloroform	U	0.3	5.0								
Chloromethane	U	0.46	10								
cis-1,2-Dichloroethene	U	0.48	5.0								
cis-1,3-Dichloropropene	U	0.26	5.0								
Cyclohexane	U	3	10								
Dibromochloromethane	U	0.47	5.0								
Dichlorodifluoromethane	U	1.1	10								
Ethylbenzene	1.11	0.6	5.0								J
Isopropylbenzene	1.65	0.64	5.0								J
m,p-Xylene	2.29	1.2	2.5								J
Methyl acetate	U	1.2	10								
Methyl tert-butyl ether	U	0.23	5.0								
Methylcyclohexane	U	1.5	10								
Methylene chloride	U	0.86	5.0								
o-Xylene	1.2	0.47	2.5								J

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R253681** Instrument ID **VMS10** Method: **SW8260C**

Styrene	1.26	0.4	5.0						J
Tetrachloroethene	U	0.89	5.0						
Toluene	U	0.56	5.0						
trans-1,2-Dichloroethene	U	0.4	5.0						
trans-1,3-Dichloropropene	U	0.29	5.0						
Trichloroethene	U	0.72	5.0						
Trichlorofluoromethane	U	0.71	5.0						
Vinyl chloride	U	0.7	5.0						
Surr: 1,2-Dichloroethane-d4	*19.87*	0	0	*20*	0	*99.4*	*83-132*	0	
Surr: 4-Bromofluorobenzene	*18.67*	0	0	*20*	0	*93.4*	*83-111*	0	
Surr: Dibromofluoromethane	*19.9*	0	0	*20*	0	*99.5*	*77-125*	0	
Surr: Toluene-d8	*19.77*	0	0	*20*	0	*98.8*	*86-108*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253681** Instrument ID **VMS10** Method: **SW8260C**

LCS Sample ID: **VLCSS1-190124-R253681** Units: **µg/Kg** Analysis Date: **1/24/2019 11:02 AM**

Client ID: Run ID: **VMS10_190124A** SeqNo: **5495198** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.46	0.79	5.0	20	0	92.3	73-138	0			
1,1,2,2-Tetrachloroethane	21.48	0.27	5.0	20	0	107	71-126	0			
1,1,2-Trichloroethane	18.78	0.39	5.0	20	0	93.9	77-123	0			
1,1-Dichloroethane	18.64	2.1	5.0	20	0	93.2	63-148	0			
1,1-Dichloroethene	19.07	0.98	5.0	20	0	95.4	67-156	0			
1,2,3-Trichlorobenzene	21.34	0.62	5.0	20	0	107	73-129	0			
1,2,4-Trichlorobenzene	20.01	0.73	5.0	20	0	100	70-132	0			
1,2-Dibromo-3-chloropropane	20.62	1.4	5.0	20	0	103	48-127	0			
1,2-Dibromoethane	24.54	0.36	5.0	20	0	123	71-144	0			
1,2-Dichlorobenzene	18.89	0.63	5.0	20	0	94.4	77-127	0			
1,2-Dichloroethane	18.56	0.36	5.0	20	0	92.8	77-127	0			
1,2-Dichloropropane	19.38	0.44	5.0	20	0	96.9	74-130	0			
1,3-Dichlorobenzene	18.58	0.52	5.0	20	0	92.9	75-133	0			
1,4-Dichlorobenzene	19.87	0.36	5.0	20	0	99.4	74-130	0			
2-Butanone	23.87	1.9	10	20	0	119	55-132	0			
2-Hexanone	23.08	0.98	5.0	20	0	115	55-124	0			
4-Methyl-2-pentanone	30.25	0.81	5.0	20	0	151	67-159	0			
Acetone	18.14	2.1	10	20	0	90.7	31-156	0			
Benzene	18.88	0.52	5.0	20	0	94.4	77-133	0			
Bromochloromethane	17.99	0.49	5.0	20	0	90	72-139	0			
Bromodichloromethane	18.6	0.32	5.0	20	0	93	69-133	0			
Bromoform	18.14	0.31	5.0	20	0	90.7	55-126	0			
Bromomethane	19.49	0.72	10	20	0	97.4	31-174	0			
Carbon disulfide	21.66	0.56	5.0	20	0	108	45-160	0			
Carbon tetrachloride	16.81	0.83	5.0	20	0	84	69-140	0			
Chlorobenzene	19.26	0.32	5.0	20	0	96.3	76-130	0			
Chloroethane	17.4	0.63	5.0	20	0	87	53-150	0			
Chloroform	18.86	0.3	5.0	20	0	94.3	72-132	0			
Chloromethane	14.88	0.46	10	20	0	74.4	43-150	0			
cis-1,2-Dichloroethene	19.03	0.48	5.0	20	0	95.2	74-134	0			
cis-1,3-Dichloropropene	18.27	0.26	5.0	20	0	91.4	62-134	0			
Dibromochloromethane	17.26	0.47	5.0	20	0	86.3	57-118	0			
Dichlorodifluoromethane	12.06	1.1	10	20	0	60.3	43-126	0			
Ethylbenzene	17.79	0.6	5.0	20	0	89	75-133	0			
Isopropylbenzene	17.64	0.64	5.0	20	0	88.2	74-137	0			
m,p-Xylene	35.47	1.2	2.5	40	0	88.7	75-134	0			
Methyl tert-butyl ether	17.25	0.23	5.0	20	0	86.2	62-136	0			
Methylene chloride	21.97	0.86	5.0	20	0	110	55-157	0			
o-Xylene	18.24	0.47	2.5	20	0	91.2	76-130	0			
Styrene	18.68	0.4	5.0	20	0	93.4	72-138	0			
Tetrachloroethene	18.13	0.89	5.0	20	0	90.6	70-171	0			
Toluene	18.92	0.56	5.0	20	0	94.6	76-130	0			
trans-1,2-Dichloroethene	18.75	0.4	5.0	20	0	93.8	65-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R253681** Instrument ID **VMS10** Method: **SW8260C**

trans-1,3-Dichloropropene	18.47	0.29	5.0	20	0	92.4	58-126	0
Trichloroethene	18.83	0.72	5.0	20	0	94.2	75-135	0
Trichlorofluoromethane	14.85	0.71	5.0	20	0	74.2	62-136	0
Vinyl chloride	15.91	0.7	5.0	20	0	79.6	57-143	0
Surr: 1,2-Dichloroethane-d4	*18.79*	0	0	*20*	0	*94*	*83-132*	0
Surr: 4-Bromofluorobenzene	*20.7*	0	0	*20*	0	*104*	*83-111*	0
Surr: Dibromofluoromethane	*18.8*	0	0	*20*	0	*94*	*77-125*	0
Surr: Toluene-d8	*20.32*	0	0	*20*	0	*102*	*86-108*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253681** Instrument ID **VMS10** Method: **SW8260C**

MS Sample ID: **19011014-18A MS** Units: **µg/Kg** Analysis Date: **1/24/2019 06:24 PM**

Client ID: **B-19 (8-9)** Run ID: **VMS10_190124A** SeqNo: **5495300** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.19	0.79	5.0	20	0	81	73-138	0			
1,1,2,2-Tetrachloroethane	19.23	0.27	5.0	20	0	96.2	71-126	0			
1,1,2-Trichloroethane	17.98	0.39	5.0	20	0	89.9	77-123	0			
1,1-Dichloroethane	17.25	2.1	5.0	20	0	86.2	63-148	0			
1,1-Dichloroethene	17.33	0.98	5.0	20	0	86.6	67-156	0			
1,2,3-Trichlorobenzene	13.65	0.62	5.0	20	0	68.2	73-129	0			S
1,2,4-Trichlorobenzene	12.18	0.73	5.0	20	0	60.9	70-132	0			S
1,2-Dibromo-3-chloropropane	16.1	1.4	5.0	20	0	80.5	48-127	0			
1,2-Dibromoethane	22.63	0.36	5.0	20	0	113	71-144	0			
1,2-Dichlorobenzene	14.1	0.63	5.0	20	0	70.5	77-127	0			S
1,2-Dichloroethane	18.03	0.36	5.0	20	0	90.2	77-127	0			
1,2-Dichloropropane	17.56	0.44	5.0	20	0	87.8	74-130	0			
1,3-Dichlorobenzene	13.18	0.52	5.0	20	0	65.9	75-133	0			S
1,4-Dichlorobenzene	14.8	0.36	5.0	20	0	74	74-130	0			
2-Butanone	12.37	1.9	10	20	0	61.8	55-132	0			
2-Hexanone	15.31	0.98	5.0	20	0	76.6	55-124	0			
4-Methyl-2-pentanone	23.06	0.81	5.0	20	0	115	67-159	0			
Acetone	17.8	2.1	10	20	0	89	31-156	0			
Benzene	16.08	0.52	5.0	20	0	80.4	77-133	0			
Bromochloromethane	18.74	0.49	5.0	20	0	93.7	72-139	0			
Bromodichloromethane	17.03	0.32	5.0	20	0	85.2	69-133	0			
Bromoform	16.55	0.31	5.0	20	0	82.8	55-126	0			
Bromomethane	15.55	0.72	10	20	0	77.8	31-174	0			
Carbon disulfide	18.46	0.56	5.0	20	0	92.3	45-160	0			
Carbon tetrachloride	14.51	0.83	5.0	20	0	72.6	69-140	0			
Chlorobenzene	15.21	0.32	5.0	20	0	76	76-130	0			
Chloroethane	15.25	0.63	5.0	20	0	76.2	53-150	0			
Chloroform	17.57	0.3	5.0	20	0	87.8	72-132	0			
Chloromethane	12.65	0.46	10	20	0	63.2	43-150	0			
cis-1,2-Dichloroethene	17.36	0.48	5.0	20	0	86.8	74-134	0			
cis-1,3-Dichloropropene	16.33	0.26	5.0	20	0	81.6	62-134	0			
Dibromochloromethane	16.48	0.47	5.0	20	0	82.4	57-118	0			
Dichlorodifluoromethane	12.44	1.1	10	20	0	62.2	43-126	0			
Ethylbenzene	13.75	0.6	5.0	20	0	68.8	75-133	0			S
Isopropylbenzene	13.49	0.64	5.0	20	0	67.4	74-137	0			S
m,p-Xylene	27.19	1.2	2.5	40	0	68	75-134	0			S
Methyl tert-butyl ether	18.09	0.23	5.0	20	0	90.4	62-136	0			
Methylene chloride	17.93	0.86	5.0	20	0	89.6	55-157	0			
o-Xylene	14.35	0.47	2.5	20	0	71.8	76-130	0			S
Styrene	15.13	0.4	5.0	20	0	75.6	72-138	0			
Tetrachloroethene	15.31	0.89	5.0	20	0	76.6	70-171	0			
Toluene	15.23	0.56	5.0	20	0	76.2	76-130	0			
trans-1,2-Dichloroethene	16.81	0.4	5.0	20	0	84	65-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253681** Instrument ID **VMS10** Method: **SW8260C**

trans-1,3-Dichloropropene	15.87	0.29	5.0	20	0	79.4	58-126	0
Trichloroethene	16.24	0.72	5.0	20	0	81.2	75-135	0
Trichlorofluoromethane	14.45	0.71	5.0	20	0	72.2	62-136	0
Vinyl chloride	14.83	0.7	5.0	20	0	74.2	57-143	0
Surr: 1,2-Dichloroethane-d4	*21.71*	0	0	*20*	0	*109*	*83-132*	0
Surr: 4-Bromofluorobenzene	*21.36*	0	0	*20*	0	*107*	*83-111*	0
Surr: Dibromofluoromethane	*20.55*	0	0	*20*	0	*103*	*77-125*	0
Surr: Toluene-d8	*19.86*	0	0	*20*	0	*99.3*	*86-108*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253681** Instrument ID **VMS10** Method: **SW8260C**

MSD Sample ID: **19011014-18A MSD** Units: **µg/Kg** Analysis Date: **1/24/2019 06:40 PM**

Client ID: **B-19 (8-9)** Run ID: **VMS10_190124A** SeqNo: **5495301** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.8	0.79	5.0	20	0	84	73-138	16.19	3.7	30	
1,1,2,2-Tetrachloroethane	19.72	0.27	5.0	20	0	98.6	71-126	19.23	2.52	30	
1,1,2-Trichloroethane	18.63	0.39	5.0	20	0	93.2	77-123	17.98	3.55	30	
1,1-Dichloroethane	17.72	2.1	5.0	20	0	88.6	63-148	17.25	2.69	30	
1,1-Dichloroethene	17.93	0.98	5.0	20	0	89.6	67-156	17.33	3.4	30	
1,2,3-Trichlorobenzene	13.12	0.62	5.0	20	0	65.6	73-129	13.65	3.96	30	S
1,2,4-Trichlorobenzene	12.26	0.73	5.0	20	0	61.3	70-132	12.18	0.655	30	S
1,2-Dibromo-3-chloropropane	16.92	1.4	5.0	20	0	84.6	48-127	16.1	4.97	30	
1,2-Dibromoethane	24.26	0.36	5.0	20	0	121	71-144	22.63	6.95	30	
1,2-Dichlorobenzene	14.31	0.63	5.0	20	0	71.6	77-127	14.1	1.48	30	S
1,2-Dichloroethane	18.85	0.36	5.0	20	0	94.2	77-127	18.03	4.45	30	
1,2-Dichloropropane	18.34	0.44	5.0	20	0	91.7	74-130	17.56	4.35	30	
1,3-Dichlorobenzene	13.17	0.52	5.0	20	0	65.8	75-133	13.18	0.0759	30	S
1,4-Dichlorobenzene	14.48	0.36	5.0	20	0	72.4	74-130	14.8	2.19	30	S
2-Butanone	13.77	1.9	10	20	0	68.8	55-132	12.37	10.7	30	
2-Hexanone	16.09	0.98	5.0	20	0	80.4	55-124	15.31	4.97	30	
4-Methyl-2-pentanone	25.39	0.81	5.0	20	0	127	67-159	23.06	9.62	30	
Acetone	18.06	2.1	10	20	0	90.3	31-156	17.8	1.45	30	
Benzene	16.51	0.52	5.0	20	0	82.6	77-133	16.08	2.64	30	
Bromochloromethane	19.24	0.49	5.0	20	0	96.2	72-139	18.74	2.63	30	
Bromodichloromethane	17.72	0.32	5.0	20	0	88.6	69-133	17.03	3.97	30	
Bromoform	17.89	0.31	5.0	20	0	89.4	55-126	16.55	7.78	30	
Bromomethane	19.28	0.72	10	20	0	96.4	31-174	15.55	21.4	30	
Carbon disulfide	18.59	0.56	5.0	20	0	93	45-160	18.46	0.702	30	
Carbon tetrachloride	14.52	0.83	5.0	20	0	72.6	69-140	14.51	0.0689	30	
Chlorobenzene	15.32	0.32	5.0	20	0	76.6	76-130	15.21	0.721	30	
Chloroethane	15.67	0.63	5.0	20	0	78.4	53-150	15.25	2.72	30	
Chloroform	17.99	0.3	5.0	20	0	90	72-132	17.57	2.36	30	
Chloromethane	12.95	0.46	10	20	0	64.8	43-150	12.65	2.34	30	
cis-1,2-Dichloroethene	18.36	0.48	5.0	20	0	91.8	74-134	17.36	5.6	30	
cis-1,3-Dichloropropene	16.93	0.26	5.0	20	0	84.6	62-134	16.33	3.61	30	
Dibromochloromethane	16.49	0.47	5.0	20	0	82.4	57-118	16.48	0.0607	30	
Dichlorodifluoromethane	12.91	1.1	10	20	0	64.6	43-126	12.44	3.71	30	
Ethylbenzene	14.28	0.6	5.0	20	0	71.4	75-133	13.75	3.78	30	S
Isopropylbenzene	14.23	0.64	5.0	20	0	71.2	74-137	13.49	5.34	30	S
m,p-Xylene	28.02	1.2	2.5	40	0	70	75-134	27.19	3.01	30	S
Methyl tert-butyl ether	19.87	0.23	5.0	20	0	99.4	62-136	18.09	9.38	30	
Methylene chloride	18.21	0.86	5.0	20	0	91	55-157	17.93	1.55	30	
o-Xylene	14.9	0.47	2.5	20	0	74.5	76-130	14.35	3.76	30	S
Styrene	15.76	0.4	5.0	20	0	78.8	72-138	15.13	4.08	30	
Tetrachloroethene	15.11	0.89	5.0	20	0	75.6	70-171	15.31	1.31	30	
Toluene	15.57	0.56	5.0	20	0	77.8	76-130	15.23	2.21	30	
trans-1,2-Dichloroethene	17.13	0.4	5.0	20	0	85.6	65-137	16.81	1.89	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253681** Instrument ID **VMS10** Method: **SW8260C**

trans-1,3-Dichloropropene	16.79	0.29	5.0	20	0	84	58-126	15.87	5.63	30
Trichloroethene	16.94	0.72	5.0	20	0	84.7	75-135	16.24	4.22	30
Trichlorofluoromethane	14.67	0.71	5.0	20	0	73.4	62-136	14.45	1.51	30
Vinyl chloride	15.09	0.7	5.0	20	0	75.4	57-143	14.83	1.74	30
Surr: 1,2-Dichloroethane-d4	*21.32*	0	0	*20*	0	*107*	*83-132*	21.71	*1.81*	*30*
Surr: 4-Bromofluorobenzene	*21.23*	0	0	*20*	0	*106*	*83-111*	21.36	*0.61*	*30*
Surr: Dibromofluoromethane	*20.49*	0	0	*20*	0	*102*	*77-125*	20.55	*0.292*	*30*
Surr: Toluene-d8	*19.51*	0	0	*20*	0	*97.6*	*86-108*	19.86	*1.78*	*30*

The following samples were analyzed in this batch:

19011014-08A	19011014-09A	19011014-10A
19011014-11A	19011014-13A	19011014-14A
19011014-15A	19011014-16A	19011014-19A
19011014-20A	19011014-21A	19011014-22A
19011014-23A	19011014-24A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253534** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R253534** Units: **% of sample** Analysis Date: **1/21/2019 01:32 PM**

Client ID: Run ID: **MOIST_190121B** SeqNo: **5489616** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.1	0.10								

LCS Sample ID: **LCS-R253534** Units: **% of sample** Analysis Date: **1/21/2019 01:32 PM**

Client ID: Run ID: **MOIST_190121B** SeqNo: **5489615** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.1	0.10	100	0	100	98-102	0			

DUP Sample ID: **19011014-01B DUP** Units: **% of sample** Analysis Date: **1/21/2019 01:32 PM**

Client ID: **B-11 (0-2)** Run ID: **MOIST_190121B** SeqNo: **5489594** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	25.53	0.1	0.10	0	0	0	0-0	25.29	0.945	10	

DUP Sample ID: **19011014-23B DUP** Units: **% of sample** Analysis Date: **1/21/2019 01:32 PM**

Client ID: **DUP-1** Run ID: **MOIST_190121B** SeqNo: **5489609** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	26.08	0.1	0.10	0	0	0	0-0	26.58	1.9	10	

The following samples were analyzed in this batch:

19011014-01B	19011014-02B	19011014-03B
19011014-04B	19011014-05B	19011014-06B
19011014-07B	19011014-08B	19011014-09B
19011014-10B	19011014-11B	19011014-12B
19011014-13B	19011014-14B	19011014-23B
19011014-24B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech
Work Order: 19011014
Project: Holden Business Park (103X9025140002.056)

QC BATCH REPORT

Batch ID: **R253537** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R253537** Units: **% of sample** Analysis Date: **1/21/2019 03:02 PM**

Client ID: Run ID: **MOIST_190121C** SeqNo: **5489693** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.1	0.10								

LCS Sample ID: **LCS-R253537** Units: **% of sample** Analysis Date: **1/21/2019 03:02 PM**

Client ID: Run ID: **MOIST_190121C** SeqNo: **5489692** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.1	0.10	100	0	100	98-102	0			

DUP Sample ID: **19011014-17B DUP** Units: **% of sample** Analysis Date: **1/21/2019 03:02 PM**

Client ID: **B-19 (0-2)** Run ID: **MOIST_190121C** SeqNo: **5489673** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	21.83	0.1	0.10	0	0	0	0-0	21.27	2.6	10	

DUP Sample ID: **19011021-04B DUP** Units: **% of sample** Analysis Date: **1/21/2019 03:02 PM**

Client ID: Run ID: **MOIST_190121C** SeqNo: **5489682** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	20.56	0.1	0.10	0	0	0	0-0	19.46	5.5	10	

The following samples were analyzed in this batch:

19011014-15B	19011014-16B	19011014-17B
19011014-18B	19011014-19B	19011014-20B
19011014-21B	19011014-22B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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Chain of Custody Form

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COC ID: 185446

ALS Project Manager: EB

ALS Work Order #: 1901014

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	8260 VOC's (USA METHOD 5035)
Work Order		Project Number	103X9025140002.056	B	
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address	josh.mellema@tetratech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-11 (0-2)	1/16/19	0825	SOIL	9	4	✓										
2	B-11 (10.5-11.5)	1/16/19	0848	SOIL	9	4	✓										
3	B-12 (0-2)	1/16/19	0900	SOIL	9	4	✓										
4	B-12 (9.5-10.5)	1/16/19	0919	SOIL	9	4	✓										
5	B-13 (0-2)	1/16/19	0935	SOIL	9	4	✓										
6	B-13 (11-12)	1/16/19	0950	SOIL	9	4	✓										
7	B-14 (0-2)	1/16/19	1008	SOIL	9	4	✓										
8	B-14 (10-11)	1/16/19	1015	SOIL	9	4	✓										
9	B-15 (0-2)	1/16/19	1024	SOIL	9	4	✓										
10	B-15 (9-9)	1/16/19	1034	SOIL	9	4	✓										

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☒ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____

Results Due Date: 1/25/19

Relinquished by:	Date: 1/17/19	Time: 6930	Received by: FEDEX	Notes:
Relinquished by:	Date:	Time:	Received by (Laboratory): 1-21-19	Cooler ID: SLZ, PHS; Cooler Temp.: 2.8C
Logged by (Laboratory): MF	Date: 1/19/19	Time: 11:20	Checked by (Laboratory): EB	

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other _____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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Chain of Custody Form

Page 2 of 3

COC ID: 185447

ALS Project Manager: EB | ALS Work Order #: 1901014

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	VOC'S 8260 (USA METHOD 5035)
Work Order		Project Number	103X9025140002.056	B	
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address	Josh.mellema@tetratech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
11	B-16 (0-2)	1/16/19	1650	SOIL	9	4	✓										
12	B-16 (10.5-11.5)	1/16/19	1115	SOIL	9	4	✓										
13	B-17 (0-2)	1/16/19	1128	SOIL	9	4	✓										
14	B-17 (9-10)	1/16/19	1140	SOIL	9	4	✓										
15	B-18 (0-2)	1/16/19	1245	SOIL	9	4	✓										
16	B-18 (10-11)	1/16/19	1255	SOIL	9	4	✓										
17	B-19 (0-2)	1/16/19	1310	SOIL	9	4	✓										
18	B-19 (8-9)	1/16/19	1320	SOIL	9	4	✓										
19	B-20 (0-2)	1/16/19	1336	SOIL	9	4	✓										
20	B-20 (9-10)	1/16/19	1345	SOIL	9	4	✓										

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☒ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date: 1/25/19

Relinquished by: | Date: 1/17/19 | Time: 0930 | Received by: FEDEX

Relinquished by: | Date: | Time: | Received by (Laboratory): 1-21-19

Logged by (Laboratory): NF | Date: 1/21/19 | Time: 11:20 | Checked by (Laboratory): EB

Notes:

Cooler ID	Cooler Temp.
SKZ	2.8C
PHS	

QC Package: (Check One Box Below)
- ☐ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Chain of Custody Form

Page 3 of 3

COC ID: 185449

ALS Project Manager: EB | ALS Work Order #: 1901014

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	8240 VOC'S (VIA METHOD 5035)
Work Order		Project Number	103X9025140002.056	B	
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address	josh.mellema@tetratech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
21	B-21 (0-2)	1/14/19	1356	SOIL	9	4	✓										
22	B-21 (10-11)	1/14/19	1405	SOIL	9	4	✓										
23	DUP-1	1/14/19	—	SOIL	9	4	✓										
24	DUP-2	1/14/19	—	SOIL	9	4	✓										
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Std 10 Wk Days ☒ 5 Wk Days ☐ Other ☐ 2 Wk Days ☐ 24 Hour

Results Due Date: 1/25/19

Relinquished by:	Date: 1/17/19	Time: 0930	Received by: FEDEX
Relinquished by:	Date:	Time:	Received by (Laboratory): 1-21-19
Logged by (Laboratory): NF	Date: 1-21-19	Time: 11:20	Checked by (Laboratory): EB

Notes:

Cooler ID	Cooler Temp.
SKZ	2.8C
PH15	

QC Package: (Check One Box Below)
- ☐ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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Sample Receipt Checklist

Client Name: **TETRATECH - MO** Date/Time Received: **21-Jan-19 00:00**

Work Order: **19011014** Received by: **BNF**

Checklist completed by Bernina France 21-Jan-19 Reviewed by: Ehrland Bosworth 21-Jan-19

eSignature | Date | eSignature | Date

Matrices: Soil

Carrier name: FedEx

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☑	☐	☐
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	
Sample(s) received on ice?	☑	☐	

Temperature(s)/Thermometer(s): 2.8/2.8 C SR2

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 1/21/2019 11:56:02 AM

	Yes	No		
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted	☑
Water - pH acceptable upon receipt?	☐	☐	N/A	☑
pH adjusted?	☐	☐	N/A	☑

pH adjusted by: -

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

6365200

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Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	8260 VOC'S (USA METHOD 5035)
Work Order		Project Number	103X9025140002.056	B	
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address	josh.mellema@tetratech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-11 (0-2)	1/16/19	0825	SOIL	9	4	✓										
2	B-11 (10.5-11.5)	1/16/19	0848	SOIL	9	4	✓										
3	B-12 (0-2)	1/16/19	0900	SOIL	9	4	✓										
4	B-12 (9.5-10.5)	1/16/19	0919	SOIL	9	4	✓										
5	B-13 (0-2)	1/16/19	0935	SOIL	9	4	✓										
6	B-13 (11-12)	1/16/19	0950	SOIL	9	4	✓										
7	B-14 (0-2)	1/16/19	1008	SOIL	9	4	✓										
8	B-14 (10-11)	1/16/19	1015	SOIL	9	4	✓										
9	B-15 (0-2)	1/16/19	1024	SOIL	9	4	✓										
10	B-15 (9-9)	1/16/19	1039	SOIL	9	4	✓										

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☒ 5 WK Days ☐ Other ____ ☐ 2 WK Days ☐ 24 Hour

Results Due Date: 1/25/19

Relinquished by:	Date: 1/17/19	Time: 0930	Received by: FEDEX
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other ____
☐ TPHP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Chain of Custody Form

Page 2 of 3

COC ID: 185447

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	HOLDEN BUSINESS PARK	A	VOC'S 8260 (VIA METHOD 5035)
Work Order		Project Number	103X9025140002.056	B	
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address	Josh.Mellema@tetratech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-16 (6-2)	1/16/19	1650	SOIL	9	4	✓										
2	B-16 (16.5-11.5)	1/16/19	1115	SOIL	9	4	✓										
3	B-17 (0-2)	1/16/19	1128	SOIL	9	4	✓										
4	B-17 (9-10)	1/16/19	1140	SOIL	9	4	✓										
5	B-18 (0-2)	1/16/19	1245	SOIL	9	4	✓										
6	B-18 (10-11)	1/16/19	1255	SOIL	9	4	✓										
7	B-19 (0-2)	1/16/19	1310	SOIL	9	4	✓										
8	B-19 (8-9)	1/16/19	1320	SOIL	9	4	✓										
9	B-20 (0-2)	1/16/19	1334	SOIL	9	4	✓										
10	B-20 (9-10)	1/16/19	1345	SOIL	9	4	✓										

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☒ 5 WK Days ☐ Other ____ 2 WK Days ☐ 24 Hour

Results Due Date: 1/25/19

Relinquished by:	Date: 1/17/19	Time: 0930	Received by: FEDEX
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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COC ID: 185449

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South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WOLDEN BUSINESS PARK	A	8260 VOCS (VIA METHOD 5035)
Work Order		Project Number	103X9025140002.056	B	
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	
Send Report To	JOSHUA MELLEMA	Invoice Attn	Accounts Payable	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 412-1748	Fax	(816) 412-1748	I	
e-Mail Address	josh.mellema@tetratech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-21 (0-2)	1/16/18	1356	SOIL	9	4	✓										
2	B-21 (10-11)	1/16/18	1405	SOIL	9	4	✓										
3	DUP-1	1/16/18	—	SOIL	9	4	✓										
4	DUP-2	1/16/18	—	SOIL	9	4	✓										
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: JOSHUA MELLEMA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☒ 5 WK Days ☐ Other 2 WK Days ☐ 24 Hour

Results Due Date: 1/25/19

Relinquished by:	Date: 1/17/18	Time: 0930	Received by: FEDEX	Notes:
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID / Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check One Box Below)

☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRPH Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

APPENDIX F

DATA TABLES

SOIL SAMPLE ANALYTICAL SUMMARY
HOLDEN BUSINESS PARK
HOLDEN, MISSOURI
DECEMBER 2018 AND DECEMBER 2019

Analyte	Units	EPA RSL	MDNR RBTL Surficial Soil	MDNR RBTL Subsurface Soil	MDNR LDTL	Johnson County Background	B-1		B-2		B-3		B-4	B-5		B-6		B-7		B-8		B-9			B-10	
							Depth (feet below ground surface)																			
							0-2	10-12	0-2	12-14	0-2	12-14	2-4	0-2	13-15	0-2	8-10	0-2	4-6	0-2	8-10	0-2	Duplicate	6-8	0-2	12-14
PCBS (EPA Method 8082)																										
Aroclor 1016	µg/kg	5,100	36,500	35,400,000	3,860	N/A	ND (28)	ND (26)	ND (29)	ND (28)	ND (27)	ND (28)	ND (29)	ND (28)	ND (27)	ND (27)	ND (28)	ND (27)	ND (26)	ND (28)	ND (28)	ND (28)	ND (25)	ND (26)	ND (28)	ND (27)
Aroclor 1221	µg/kg	830	6,940	13,100	97.5	N/A	ND (28)	ND (26)	ND (29)	ND (28)	ND (27)	ND (28)	ND (29)	ND (28)	ND (27)	ND (27)	ND (28)	ND (27)	ND (26)	ND (28)	ND (28)	ND (28)	ND (25)	ND (26)	ND (28)	ND (27)
Aroclor 1232	µg/kg	720	NE	NE	NE	N/A	ND (28)	ND (26)	ND (29)	ND (28)	ND (27)	ND (28)	ND (29)	ND (28)	ND (27)	ND (27)	ND (28)	ND (27)	ND (26)	ND (28)	ND (28)	ND (28)	ND (25)	ND (26)	ND (28)	ND (27)
Aroclor 1242	µg/kg	950	6,940	146,000	55.7	N/A	ND (28)	ND (26)	ND (29)	ND (28)	ND (27)	ND (28)	ND (29)	ND (28)	ND (27)	ND (27)	ND (28)	ND (27)	ND (26)	ND (28)	ND (28)	ND (28)	ND (25)	ND (26)	ND (28)	ND (27)
Aroclor 1248	µg/kg	950	7,140	1,420,000	1,080	N/A	ND (28)	ND (26)	ND (29)	ND (28)	ND (27)	ND (28)	ND (29)	ND (28)	ND (27)	ND (27)	ND (28)	ND (27)	ND (26)	ND (28)	ND (28)	ND (28)	ND (25)	ND (26)	ND (28)	ND (27)
Aroclor 1254	µg/kg	970	7,250	3,740,000	1,100	N/A	ND (23)	ND (21)	ND (23)	ND (22)	ND (22)	ND (23)	ND (24)	**78 J**	ND (22)	ND (22)	ND (23)	ND (22)	ND (21)	ND (23)	ND (23)	**150**	**150**	ND (21)	ND (23)	ND (22)
Aroclor 1260	µg/kg	990	7,370	28,200,000	1,110	N/A	ND (23)	ND (21)	ND (23)	ND (22)	ND (22)	ND (23)	ND (24)	**39 J**	ND (22)	ND (22)	ND (23)	ND (22)	ND (21)	ND (23)	ND (23)	**160**	**170**	ND (21)	**58**	ND (22)
Aroclor 1262	µg/kg	NE	NE	NE	NE	N/A	ND (23)	ND (21)	ND (23)	ND (22)	ND (22)	ND (23)	ND (24)	ND (23)	ND (22)	ND (22)	ND (23)	ND (22)	ND (21)	ND (23)	ND (23)	ND (22)	ND (21)	ND (21)	ND (23)	ND (22)
Aroclor 1268	µg/kg	NE	NE	NE	NE	N/A	ND (23)	ND (21)	ND (23)	ND (22)	ND (22)	ND (23)	ND (24)	ND (23)	ND (22)	ND (22)	ND (23)	ND (22)	ND (21)	ND (23)	ND (23)	ND (22)	ND (21)	ND (21)	ND (23)	ND (22)
Metals (EPA Methods 7471 & 6010)																										
Mercury	mg/kg	4.6	630	34	2.19	0.011	**0.0042**	**0.053**	**0.0024**	**0.037**	**0.0023**	**0.091**	**0.064**	**0.055**	**0.027**	**0.055**	**0.046**	**0.038**	**0.047**	**0.03**	**0.059**	**0.022**	**0.021**	**0.032**	**0.045**	**0.04**
Arsenic	mg/kg	3	15.9	NE	3.89	17.479	**7**	**2.7**	**6.2**	**4.8**	**5.5**	**14**	**14**	**10**	**0.66**	**6.4**	**13**	**5.5**	**10**	**5.9**	**10**	**7**	**4.1**	**16**	**6.7**	**11**
Barium	mg/kg	22,000	181,000	NE	2,040	NE	**180**	**20**	**170**	**26**	**130**	**140**	**360**	**240**	**39**	**180**	**120**	**150**	**230**	**170**	**63**	**140**	**75**	**68**	**170**	**81**
Cadmium	mg/kg	98	74.8	NE	9.31	NE	**0.16 J**	ND (0.029)	**0.67 J**	**1.8**	ND (0.040)	**1.3**	**9.6**	**0.12 J**	ND (0.046)	ND (0.045)	ND (0.047)	**0.070 J**	**0.083 J**	**0.11 J**	**2.2**	**0.18 J**	**0.19 J**	ND (0.036)	**0.10 J**	ND (0.042)
Chromium	mg/kg	NE	472,000	NE	74,600	NE	**17**	**9.1**	**13**	**17**	**13**	**25**	**17**	**12**	**12**	**13**	**22**	**12**	**17**	**12**	**26**	**19**	**11**	**23**	**12**	**13**
Lead	mg/kg	800	660	660	3.74	35.174	**14**	**10**	**15**	**9.3**	**14**	**19**	**21**	**30**	**2.7**	**9.1**	**14**	**10**	**15**	**9.9**	**24**	**39**	**26**	**16**	**22**	**13**
Selenium	mg/kg	580	4,780	NE	6.27	0.55	**0.77 J**	**0.28 J**	**0.75 J**	**0.81 J**	**0.62 J**	**1.9**	**0.7**	**1.2**	**1.9**	**0.69 J**	**0.81 J**	**0.66 J**	**0.84 J**	**0.66 J**	**1.3**	**0.27 J**	**0.23 J**	**0.71 J**	**0.55 J**	**0.74 J**
Silver	mg/kg	580	4,480	NE	16.2	NE	ND (0.054)	ND (0.037)	ND (0.054)	**0.29 J**	ND (0.051)	ND (0.063)	ND (0.061)	ND (0.063)	ND (0.060)	ND (0.058)	ND (0.061)	ND (0.060)	ND (0.055)	ND (0.060)	**0.24 J**	ND (0.055)	ND (0.048)	ND (0.047)	ND (0.055)	ND (0.054)
Hydrocarbons (EPA Methods 8260 & 8270)																										
GRO (C6-C10)	µg/kg	NE	4,650,000,000	5,790,000	385,000	N/A	ND (1.9)	ND (1.7)	ND (1.9)	ND (1.8)	ND (1.9)	**6.4**	ND (2.0)	**2**	ND (1.7)	ND (1.9)	ND (1.8)	ND (1.9)	ND (1.7)	ND (1.9)	ND (1.9)	ND (1.8)	ND (1.7)	ND (1.7)	**2.7**	**24**
DRO (C10-C21)	mg/kg	NE	1,410,000	63,600	4,150	N/A	**10**	ND (1.7)	**11**	**12**	ND (1.9)	**19**	ND (1.9)	ND (1.9)	ND (1.8)	**8.5**	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.9)	ND (1.9)	ND (1.8)	ND (1.8)	ND (1.8)	**12**	ND (1.8)
ORO (C21-C35)	mg/kg	NE	1,250,000	NE	124,000	N/A	**26**	ND (1.9)	**27**	ND (2.0)	ND (2.1)	**28**	ND (2.1)	ND (2.1)	ND (2.0)	ND (2.1)	ND (2.0)	ND (2.1)	ND (2.0)	ND (2.1)	ND (2.1)	ND (2.0)	ND (1.8)	ND (2.0)	**33**	ND (2.0)
SVOCs (EPA Method 8270)																										
2-Methylnaphthalene	µg/kg	300,000	3,590,000	9,610,000	7,550	N/A	ND (4.1)	ND (3.9)	**36**	**31**	ND (4.1)	ND (4.1)	ND (4.3)	ND (4.1)	ND (4.0)	ND (4.1)	ND (4.1)	ND (4.0)	ND (4.0)	ND (4.2)	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.0)	ND (4.1)	ND (3.9)
4,6-Dinitro-2-methylphenol (o-Cresol)	µg/kg	4,100,000	56,100	670,000	2	N/A	**57**	ND (9.6)	ND (11)	**57**	ND (10)	ND (10)	ND (11)	ND (10)	ND (9.9)	ND (10)	ND (10)	ND (10)	ND (9.8)	ND (10)	ND (10)	ND (9.8)	ND (9.5)	ND (10)	ND (10)	ND (9.5)
4-Nitrophenol	µg/kg	NE	776,000	2,200,000	53.9	N/A	**49**	ND (34)	ND (38)	**45**	ND (36)	ND (36)	ND (38)	ND (36)	ND (35)	ND (36)	ND (36)	ND (36)	ND (35)	**47**	ND (37)	ND (35)	ND (34)	ND (35)	ND (36)	ND (34)
Acenaphthene	µg/kg	4,500,000	30,700,000	1,020,000,000	174,000	N/A	**11**	ND (5.5)	ND (6.1)	**9.6**	ND (5.8)	ND (5.8)	ND (6.1)	ND (5.9)	ND (5.7)	ND (5.9)	ND (5.8)	ND (5.7)	ND (5.6)	ND (5.9)	ND (6.0)	ND (5.6)	ND (5.5)	ND (5.7)	ND (5.9)	ND (5.5)
Anthracene	µg/kg	23,000,000	154,000,000	5,960,000,000	3,060,000	N/A	ND (5.7)	ND (5.4)	ND (6.0)	**33**	ND (5.6)	ND (5.7)	ND (6.0)	ND (5.7)	ND (5.6)	ND (5.7)	ND (5.7)	ND (5.6)	ND (5.5)	ND (5.8)	ND (5.9)	ND (5.5)	ND (5.3)	ND (5.6)	ND (5.7)	ND (5.3)
Benzo(a)anthracene	µg/kg	21,000	21,100	2,070,000,000	6,120	N/A	ND (7.0)	ND (6.6)	**20**	**23**	ND (6.9)	ND (6.9)	ND (7.3)	ND (7.0)	ND (6.8)	ND (7.0)	ND (7.0)	ND (6.9)	ND (6.7)	ND (7.1)	ND (7.2)	**14**	ND (6.5)	ND (6.9)	ND (7.0)	ND (6.6)
Benzo(a)pyrene	µg/kg	2,100	2,110	1,210,000,000	620	N/A	**9.7**	ND (4.7)	ND (5.2)	**9.6**	ND (4.9)	ND (4.9)	ND (5.2)	ND (5.0)	ND (4.8)	ND (5.0)	ND (4.9)	ND (4.9)	ND (4.8)	ND (5.0)	ND (5.1)	ND (4.8)	ND (4.6)	ND (4.9)	ND (5.0)	ND (4.7)
Benzo(b)fluoranthene	µg/kg	21,000	21,000	548,000,000	6,190	N/A	ND (6.0)	ND (5.7)	ND (6.3)	**30**	ND (5.9)	ND (6.0)	ND (6.3)	ND (6.0)	ND (5.9)	ND (6.1)	ND (6.0)	ND (5.9)	ND (5.8)	ND (6.1)	ND (6.2)	ND (5.8)	ND (5.6)	ND (5.9)	ND (6.1)	ND (5.7)
Benzo(k)fluoranthene	µg/kg	210,000	211,000	29,100,000,000	62,000	N/A	ND (6.1)	ND (5.8)	ND (6.4)	**29**	ND (6.0)	ND (6.1)	ND (6.4)	ND (6.1)	ND (6.0)	ND (6.2)	ND (6.1)	ND (6.0)	ND (5.9)	ND (6.2)	ND (6.3)	ND (5.9)	ND (5.7)	ND (6.0)	ND (6.2)	ND (5.7)
Bis(2-ethylhexyl)phthalate	µg/kg	160,000	1,230,000	20,900,000,000,000	347,000	N/A	ND (7.0)	**170**	**66**	**62**	ND (6.9)	**64**	**68**	**100**	ND (6.9)	ND (7.0)	ND (7.0)	ND (6.9)	ND (6.7)	ND (3.9)	ND (7.2)	ND (6.7)	ND (6.6)	ND (6.9)	ND (7.1)	ND (6.6)
Chrysene	µg/kg	2,100,000	2,020,000	1,890,000,000	599,000	N/A	**8.9**	ND (6.2)	**16**	**81**	ND (6.4)	**18**	ND (6.9)	ND (6.6)	ND (6.4)	ND (6.6)	ND (6.5)	ND (6.4)	ND (6.3)	ND (6.6)	ND (6.8)	**10**	ND (6.1)	ND (6.4)	ND (6.6)	ND (6.1)
Dibenz(a,h)anthracene	µg/kg	2,100	2,110	14,900,000,000	620	N/A	ND (4.4)	ND (4.1)	ND (4.6)	**8.8**	ND (4.3)	ND (4.3)	ND (4.6)	ND (4.4)	ND (4.3)	ND (4.4)	ND (4.3)	ND (4.3)	ND (4.2)	ND (4.4)	ND (4.5)	ND (4.2)	ND (4.1)	ND (4.3)	ND (4.4)	ND (4.1)
Di-n-octyl phthalate	µg/kg	820,000	22,800,000	1,470,000,000	75,800	N/A	ND (7.8)	ND (7.3)	ND (8.1)	**55**	ND (7.6)	ND (7.7)	ND (8.1)	ND (7.8)	ND (7.6)	ND (7.8)	ND (7.7)	ND (7.6)	ND (7.5)	ND (7.9)	ND (8.0)	ND (7.5)	ND (7.3)	ND (7.6)	ND (7.8)	ND (7.3)
Fluoranthene	µg/kg	3,000,000	21,800,000	130,000,000,000	2,280,000	N/A	ND (3.9)	ND (3.7)	**34**	**38**	ND (3.8)	ND (3.9)	ND (4.1)	ND (3.9)	ND (3.8)	ND (3.9)	ND (3.9)	ND (3.8)	ND (3.7)	ND (3.9)	ND (4.0)	**12**	ND (3.6)	ND (3.8)	ND (3.9)	ND (3.6)
Ideno(1,2,3-cd)pyrene	µg/kg	21,000	12,800	65,300,000,000	3,770	N/A	**9.7**	ND (5.3)	ND (5.9)	**11**	ND (5.5)	ND (5.6)	ND (5.9)	ND (5.6)	ND (5.5)	ND (5.7)	ND (5.6)	ND (5.5)	ND (5.4)	ND (5.7)	ND (5.8)	ND (5.4)	ND (5.3)	ND (5.5)	ND (5.7)	ND (5.3)
Naphthalene	µg/kg	17,000	119,000	260,000	325	N/A	ND (5.2)	ND (4.9)	ND (5.4)	**15**	ND (5.1)	ND (5.1)	ND (5.4)	ND (5.2)	ND (5.1)	ND (5.2)	ND (5.1)	ND (5.1)	ND (5.0)	ND (5.2)	ND (5.3)	ND (5.0)	ND (4.8)	ND (5.1)	ND (5.2)	ND (4.8)
Pentachlorophenol	µg/kg	4,000	90,000	450,000,000	89.4	N/A	**47**	ND (14)	ND (16)	**49**	ND (15)	ND (15)	ND (16)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (14)	ND (15)	ND (15)	ND (14)	ND (14)	ND (15)	ND (15)	ND (14)
Phenanthrene	µg/kg	NE	27,500,000	1,510,000,000	158,000	N/A	ND (3.8)	ND (3.5)	ND (3.9)	**30**	ND (3.7)	ND (3.7)	ND (3.9)	ND (3.8)	ND (3.7)	ND (3.8)	ND (3.7)	ND (3.7)	ND (3.6)	ND (3.8)	ND (3.9)	ND (3.6)	ND (3.5)	ND (3.7)	ND (3.8)	ND (3.5)
Pyrene	µg/kg	2,300,000	16,400,000	147,000,000,000	1,500,000	N/A	ND (1.5)	ND (1.4)	**28**	**70**	ND (1.4)	**22**	ND (1.5)	**8.9**	ND (1.4)	ND (1.5)	ND (1.5)	ND (1.4)	ND (1.4)	ND (1.5)	**9.2**	**18**	**11**	ND (1.4)	ND (1.5)	ND (1.4)
VOCs (EPA Method 8260)																										
1,1-Dichloroethene	µg/kg	100,000	45,600,000	42,100	108	N/A	ND (1.1)	ND (0.99)	ND (1.0)	ND (15)	ND (0.95)	ND (15)	ND (15)	ND (15)	ND (13)	ND (15)	ND (0.93)	ND (15)	ND (14)	ND (15)	ND (17)	ND (14)	ND (0.96)	ND (15)	ND (15)	**62**
4-Methyl-2-pentanone	µg/kg	100,000	80,700,000	199,000,000	19,500	N/A	**1.5 J**	ND (0.82)	ND (0.85)	ND (22)	ND (0.79)	ND (22)	ND (22)	ND (22)	ND (20)	ND (21)	ND (0.77)	ND (22)	ND (20)	ND (21)	ND (24)	ND (21)	ND (0.79)	ND (22)	ND (22)	ND (19)
2-Butanone	µg/kg	19,000,000	579,000,000	103,000,000	7,300	N/A	ND (2.2)	ND (1.9)	ND (2.0)	ND (37)	**14**	ND (38)	ND (39)	ND (38)	ND (34)	ND (37)	ND (1.8)	ND (38)	ND (35)	ND (37)	ND (42)	ND (36)	**23**	ND (38)	ND (39)	ND (33)
cis-1,2-Dichloroethene	µg/kg	230,000	8,970,000	31,100	521	N/A	ND (0.54)	ND (0.48)	ND (0.50)	**18 J**	ND (0.47)	**230**	ND (15)	ND (14)	ND (13)	ND (14)	ND (0.46)	ND (14)	ND (13)	ND (14)	ND (16)	ND (14)	ND (0.47)	ND (14)	ND (15)	**16 J**
Acetone	µg/kg	67,000,000	807,000,000	56,700,000	4,200	N/A	ND (47)	**22**	ND (48)	ND (47)	ND (47)	ND (48)	ND (49)	ND (48)	ND (43)	ND (47)	**21**	ND (48)	ND (45)	ND (47)	ND (53)	ND (45)	ND (42)	ND (48)	**51 J**	ND (42)
Benzene	µg/kg	5,100	763,000	4,230	56.1	N/A	ND (0.59)	ND (0.52)	ND (0.54)	ND (7.7)	ND (0.51)	ND (7.9)	ND (8.0)	ND (7.9)	ND (7.1)	ND (7.7)	ND (0.49)	ND (7.9)	ND (7.4)	ND (7.7)	ND (8.7)	ND (7.4)	ND (0.51)	ND (7.9)	ND (8.0)	ND (6.9)
Chloroform	µg/kg	1,400	678,000	900	76.6	N/A	ND (0.34)	ND (0.30)	ND (0.31)	ND (17)	ND (0.29)	ND (17)	ND (17)	ND (17)	ND (15)	ND (16)	ND (0.28)	ND (17)	ND (16)	ND (16)	ND (19)	ND (16)	ND (0.29)	ND (17)	ND (17)	ND (15)
Chloromethane	µg/kg	46,000	2,060,000	2,220	204	N/A	ND (0.52)	ND (0.46)	ND (0.48)	ND (38)	ND (0.45)	ND (38)	ND (39)	ND (38)	ND (35)	ND (38)	ND (0.44)	ND (38)	ND (36)	ND (38)	ND (43)	ND (36)	ND (0.45)	ND (38)	ND (39)	ND (34)
Ethylbenzene	µg/kg	25,000	97,500,000	3,020,000	39,900	N/A	ND (0.68)	ND (0.60)	ND (0.63)	ND (9.5)	ND (0.58)	ND (9.7)	**10 J**	ND (9.7)	ND (8.7)	ND (9.5)	ND (0.57)	ND (9.7)	ND (9.1)	ND (9.5)	ND (11)	ND (9.1)	ND (0.59)	ND (9.7)	ND (9.9)	ND (8.6)
Isopropylbenzene	µg/kg	990,000	91,100,000	160,000	10,500	N/A	ND (0.72)	ND (0.64)	ND (0.67)	ND (14)	ND (0.62)	ND (14)	ND (14)	ND (14)	ND (13)	ND (14)	ND (0.61)	ND (14)	ND (13)	ND (14)	ND (16)	ND (13)	ND (0.63)	ND (14)	ND (14)	ND (12)
Methyl acetate	µg/kg	120,000,000	NE	NE	NE	N/A	ND (1.4)	ND (1.2)	ND (1.3)	**49 J**	ND (1.2)	**53 J**	ND (21)	**300 J**	**31 J**	**110**	ND (1.1)	**240 J**	**51 J**	**240 J**	**52 J**	**130 J**	ND (1.2)	**41 J**	ND (21)	ND (18)
Methylcyclohexane	µg/kg	NE	NE	NE	NE	N/A	ND (1.7)	**2.0 J**	ND (1.6)	ND (17)	ND (1.4)	ND (18)	ND (18)	ND (18)	ND (16)	ND (17)	ND (1.4)	ND (18)	ND (16)	ND (17)	ND (19)	ND (16)	ND (1.5)	ND (18)	ND (18)	ND (15)
Methylene chloride	µg/kg	320,000	3,700,000	40,300	17.6	N/A	ND (0.97)	**4.1 J**	ND (0.90)	ND (19)	ND (0.84)	ND (20)	ND (20)	ND (20)	ND (18)	ND (19)	ND (0.82)	ND (20)	ND (18)	ND (19)	ND (22)	ND (18)	ND (0.84)	ND (20)	ND (20)	ND (17)
Styrene	µg/kg	3,500,000	186,000,000	18,400,000	11,700	N/A	ND (0.45)	ND (0.40)	ND (0.42)	ND (18)	ND (0.39)	ND (18)	ND (19)	ND (18)	ND (16)	ND (18)	ND (0.38)	ND (18)	ND (17)	ND (178)	ND (20)	ND (17)	ND (0.39)	ND (18)	ND (19)	ND (16)
Tetrachloroethene	µg/kg	39,000	52,700	3,110	141	N/A	ND (1.0)	ND (0.90)	ND (0.93)	ND (13)	ND (0.86)	ND (13)	**17 J**	ND (13)	ND (12)	ND (13)	ND (0.84)	ND (13)	ND (13)	ND (13)	ND (15)	ND (13)	ND (0.87)	ND (13)	**860**	**3,800**
Toluene	µg/kg	4,700,000	81,100,000	7,980,000	29,800	N/A	ND (0.63)	ND (0.56)	ND (0.59)	ND (12)	ND (0.54)	ND (13)	ND (13)	ND (13)	ND (11)	ND (12)	ND (0.53)	ND (13)	ND (12)	ND (12)	ND (14)	ND (12)	ND (0.55)	ND (13)	**16 J**	ND (11)
Trichloroethene	µg/kg	1,900	2,050,000	15,300	141	N/A	ND (0.82)	ND (0.73)	ND (0.75)	ND (20)	ND (0.70)	**2,900**	ND (21)	ND (21)	ND (19)	ND (20)	ND (0.68)	ND (21)	ND (19)	ND (20)	ND (23)	ND (19)	ND (0.70)	ND (21)	ND (21)	ND (18)
o-Xylene	µg/kg	280,000	104,000,000	386,000	24,700	N/A	ND (0.53)	ND (0.47)	ND (0.49)	ND (18)	ND (0.46)	ND (18)	**56**	ND (18)	ND (16)	ND (17)	ND (0.45	ND (18)	ND (17)	ND (17)	ND (20)	ND (17)	ND (0.46)	ND (18)	**23 J**	ND (16)
m,p-Xylene	µg/kg	240,000				N/A	ND (1.4)	ND (1.2)	ND (1.3)	ND (22)	ND (1.2)	ND (22)	**58 J**	ND (22)	ND (20)	ND (21)	ND (1.2)	ND (22)	ND (20)	ND (21)	ND (24)	ND (21)	ND (1.2)	ND (22)	ND (22)	ND (19)

Notes:

Duplicate sample collected from sample B-9 (0-2)
Dup-1 sample collected from sample B-20 (0-2)
Dup-2 sample collected from sample B-21 (10-11)
Bold Shading: Concentration exceeds laboratory detection limit.
Yellow Shading: Concentration exceeds MDNR LDTL
Orange Shading: Concentration exceeds EPA RSL value
Red Shading: Concentration exceeds MDNR RBTL
In instances where a concentration exceeds multiple regulatory values, the highest exceedence is shaded accordingly.

EPA: U.S. Environmental Protection Agency
LDTL: Lowest Default Target Level
MDNR: Missouri Department of Natural Resources
µg/kg: Micrograms per kilogram
mg/kg: Milligrams per kilogram
N/A: Not applicable
ND: Concentration does not exceed laboratory detection limits
NE: Not Established
RBTL: Risk-Based Target Level (non-residential scenario)
RSL: Regional Screening Levels

SOIL SAMPLE ANALYTICAL SUMMARY
HOLDEN BUSINESS PARK
HOLDEN, MISSOURI
DECEMBER 2018 AND DECEMBER 2019

Analyte	Units	EPA RSL	MDNR RBTL Surficial Soil	MDNR RBTL Subsurface Soil	MDNR LDTL	Johnson County Background	B-11		B-12		B-13		B-14		B-15		B-16		B-17		B-18		B-19		B-20			B-21		
							Depth (feet below ground surface)																							
							0-2	10.5-11.5	0-2	9.5-10.5	0-2	11-12	0-2	10-11	0-2	8-9	0-2	10.5-11.5	0-2	9-10	0-2	10-11	0-2	8-9	0-2	Dup-1	9-10	0-2	10-11	Dup-2
PCBS (EPA Method 8082)																														
Aroclor 1016	µg/kg	5,100	36,500	35,400,000	3,860	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1221	µg/kg	830	6,940	13,100	97.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1232	µg/kg	720	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1242	µg/kg	950	6,940	146,000	55.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1248	µg/kg	950	7,140	1,420,000	1,080	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1254	µg/kg	970	7,250	3,740,000	1,100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1260	µg/kg	990	7,370	28,200,000	1,110	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1262	µg/kg	NE	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1268	µg/kg	NE	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals (EPA Methods 7471 & 6010)																														
Mercury	mg/kg	4.6	630	34	2.19	0.011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	mg/kg	3	15.9	NE	3.89	17.479	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Barium	mg/kg	22,000	181,000	NE	2,040	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium	mg/kg	98	74.8	NE	9.31	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium	mg/kg	NE	472,000	NE	74,600	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lead	mg/kg	800	660	660	3.74	35.174	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium	mg/kg	580	4,780	NE	6.27	0.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silver	mg/kg	580	4,480	NE	16.2	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrocarbons (EPA Methods 8260 & 8270)																														
GRO (C6-C10)	µg/kg	NE	4,650,000,000	5,790,000	385,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DRO (C10-C21)	mg/kg	NE	1,410,000	63,600	4,150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ORO (C21-C35)	mg/kg	NE	1,250,000	NE	124,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SVOCs (EPA Method 8270)																														
2-Methylnaphthalene	µg/kg	300,000	3,590,000	9,610,000	7,550	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol (o-Cresol)	µg/kg	4,100,000	56,100	670,000	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Nitrophenol	µg/kg	NE	776,000	2,200,000	53.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthene	µg/kg	4,500,000	30,700,000	1,020,000,000	174,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene	µg/kg	23,000,000	154,000,000	5,960,000,000	3,060,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	µg/kg	21,000	21,100	2,070,000,000	6,120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	µg/kg	2,100	2,110	1,210,000,000	620	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	µg/kg	21,000	21,000	548,000,000	6,190	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	µg/kg	210,000	211,000	29,100,000,000	62,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis(2-ethylhexyl)phthalate	µg/kg	160,000	1,230,000	20,900,000,000,000	347,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	µg/kg	2,100,000	2,020,000	1,890,000,000	599,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	µg/kg	2,100	2,110	14,900,000,000	620	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Di-n-octyl phthalate	µg/kg	820,000	22,800,000	1,470,000,000	75,800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluoranthene	µg/kg	3,000,000	21,800,000	130,000,000,000	2,280,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ideno(1,2,3-cd)pyrene	µg/kg	21,000	12,800	65,300,000,000	3,770	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene	µg/kg	17,000	119,000	260,000	325	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	µg/kg	4,000	90,000	450,000,000	89.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenanthrene	µg/kg	NE	27,500,000	1,510,000,000	158,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	µg/kg	2,300,000	16,400,000	147,000,000,000	1,500,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VOCs (EPA Method 8260)																														
1,1-Dichloroethene	µg/kg	100,000	45,600,000	42,100	108	N/A	ND (16)	ND (14)	ND (16)	ND (0.94)	ND (17)	ND (13)	ND (14)	ND (0.95)	ND (1.0)	ND (0.90)	ND (0.94)	ND (13)	ND (1.2)	ND (1.3)	ND (1.1)	ND (0.90)	ND (15)	ND (14)	ND (1.0)	ND (1.2)	ND (0.93)	ND (1.2)	ND (1.0)	ND (1.1)
4-Methyl-2-pentanone	µg/kg	100,000	80,700,000	199,000,000	19,500	N/A	ND (24)	ND (20)	ND (23)	ND (0.78)	ND (25)	ND (19)	ND (21)	ND (0.78)	ND (0.83)	ND (0.74)	ND (0.78)	ND (20)	**1.9 J**	ND (1.0)	ND (0.88)	ND (0.75)	ND (22)	ND (21)	ND (0.86)	ND (1.0)	ND (0.77)	ND (1.0)	ND (0.86)	ND (0.87)
2-Butanone	µg/kg	19,000,000	579,000,000	103,000,000	7,300	N/A	ND (41)	ND (35)	ND (40)	ND (1.8)	ND (43)	ND (33)	ND (36)	ND (1.8)	ND (2.0)	ND (1.7)	ND (1.8)	ND (34)	**66**	ND (2.5)	ND (2.1)	ND (1.8)	ND (38)	ND (36)	ND (2.0)	ND (2.4)	**12**	**25**	**24**	ND (2.0)
cis-1,2-Dichloroethene	µg/kg	230,000	8,970,000	31,100	521	N/A	ND (16)	ND (13)	ND (15)	ND (0.46)	ND (16)	ND (13)	ND (14)	ND (0.46)	ND (0.49)	ND (0.44)	ND (0.46)	ND (13)	ND (0.57)	ND (0.62)	ND (0.52)	ND (0.44)	ND (14)	ND (14)	ND (0.51)	ND (0.59)	ND (0.45)	ND (0.60)	ND (0.51)	ND (0.52)
Acetone	µg/kg	67,000,000	807,000,000	56,700,000	4,200	N/A	ND (52)	ND (44)	ND (51)	**33**	ND (54)	ND (42)	ND (45)	**7.8 J**	**14**	**8.8 J**	**32**	ND (43)	**50 J**	**78**	**55**	**17**	**58 J**	ND (45)	**71**	**88**	ND (43)	ND (52)	ND (45)	ND (48)
Benzene	µg/kg	5,100	763,000	4,230	56.1	N/A	ND (8.6)	ND (7.2)	ND (8.4)	ND (0.50)	ND (8.9)	ND (6.9)	ND (7.4)	ND (0.50)	ND (0.54)	ND (0.48)	ND (0.50)	ND (7.1)	ND (0.61)	ND (0.67)	0.78 J	ND (0.48)	ND (7.9)	ND (7.4)	ND (0.55)	ND (0.64)	ND (0.49)	ND (0.65)	ND (0.55)	ND (0.56)
Chloroform	µg/kg	1,400	678,000	900	76.6	N/A	ND (18)	ND (15)	ND (18)	**0.67 J**	ND (19)	ND (15)	ND (16)	ND (0.29)	ND (0.31)	ND (0.28)	ND (0.29)	ND (15)	ND (0.35)	ND (0.39)	ND (0.32)	ND (0.28)	ND (17)	ND (16)	ND (0.32)	ND (0.37)	ND (0.28)	ND (0.37)	ND (0.32)	ND (0.32)
Chloromethane	µg/kg	46,000	2,060,000	2,220	204	N/A	ND (42)	ND (35)	ND (41)	ND (0.44)	**43 J**	ND (34)	ND (36)	ND (0.44)	ND (0.47)	ND (0.42)	ND (0.44)	ND (35)	ND (0.54)	ND (0.60)	ND (0.50)	ND (0.42)	ND (38)	ND (36)	ND (0.49)	ND (0.57)	ND (0.44)	ND (0.57)	ND (0.49)	ND (0.49)
Ethylbenzene	µg/kg	25,000	97,500,000	3,020,000	39,900	N/A	ND (11)	ND (8.9)	ND (10)	ND (0.58)	ND (11)	ND (8.6)	ND (9.1)	**0.94 J**	**0.97 J**	**0.84 J**	**0.88 J**	ND (8.7)	**1.2 J**	ND (0.78)	**1.1 J**	ND (0.55)	ND (9.7)	ND (9.1)	ND (0.64)	ND (0.74)	ND (0.57)	ND (0.75)	ND (0.64)	ND (0.65)
Isopropylbenzene	µg/kg	990,000	91,100,000	160,000	10,500	N/A	**57**	ND (13)	ND (15)	ND (0.62)	ND (16)	ND (12)	ND (13)	ND (0.62)	**1.5 J**	**1.3 J**	**1.4 J**	ND (13)	**1.7 J**	**1.9 J**	ND (0.69)	ND (0.59)	ND (14)	ND (13)	ND (0.68)	ND (0.79)	ND (0.61)	ND (0.80)	ND (0.68)	ND (0.69)
Methyl acetate	µg/kg	120,000,000	NE	NE	NE	N/A	**130 J**	**39 J**	**120 J**	ND (1.2)	**120 J**	**36 J**	**83 J**	ND (1.2)	ND (1.2)	ND (1.1)	ND (1.2)	**40 J**	ND (1.4)	ND (1.6)	ND (1.3)	ND (1.1)	**260 J**	**42 J**	ND (1.3)	ND (1.5)	ND (1.1)	ND (1.5)	ND (1.3)	ND (1.3)
Methylcyclohexane	µg/kg	NE	NE	NE	NE	N/A	ND (19)	ND (16)	ND (19)	ND (1.4)	ND (20)	ND (15)	ND (16)	ND (1.4)	ND (1.5)	ND (1.4)	ND (1.4)	ND (16)	ND (1.8)	ND (1.9)	ND (1.6)	ND (1.4)	ND (18)	ND (16)	ND (1.6)	ND (1.8)	ND (1.4)	ND (1.9)	ND (1.6)	ND (1.6)
Methylene chloride	µg/kg	320,000	3,700,000	40,300	17.6	N/A	ND (21)	ND (18)	ND (21)	ND (0.83)	ND (22)	ND (17)	ND (18)	ND (0.83)	ND (0.89)	ND (0.79)	ND (0.83)	ND (18)	ND (1.0)	ND (1.1)	ND (0.93)	ND (0.79)	ND (20)	ND (18)	ND (0.92)	ND (1.1)	ND (0.81)	ND (1.1)	ND (0.91)	ND (0.93)
Styrene	µg/kg	3,500,000	186,000,000	18,400,000	11,700	N/A	ND (20)	ND (17)	ND (19)	ND (0.38)	ND (21)	ND (16)	ND (17)	**1.2 J**	ND (0.41)	ND (0.37)	ND (0.39)	ND (16)	ND (0.47)	ND (0.52)	ND (0.43)	ND (0.3	ND (18)	ND (17)	ND (0.43)	ND (0.50)	ND (0.38)	ND (0.50)	ND (0.42)	ND (0.43)
Tetrachloroethene	µg/kg	39,000	52,700	3,110	141	N/A	ND (15)	ND (12)	ND (14)	ND (0.86)	ND (15)	ND (12)	ND (13)	ND (0.86)	ND (0.92)	ND (0.82)	ND (0.86)	ND (12)	ND (1.1)	ND (1.2)	ND (0.96)	ND (0.37)	ND (13)	ND (13)	ND (0.95)	ND (1.1)	ND (0.84)	ND (1.1)	ND (0.94)	ND (0.96)
Toluene	µg/kg	4,700,000	81,100,000	7,980,000	29,800	N/A	ND (14)	ND (12)	ND (13)	ND (0.54)	ND (14)	ND (11)	ND (12)	ND (0.54)	ND (0.58)	ND (0.51)	ND (0.54)	ND (11)	ND (0.66)	ND (0.73)	0.78 J	ND (0.52)	ND (13)	ND (12)	ND (0.60)	ND (0.69)	ND (0.53)	ND (0.70)	ND (0.59)	ND (0.60)
Trichloroethene	µg/kg	1,900	2,050,000	15,300	141	N/A	ND (22)	ND (19)	ND (22)	ND (0.69)	ND (23)	ND (18)	ND (19)	ND (0.70)	ND (0.74)	ND (0.66)	ND (0.69)	ND (19)	ND (0.85)	ND (0.93)	ND (0.78)	ND (0.66)	ND (21)	ND (19)	ND (0.77)	ND (0.89)	ND (0.68)	ND (0.90)	ND (0.76)	ND (0.77)
o-Xylene	µg/kg	280,000	104,000,000	386,000	24,700	N/A	ND (19)	ND (16)	ND (19)	ND (0.45)	ND (20)	ND (16)	ND (17)	**1.1 J**	**1.1 J**	**0.99 J**	ND (0.45)	ND (16)	**1.3 J**	ND (0.61)	**1.2 J**	ND (0.43)	ND (18)	ND (17)	ND (0.50)	ND (0.58)	ND (0.44)	ND (0.58)	ND (0.50)	ND (0.51)
m,p-Xylene	µg/kg	240,000				N/A	ND (24)	ND (20)	ND (23)	ND (1.2)	ND (25)	ND (19)	ND (21)	**2.0 J**	**2.2 J**	**1.9 J**	**2.0 J**	ND (20)	**2.5 J**	**2.7 J**	**2.3 J**	ND (1.1)	ND (22)	ND (21)	**2.1 J**	ND (1.5)	ND (1.2)	ND (1.5)	ND (1.3)	**2.2 J**

Notes:

Duplicate sample collected from sample B-9 (0-2)
Dup-1 sample collected from sample B-20 (0-2)
Dup-2 sample collected from sample B-21 (10-11)
Bold Shading: Concentration exceeds laboratory detection limit.
Yellow Shading: Concentration exceeds MDNR LDTL
Orange Shading: Concentration exceeds EPA RSL value
Red Shading: Concentration exceeds MDNR RBTL
In instances where a concentration exceeds multiple regulatory values, the highest exceedence is shaded accordingly.

EPA: U.S. Environmental Protection Agency
LDTL: Lowest Default Target Level
MDNR: Missouri Department of Natural Resources
µg/kg: Micrograms per kilogram
mg/kg: Milligrams per kilogram
N/A: Not applicable
ND: Concentration does not exceed laboratory detection limits
NE: Not Established
RBTL: Risk-Based Target Level (non-residential scenario)
RSL: Regional Screening Levels