Robert Mancini
Project Manager, Downstream
Chevron Environmental Management Company
1200 State Street
Perth Amboy, NJ 08861
Tel: (732) 738-2023
Fax: (732) 738-2039
RMancini@Chevron.com

January 21, 2020

Ricky Vargas
Land and Redevelopment Program Branch
Land, Chemicals and Redevelopment Division
United States Environmental Protection Agency, Region 2
290 Broadway, 25th Floor
New York, New York 10007

Re: Justification for No Further Action for Lead and BaP in Soil: Main Yard
Former Chevron Perth Amboy Facility
Perth Amboy, New Jersey
SRP PI # 003621

Dear Mr. Vargas:

Enclosed please find the Justification for No Further Action (NFA) for lead and benzo(a)pyrene (BaP) in soil within the Main Yard. This NFA summarizes the areas in the Main Yard at the former Chevron Perth Amboy Facility where lead and BaP impacts in soil have not been previously addressed through remediation or administrative controls under the Corrective Measures Implemenation (CMI). This report presents Chevron request for a NFA determination for lead and BaP impacts in Area of Concern (AOC) 16A, Solid Waste Management Unit (SWMU) 51, and soil impacts identified after potential AOC (PAOC) Remedial Investigation Report (RIR) in PAOCs 46 and 73. Additionally, in accordance with the HSWA Permit, soil with BaP impacts at concentrations greater than 0.66 mg/kg and less than 10 mg/kg will be addressed with a Facility-wide deed notice.

If you require additional information regarding this work plan, please contact me at (732) 738-2023.

Sincerely,

Robert Mancini
Project Manager, Downstream

cc: Charlie Zielinski - NJDEP, Bureau of Case Management
Brendan Leehan, Buckeye Partners LLC

JUSTIFICATION FOR NO FURTHER ACTION FOR LEAD AND BaP IN SOIL

Main Yard

FORMER CHEVRON PERTH AMBOY FACILITY
PERTH AMBOY, NEW JERSEY

Prepared for:

Chevron Environmental Management Company
Perth Amboy, New Jersey 08861

Prepared by:

200 Cottontail Lane
Somerset, New Jersey 08873

JANUARY 2020
Project No. 452038.37600

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LIST OF ACRONYMS

Acronym	Definition / Description
AOC	Area of concern
BaP	Benzo(a)pyrene
bgs	Below ground surface
CAMU	Corrective Action Management Unit
CEA	Classification Exception Area
CM	Corrective measures
CMI	Corrective measures implementation
CMS	Corrective Measures Study
ESS	Ex situ stabilization
ETP	Effluent Treatment Plant
Facility	Former Chevron Perth Amboy Facility
HSWA	Hazardous and Solid Waste Amendments
ISCO	In-situ chemical oxidation
ISS	In-situ stabilization
LNAPL	Light non-aqueous phase liquid
µg/L	Microgram(s) per liter
mg/kg	Milligram(s) per kilogram
MNA	Monitored natural attenuation
NFA	No further action
NJDEP	New Jersey Department of Environmental Protection
NRDCSCC	Non-Residential Direct Contact Soil Cleanup Criteria
OWSS	Oily water sewer system
PAH	Polycyclic aromatic hydrocarbons
PAOC	Potential area of concern
PCOC	Potential constituent of concern
PID	Photo-ionization detector
RCRA	Resource Conservation Recovery Act
RDCSRS	Residential Direct Contact Soil Remediation Standard
RFI	RCRA Facility Investigation
RIR	Remedial investigation report
SVOC	Semi volatile organic compound
SWMU	Solid waste management unit
TAL	Target Analyte List
TCL	Target Compound List
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

1.0 INTRODUCTION

This justification for no further action (NFA) summarizes areas in the Main Yard at the Chevron Perth Amboy Facility (Facility) where lead and benzo(a)pyrene (BaP) impacts in soil have not been previously addressed through remediation or administrative controls under the Corrective Measures Implementation (CMI). These include Area of Concern (AOC) 16A and Solid Waste Management Unit (SWMU) 51. The Facility is located at 1200 State Street, Perth Amboy, New Jersey. The Main Yard is bounded by Spa Spring Creek to the north, Woodbridge Creek and Conrail right-of-way to the east, Maurer Road to the south, and North Jersey Coast Line right-of-way to the west.

Figures 1 and 2 show the soil boring locations in the Main Yard where samples were collected for lead and BaP analysis, respectively. Figures 1 and 2 also depict the locations of SWMUs, AOCs, and potential AOCs (PAOCs) within the Facility's Main Yard and areas where in-situ stabilization (ISS) and ex-situ stabilization (ESS) corrective measures (CMs) have been completed. Lead and BaP impacts within the ISS and ESS CM areas have been remediated and addressed per the Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Waste Amendments (HSWA) permit requirements for their respective SWMUs and AOCs.

Table 1 shows all soil sample results throughout the Main Yard with BaP impacts above the CMI action level of 10 milligrams per kilogram (mg/kg). Table 2 shows all soil sample results with lead impacts above the CMI action level of 800 mg/kg. Tables 1 and 2 also show the area that each impacted soil sample is associated with, the associated report, and the date the report was submitted to the United States Environmental Protection Agency (USEPA) and New Jersey Department of Environmental Protection (NJDEP).

As shown on Table 1, most of the BaP impacts in soil have been addressed by CMs in other SWMUs, AOCs, and PAOCs. Three soil samples with BaP concentrations above the CMI action level have not been addressed. These include one soil sample collected in soil boring S0837 associated with AOC 16A and two soil samples collected in soil borings S2576 and S2578 associated with SWMU 51. As shown on Table 2, lead was detected above the CMI action level in three soil samples collected in soil borings S4333, S4334, and S4337 within PAOC 46 and PAOC 73. These remaining impacts within the Main Yard are discussed below.

2.0 AOC 16A

AOC 16A consists of the Facility's underground Oily Water Sewer System (OWSS) in the Main Yard. Chevron received a RCRA HSWA Permit for the Facility on June 1, 1994. Following issue of the permit, Chevron performed a RCRA Facility Investigation (RFI) (Chevron 2003) and Corrective Measures Study (CMS) (Chevron 2008) to evaluate the environmental impacts throughout the Facility. Chevron received a RCRA HSWA Permit Renewal for the Facility from the USEPA with an effective date of September 3, 2013. The 2013 HSWA Permit Renewal identified the following CMs to be implemented in AOC 16A:

1. Excavation, ESS, and disposal in the Facility's Corrective Action Management Unit (CAMU) for BaP concentrations greater than 10 mg/kg in soil;
2. ISS for lead in soil and subsequent filing of a deed notice;
3. Containment consisting of a cap and subsequent filing a deed notice for arsenic concentrations greater than 20 mg/kg in surface soil;
4. In-situ chemical oxidation (ISCO) treatment for organic contaminants in soil and benzene concentrations greater than 100 microgram(s) per liter (µg/L) in groundwater, supplemented by enhanced bioremediation, if required; and
5. Monitored natural attenuation (MNA) and filing of a Classification Exception Area (CEA) for groundwater.

The lead and BaP impacts in soil within AOC 16A are addressed below. A NFA Report for Arsenic in Surface Soil: Main Yard was submitted to the USEPA and NJDEP on February 26, 2019 and included an NFA determination for arsenic in surface soil within AOC 16A. The NFA for arsenic in surface soil in the Main Yard was approved by the USEPA and NJDEP in a letter dated July 30, 2019. Benzene impacts in soil and groundwater within AOC 16A will be addressed during CMI in other SWMUs and AOCs throughout the Main Yard.

2.1 Summary of Investigations

AOC 16A consists of the OWSS that is located throughout the Facility's Main Yard, as shown on Figures 1 and 2. The OWSS conveys process water and stormwater runoff from tank basins and process areas to the Effluent Treatment Plant (ETP) located in the northern portion of the Main Yard. Three investigations have been completed to evaluate the Main Yard OWSS (AOC 16A): the 1st Phase OWSS investigation (Chevron 1997), the 2nd Phase OWSS investigation (Chevron 2002), and the Full RFI (Chevron 2003). The other SWMUs, AOCs, and PAOCs located within the Facility's Main Yard have also been investigated as part of the ongoing environmental investigations at the Facility. The location of soil borings advanced as part of the AOC 16A investigations are shown on Figure 1.

2.1.1 1st Phase OWSS Investigation

The 1st Phase OWSS investigation, completed in 1996 and 1997, focused on the western portion of the Main Yard. Fourteen soil borings (SB-0252 through SB-0257, SB-0264, SB-0265, SB-0267 through SB-0269, SB-0277 through SB-0279) were advanced, and

samples were collected for Skinner's List analyses for volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), and metals (Tables 3 through 5). Soil samples were collected based on visual observation of environmental impacts (such as staining, discoloration, or elevated photoionization detector [PID] readings) and the depth interval corresponding to the depth of the OWSS lines. BaP was detected above the Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) of 0.66 mg/kg, but below the CMI action level of 10 mg/kg in only one soil sample collected from boring SB-0267 at 2 to 4 feet below ground surface (bgs) (Table 2). BaP results for the remaining soil samples were below the NRDCSCC. Lead was detected below the CMI action level and NRDCSCC of 800 mg/kg.

2.1.2 2nd Phase OWSS Investigation

In 1999, five soil borings (S0490 through S0494) were advanced as part of the 2nd Phase OWSS investigation. Soil samples were collected for Skinner's List analyses for VOCs, SVOCs, and metals (Tables 3 through 5). BaP was detected above the NRDCSCC of 0.66 mg/kg, but below the CMI action level of 10 mg/kg in two soil samples collected from boring S0491 and S0492 at 2.5 to 3 feet bgs (Table 4). BaP results for the remaining soil samples were below the NRDCSCC. Lead was detected below the CMI action level.

2.1.3 Full RFI

In 2002, one soil boring (S0844) was advanced in AOC 16A as part of the Full RFI. Three soil samples were collected from this boring for Target Compound List (TCL) VOCs, SVOCs, and Target Analyte List (TAL) metals. BaP and lead were detected below their respective CMI action levels in these soil samples (Table 4 and 5). Multiple other soil borings were advanced in 2002 as part of the Full RFI to investigate other SWMUs and AOCs throughout the Main Yard. Soil boring S0837 was advanced as part of the AOC 19 investigation; however, during the CMS it was identified as part AOC 16A. Soil samples were collected from soil boring S0837 at 1.5 to 2, 5.5 to 6, and 13.5 to 14 feet bgs and analyzed for TCL VOC, TCL SVOCs, and TAL metals. BaP was detected above the CMI action level at 5.5 to 6 feet bgs. As shown on Table 1, this BaP impact in soil boring S0837 has not been addressed as part of a CMI in another SWMU, AOC, or PAOC and will be addressed as part of AOC 16A.

2.1.4 Other Investigations

Since the completion of the Full RFI in 2003, several other investigations were performed throughout the Facility's Main Yard to evaluate identified soil impacts within the various SWMUs, AOCs, and PAOCs. Soil samples collected during these investigations were analyzed for VOCs, SVOCs, and metals. Most of the soil impacts identified throughout the Main Yard are not associated with AOC 16A and have or will be addressed under another SWMU, AOC, or PAOC. Tables 1 and 2 show all soil sample results throughout the Main Yard with, respectively, BaP and lead impacts above the CMI action level.

2.2 AOC 16A Discussion

As shown on Table 1, BaP detected above the CMI action level in soil boring S0837, which is associated with AOC 16A, has not been addressed by implementation of CMs in another AOC, SWMU, or PAOC. Figure 3 shows the soil borings advanced around soil boring S0837 in AOC 16A and the BaP analytical results. Soil sample results for VOCs, SVOCs, and metals for all soil borings shown on Figure 3 are included on Tables 3 through 5. Soil boring logs are provided in Appendix A.

As shown on Figure 3, BaP was detected above the CMI action level of 10 mg/kg in soil boring S0837 at 5.5 to 6 feet bgs. Soil boring S5742 was advanced adjacent to historical soil boring S0837. Soil samples were collected for BaP analysis from 5.0 to 5.5, 5.5 to 6.0, and 6.0 to 6.5 feet bgs. BaP was detected below the NRDCSCC of 0.66 mg/kg and the CMI action level of 10 mg/kg in all three samples. Additional soil borings were advanced around soil boring S0837, and soil samples were collected at various depths based on visual observations (petroleum staining) and the highest PID field screening results. Results showed BaP was not detected above the CMI action level in any of these samples. Although the CMS recommended ESS to address the historical BaP exceedance at soil boring S0837, the recent results demonstrate that BaP is not present in soil above the CMI action level at or around the historical soil boring. The ESS CM is therefore not warranted.

3.0 SWMU 51

SWMU 51 is identified as the Oily Soil Pad. SWMU 51 was constructed in 1990 and consists of an asphalt containment pad underlain by a polyethylene liner. The containment pad is equipped with a valve-accesses catch basin for the collection and control of stormwater. The pad was used for temporary staging of non-hazardous soil excavated during on-site spill responses and oily soil that was encountered during on-site construction and demolition activities. The containment pad in SWMU 51 was not used to manage hazardous wastes. According to Facility spill records, no documented releases have been reported from this unit. According to the 2013 HSWA Permit Renewal, NFA has been granted for groundwater in SWMU 51; however, further evaluation of soil was needed.

3.1 Summary of Investigations

Six soil borings (S2573 through S2578) were advanced in 2007 as part of the SWMU 51 investigation within and around the oily soil containment pad. Two soil samples were collected from each soil boring at depths ranging between 2 and 5 feet bgs and analyzed for TCL VOCs, TCL SVOCs, and TAL metals. Analytical results are summarized in Tables 3 through 5. BaP-impacted soil was detected above the CMI action level of 10 mg/kg in soil borings S2576 at 3.5 to 4 feet bgs and S2578 at 4.5 to 5.0 feet bgs. Borings S2576 and S2578 are located, respectively, north and west of the oily soil containment pad. In 2012, soil borings S2900 and S2899 were advanced adjacent to soil borings S2576 and S2578, respectively, to investigate data gaps in the 0 to 2 feet bgs interval (Figure 4). Soil samples were collected at each boring from 1.5 to 2 feet bgs for BaP analysis. BaP was not detected in either sample at concentrations above the CMI action level of 10 mg/kg or the NRDCSCC of 0.66 mg/kg.

3.2 SWMU 51 Discussion

During historical investigations performed in 2007, BaP-impacted soil was identified in soil borings S2576 and S2578 at depths of 3.5 to 4.0 and 4.5 to 5.0 feet bgs, respectively. Surface soil samples collected from soil borings S2900 and S2899, advanced adjacent to S2576 and S2578, show BaP was not detected in surface soil at concentrations above the CMI action level or the NRDCSCC.

The oily soil containment pad in SWMU 51 was constructed in 1990 and was used to stage nonhazardous and oily soil generated from construction and spill response performed at the Facility. The containment pad is an above-ground structure consisting of an asphalt pad underlain by a polyethylene liner. It is surrounded by berms and has a valve system to collect stormwater runoff. It operated as temporary storage for excavated soil for waste characterization prior to off-site disposal. Given the use of the containment pad, impacts associated with the operation of the unit would likely be inadvertent surface discharges associated with the placement of oily soil on the asphalt pad or from stormwater runoff. As discussed above, soil investigations performed in SWMU 51 did not identify impacts from potential constituents of concern (PCOCs) in surface soil. Sampling results show the only PCOC identified in SWMU 51 soil was BaP impacting subsurface soils. Since BaP

impacts were not identified in surface soil in SWMU 51, the BaP impacts identified in subsurface soil are not attributed to the operation of the oily soil containment pad.

Soil in SWMU 51 consists of fill material overlying red to brownish red native clay/silt layer. Information presented on soil boring logs was used to determine that fill material across SWMU 51 ranges from approximately 5 to 7 feet thick. The fill material is described as brown fine to coarse sand with some silt and gravel, with varying amounts of brick fragments. Some boring logs also noted the presence of fly ash, coal, and wood in the fill material. Review of SWMU 51 boring logs did not reveal the presence of catalyst beads, sludge, or layers of asphalt or tar that would typically be associated with refinery-derived wastes. The description of fill material encountered in SWMU 51 is consistent with the NJDEP description and definition of historic fill material (NJDEP 2013).

PAOC 86 is located directly south of SWMU 51. The PAOC Remedial Investigation Report (RIR) (Chevron 2014) characterized the fill material in PAOC 86 as historic fill material. The 2014 PAOC RIR concluded that the presence of polycyclic aromatic hydrocarbons (PAHs) and metals in PAOC 86 soil are associated with historic fill material and no further soil investigation is warranted. In the NJDEP July 2014 Soil comments on Chevron's PAOC RIR (NJDEP 2014), NJDEP concurred with the no further soil investigation proposal.

Since BaP was not identified in surficial soil and there are no documented releases associated with the operation of the oily soil containment pad, no further investigation is proposed for BaP impacts in SWMU 51 soil. Based on the description of the fill material present in SWMU 51, the BaP impacts identified in subsurface soil (i.e., below 2 feet bgs) are attributed to historic fill material and are not associated with the operation of the oily soil containment pad. The BaP impacts in SWMU 51 subsurface soil will be addressed with a Facility-wide deed notice that will be submitted to NJDEP along with all other contaminants present in soil above the Residential Direct Contact Soil Remediation Standard (RDCSRS).

4.0 PAOCs 46 AND 73

Lead was detected above the CMI action level in three soil borings (S4333, S4334, and S4337) between 0.5 and 1.5 feet bgs. The borings were sampled as part of the NF3 light non-aqueous phase liquid (LNAPL) investigation in 2015. As shown on Figure 5, these borings were advanced within PAOCs 46 and 73 but after the PAOC RIR (Chevron 2014). As stated in the PAOC RIR and shown on Tables 2 and 5, lead was detected above the NRDCSCC of 800 mg/kg in soil borings S2726 at 1 to 1.5 feet bgs and S2905 at 1.5 to 2 feet bgs. The soil impacts in PAOCs 46 and 73 were attributed to historic fill. NJDEP approved no further soil investigation in PAOCs 46 and 73 in its approval of Chevron's response to comments on the PAOC RIR (NJDEP 2014, 2016). The historic fill material in PAOCs 46 and 73 will be included in the new NJDEP AOC for Site-Wide Historic Fill Material – Soils.

PAOC 73 is located within Tank Basin 330, and PAOC 46 is located south of PAOC 73 within Tank Basin 75 D-1. The stratigraphy in PAOCs 46 and 73 was compared to soil identified within soil borings S4333, S4334, and S4337. As stated in the PAOC RIR, fill material extends to 8 feet bgs in PAOCs 46 and 73 and is underlain by a gray, organic rich clay layer. Multiple soil borings within PAOCs 46 and 73 also note a dark brown peat layer between 7 and 8 feet bgs. The fill consists of brown, poorly sorted sand with gravel from approximately 0 to 4 feet bgs, and black, poorly sorted sand or gray silt with gravel from approximately 4 to 8 feet bgs. Soil boring logs for boring S4333, S4334, and S4337 also note brown poorly sorted sand with gravel and silt from 0 to between 5.5 and 7 feet bgs. The layer underlying the fill was described as dark brown peat. Although lead was detected above the CMI action level in soil borings S4333, S4334, and S4337 during the NF3 LNAPL investigation, information presented in the PAOC RIR and soil boring logs show that the stratigraphy identified in soil borings S4333, S4334, and S4337 is consistent with PAOCs 46 and 73 subsurface stratigraphy and is therefore associated with historical fill. These impacts will be included in the new NJDEP AOC for Site-Wide Fill Materials – Soils and addressed on a site-wide basis.

5.0 SUMMARY

The 2013 HSWA Permit Renewal identified AOC 16A as requiring ESS and disposal in the Facility's CAMU for BaP concentrations greater than 10 mg/kg and ISS for lead concentrations greater than 800 mg/kg throughout the Facility's Main Yard. BaP was detected at concentrations above the CMI action level (10 mg/kg) in 68 soil samples throughout the Main Yard. As shown on Table 1, most of these BaP impacts have been addressed by CMs in other SWMUs, AOCs, and PAOCs. One soil sample collected from soil boring S0837 had BaP concentrations above the CMI level and is associated with AOC 16A. Since soil samples collected adjacent to and around soil boring S0837 did not confirm BaP impacts in soil, the ESS CM is not warranted. BaP concentrations in two subsurface soil samples collected from soil borings S2576 and S2578 in SWMU 51 were detected above the CMI action level. The surficial soil in SWMU 51 has not been impacted, there have been no releases from the oily pad, and the soil is consistent with the description of historical fill material as defined by NJDEP.

Lead was detected at concentrations above the CMI action level (800 mg/kg) in 294 soil samples throughout the Main Yard. As shown on Table 2, most of these lead impacts have been addressed by CMs conducted in other SWMUs, AOCs, and PAOCs. In June 2015, three soil samples collected in soil borings S4333, S4334, and S4337 in PAOCs 46 and 73 had lead concentrations above the CMI action level. However, these samples were collected after the PAOC RIR was submitted in May 2014. NJDEP approved no further soil investigation in PAOCs 46 and PAOC 73 in its approval of Chevron's response to comments on the PAOC RIR. The soil impacts and the subsurface stratigraphy within PAOCs 46 and 73 is consistent with the impacts and soil described in boring logs for S4333, S4334, and S4337. These impacts are therefore associated with historical fill in PAOC 46/73. These impacts will be included in the Site-Wide Fill Materials – Soils AOC and addressed on a site-wide basis. This new ISRA[1] AOC will be addressed in a single Remedial Action Work Plan for remediation (e.g., institutional and engineering controls) to mitigate risk and to seek a Response Action Outcome for the entire Facility after the Facility CMI is complete.

Since the BaP soil impact in S0837 could not be confirmed and the BaP and lead soil impacts in SWMU 51 and PAOCs 46 and 73 will be addressed as part of the new Site-Wide Fill Materials – Soils AOC, remediation of BaP and lead in soil within these soil borings is not warranted. Chevron therefore requests review and approval by USEPA and NJDEP of this request for an NFA determination for BaP and lead in AOC 16A and SWMU 51 and the soil impacts identified after the PAOC RIR in PAOCs 46 and 73. In accordance with the HSWA Permit, BaP impacts at concentrations greater than 0.66 mg/kg and less than 10 mg/kg will be addressed with a Facility-wide deed notice.

[1] ISRA – Industrial Site Recovery Act

6.0 REFERENCES

Chevron. 1997. 1st Phase OWSS Report. September.

Chevron. 2002. 2nd Phase OWSS Report. March.

Chevron. 2003. Full RCRA Facility Investigation (RFI) Report, November.

Chevron. 2008. Corrective Measures Study Report for the Main Yard, East Yard and Central Yard. Prepared by URS Corporation. November.

Chevron. 2014. Potential Areas of Concern Remedial Investigation Report. May.

NJDEP. 2013. NJDEP Historic Fill Material Technical Guidance.

NJDEP. 2014. NJDEP 7-15-14 Soil Comments on Chevron's PAOC RIR, May 2014.

NJDEP. 2016. NJDEP Approval Letter of Chevron's April 4, 2016 PAOC RIR, Response to NJDEP February 24, 2016 Comments. May.

TABLES

Table 1
BaP Results in Soil Within Main Yard
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility
Perth Amboy, New Jersey

Soil Boring	Field Sample ID	Sample Depth (feet bgs)	BaP Result (mg/kg)	Area	Report	Addressed by
S0774	S0774E3	9 - 9.5	40	SWMU 19	ESS IWP SWMU 19 - October 2016 ESS CCR SWMU 19 - December 2019	ESS CM
S0806	S0806E2	8.5 - 9	12.7	SWMU 40	ESS IWP SWMU 40 - November 2015 ESS CCR SWMU 40 - November 2017	ESS CM
S0837	S0837C4	5.5 - 6	27	AOC 16A	Justification for NFA Main Yard - January 2020	Propsoed NFA
S1001	S1001C4	5.5 - 6	13	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ESS CM
S2079	S2079I4	17.5 - 18	12	SWMU 43	CM IWP SWMU 5/21/43 - September 2018	Cover System
S2136	S2136D1	6 - 6.5	31	SWMU 19	ESS IWP SWMU 19 - October 2016 ESS CCR SWMU 19 - December 2019	ESS CM
	S2136D3	7 - 7.5	70			
	S2136G1	12 - 12.5	38			
S2193	S2193F3	11 - 11.5	22	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ESS CM
S2229	S2229G2	12.5 - 13	22	SWMU 43	CM IWP SWMU 5/21/43 - September 2018	Cover System
S2235	S2235D2	6.5 - 7	12			
S2239	S2239H1	14 - 14.5	13			
S2240	S2240I1	16 - 16.5	20			
S2241	S2241G4	13.5 - 14	25			
S2242	S2242H1	14 - 14.5	14			
S2243	S2243H2	14.5 - 15	61			
S2246	S2246E3	9 - 9.5	19J			
S2247	S2247I1	16 - 16.5	24			
S2256	S2256F4	11.5 - 12	45			
S2259	S2259H2	14.5 - 15	28			
S2576	S2576B4	3.5 - 4	22	SWMU 51	Justification for NFA Main Yard - January 2020	Propsoed NFA
S2578	S2578C2	4.5 - 5	80	SWMU 51		
S2588	S2588E1	8 - 8.5	12J	PAOC 43	PAOC RIR - May 2014 Chevron Response to NJDEP Comments - April 2016	RAO
S2594	S2594B3	3 - 3.5	48	PAOC 42		RAO - Historical Fill
S2614	S2614E4	9 - 9.5	180	PAOC 44		RAO - Historical Fill
S2686	S2686B2	2.5 - 3	33	PAOC 7		RAO - Historical Fill
S3810	S3810D4	7.5 - 8	12	PAOC 84		RAO - Historical Fill
S3811	S3811F2	10.5 - 11	770	PAOC 84		RAO - Historical Fill
S4240	S4240D1	6 - 6.5	130	SWMU 40	ESS IWP SWMU 40 - November 2015 ESS CCR SWMU 40 - November 2017	ESS CM
S4458	S4458G2	12.5 - 13	15			
S4746	S4746R1C4	5.5 - 6	12	SWMU 38	ESS IWP SWMU 30/38 - September 2015 ESS CCR SWMU 30/38 - June 2017	ESS CM
S5114	S5114B2	2.5 - 3	14	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ESS CM
	S5114C2	4.5 - 5	26			
	S5114D2	6.5 - 7	25			
	S5114F3	11 - 11.5	18			
S5115	S5115D2	6.5 - 7	18			
S5118	S5118D4	7.5 - 8	19			
	S5118E3	9 - 9.5	18			
S5120	S5120E2	8.5 - 9	14			
S5143	S5143F3	11 - 11.5	13	AOC 5/SWMU 39	ISS/ESS IWP AOC 5/SWMU 39 - September 2016 ISS/ESS CCR AOC 5/SWMU 39 - November 2019	ESS CM
S5144	S5144G1	12 - 12.5	12			
S5149	S5149H1	14 - 14.5	16			
	S5149I2	16.5 - 17	12			
S5177	S5177D4	7.5 - 8	20	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ESS CM
	S5177E2	8.5 - 9	19			
S5179	S5179E2	8.5 - 9	12			
	S5179F2	10.5 - 11	13			
S5187	S5187G2	12.5 - 13	41	SWMU 19	ESS IWP SWMU 19 - October 2016 ESS CCR SWMU 19 - December 2019	ESS CM
	S5187G3	13 - 13.5	11			
S5189	S5189C3	5 - 5.5	11			
	S5189D1	6 - 6.5	21			
S5190	S5190C3	5 - 5.5	47			
	S5190D1	6 - 6.5	70			
	S5190D2	6.5 - 7	25			
S5195	S5195D2	6.5 - 7	50			
S5198	S5198D3	7 - 7.5	12			
	S5198F4	11.5 - 12	13			
S5199	S5199G1	12 - 12.5	83	AOC 5/SWMU 39	ISS/ESS IWP AOC 5/SWMU 39 - September 2016 ISS/ESS CCR AOC 5/SWMU 39 - November 2019	ESS CM
	S5199H1	14 - 14.5	15			
S5200	S5200H1	14 - 14.5	54			
S5201	S5201I2	16.5 - 17	12			
S5204	S5204G3	13 - 13.5	20			
S5238R1	S5238R1I2	16.5 - 17	12			
S5260	S5260I3	17 - 17.5	11			
S5663	S5663E3	9 - 9.5	12	SWMU 43	CM IWP SWMU 5/21/43 - September 2018	Cover System
S5664	S5664G1	12 - 12.5	85			
SB-0127	SB-0121S-C	4 - 6	18	SWMU 38	ESS IWP SWMU 30/38 - September 2015 ESS CCR SWMU 30/38 - June 2017	ESS CM
SB-0208	SB-0208S-D	6 - 8	71	SWMU 19	ESS IWP SWMU 19 - October 2016 ESS CCR SWMU 19 - December 2019	ESS CM

Table 2
Lead Results in Soil Within Main Yard
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility
Perth Amboy, New Jersey

Soil Boring	Field Sample ID	Sample Depth (feet bgs)	Lead Result (mg/kg)	Area	Report	Addressed by
SB-0034	SB-0034S-C	4 - 6	8340	SWMU 6	ISS/ESS IWP SWMU 6 - August 2015 ISS/ESS CCR SWMU 6 - September 2017	ESS CM
SB-0040	SB-0040S-B	2 - 4	3030	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
SB-0050	SB-0050S-A	0 - 2	3880	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ISS CM
S0754	S0754B3	3 - 3.5	2210	AOC 33	ISS IWP AOC 33 - November 2015 ISS CCR AOC 33 - June 2017	ISS CM
S0768	S0768B4	3.5 - 4	2160	SWMU 17	CM IWP SWMU 17 - February 2019	ESS CM
S0794	S0794A2	0.5 - 1	5970	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
	S0794B1	2 - 2.5	6020			
S0795	S0795A2	0.5 - 1	981	SWMU 17	CM IWP SWMU 17 - February 2019	ESS CM
	S0795B3	3 - 3.5	5090	AOC 23	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S0796	S0796B4	3.5 - 4	8450			
S0808	S0808B1	2 - 2.5	1640	SWMU 7	ISS/ESS IWP SWMU 7 - April 2016 ISS/ESS CCR SWMU 7 - April 2018	ISS CM
S0878	S0878C3	5 - 5.5	2320	AOC 41	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S0954	S0954G2	12.5 - 13	1330	PAOC 76	PAOC RIR - May 2014 Chevron Response to NJDEP Comments - April 2016	RAO - Historical Fill
S1002	S1002B4	3.5 - 4	2170	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ISS CM
S1005	S1005E2	8.5 - 9	903	AOC 5/SWMU 39	ISS/ESS IWP AOC 5/SWMU 39 - September 2016 ISS/ESS CCR AOC 5/SWMU 39 - November 2019	ISS CM
S1006	S1006A4	1.5 - 2	1260	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
	S1006B4	3.5 - 4	1780			
S1007	S1007A3	1 - 1.5	4430			
S1008	S1008A4	1.5 - 2	2580			
	S1008B3	3 - 3.5	1560			
S1014	S1014B3	3 - 3.5	1110	SWMU 18	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S1016	S1016B4	3.5 - 4	5060			
S1381	S1381D1	6 - 6.5	1880	SWMU 31/41	Justification for NFA SWMU 31/41 - September 2016	NFA
S1842	040503S-3	4 - 4.5	7630	AOC 50 South	CM IWP AOC 50 South - April 2017	ESS CM
	040503S-3A	6 - 6.5	1380			
S1942	S1942	4 - 5	1170	AOC 50 North	CM IWP AOC 50 North - November 2018	ESS CM
S2128	S2128C2	4.5 - 5	1910	SWMU 18	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S2140	S2140C3	5 - 5.5	3520	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S2142	S2142B4	3.5 - 4	6250			
S2143	S2143B1	2 - 2.5	4680			
S2182	S2182A1	0 - 0.5	2150	SWMU 6	ISS/ESS IWP SWMU 6 - August 2015 ISS/ESS CCR SWMU 6 - September 2017	ISS CM
S2194	S2194A3	1 - 1.5	1100	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ISS CM
S2197	S2197B4	3.5 - 4	20500	AOC 50 South	CM IWP AOC 50 South - April 2017	Capping
	S2197B4	3.5 - 4	3350			
	S2197RB2	2.5 - 3	8430			
	S2197RB2	2.5 - 3	1560			
S2198	S2198B4	3.5 - 4	1560	SWMU 17	CM IWP SWMU 17 - February 2019	ESS CM
S2209	S2209B1	2 - 2.5	866	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ISS CM
S2210	S2210A2	0.5 - 1	1890	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S2212	S2212D1	6 - 6.5	1070			
S2240	S2240I1	16 - 16.5	1850	SWMU 43	CM IWP SWMU 5/21/43 - September 2018	ISS CM
S2246	S2246E3	9 - 9.5	1310			
S2249	S2249RG2	12.5 - 13	3190			
S2250	S2250D4	7.5 - 8	843			
S2256	S2256F4	11.5 - 12	1240			
S2257	S2257F4	11.5 - 12	941			
S2258	S2258H1	14 - 14.5	2060			
S2436	S2436E2	8.5 - 9	2100	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S2441	S2441C1	4 - 4.5	2150			
S2450	S2450A4	1.5 - 2	1940			
S2466	S2466G2	12.5 - 13	3010	SWMU 43	CM IWP SWMU 5/21/43 - September 2018	ISS CM
S2554	S2554B1	2 - 2.5	15600	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S2661	S2661A2	0.5 - 1	5590			
S2662	S2662A4	1.5 - 2	1320			
S2663	S2663A3	1 - 1.5	20500			
S2665	S2665B1	2 - 2.5	1930			
S2669	S2669A1	0 - 0.5	1460			
S2670	S2670A1	0 - 0.5	1400			
S2671	S2671A1	0 - 0.5	3210			
	S2671A2	0.5 - 1	2640			
S2672	S2672A3	1 - 1.5	1640			
S2673	S2673A1	0 - 0.5	1420			

Table 2
Lead Results in Soil Within Main Yard
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Former Chevron Perth Amboy Facility
Perth Amboy, New Jersey

Soil Boring	Field Sample ID	Sample Depth (feet bgs)	Lead Result (mg/kg)	Area	Report	Addressed by
S2686	S2686B2	2.5 - 3	1020	PAOC 7	PAOC RIR - May 2014 Chevron Response to NJDEP Comments - April 2016	RAO - Historical Fill
S2704	S2704A2	0.5 - 1	1140	AOC 41	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S2726	S2726A3	1 - 1.5	1410	PAOC 46	PAOC RIR - May 2014 Chevron Response to NJDEP Comments - April 2016	RAO - Historical Fill
S2843	S2843B3	3 - 3.5	826	PAOC 77		RAO - Historical Fill
S2846	S2846A3	1 - 1.5	14100	PAOC 80		RAO - Historical Fill
	S2846G1	12 - 12.5	28000			
S2861	S2861B4	3.5 - 4	1330	PAOC 92		RAO - Historical Fill
S2874	S2874A1	0 - 0.5	1000	PAOC 21		RAO - Historical Fill
S2883	S2883B2	2.5 - 3	1610	PAOC 77		RAO - Historical Fill
S2905	S2905A4	1.5 - 2	889	PAOC 46		RAO - Historical Fill
S2980	S2980A2	0.5 - 1	10100	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S2987	S2987A2	0.5 - 1	11300			
S2988	S2988A1	0 - 0.5	1430			
	S2988B1	2 - 2.5	945			
S2989	S2989A2	0.5 - 1	972			
S2991	S2991A3	1 - 1.5	2090			
S2992	S2992A4	1.5 - 2	1620			
S2993	S2993A1	0 - 0.5	9890			
S2995	S2995A1	0 - 0.5	1370			
	S2995B1	2 - 2.5	1470			
S2996	S2996A2	0.5 - 1	8280			
S2998	S2998A2	0.5 - 1	2960			
S2998	S2998B2	2.5 - 3	1540			
S3310	S3310C3	5 - 5.5	5860	AOC 50 South	CM IWP AOC 50 South - April 2017	ESS CM
	S3310RB2	2.5 - 3	6390			
S3311	S3311C1	4 - 4.5	59000	AOC 50 South	CM IWP AOC 50 South - April 2017	Capping
	S3311E1	8 - 8.5	1210			
S3311R	S3311RC1	4 - 4.5	12000			
S3311R3	S3311R3C1	4 - 4.5	7780			
S3312R	S3312RC2	4.5 - 5	11700			
S3312R2	S3312R2C2	4.5 - 5	12200			
S3312R2	S3312R2D2	6.5 - 7	4300			
S3313	S3313B4	3.5 - 4	6880	AOC 50 South	CM IWP AOC 50 South - April 2017	ESS CM
S3313R	S3313RB2	2.5 - 3	6520			
S3313R2	S3313R2B4	3.5 - 4	2570			
S3314R	S3314RB2	2.5 - 3	4160			
S3315	S3315B1	2 - 2.5	866	AOC 50 South	CM IWP AOC 50 South - April 2017	Capping
S3315R	S3315RC2	4.5 - 5	951			
S3318	S3318B3	3 - 3.5	802	AOC 50 North	CM IWP AOC 50 North - November 2018	ESS CM
S3320	S3320C2	4.5 - 5	45500			
S3321R	S3321RB2	2.5 - 3	3630	AOC 50 South	CM IWP AOC 50 South - April 2017	Capping
S3322	S3322B2	2.5 - 3	5310			
	S3322C3	5 - 5.5	8410			
S3322R2	S3322R2B2	2.5 - 3	2030			
S3474	S3474A4	1.5 - 2	4060	AOC 50 North	CM IWP AOC 50 North - November 2018	ESS CM
	S3474B2	2.5 - 3	2740			
S3475	S3475B1	2 - 2.5	817			
S3476	S3476A1	0 - 0.5	813			
S3477	S3477B4	3.5 - 4	2020			
	S3477C4	5.5 - 6	3540			
S3483	S3483C2	4.5 - 5	86200			
	S3483E1	8 - 8.5	2960			
S3485	S3485C1	4 - 4.5	39500			
	S3485G2	12.5 - 13	1490			
S3486	S3486B4	3.5 - 4	82200			
S3488	S3488C1	4 - 4.5	10700	AOC 50 South	CM IWP AOC 50 South - April 2017	Capping
S3488R	S3488RB3	3 - 3.5	5450			
S3488R3	S3488R3C2	4.5 - 5	7860			
S3489	S3489C1	4 - 4.5	7980			
S3489R	S3489RC1	4 - 4.5	1420			
S3489R2	S3489R2B4	3.5 - 4	2290			
S3491	S3491B3	3 - 3.5	10700			
S3491R	S3491RB1	2 - 2.5	4470			
S3494	S3494B2	2.5 - 3	26700	AOC 50 North	CM IWP AOC 50 North - November 2018	ESS CM
S3495R3	S3495R3A4	1.5 - 2	860			
S3495R3	S3495R3B2	2.5 - 3	5810			
S3495R3	S3495R3C2	4.5 - 5	993			
S3496	S3496A4	1.5 - 2	142000			
S3497	S3497A3	1 - 1.5	66000			
S3498	S3498B3	3 - 3.5	910	AOC 50 South	CM IWP AOC 50 South - April 2017	Capping
S3501	S3501C4	5.5 - 6	3290			

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Former Chevron Perth Amboy Facility
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Soil Boring	Field Sample ID	Sample Depth (feet bgs)	Lead Result (mg/kg)	Area	Report	Addressed by
S3506	S3506A3	1 - 1.5	86500	AOC 50 North	CM IWP AOC 50 North - November 2018	ESS CM
	S3506C1	4 - 4.5	5650			
S3507	S3507B2	2.5 - 3	48600	AOC 50 South	CM IWP AOC 50 South - April 2017	Capping
S3509	S3509C1	4 - 4.5	1560			
S3514	S3514B4	3.5 - 4	1660			
	S3514D1	6 - 6.5	2110			
S3514R1	S3514R1B3	3 - 3.5	22000			
S3519	S3519A4	1.5 - 2	21300	AOC 50 North	CM IWP AOC 50 North - November 2018	ESS CM
S3525	S3525A4	1.5 - 2	2190			
S3526	S3526A4	1.5 - 2	1820			
S3527	S3527A1	0 - 0.5	844			
S3529	S3529B1	2 - 2.5	1040			
S3530	S3530A4	1.5 - 2	4740			
S3534	S3534A3	1 - 1.5	107000			
	S3534D1	6 - 6.5	2600			
	S3534E4	9.5 - 10	14800			
S3535	S3535A4	1.5 - 2	52800			
S3536	S3536B3	3 - 3.5	67300	AOC 50 South	CM IWP AOC 50 South - April 2017	Capping
	S3536C3	5 - 5.5	2270			
S3537	S3537B3	3 - 3.5	2590			
	S3537C3	5 - 5.5	2430			
S3541	S3541C2	4.5 - 5	4850			
S3713	S3713B1	2 - 2.5	819			
	S3713C1	4 - 4.5	1960			
S3761	S3761C3	5 - 5.5	15800	PAOC 77	PAOC RIR - May 2014 Chevron Response to NJDEP Comments - April 2016	RAO - Historical Fill
	S3761D1	6 - 6.5	951			
S3879	S3879A2	0.5 - 1	2200	PAOC 6	ESS IWP PAOC 6 - December 2016	ESS CM
S4102	S4102A2	0.5 - 1	1100	AOC 33	ISS IWP AOC 33 - November 2015 ISS CCR AOC 33 - June 2017	ISS CM
S4103	S4103A1	0 - 0.5	6420			
S4107	S4107B1	2 - 2.5	855			
S4111	S4111A1	0 - 0.5	9480			
S4222	S4222B3	3 - 3.5	998	SWMU 7	ISS/ESS IWP SWMU 7 - April 2016 ISS/ESS CCR SWMU 7 - April 2018	ISS CM
S4225	S4225D2	6.5 - 7	1100			
S4265	S4265E1	8 - 8.5	1250	SWMU 40	ESS IWP Addendum SWMU 40 - December 2015 ESS CCR SWMU 40 - November 2017	ESS CM
S4333	S4333A3	1 - 1.5	1320	PAOC 73/NF3	Justification for NFA Main Yard - January 2020	Propsoed NFA
S4334	S4334A3	1 - 1.5	2740			
S4337	S4337A2	0.5 - 1	1050	PAOC 46/NF3	Justification for NFA Main Yard - January 2020	Propsoed NFA
S4361	S4361D3	7 - 7.5	2120	SWMU 40	ESS IWP Addendum SWMU 40 - December 2015 ESS CCR SWMU 40 - November 2017	ESS CM
S4404	S4404A1	0 - 0.5	1500	SWMU 6	ISS/ESS IWP SWMU 6 - August 2015 ISS/ESS CCR SWMU 6 - September 2017	ESS CM
S4408	S4408A1	0 - 0.5	20900	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S4409	S4409A1	0 - 0.5	1460			
S4410	S4410R1C1	4 - 4.5	1170			
S4411	S4411A1	0 - 0.5	41000			
S4412	S4412D4	7.5 - 8	802			
S4413	S4413D3	7 - 7.5	2530	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ISS CM
S4414	S4414R1D2	6.5 - 7	955	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S4415	S4415C4	5.5 - 6	1630	SWMU 7	ISS/ESS IWP SWMU 7 - April 2016 ISS/ESS CCR SWMU 7 - April 2018	ISS CM
S4421	S4421D1	6 - 6.5	1700			
S4425	S4425C4	5.5 - 6	989			
S4425	S4425D3	7 - 7.5	3070			
S4431	S4431A1	0 - 0.5	1300	SWMU 18	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S4431	S4431B1	2 - 2.5	1140			
S4432	S4432A3	1 - 1.5	1130			
S4433	S4433A4	1.5 - 2	964			
S4435	S4435B2	2.5 - 3	1050	SWMU 7	ISS/ESS IWP SWMU 7 - April 2016 ISS/ESS CCR SWMU 7 - April 2018	ISS CM
S4440	S4440A3	1 - 1.5	1860	SWMU 18	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S4443	S4443C3	5 - 5.5	14800			
S4445	S4445R1B4	3.5 - 4	1770			
S4447	S4447B1	2 - 2.5	982			
	S4447C1	4 - 4.5	25800			
S4448	S4448D1	6 - 6.5	1990	SWMU 7	ISS/ESS IWP SWMU 7 - April 2016 ISS/ESS CCR SWMU 7 - April 2018	ISS CM
S4455	S4455R1B4	3.5 - 4	2100	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S4502	S4502D2	6.5 - 7	1300			
S4505	S4505D3	7 - 7.5	1050			
S4510	S4510A1	0 - 0.5	12000	AOC 23	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
	S4510A2	0.5 - 1	804			
S4514	S4514A1	0 - 0.5	849			
S4515	S4515A2	0.5 - 1	1520			

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Soil Boring	Field Sample ID	Sample Depth (feet bgs)	Lead Result (mg/kg)	Area	Report	Addressed by
S4519	S4519B1	2 - 2.5	13900	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S4521	S4521B1	2 - 2.5	1410	AOC 23	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S4522	S4522B4	3.5 - 4	1050			
S4527	S4527B3	3 - 3.5	2890	SWMU 18	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S4530	S4530A4	1.5 - 2	995	SWMU 6	ISS/ESS IWP SWMU 6 - August 2015 ISS/ESS CCR SWMU 6 - September 2017	ESS CM
S4532	S4532A3	1 - 1.5	2990	SWMU 18	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S4534	S4534A3	1 - 1.5	1950	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S4542	S4542A2	0.5 - 1	1250	AOC 41	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S4564	S4564C4	5.5 - 6	8500	AOC 23	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S4602	S4602A2	0.5 - 1	1280	SWMU 18	ISS/ESS IWP AOC 23, AOC 41, SWMU 18 - February 2017	ESS CM
S4673	S4673F3	11 - 11.5	828	SWMU 31/41	Justification for NFA SWMU 31/41 - September 2016	NFA
S4707	S4707A1A	0 - 0.25	2330	PAOC 6	ESS IWP PAOC 6 - December 2016	ESS CM
S4708	S4708A1B	0.25 - 0.5	1330			
S4710	S4710A1B	0.25 - 0.5	6720			
S4711	S4711A1A	0 - 0.25	22300			
	S4711A2B	0.75 - 1	2180			
	S4711B2A	2.5 - 2.75	1680			
S4712	S4712A1A	0 - 0.25	2490			
	S4712B1A	2 - 2.25	2440			
S4720	S4720A1A	0 - 0.25	1530			
	S4720A2B	0.75 - 1	4180			
S4721	S4721A1A	0 - 0.25	1680			
	S4721A2A	0.5 - 0.75	3250			
S4722	S4722A4B	1.75 - 2	4950			
S4723	S4723A2B	0.75 - 1	828			
	S4723A4B	1.75 - 2	1500			
S4724	S4724A2B	0.75 - 1	2030			
S4726	S4726A2A	0.5 - 0.75	4430			
S4727	S4727B2A	2.5 - 2.75	1550			
S4728	S4728B1B	2.25 - 2.5	1350			
S4729	S4729A1A	0 - 0.25	1730			
	S4729A2B	0.75 - 1	8490			
	S4729A4B	1.75 - 2	1400			
S4730	S4730A2B	0.75 - 1	2330			
S4731	S4731B2A	2.5 - 2.75	4140			
S4732	S4732A2A	0.5 - 0.75	1030			
S4734	S4734A4B	1.75 - 2	7460			
S4735	S4735B1A	2 - 2.25	3170			
S4736	S4736A3A	1 - 1.25	1590			
S4856	S4856A2	0.5 - 1	865	AOC 33	ISS IWP AOC 33 - November 2015 ISS CCR AOC 33 - June 2017	ISS CM
S4858	S4858A3	1 - 1.5	1250			
S4859	S4859A1	0 - 0.5	809			
S4867	S4867A2	0.5 - 1	184000	PAOC 6	ESS IWP PAOC 6 - December 2016	ESS CM
S4868	S4868A1	0 - 0.5	3220			
S4978	S4978A1	0 - 0.5	5740	AOC 33	ISS IWP AOC 33 - November 2015 ISS CCR AOC 33 - June 2017	ISS CM
S4980	S4980A2	0.5 - 1	850			
S5038	S5038D3	7 - 7.5	2410	SWMU 40	ESS IWP Addendum SWMU 40 - December 2015 ESS CCR SWMU 40 - November 2017	ESS CM
S5125	S5125A4	1.5 - 2	3020	SWMU 27/29	ISS/ESS IWP SWMUs 27/29 - August 2016 ISS/ESS CCR SWMUs 27/29 - February 2019	ISS CM
S5127	S5127B2	2.5 - 3	4730			
S5128	S5128D3	7 - 7.5	1110			
	S5128E2	8.5 - 9	4670			
S5129	S5129C2	4.5 - 5	943			
S5131	S5131B4	3.5 - 4	1270			
S5134	S5134D3	7 - 7.5	1000	AOC 5/SWMU 39	ISS/ESS IWP AOC 5/SWMU 39 - September 2016 ISS/ESS CCR AOC 5/SWMU 39 - November 2019	ISS CM
S5137	S5137D4	7.5 - 8	1490			
S5140	S5140D4	7.5 - 8	917			
S5151	S5151B4	3.5 - 4	2400	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ESS CM
S5153	S5153D2	6.5 - 7	1040	SWMU 20	ISS/ESS IWP SWMU 20 - May 2016 ISS/ESS CCR SWMU 20 - November 2018	ISS CM
S5205	S5205B4	3.5 - 4	1760	AOC 5/SWMU 39	ISS/ESS IWP AOC 5/SWMU 39 - September 2016 ISS/ESS CCR AOC 5/SWMU 39 - November 2019	ISS CM
	S5205B4	3.5 - 4	1290			
S5207	S5207F2	10.5 - 11	1100			
S5222	S5222E1	8 - 8.5	1370			
	S5222G2	12.5 - 13	1360			

Table 2
Lead Results in Soil Within Main Yard
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility
Perth Amboy, New Jersey

Soil Boring	Field Sample ID	Sample Depth (feet bgs)	Lead Result (mg/kg)	Area	Report	Addressed by
S5231	S5231B1	2 - 2.5	36900	PAOC 6	ESS IWP PAOC 6 - December 2016	ESS CM
S5291	S5291A2	0.5 - 1	2930			
S5291	S5291B1	2 - 2.5	1390			
S5292	S5292B4	3.5 - 4	9350			
S5293	S5293A4	1.5 - 2	44600			
S5295	S5295A1	0 - 0.5	3990			
S5297	S5297A1	0 - 0.5	1810			
S5298	S5298A1	0 - 0.5	2130			
S5314	S5314B4	3.5 - 4	223000			
	S5314C2	4.5 - 5	6560	SWMU 17	CM IWP SWMU 17 - February 2019	ESS CM
S5381	S5381B4	3.5 - 4	2310			
	S5381C4	5.5 - 6	900			
S5577	S5577B1	2 - 2.5	69900	AOC 50 North	CM IWP AOC 50 North - November 2018	ESS CM
S5578	S5578C2	4.5 - 5	911			
	S5578D1	6 - 6.5	3290			
S5579	S5579A4	1.5 - 2	1560			
S5582	S5582B3	3 - 3.5	6030			
	S5582C1	4 - 4.5	2460			
S5588	S5588A4	1.5 - 2	1640			
S5593	S5593B1	2 - 2.5	28900			
S5595	S5595A4	1.5 - 2	14000			
S5645	S5645A4	1.5 - 2	2910			
	S5645B1	2 - 2.5	41000			
S5660	S5660A4	1.5 - 2	125000			
S5663	S5663E3	9 - 9.5	2540	SWMU 43	CM IWP SWMU 5/21/43 - September 2018	ISS CM
S5664	S5664G1	12 - 12.5	1990			
S5666	S5666B3	3 - 3.5	2350			
S5670	S5670A4	1.5 - 2	3190			
S5674	S5674F1	10 - 10.5	2200			
S5787	S5787D3	7 - 7.5	213000	SWMU 17	CM IWP SWMU 17 - February 2019	ESS CM

Table 3
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	AOC 16A																										
			Location ID	SB-0252	SB-0253	SB-0254	SB-0255	SB-0256	SB-0256	SB-0257	SB-0264	SB-0265	SB-0267	SB-0268	SB-0277	SB-0278	SB-0279	S0490	S0491	S0492	S0493	S0494	S0844	S0844	S0844	S0837	S0837	S0837	S0883
			Field Sample ID	SB-0252S-C	SB0253-S-C	SB0254-S-C	SB0255-S-B	SB-0256-SC	SB0256-S-B	SB-0257-SB	SB-0264-SC	SB-0265-SC	SB-0267S-B	SB-0268S-B	SB-0277S-C	SB-0278S-C	SB-0279S-B	S0490A2	S0491B2	S0492B2	S0493B2	S0494B4	S0844A4	S0844C3	S0844G4	S0837A4	S0837C4	S0837G4	S0883D3
			Sample Depth	4 - 6	4 - 6	4 - 6	2 - 4	4 - 6	2 - 4	2 - 4	4 - 6	4 - 6	2 - 4	2 - 4	4 - 6	4 - 6	2 - 4	0.5 - 1	2.5 - 3	2.5 - 3	2.5 - 3	3.5 - 4	1.5 - 2	5 - 5.5	13.5 - 14	1.5 - 2	5.5 - 6.0	13.5 - 14	7 - 7.5
			Sample Date	09/19/1996	10/08/1996	10/08/1996	10/08/1996	10/10/1996	10/08/1996	10/10/1996	10/14/1996	10/14/1996	10/17/1996	10/17/1996	05/13/1997	05/13/1997	05/13/1997	08/13/1999	08/13/1999	08/13/1999	08/13/1999	09/01/1999	08/16/2002	08/16/2002	08/16/2002	08/28/2002	08/28/2002	08/28/2002	11/25/2002
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	**Report Units**	**Leached**	**CMI Soil Criteria**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
1,1 Dichloroethene	mg/kg	N	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,1 Dichloroethene	ug/L	Y	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,1,2,2-Tetrachloroethane	mg/kg	N	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,1,2-Trichloroethane	mg/kg	N	420	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
1,1-Dichloroethane	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,2,4-Trichlorobenzene	mg/kg	N	1200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
1,2-Dibromoethane	mg/kg	N	NS	0.006 U	0.71 U	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	1.3 U	0.76 U	0.031 U	0.65 U	0.64 U	0.7 U	0.8 U	0.83 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,2-Dichloroethane	mg/kg	N	24	0.006 U	0.71 U	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	1.3 U	0.76 U	0.031 U	0.65 U	0.64 U	0.7 U	0.8 U	0.83 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,2-Dichloroethane	ug/L	Y	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	N	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,3-Dichlorobenzene	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
1,4-Dichlorobenzene	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
2-Butanone (Methyl ethyl ketone)	mg/kg	N	1000	0.011 U	1.4 U	0.011 U	0.011 U	0.12 U	0.012 U	0.12 U	0.01 U	0.012 U	1.6 U	1.4 U	2.6 U	1.5 U	0.062 U	1.3 U	1.2 U	1.3 U	1.5 U	1.6 U	0.52 U	0.58 U	0.51 U	0.49 U	1.2 J	0.59 U	0.58 U
2-Butanone (Methyl ethyl ketone)	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.39 U	0.43 U	0.38 U	0.36 U	0.42 U	0.44 U	0.43 U
4-Methyl-2-pentanone	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.39 U	0.43 U	0.38 U	0.36 U	0.42 U	0.44 U	0.43 U
Acetone	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.91 U	1.0 U	0.89 U	0.85 U	1.0 U	1.0 U	1.0 U
Benzene	mg/kg	N	13	0.006 U	2.1	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	0.88	0.76 U	0.031 U	0.65 U	0.64 U	1.4	0.8 U	0.83 U	1.4	0.14 U	0.13 U	0.35 J	0.48 J	0.15 U	0.14 U
Benzene	ug/L	Y	500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	N	46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Bromoform	mg/kg	N	370	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Bromomethane (Methyl bromide)	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
Carbon disulfide	mg/kg	N	NS	0.006 U	0.71 U	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	1.3 U	0.76 U	0.031 U	0.65 U	0.64 U	0.7 U	0.8 U	0.83 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Carbon Tetrachloride	mg/kg	N	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Carbon Tetrachloride	ug/L	Y	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	N	680	0.006 U	0.71 U	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	1.3 U	0.76 U	0.031 U	0.65 U	0.64 U	0.7 U	0.8 U	0.83 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Chlorobenzene	ug/L	Y	680	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
Chloroform	mg/kg	N	28	0.006 U	0.71 U	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	1.3 U	0.76 U	0.031 U	0.65 U	0.64 U	0.7 U	0.8 U	0.83 U	0.13 U	0.14 U	0.13 U	--	--	--	--
Chloroform	ug/L	Y	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.12 U	0.14 U	0.15 U	0.14 U
Chloromethane (Methyl chloride)	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
cis-1,2-Dichloroethene	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
cis-1,3-Dichloropropene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Cyclohexane	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.23 J	0.14 U	0.13 U	0.12 U	1.9	0.15 U	5.8
Dibromochloromethane	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Dichlorodifluoromethane (Freon 12)	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
Ethylbenzene	mg/kg	N	1000	0.006 U	7.5	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.67	2.4	36	6.1	0.031 U	0.65 U	0.64 U	0.7 U	1.6	0.83 U	0.13 U	0.14 U	0.13 U	0.12 U	0.17 J	0.15 U	0.14 U
Ethylbenzene	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	2.5	0.15 U	1.8
Methyl acetate	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
Methyl-t-butyl ether	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Methylcyclohexane	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.28 J	0.14 U	0.13 U	0.68	11	0.15 U	43
Methylene chloride (Dichloromethane)	mg/kg	N	210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
Styrene	mg/kg	N	97	0.006 U	0.71 U	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	1.3 U	0.76 U	0.031 U	0.65 U	0.64 U	0.7 U	0.8 U	0.83 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Tetrachloroethene	mg/kg	N	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Tetrachloroethene	ug/L	Y	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	N	1000	0.006 U	1.2	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	1.3 U	0.64	0.031 U	0.65 U	0.64 U	0.7 U	0.8 U	0.83 U	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Toluene	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	N	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
trans-1,3-Dichloropropene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Trichloroethene (Trichloroethylene)	mg/kg	N	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Trichloroethene (Trichloroethylene)	ug/L	Y	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.26 U	0.29 U	0.25 U	0.24 U	0.28 U	0.29 U	0.29 U
Vinyl chloride (Chloroethene)	mg/kg	N	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 U	0.14 U	0.13 U	0.12 U	0.14 U	0.15 U	0.14 U
Vinyl chloride (Chloroethene)	ug/L	Y	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene (total)	mg/kg	N	1000	0.006 U	28	0.006 U	0.006 U	0.059 U	0.006 U	0.062 U	0.005 U	0.006 U	0.82 U	0.74 U	46	1.2	0.031 U	0.65 U	0.63	0.7	4.6	0.83 U	0.13 U	0.14 U	0.13 U	0.12 U	0.95	0.15 U	0.14 U
Xylene (total)	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 3
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	AOC 16A																											
			Location ID	S0884	S1793	S2161	S2161	S2162	S3282	S3282	S3282	S3283	S3283	S3283	S4167	S4167	S4168	S4168	S4171	S4171	S4293	S4293	S4293	S5031	S5031	S5031	S5035	S5035	S5035
			Field Sample ID	S0884C3	S1793D2	D1018065	S2161D1	S2162B1	S3282A3	S3282F1	S3282G1	S3283A2	S3283C4	S3283G1	S4167E2	S4167G4	S4168F1	S4168H2	S4171D3	S4171H1	D04111412	S4293F3	S4293G4	S5031A3	S5031H1	S5031J2	S5035B4	S5035H1	S5035H4
			Sample Depth	5 - 5.5	6.5 - 7	--	6 - 6.5	2 - 2.5	1 - 1.5	10 - 10.5	12 - 12.5	0.5 - 1	5.5 - 6	12 - 12.5	8.5 - 9	13.5 - 14	10 - 10.5	14.5 - 15	7 - 7.5	14 - 14.5	13.5 - 14	11 - 11.5	13.5 - 14	1 - 1.5	14 - 14.5	18.5 - 19	3.5 - 4	14 - 14.5	15.5 - 16
			Sample Date	11/12/2002	04/23/2004	10/18/2006	10/18/2006	10/18/2006	04/04/2013	04/04/2013	04/04/2013	03/27/2013	03/29/2013	03/29/2013	05/01/2014	05/01/2014	05/02/2014	05/02/2014	05/01/2014	05/01/2014	04/11/2014	04/11/2014	04/11/2014	12/04/2015	12/04/2015	12/04/2015	12/03/2015	12/03/2015	12/03/2015
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	**Report Units**	**Leached**	**CMI Soil Criteria**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
1,1 Dichloroethene	mg/kg	N	150	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,1 Dichloroethene	ug/L	Y	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	N	1000	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,1,2,2-Tetrachloroethane	mg/kg	N	70	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,1,2-Trichloroethane	mg/kg	N	420	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,1,2-Trichlorotrifluoroethane (Freon 113)	mg/kg	N	NS	0.29 U	--	0.30 U	0.31 U	0.30 U	0.002 U	0.11 U	0.002 U	0.002 U	0.14 U	0.002 U	0.13 U	0.002 UJ	0.17 UJ	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.15 U	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
1,1-Dichloroethane	mg/kg	N	1000	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,2,4-Trichlorobenzene	mg/kg	N	1200	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	N	NS	0.29 U	--	0.30 U	0.31 U	0.30 U	0.002 U	0.11 U	0.002 U	0.002 U	0.14 U	0.002 U	0.13 U	0.002 UJ	0.17 UJ	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.15 U	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
1,2-Dibromoethane	mg/kg	N	NS	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	N	10000	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,2-Dichloroethane	mg/kg	N	24	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,2-Dichloroethane	ug/L	Y	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	N	43	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,3-Dichlorobenzene	mg/kg	N	10000	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
1,4-Dichlorobenzene	mg/kg	N	10000	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
2-Butanone (Methyl ethyl ketone)	mg/kg	N	1000	0.57 U	--	0.61 U	0.62 U	0.59 U	0.005 U	0.23 U	0.005 U	0.005 U	0.28 U	0.005 U	0.27 U	0.004 UJ	0.35 UJ	0.004 UJ	0.19 UJ	0.005 J	0.004 UJ	0.31 U	0.004 UJ	0.004 U	0.22 UJ	0.004 U	0.004 U	0.02	0.004 UJ
2-Butanone (Methyl ethyl ketone)	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	N	NS	0.43 U	--	0.46 U	0.46 U	0.44 U	0.003 U	0.17 U	0.004 U	0.003 U	0.21 U	0.004 U	0.20 U	0.003 UJ	0.26 UJ	0.003 UJ	0.14 UJ	0.003 U	0.003 UJ	0.23 U	0.003 UJ	0.003 U	0.17 UJ	0.003 U	0.003 U	0.005 U	0.003 UJ
4-Methyl-2-pentanone	mg/kg	N	1000	0.43 U	--	0.46 U	0.46 U	0.44 U	0.003 U	0.17 U	0.004 U	0.003 U	0.21 U	0.004 U	0.20 U	0.003 UJ	0.26 UJ	0.003 UJ	0.14 UJ	0.003 U	0.003 UJ	0.23 U	0.003 UJ	0.003 U	0.17 UJ	0.003 U	0.003 U	0.005 U	0.003 UJ
Acetone	mg/kg	N	1000	1.0 U	--	1.1 U	1.1 U	1.0 U	0.008 U	0.40 U	0.009 U	0.008 J	0.55 J	0.014 J	0.47 U	0.010 J	0.61 UJ	0.017 J	0.32 UJ	0.024	0.023 J	0.54 U	0.017 UJ	0.012 J	0.39 UJ	0.022	0.012 J	0.048	0.013 J
Benzene	mg/kg	N	13	0.14 U	--	0.43 J	0.56 J	0.41 J	0.0006 U	0.041 J	0.0006 U	0.0006 U	0.13 J	0.0006 U	0.24 J	0.0005 UJ	0.24 J	0.0005 UJ	0.023 UJ	0.0005 U	0.0005 UJ	0.86	0.0005 UJ	0.0005 U	0.029 J	0.0005 U	0.0005 U	0.027	0.001 J
Benzene	ug/L	Y	500	--	1 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	N	46	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Bromoform	mg/kg	N	370	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Bromomethane (Methyl bromide)	mg/kg	N	1000	0.29 U	--	0.30 U	0.31 U	0.30 U	0.002 U	0.11 U	0.002 U	0.002 U	0.14 U	0.002 U	0.13 U	0.002 UJ	0.17 UJ	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.15 UJ	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
Carbon disulfide	mg/kg	N	NS	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.002 J	0.004 J	0.002 J
Carbon Tetrachloride	mg/kg	N	4	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Carbon Tetrachloride	ug/L	Y	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	N	680	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Chlorobenzene	ug/L	Y	680	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	N	NS	0.29 U	--	0.30 U	0.31 U	0.30 U	0.002 U	0.11 U	0.002 U	0.002 U	0.14 U	0.002 U	0.13 U	0.002 UJ	0.17 UJ	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.15 UJ	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
Chloroform	mg/kg	N	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/L	Y	28	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Chloromethane (Methyl chloride)	mg/kg	N	1000	0.29 U	--	0.30 U	0.31 U	0.30 U	0.002 U	0.11 U	0.002 U	0.002 U	0.14 U	0.002 U	0.13 U	0.002 UJ	0.17 UJ	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.15 U	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
cis-1,2-Dichloroethene	mg/kg	N	1000	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
cis-1,3-Dichloropropene	mg/kg	N	NS	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Cyclohexane	mg/kg	N	NS	0.43 J	--	0.15 U	0.15 U	3.4	0.001 U	0.24 J	0.001 U	0.001 U	1.0	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.50 J	0.001 U	0.001 UJ	1.1	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.13	0.004 J
Dibromochloromethane	mg/kg	N	1000	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Dichlorodifluoromethane (Freon 12)	mg/kg	N	NS	0.29 U	--	0.30 U	0.31 U	0.30 U	0.002 U	0.11 U	0.002 U	0.002 U	0.14 U	0.002 U	0.13 U	0.002 UJ	0.17 UJ	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.15 U	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
Ethylbenzene	mg/kg	N	1000	0.14 U	--	0.68 J	0.74 J	0.54 J	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.19 J	0.001 UJ	0.41 J	0.001 UJ	0.30 J	0.001 U	0.001 UJ	0.51	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.019	0.001 UJ
Ethylbenzene	ug/L	Y	1000	--	3 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	N	NS	1.5	--	7.2	5.9	1.4	0.001 U	0.73	0.001 U	0.005 J	1.9	0.001 U	1.3	0.001 UJ	5.7 J	0.001 UJ	0.42 J	0.001 U	0.001 UJ	4.6	0.001 UJ	0.001 U	0.17 J	0.001 U	0.001 U	0.021	0.001 UJ
Methyl acetate	mg/kg	N	NS	0.29 U	--	0.3 U	0.31 U	0.3 U	0.002 U	0.11 U	0.002 U	0.002 U	0.24 J	0.002 U	0.17 J	0.002 UJ	0.25 J	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.27 J	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
Methyl-t-butyl ether	mg/kg	N	NS	0.14 U	--	0.076 U	0.077 U	0.074 U	0.0006 U	0.028 U	0.0006 U	0.0006 U	0.035 U	0.0006 U	0.033 U	0.0005 UJ	0.043 UJ	0.0005 UJ	0.023 UJ	0.0005 U	0.0005 UJ	0.038 U	0.0005 UJ	0.0005 U	0.028 UJ	0.0005 U	0.0005 U	0.0009 U	0.0005 UJ
Methylcyclohexane	mg/kg	N	NS	30	--	6.5	6.1	43	0.001 U	0.91	0.001 U	0.010	1.3	0.003 J	3.6	0.001 UJ	0.086 UJ	0.001 UJ	4.9 J	0.001 U	0.001 UJ	3.1	0.001 UJ	0.001 U	0.37 J	0.001 U	0.001 U	0.41	0.006 J
Methylene chloride (Dichloromethane)	mg/kg	N	210	0.29 U	--	0.30 U	0.31 U	0.30 U	0.002 U	0.11 U	0.002 U	0.002 U	0.14 U	0.005 J	0.13 U	0.002 UJ	0.17 UJ	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.15 U	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
Styrene	mg/kg	N	97	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Tetrachloroethene	mg/kg	N	6	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Tetrachloroethene	ug/L	Y	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	N	1000	0.14 U	--	0.52 J	0.65 J	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.13 J	0.001 UJ	0.12 J	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.39	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.009 J	0.001 UJ
Toluene	ug/L	Y	1000	--	0.7 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	N	1000	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
trans-1,3-Dichloropropene	mg/kg	N	NS	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Trichloroethene (Trichloroethylene)	mg/kg	N	54	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Trichloroethene (Trichloroethylene)	ug/L	Y	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	mg/kg	N	NS	0.29 U	--	0.30 U	0.31 U	0.30 U	0.002 U	0.11 U	0.002 U	0.002 U	0.14 U	0.002 U	0.13 U	0.002 UJ	0.17 UJ	0.002 UJ	0.093 UJ	0.002 U	0.002 UJ	0.15 U	0.002 UJ	0.002 U	0.11 UJ	0.002 U	0.002 U	0.004 U	0.002 UJ
Vinyl chloride (Chloroethene)	mg/kg	N	7	0.14 U	--	0.15 U	0.15 U	0.15 U	0.001 U	0.057 U	0.001 U	0.001 U	0.071 U	0.001 U	0.067 U	0.001 UJ	0.086 UJ	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.076 U	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.002 U	0.001 UJ
Vinyl chloride (Chloroethene)	ug/L	Y	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene (total)	mg/kg	N	1000	0.14 U	--	1.5	1.8	0.91	0.001 U	0.080 J	0.001 U	0.001 U	0.30 J	0.001 U	0.29 J	0.001 UJ	0.40 J	0.001 UJ	0.046 UJ	0.001 U	0.001 UJ	0.99	0.001 UJ	0.001 U	0.056 UJ	0.001 U	0.001 U	0.037	0.001 UJ
Xylene (total)	ug/L	Y	1000	--	2 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 3
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	SWMU 51																										
			Location ID	SB-0264	S0491	S0754	S0754	S0754	S0754	S0755	S0755	S0755	S0901	S1788	S1789	S2573	S2573	S2574	S2574	S2575	S2575	S2576	S2576	S2576	S2577	S2577	S2578	S2578
			Field Sample ID	SB-0264-SC	S0491B2	S0754A2	S0754A4	S0754B3	S0754F3	S0755A4	S0755C2	S0755F3	S0901C2	S1788E1	S1789	S2573B1	S2573C1	S2574B1	S2574C1	S2575B2	S2575B4	D1011073	S2576B4	S2576C2	S2577B2	S2577C2	S2578B2	S2578C2
			Sample Depth	4 - 6	2.5 - 3	0.5 - 1	1.5 - 2	3 - 3.5	11.0 - 11.5	1.5 - 2	4.5 - 5	11 - 11.5	4.5 - 5	8.0 - 8.5	3.5 - 4	2 - 2.5	4 - 4.5	2 - 2.5	4 - 4.5	2.5 - 3	3.5 - 4		3.5 - 4	4.5 - 5	2.5 - 3	4.5 - 5	2.5 - 3	4.5 - 5
			Sample Date	10/14/1996	08/13/1999	07/11/2002	07/11/2002	07/11/2002	07/11/2002	07/10/2002	07/10/2002	07/10/2002	11/18/2002	03/24/2004	03/25/2004	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/12/2007	10/12/2007
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG
Parameter Name	**Report Units**	**Leached**	**CMI Soil Criteria**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
1,1 Dichloroethene	mg/kg	N	150	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,1 Dichloroethene	ug/L	Y	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	N	1000	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,1,2,2-Tetrachloroethane	mg/kg	N	70	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,1,2-Trichloroethane	mg/kg	N	420	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	mg/kg	N	NS	--	--	--	0.133 U	0.142 U	0.167 U	0.383 U	0.383 U	0.384 U	0.27 U	0.29 U	0.27 U	0.29 U	0.30 U	0.27 U	0.26 U	0.28 U	0.31 U	0.35 U	0.32 U	0.33 U	0.28 U	0.30 U	0.27 U	0.27 U
1,1-Dichloroethane	mg/kg	N	1000	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	mg/kg	N	1200	--	--	0.363 U	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	N	NS	--	--	--	0.665 U	0.709 U	0.839 U	0.383 U	0.383 U	0.384 U	0.27 U	0.29 U	0.27 U	0.29 U	0.30 U	0.27 U	0.26 U	0.28 U	0.31 U	0.35 U	0.32 U	0.33 U	0.28 U	0.30 U	0.27 U	0.27 U
1,2-Dibromoethane	mg/kg	N	NS	0.005 U	0.64 U	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,2-Dichloroethane	mg/kg	N	24	0.005 U	0.64 U	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,2-Dichloroethane	ug/L	Y	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	N	43	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,3-Dichlorobenzene	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
1,4-Dichlorobenzene	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
2-Butanone (Methyl ethyl ketone)	mg/kg	N	1000	0.01 U	1.2 U	--	3.32 U	3.54 U	4.2 U	3.06 U	4.02 U	3.45 U	0.53 U	0.58 U	0.55 U	0.57 U	0.60 U	0.55 U	0.52 U	0.55 U	0.62 U	0.69 U	0.64 U	0.66 U	0.56 U	0.60 U	0.53 U	0.54 U
2-Butanone (Methyl ethyl ketone)	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	N	NS	--	--	--	0.665 U	0.709 U	0.839 U	0.613 U	0.803 U	0.69 U	0.40 U	0.43 U	0.41 U	0.43 U	0.45 U	0.41 U	0.39 U	0.42 U	0.46 U	0.52 U	0.48 U	0.49 U	0.42 U	0.45 U	0.40 U	0.40 U
4-Methyl-2-pentanone	mg/kg	N	1000	--	--	--	0.665 U	0.709 U	0.839 U	0.613 U	0.803 U	0.69 U	0.40 U	0.43 U	0.41 U	0.43 U	0.45 U	0.41 U	0.39 U	0.42 U	0.46 U	0.52 U	0.48 U	0.49 U	0.42 U	0.45 U	0.40 U	0.40 U
Acetone	mg/kg	N	1000	--	--	--	3.32 U	3.54 U	4.2 U	3.06 U	4.02 U	3.45 U	0.93 U	1.0 U	0.96 U	1.0 U	1.0 U	0.96 U	0.92 U	0.97 U	1.1 U	1.2 U	1.1 U	1.2 U	0.97 U	1.1 U	0.94 U	0.94 U
Benzene	mg/kg	N	13	0.005 U	0.64 U	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.072 U	0.39 J	0.072 U	0.075 U	0.069 U	0.066 U	0.069 U	0.077 U	0.087 U	0.080 U	0.082 U	0.070 U	0.075 U	0.067 U	0.067 U
Benzene	ug/L	Y	500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	N	46	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Bromoform	mg/kg	N	370	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Bromomethane (Methyl bromide)	mg/kg	N	1000	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.27 U	0.29 U	0.27 U	0.29 U	0.30 U	0.27 U	0.26 U	0.28 U	0.31 U	0.35 U	0.32 U	0.33 U	0.28 U	0.30 U	0.27 U	0.27 U
Carbon disulfide	mg/kg	N	NS	0.005 U	0.64 U	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Carbon Tetrachloride	mg/kg	N	4	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Carbon Tetrachloride	ug/L	Y	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	N	680	0.005 U	0.64 U	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Chlorobenzene	ug/L	Y	680	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	N	NS	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.27 U	0.29 U	0.27 U	0.29 U	0.30 U	0.27 U	0.26 U	0.28 U	0.31 U	0.35 U	0.32 U	0.33 U	0.28 U	0.30 U	0.27 U	0.27 U
Chloroform	mg/kg	N	28	0.005 U	0.64 U	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Chloroform	ug/L	Y	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	N	1000	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.27 U	0.29 U	0.27 U	0.29 U	0.30 U	0.27 U	0.26 U	0.28 U	0.31 U	0.35 U	0.32 U	0.33 U	0.28 U	0.30 U	0.27 U	0.27 U
cis-1,2-Dichloroethene	mg/kg	N	1000	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
cis-1,3-Dichloropropene	mg/kg	N	NS	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Cyclohexane	mg/kg	N	NS	--	--	--	0.085	0.363	6.24 U	0.383 U	0.383 U	0.384 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.19 J	0.15 U	0.13 U	0.13 U
Dibromochloromethane	mg/kg	N	1000	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Dichlorodifluoromethane (Freon 12)	mg/kg	N	NS	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.27 U	0.29 U	0.27 U	0.29 U	0.30 U	0.27 U	0.26 U	0.28 U	0.31 U	0.35 U	0.32 U	0.33 U	0.28 U	0.30 U	0.27 U	0.27 U
Ethylbenzene	mg/kg	N	1000	0.005 U	0.64 U	--	0.133 U	0.34	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Ethylbenzene	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	N	NS	--	--	--	0.319	1.61	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Methyl acetate	mg/kg	N	NS	--	--	--	5 U	5.67 U	6.24 U	--	--	--	0.27 U	0.29 U	0.27 U	0.29 U	0.3 U	0.27 U	0.26 U	0.28 U	0.31 U	0.64 J	0.47 J	0.38 J	0.28 U	0.3 U	0.27 U	0.27 U
Methyl-t-butyl ether	mg/kg	N	NS	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.072 U	0.069 U	0.072 U	0.075 U	0.069 U	0.066 U	0.069 U	0.077 U	0.087 U	0.080 U	0.082 U	0.070 U	0.075 U	0.067 U	0.067 U
Methylcyclohexane	mg/kg	N	NS	--	--	--	2.7	11.8	6.24 U	0.383 U	0.38 U	0.384 U	0.13 U	0.14 U	0.16 J	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.52 J	0.15 U	0.13 U	0.13 U
Methylene chloride (Dichloromethane)	mg/kg	N	210	--	--	--	0.332 U	0.354 U	0.42 U	0.306 U	0.402 U	0.345 U	0.27 U	0.29 U	0.27 U	0.29 U	0.30 U	0.27 U	0.26 U	0.28 U	0.31 U	0.35 U	0.32 U	0.33 U	0.28 U	0.30 U	0.27 U	0.27 U
Styrene	mg/kg	N	97	0.005 U	0.64 U	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Tetrachloroethene	mg/kg	N	6	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Tetrachloroethene	ug/L	Y	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	N	1000	0.005 U	0.64 U	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.23 J	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Toluene	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	N	1000	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
trans-1,3-Dichloropropene	mg/kg	N	NS	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Trichloroethene (Trichloroethylene)	mg/kg	N	54	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Trichloroethene (Trichloroethylene)	ug/L	Y	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	mg/kg	N	NS	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.27 U	0.29 U	0.27 U	0.29 U	0.30 U	0.27 U	0.26 U	0.28 U	0.31 U	0.35 U	0.32 U	0.33 U	0.28 U	0.30 U	0.27 U	0.27 U
Vinyl chloride (Chloroethene)	mg/kg	N	7	--	--	--	0.133 U	0.142 U	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Vinyl chloride (Chloroethene)	ug/L	Y	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene (total)	mg/kg	N	1000	0.005 U	0.63	--	0.133 U	2.17	0.168 U	0.123 U	0.161 U	0.138 U	0.13 U	0.14 U	0.35 J	0.14 U	0.15 U	0.14 U	0.13 U	0.14 U	0.15 U	0.17 U	0.16 U	0.16 U	0.14 U	0.15 U	0.13 U	0.13 U
Xylene (total)	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 3
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	PAOC 46/73																																
			Location ID	S1810	S2144	S2144	S2145	S2145	S2204	S2205	S2208	S2416	S2416	S2416	S2419	S2449	S2449	S2726	S2726	S2726	S2728	S2728	S2728	S2728	S2729	S2729	S2729	S2827	S2827	S2827	S2828	S2828	S2828	S2829
			Field Sample ID	S1810C2	S2144B4	S2144D2	S2145C2	S2145E3	S2204B1	S2205A4	S2208B2	D0109073	S2416F3	S2416I1	S2419C4	S2449D1	S2449D3	S2726A3	S2726B3	S2726D4	S2728C2	S2728B1	S2728D2	S2728E1	S2729B4	S2729C2	S2729D4	S2827A2	S2827A4	S2827C2	S2828A1	S2828B1	S2828E1	D1025124
			Sample Depth	4.5 - 5	3.5 - 4	6.5 - 7	4.5 - 5	9 - 9.5	2 - 2.5	1.5 - 2	2.5 - 3	--	11 - 11.5	16 - 16.5	5.5 - 6	6 - 6.5	7 - 7.5	1 - 1.5	3 - 3.5	7.5 - 8	4.5 - 5	2 - 2.5	6.5 - 7	8 - 8.5	3.5 - 4	4.5 - 5	7.5 - 8	0.5 - 1	1.5 - 2	4.5 - 5	0 - 0.5	2 - 2.5	8 - 8.5	5 - 5.5
			Sample Date	04/27/2004	12/08/2006	12/08/2006	12/08/2006	12/08/2006	11/06/2006	11/06/2006	11/07/2006	01/09/2007	01/09/2007	01/09/2007	01/09/2007	02/22/2007	02/22/2007	10/18/2012	10/18/2012	10/18/2012	10/19/2012	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD
Parameter Name	**Report Units**	**Leached**	**CMI Soil Criteria**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
1,1 Dichloroethene	mg/kg	N	150	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,1 Dichloroethene	ug/L	Y	150	--	--	--	--	--	16 U	--	16 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	N	1000	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/kg	N	70	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/kg	N	420	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	mg/kg	N	NS	--	0.30 U	0.78 UJ	0.32 U	1.2 UJ	0.29 U	0.32 U	0.28 U	0.29 U	0.32 U	0.40 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.40 U	0.020 U	0.002 U	0.12 U	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
1,1-Dichloroethane	mg/kg	N	1000	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/kg	N	1200	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	N	NS	--	0.30 U	0.78 UJ	0.32 U	1.2 UJ	0.29 U	0.32 U	0.28 U	0.29 U	0.32 U	0.40 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.40 U	0.020 U	0.002 U	0.12 U	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
1,2-Dibromoethane	mg/kg	N	NS	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	N	10000	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/kg	N	24	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,2-Dichloroethane	ug/L	Y	24	--	--	--	--	--	20 U	--	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	N	43	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/kg	N	10000	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/kg	N	10000	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone)	mg/kg	N	1000	--	0.61 U	1.6 UJ	0.64 U	2.5 UJ	0.59 U	0.63 U	0.56 U	0.58 U	0.64 U	0.81 U	0.63 U	--	--	0.24 U	0.25 U	0.017 U	2.6 U	0.004 U	0.005 U	0.023 U	0.18 U	0.80 U	0.049 J	0.004 U	0.25 U	0.010 J	0.005 U	0.22 U	0.004 U	0.005 U
2-Butanone (Methyl ethyl ketone)	ug/L	Y	1000	--	--	--	--	--	60 U	--	60 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	N	NS	--	0.45 U	1.2 UJ	0.48 U	1.9 UJ	0.44 U	0.47 U	0.42 U	0.44 U	0.48 U	0.60 U	0.47 U	--	--	0.18 U	0.19 U	0.012 U	1.9 U	0.003 U	0.004 U	0.017 U	0.14 U	0.60 U	0.030 U	0.003 U	0.19 U	0.003 U	0.004 U	0.17 U	0.003 U	0.004 U
4-Methyl-2-pentanone	mg/kg	N	1000	--	0.45 U	1.2 UJ	0.48 U	1.9 UJ	0.44 U	0.47 U	0.42 U	0.44 U	0.48 U	0.60 U	0.47 U	--	--	0.18 U	0.19 U	0.012 U	1.9 U	0.003 U	0.004 U	0.017 U	0.14 U	0.60 U	0.030 U	0.003 U	0.19 U	0.003 U	0.004 U	0.17 U	0.003 U	0.004 U
Acetone	mg/kg	N	1000	--	1.1 U	2.7 UJ	1.1 U	4.4 UJ	1.0 U	1.1 U	0.98 U	1.0 U	1.1 U	1.4 U	3.9	--	--	0.43 U	0.44 U	0.038 J	4.5 U	0.008 U	0.027 J	0.28 J	0.32 U	1.4 U	0.15 J	0.008 U	0.43 U	0.035	0.008 U	0.39 U	0.013 J	0.032
Benzene	mg/kg	N	13	--	0.75 J	0.20 UJ	2.1	2.7 J	0.073 U	3.0	1.1	0.12 J	0.079 U	0.10 U	**24**	0.77 J	5.1 J	0.031 U	0.20 J	0.12	4.0 J	0.002 J	0.006 J	1.4 J	0.031 J	0.22 J	2.7	0.0005 U	0.32	0.0006 U	0.002 J	0.051 J	0.0006 U	0.0006 U
Benzene	ug/L	Y	500	14	--	--	--	--	10 U	--	10 U	--	--	--	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	N	46	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Bromoform	mg/kg	N	370	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/kg	N	1000	--	0.30 U	0.78 UJ	0.32 U	1.2 UJ	0.29 U	0.32 U	0.28 U	0.29 U	0.32 U	0.40 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.40 U	0.020 U	0.002 U	0.12 U	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
Carbon disulfide	mg/kg	N	NS	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.012 J	0.65 U	0.001 U	0.001 U	0.047 J	0.045 U	0.20 U	0.058	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Carbon Tetrachloride	mg/kg	N	4	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Carbon Tetrachloride	ug/L	Y	4	--	--	--	--	--	20 U	--	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	N	680	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Chlorobenzene	ug/L	Y	680	--	--	--	--	--	16 U	--	16 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	N	NS	--	0.30 U	0.78 UJ	0.32 U	1.2 UJ	0.29 U	0.32 U	0.28 U	0.29 U	0.32 U	0.40 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.40 U	0.020 U	0.002 U	0.12 U	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
Chloroform	mg/kg	N	28	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Chloroform	ug/L	Y	28	--	--	--	--	--	16 U	--	16 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	N	1000	--	0.30 U	0.78 UJ	0.32 U	1.2 UJ	0.29 U	0.32 U	0.28 U	0.29 U	0.32 U	0.40 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.40 U	0.020 U	0.002 U	0.12 U	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
cis-1,2-Dichloroethene	mg/kg	N	1000	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/kg	N	NS	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Cyclohexane	mg/kg	N	NS	--	0.15 U	0.39 UJ	18	0.62 UJ	0.56 J	41	1.7	0.46 J	0.85	0.20 U	43	--	--	0.061 U	1.8	0.016 J	38 J	0.005 J	0.090 J	0.94 J	0.76	5.5 J	0.36	0.001 U	1.1	0.001 U	0.10	0.27 J	0.016	0.063
Dibromochloromethane	mg/kg	N	1000	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Dichlorodifluoromethane (Freon 12)	mg/kg	N	NS	--	0.30 U	0.78 UJ	0.32 U	1.2 UJ	0.29 U	0.32 U	0.28 U	0.29 U	0.32 U	0.40 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.40 U	0.020 U	0.002 U	0.12 U	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
Ethylbenzene	mg/kg	N	1000	--	2.3	0.39 UJ	1.4	0.62 UJ	0.52 J	36	1.4	0.50 J	0.30 J	0.20 U	18	0.43 J	4.3 J	0.061 U	0.33	0.013 J	71 J	0.007	0.030 J	1.5 J	0.12 J	3.5 J	0.90	0.001 U	1.1	0.001 U	0.022	0.072 J	0.002 J	0.002 J
Ethylbenzene	ug/L	Y	1000	2 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	N	NS	--	1.6	0.39 UJ	0.92	0.62 UJ	2.2	2.6	0.87	0.87	1.5	0.20 U	38	--	--	0.061 U	0.083 J	0.004 U	8.4 J	0.002 J	0.10 J	0.46 J	0.12 J	1.8 J	0.030 J	0.001 U	0.31	0.001 U	0.009	0.055 U	0.015	0.028
Methyl acetate	mg/kg	N	NS	--	0.3 U	0.86 J	0.32 U	1.2 UJ	0.29 U	0.4 J	0.28 U	0.29 U	0.32 U	0.4 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.4 U	0.02 U	0.002 U	0.22 J	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
Methyl-t-butyl ether	mg/kg	N	NS	--	0.076 U	0.20 UJ	0.080 U	0.31 UJ	0.073 U	0.079 U	0.070 U	0.073 U	0.079 U	0.10 U	0.079 U	--	--	0.031 U	0.032 U	0.002 U	0.32 U	0.0005 U	0.0006 U	0.003 U	0.023 U	0.10 U	0.005 U	0.0005 U	0.031 U	0.0006 U	0.0006 U	0.028 U	0.0006 U	0.0006 U
Methylcyclohexane	mg/kg	N	NS	--	6.0	0.39 UJ	59	0.62 UJ	4.3	74	6.3	1.3	2.5	0.20 U	170	--	--	0.13 J	1.6	0.014 J	130 J	0.013	0.37	2.1 J	1.7	69	0.31	0.001 U	3.8	0.01	0.21	1.5	0.057	0.14
Methylene chloride (Dichloromethane)	mg/kg	N	210	--	0.30 U	0.78 UJ	0.32 U	1.2 UJ	0.29 U	0.32 U	0.28 U	0.29 U	0.32 U	0.40 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.40 U	0.020 U	0.002 U	0.12 U	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
Styrene	mg/kg	N	97	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Tetrachloroethene	mg/kg	N	6	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Tetrachloroethene	ug/L	Y	6	--	--	--	--	--	16 U	--	16 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	N	1000	--	1.3	0.39 UJ	0.84	1.2 J	0.15 J	5.8	1.2	0.26 J	0.16 U	0.20 U	6.8	0.22 J	3.2 J	0.085 J	0.25 J	0.009 J	55 J	0.005 J	0.009 J	7.2	0.052 J	0.29 J	0.95	0.001 U	1.2	0.001 U	0.017	0.10 J	0.002 J	0.001 U
Toluene	ug/L	Y	1000	2 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	N	1000	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/kg	N	NS	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Trichloroethene (Trichloroethylene)	mg/kg	N	54	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Trichloroethene (Trichloroethylene)	ug/L	Y	54	--	--	--	--	--	20 U	--	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	mg/kg	N	NS	--	0.30 U	0.78 UJ	0.32 U	1.2 UJ	0.29 U	0.32 U	0.28 U	0.29 U	0.32 U	0.40 U	0.32 U	--	--	0.12 U	0.13 U	0.008 U	1.3 U	0.002 U	0.002 U	0.012 U	0.091 U	0.40 U	0.020 U	0.002 U	0.12 U	0.002 U	0.002 U	0.11 U	0.002 U	0.002 U
Vinyl chloride (Chloroethene)	mg/kg	N	7	--	0.15 U	0.39 UJ	0.16 U	0.62 UJ	0.15 U	0.16 U	0.14 U	0.15 U	0.16 U	0.20 U	0.16 U	--	--	0.061 U	0.063 U	0.004 U	0.65 U	0.001 U	0.001 U	0.006 U	0.045 U	0.20 U	0.010 U	0.001 U	0.062 U	0.001 U	0.001 U	0.055 U	0.001 U	0.001 U
Vinyl chloride (Chloroethene)	ug/L	Y	7	--	--	--	--	--	20 U	--	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene (total)	mg/kg	N	1000	--	15	0.59 J	24	0.62 UJ	2.0	200	14	1.2	0.67 J	0.20 U	31	2.2	24 J	2.1	3.2	0.078	720	0.053	0.19 J	15	3.1	17 J	2.7	0.001 U	7.4	0.003 J	0.14	0.42	0.16	0.016
Xylene (total)	ug/L	Y	1000	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 3
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	PAOC 46/73																															
			Location ID	S2829	S2829	S2829	S2830	S2830	S2830	S2832	S2832	S2832	S2832	S3881	S3881	S3881	S4332	S4332	S4332	S4333	S4333	S4333	S4334	S4334	S4334	S4334	S4335	S4335	S4335	S4337	S4337	S4337	S4337
			Field Sample ID	S2829A1	S2829B4	S2829C3	S2830A4	S2830C2	S2830H2	S2832A3	S2832B3	S2832E1	S2832G4	S3881A1	S3881A3	S3881G1	S4332A2	S4332B3	S4332E3	S4333A3	S4333B4	S4333E2	D06041513	S4334A3	S4334C4	S4334E2	S4335A4	S4335D1	S4335E2	D06031513	S4337A2	S4337B3	S4337E2
			Sample Depth	0 - 0.5	3.5 - 4	5 - 5.5	1.5 - 2	4.5 - 5	14.5 - 15	1 - 1.5	3 - 3.5	8 - 8.5	13.5 - 14	0 - 0.5	1 - 1.5	12 - 12.5	0.5 - 1	3 - 3.5	9 - 9.5	1 - 1.5	3.5 - 4	8.5 - 9	--	1 - 1.5	5.5 - 6	8.5 - 9	1.5 - 2	6 - 6.5	8.5 - 9	--	0.5 - 1	3 - 3.5	8.5 - 9
			Sample Date	10/25/2012	10/25/2012	10/25/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	08/16/2013	08/16/2013	08/16/2013	06/09/2015	06/09/2015	06/09/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG
Parameter Name	**Report Units**	**Leached**	**CMI Soil Criteria**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
1,1 Dichloroethene	mg/kg	N	150	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,1 Dichloroethene	ug/L	Y	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	N	1000	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,1,2,2-Tetrachloroethane	mg/kg	N	70	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	--	0.067 U	0.008 UJ	--	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,1,2-Trichloroethane	mg/kg	N	420	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,1,2-Trichlorotrifluoroethane (Freon 113)	mg/kg	N	NS	0.13 U	0.27 U	0.002 U	0.002 U	0.12 U	0.002 U	0.11 U	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 U	0.002 UJ	0.14 U	0.002 UJ	0.13 U	0.016 UJ	0.002 U	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
1,1-Dichloroethane	mg/kg	N	1000	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,2,4-Trichlorobenzene	mg/kg	N	1200	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	--	0.067 U	0.008 UJ	--	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	N	NS	0.13 U	0.27 U	0.002 U	0.002 U	0.12 U	0.002 U	0.11 U	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 U	0.002 UJ	0.14 U	--	0.13 U	0.016 UJ	--	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
1,2-Dibromoethane	mg/kg	N	NS	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	N	10000	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	--	0.067 U	0.008 UJ	--	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,2-Dichloroethane	mg/kg	N	24	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,2-Dichloroethane	ug/L	Y	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	N	43	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,3-Dichlorobenzene	mg/kg	N	10000	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	--	0.067 U	0.008 UJ	--	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
1,4-Dichlorobenzene	mg/kg	N	10000	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	--	0.067 U	0.008 UJ	--	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
2-Butanone (Methyl ethyl ketone)	mg/kg	N	1000	0.25 U	0.53 U	0.005 U	0.005 U	0.25 U	0.005 U	0.22 U	0.24 U	0.022 U	0.005 U	0.004 U	0.24 U	0.005 U	0.009 J	0.23 U	0.005 U	0.005 J	0.49 U	0.004 UJ	0.27 U	0.011 J	0.27 U	0.046 J	0.013	0.25 U	0.037 UJ	0.27 U	0.013	0.27 U	0.036 J
2-Butanone (Methyl ethyl ketone)	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	N	NS	0.19 U	0.40 U	0.004 U	0.004 U	0.19 U	0.004 U	0.17 U	0.18 U	0.017 U	0.004 U	0.003 U	12	0.003 U	0.003 U	0.17 U	0.004 U	0.003 U	0.37 U	0.003 UJ	0.20 U	0.003 UJ	0.20 U	0.024 UJ	0.004 U	0.19 U	0.028 UJ	0.21 U	0.003 U	0.20 U	0.026 UJ
4-Methyl-2-pentanone	mg/kg	N	1000	0.19 U	0.40 U	0.008 J	0.004 U	0.19 U	0.004 U	0.17 U	0.18 U	0.017 U	0.004 U	0.003 U	0.18 U	0.003 U	0.003 U	0.17 U	0.004 U	0.003 U	0.37 U	0.003 UJ	0.20 U	0.003 UJ	0.20 U	0.024 UJ	0.004 U	0.19 U	0.028 UJ	0.21 U	0.003 U	0.20 U	0.026 UJ
Acetone	mg/kg	N	1000	0.44 U	0.94 U	0.025	0.008 U	0.43 U	0.008 U	0.39 U	0.41 U	0.17	0.009 U	0.008 U	0.43 U	0.009 J	0.051	0.41 U	0.009 J	0.044	0.85 U	0.011 J	0.47 U	0.059 J	0.47 U	0.29 J	0.072	0.44 U	0.24 J	0.48 U	0.054	0.48 U	0.22 J
Benzene	mg/kg	N	13	0.19 J	1.7	0.0006 U	0.0006 U	1.1	0.0006 U	0.040 J	0.030 U	1.6	0.007	0.0005 U	0.72	0.002 J	0.006 J	0.65	0.0006 U	0.006	0.97	0.001 J	0.44 J	0.001 J	0.80 J	0.87 J	0.002 J	0.072 J	0.31 J	0.42	0.002 J	0.49	1.2 J
Benzene	ug/L	Y	500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	N	46	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Bromoform	mg/kg	N	370	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Bromomethane (Methyl bromide)	mg/kg	N	1000	0.13 U	0.27 U	0.002 U	0.002 U	0.12 U	0.002 U	0.11 U	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 UJ	0.002 UJ	0.14 UJ	0.002 UJ	0.13 UJ	0.016 UJ	0.002 U	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
Carbon disulfide	mg/kg	N	NS	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.036	0.004 J	0.001 U	0.061 U	0.004 J	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 J	0.068 U	0.001 UJ	0.067 U	0.042 J	0.001 U	0.062 U	0.017 J	0.068 U	0.001 J	0.068 U	0.051 J
Carbon Tetrachloride	mg/kg	N	4	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Carbon Tetrachloride	ug/L	Y	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	N	680	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Chlorobenzene	ug/L	Y	680	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	N	NS	0.13 U	0.27 U	0.002 U	0.002 U	0.12 U	0.002 U	0.11 U	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 UJ	0.002 UJ	0.14 UJ	0.002 UJ	0.13 UJ	0.016 UJ	0.002 U	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
Chloroform	mg/kg	N	28	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Chloroform	ug/L	Y	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	N	1000	0.13 U	0.27 U	0.002 U	0.002 U	0.12 U	0.002 U	0.11 U	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 U	0.002 UJ	0.14 U	0.002 UJ	0.13 U	0.016 UJ	0.002 U	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
cis-1,2-Dichloroethene	mg/kg	N	1000	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
cis-1,3-Dichloropropene	mg/kg	N	NS	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Cyclohexane	mg/kg	N	NS	0.87	9.0	0.033	0.001 U	1.3	0.002 J	2.5	5.8	1.0	0.004 J	0.001 U	4.9	0.001 U	0.001 U	0.38	0.003 J	0.001 U	11	0.005 J	0.53	0.001 UJ	0.69	0.029 J	0.001 J	2.2	0.009 UJ	9.4 J	0.069	5.1 J	0.023 J
Dibromochloromethane	mg/kg	N	1000	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Dichlorodifluoromethane (Freon 12)	mg/kg	N	NS	0.13 U	0.27 U	0.002 U	0.002 U	0.12 U	0.002 U	0.11 U	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 U	0.002 UJ	0.14 U	0.002 UJ	0.13 U	0.016 UJ	0.002 U	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
Ethylbenzene	mg/kg	N	1000	0.27 J	3.2	0.001 U	0.001 U	0.92	0.001 U	0.12 J	0.059 U	0.78	0.001 U	0.001 U	0.35	0.001 U	0.001 U	1.9	0.001 U	0.001 U	2.3	0.001 UJ	0.23 J	0.001 UJ	0.30 J	0.014 J	0.001 U	0.062 U	0.009 UJ	1.2	0.003 J	1.1	0.014 J
Ethylbenzene	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	N	NS	0.19 J	5.6	0.015	0.003 J	1.0	0.001 U	0.72	2.1	0.15	0.002 J	0.001 U	0.66	0.001 U	0.001 U	1.2	0.002 J	0.001 U	5.8	0.001 UJ	0.52	0.001 UJ	0.66	0.008 UJ	0.001 U	2.3	0.009 UJ	2.0	0.003 J	1.9	0.009 UJ
Methyl acetate	mg/kg	N	NS	0.29 J	0.42 J	0.002 U	0.002 U	0.12 U	0.002 U	0.15 J	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 U	0.002 UJ	0.14 U	0.002 UJ	0.13 U	0.016 UJ	0.002 U	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
Methyl-t-butyl ether	mg/kg	N	NS	0.031 U	0.067 U	0.0006 U	0.0006 U	0.031 U	0.0006 U	0.028 U	0.030 U	0.003 U	0.0006 U	0.0005 U	0.031 U	0.0006 U	0.0006 U	0.029 U	0.0006 U	0.0005 U	0.061 U	0.0005 UJ	0.034 U	0.0005 UJ	0.033 U	0.004 UJ	0.0006 U	0.031 U	0.005 UJ	0.034 U	0.0006 U	0.034 U	0.004 UJ
Methylcyclohexane	mg/kg	N	NS	2.1	29	0.063	0.15	4.2	0.002 J	11	22	0.75	0.004 J	0.001 U	16	0.002 J	0.001 U	0.96	0.001 J	0.001 U	27	0.001 UJ	3.8	0.005 J	4.2	0.008 UJ	0.002 J	7.1	0.009 UJ	22 J	0.023	15 J	0.015 J
Methylene chloride (Dichloromethane)	mg/kg	N	210	0.13 U	0.27 U	0.002 U	0.002 U	0.12 U	0.002 U	0.11 U	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 U	0.002 UJ	0.14 U	0.002 UJ	0.13 U	0.016 UJ	0.002 U	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
Styrene	mg/kg	N	97	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Tetrachloroethene	mg/kg	N	6	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Tetrachloroethene	ug/L	Y	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	N	1000	0.41	2.3	0.001 U	0.003 J	0.47	0.001 U	0.066 J	0.059 U	0.69	0.001 U	0.001 U	1.0	0.001 U	0.006 J	1.6	0.001 U	0.002 J	1.5	0.001 UJ	0.26 J	0.001 J	0.36	0.27 J	0.002 J	0.062 U	0.018 J	0.48	0.010	0.50	0.48 J
Toluene	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	N	1000	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
trans-1,3-Dichloropropene	mg/kg	N	NS	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Trichloroethene (Trichloroethylene)	mg/kg	N	54	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Trichloroethene (Trichloroethylene)	ug/L	Y	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	mg/kg	N	NS	0.13 U	0.27 U	0.002 U	0.002 U	0.12 U	0.002 U	0.11 U	0.12 U	0.011 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.12 U	0.002 U	0.002 U	0.24 U	0.002 UJ	0.14 U	0.002 UJ	0.13 U	0.016 UJ	0.002 U	0.12 U	0.019 UJ	0.14 U	0.002 U	0.14 U	0.017 UJ
Vinyl chloride (Chloroethene)	mg/kg	N	7	0.063 U	0.13 U	0.001 U	0.001 U	0.062 U	0.001 U	0.056 U	0.059 U	0.006 U	0.001 U	0.001 U	0.061 U	0.001 U	0.001 U	0.058 U	0.001 U	0.001 U	0.12 U	0.001 UJ	0.068 U	0.001 UJ	0.067 U	0.008 UJ	0.001 U	0.062 U	0.009 UJ	0.068 U	0.001 U	0.068 U	0.009 UJ
Vinyl chloride (Chloroethene)	ug/L	Y	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene (total)	mg/kg	N	1000	0.89	8.9	0.012	0.063	7.8	0.005 J	0.36	0.14 J	2.5	0.002 J	0.001 U	3.5	0.001 U	0.004 J	5.6	0.002 J	0.002 J	5.8	0.005 J	2.3	0.003 J	3.2	0.008 UJ	0.007	0.71	0.009 UJ	10	0.12	8.5	0.033 J
Xylene (total)	ug/L	Y	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 4
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	AOC 16A																												
			Location ID	SB-0252	SB-0253	SB-0254	SB-0255	SB-0256	SB-0256	SB-0257	SB-0264	SB-0265	SB-0267	SB-0268	SB-0277	SB-0278	SB-0279	S0490	S0491	S0492	S0493	S0494	S0844	S0844	S0844	S0837	S0837	S0837	S0883	S0884	S1793
			Field Sample ID	SB-0252S-C	SB0253-S-C	SB0254-S-C	SB0255-S-B	SB-0256-SC	SB0256-S-B	SB-0257-SB	SB-0264-SC	SB-0265-SC	SB-0267S-B	SB-0268S-B	SB-0277S-C	SB-0278S-C	SB-0279S-B	S0490A2	S0491B2	S0492B2	S0493B2	S0494B4	S0844A4	S0844C3	S0844G4	S0837A4	S0837C4	S0837G4	S0883D3	S0884C3	S1793D2
			Sample Depth	4 - 6	4 - 6	4 - 6	2 - 4	4 - 6	2 - 4	2 - 4	4 - 6	4 - 6	2 - 4	2 - 4	4 - 6	4 - 6	2 - 4	0.5 - 1	2.5 - 3	2.5 - 3	2.5 - 3	3.5 - 4	1.5 - 2	5 - 5.5	13.5 - 14	1.5 - 2	5.5 - 6.0	13.5 - 14	7 - 7.5	5 - 5.5	6.5 - 7
			Sample Date	09/19/1996	10/08/1996	10/08/1996	10/08/1996	10/10/1996	10/08/1996	10/10/1996	10/14/1996	10/14/1996	10/17/1996	10/17/1996	05/13/1997	05/13/1997	05/13/1997	08/13/1999	08/13/1999	08/13/1999	08/13/1999	09/01/1999	08/16/2002	08/16/2002	08/16/2002	08/28/2002	08/28/2002	08/28/2002	11/25/2002	11/12/2002	04/23/2004
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Leached	CMI Soil Criteria	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1-Methyl-naphthlalene	mg/kg	N	NS	0.38 U	0.23	0.38 U	0.16	0.39 U	0.4 U	0.096	0.33 U	0.41 U	0.22	0.18	0.76	0.32	0.41 U	0.2	0.39	0.14	0.51	2.3	-	-	-	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	N	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
2,4,6-Trichlorophenol	mg/kg	N	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
2,4-Dichlorophenol	mg/kg	N	3100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
2,4-Dimethylphenol	mg/kg	N	10000	0.38 U	0.039	0.38 U	0.062	0.39 U	0.4 U	0.053	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.044	0.11 U	0.13 U	1.2 U	0.20 U	0.038 U	0.037 U	0.13 J	0.20 U	0.040 U	0.20 U	0.26 J	--
2,4-Dinitrophenol	mg/kg	N	2100	0.75 U	0.76 U	0.76 U	0.76 U	0.78 U	0.8 U	0.81 U	0.66 U	0.82 U	0.87 U	0.78 U	0.72 U	0.8 U	0.81 U	0.78 U	0.73 U	0.72 U	0.83 U	8 U	3.8 U	0.77 U	0.74 U	0.73 U	3.9 U	0.82 U	3.9 U	0.79 U	--
2,4-Dinitrotoluene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
2,6-Dinitrotoluene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
2-Chloronaphthalene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
2-Chlorophenol (o-Chlorophenol)	mg/kg	N	5200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
2-Methyl-Naphthlalene	mg/kg	N	NS	0.38 U	0.44	0.38 U	0.26	0.39 U	0.4 U	0.06	0.33 U	0.41 U	0.32	0.45	1.4	0.38	0.081	0.14	0.39	0.26	0.28	1.1	0.20 U	0.25 J	0.037 U	0.22 J	23	0.040 U	6.1	--	--
2-Methylphenol (o-Cresol)	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.15	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.043	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
2-Nitroaniline (o-Nitroaniline)	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
2-Nitrophenol (o-Nitrophenol)	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
3 & 4-Methylphenol	mg/kg	N	NS	0.38 U	0.38 U	0.38 U	0.11	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	--	--	--	--	--	-	-	-	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	N	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
3-Nitroaniline	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.20 U	0.19 U	0.18 U	1.0 U	0.21 U	1.0 U	0.20 U	--
4-Bromophenylphenylether	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				--	--	--	--	--	--
4-Chloroaniline	mg/kg	N	4200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
4-Chlorophenyl phenyl ether	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
4-Methylphenol (p-Cresol)	mg/kg	N	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
4-Nitroaniline	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
4-Nitrophenol	mg/kg	N	NS	0.75 U	0.76 U	0.76 U	0.76 U	0.78 U	0.8 U	0.81 U	0.66 U	0.82 U	0.87 U	0.78 U	0.1	0.8 U	0.042	0.78 U	0.73 U	0.72 U	0.83 U	8 U	1.0 U	0.20 U	0.19 U	0.18 U	1.0 U	0.21 U	1.0 U	0.20 U	--
6-Methylchrysene	mg/kg	N	NS	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	-	-	-	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	mg/kg	N	NS	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	-	-	-	--	--	--	--	--	--
Acenaphthene	mg/kg	N	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.32 J	0.62	0.037 U	0.12 J	20	0.040 U	0.52 J	0.50	--
Acenaphthylene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 J	0.20 J	0.037 U	0.19 J	0.20 U	0.040 U	0.20 U	0.039 U	--
Acetophenone	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
Anthracene	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.097	0.33 U	0.41 U	0.66	0.044	0.36 U	0.4 U	0.044	0.065	1.1	1.7	0.2	0.77	0.51 J	1	0.037 U	0.20 J	14	0.040 U	0.23 J	0.20 J	--
Atrazine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
Benzaldehyde	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
Benzenethiol	mg/kg	N	NS	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	-	-	-	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	N	4	0.38 U	0.38 U	0.38 U	0.26	0.06	0.4 U	0.16	0.33 U	0.41 U	1.90	0.04	0.36 U	0.10	0.07	0.09	1.30	2.20	0.36	1.2 U	1.7 J	1.50	0.037 U	0.40	**31**	0.040 U	0.20 U	0.058 J	--
Benzo(a)pyrene	mg/kg	N	10	0.38 U	0.38 U	0.38 U	0.33	0.07	0.4 U	0.17	0.33 U	0.41 U	1.60	0.39 U	0.36 U	0.13	0.05	0.06	1.00	1.20	0.23	1.2 U	1.5 J	1.70	0.037 U	0.62	**27**	0.040 U	0.20 U	0.039 U	--
Benzo(b)fluoranthene	mg/kg	N	4	0.38 U	0.38 U	0.38 U	0.45	0.08	0.4 U	0.24	0.33 U	0.41 U	1.80	0.04	0.36 U	0.20	0.08	0.12 U	1.00	1.80	0.53	1.2 U	2.10	2.1 J	0.037 U	0.46	**26**	0.040 U	0.20 U	0.043 J	--
Benzo(g,h,i)perylene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.46 J	0.66	0.037 U	0.74	8.4	0.040 U	0.20 U	0.039 U	--
Benzo(k)fluoranthene	mg/kg	N	4	0.38 U	0.38 U	0.38 U	0.22	0.39 U	0.4 U	0.083	0.33 U	0.41 U	0.94	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.74	0.53	0.26	1.2 U	1.6 J	1.9 J	0.037 U	0.11 J	**13**	0.040 U	0.20 U	0.039 U	--
bis(2-Chloroethoxy)methane	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
bis(2-Chloroethyl) ether	mg/kg	N	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
bis(2-chloroisopropyl) ether	mg/kg	N	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
bis(2-Ethylhexyl)phthalate	mg/kg	N	210	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.047	0.049	0.073	0.1	0.065	0.12 U	0.11 U	0.11 U	0.13 U	1.3	0.38 U	0.14 J	0.074 U	0.17 J	0.39 U	0.082 U	0.39 U	0.11 J	--
Bromofluorobenzene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.038 U	0.037 U	--	--	--	--	--	--
Butylbenzylphthalate	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
Caprolactam	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
Carbazole	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.56	0.037 U	0.036 U	4.4	0.040 U	0.20 U	0.039 U	--
Chrysene	mg/kg	N	230	0.38 U	0.38 U	0.38 U	0.30	0.05	0.4 U	0.18	0.33 U	0.41 U	1.70	0.39 U	0.36 U	0.12	0.07	0.11	1.70	2.20	0.55	1.10	1.7 J	1.80	0.037 U	0.95	30	0.04 U	0.27 J	0.12 J	--
Di-n-butylphthalate	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.061	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.063	0.049	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
Di-n-octylphthalate	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
Dibenz(a,h)anthracene	mg/kg	N	0.66	0.38 U	0.38 U	0.38 U	0.062	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.22	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.13	0.13 U	1.2 U	0.21 J	0.23 J	0.037 U	0.19 J	**3.2**	0.040 U	0.20 U	0.039 U	--
Dibenzo(a,h)acridine	mg/kg	N	NS	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.058	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	-	-	-	--	--	--	--	--	--
Dibenzofuran	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.51	0.037 U	0.036 U	0.20 U	0.040 U	0.55 J	0.039 U	--
Diethylphthalate	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.31	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
Dimethyl phthalate	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
Diphenyl (Biphenyl, Phenyl benzene)	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.080 J	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
Fluoranthene	mg/kg	N	10000	0.38 U	0.039	0.38 U	0.48	0.073	0.4 U	0.32	0.33 U	0.41 U	2.6	0.082	0.053	0.17	0.15	0.083	1.3	2.7	0.44	0.98	4.4	4.1	0.037 U	0.25 J	44	0.040 U	0.36 J	0.10 J	--
Fluorene	mg/kg	N	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.40 J	0.7	0.037 U	0.11 J	8.4	0.040 U	1.2 J	0.99	--
Hexachlorobenzene	mg/kg	N	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
Hexachlorobutadiene	mg/kg	N	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
Hexachlorocyclopentadiene	mg/kg	N	7300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.20 U	0.19 U	0.18 U	1.0 U	0.21 U	1.0 U	0.20 U	--
Hexachloroethane	mg/kg	N	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
Indene	mg/kg	N	NS	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	-	-	-	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	mg/kg	N	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.59 J	0.79	0.037 U	0.34 J	**11**	0.040 U	0.20 U	0.039 U	--
Isophorone	mg/kg	N	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
N-Nitrosodi-n-propylamine	mg/kg	N	0.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
N-Nitrosodiphenylamine (Diphenylamine)	mg/kg	N	600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
Naphthalene	mg/kg	N	17	0.38 U	0.52	0.38 U	0.15	0.39 U	0.4 U	0.05	0.33 U	0.41 U	0.43 U	1.1	2.2	0.27	0.13	0.066	0.59	0.24	0.34	1.2 U	0.20 U	0.58	0.037 U	0.077 J	7.1	0.040 U	0.58 J	0.039 U	--
Naphthalene	mg/L	Y	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				--	--	--		--	0.013
Nitrobenzene	mg/kg	N	520	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
p-Chloro-m-cresol	mg/kg	N	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 U	0.077 U	0.074 U	0.073 U	0.39 U	0.082 U	0.39 U	0.079 U	--
Pentachlorophenol	mg/kg	N	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.20 U	0.19 U	0.18 U	1.0 U	0.21 U	1.0 U	0.20 U	--
Phenanthrene	mg/kg	N	NS	0.047	0.061	0.38 U	0.38 U	0.044	0.4 U	0.29	0.33 U	0.41 U	1.8	0.16	0.067	0.16	0.17	0.35	3.6	4.2	1	4.3	1.1 J	5.4	0.037 U	0.21 J	40	0.040 U	1.8 J	2.2	--
Phenol	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.11	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	0.20 U	0.038 U	0.037 U	0.036 U	0.20 U	0.040 U	0.20 U	0.039 U	--
Pyrene	mg/kg	N	10000	0.38 U	0.38 U	0.38 U	0.5	0.1	0.4 U	0.4	0.33 U	0.41 U	2.4	0.1	0.0	0.2	0.1	0.3	4.5	3.7	1.5	1.9	4.0	4.4	0.037 U	1.3	48	0.04 U	0.39 J	0.096 J	--
Pyridine	mg/kg	N	NS	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.11 U	0.13 U	1.2 U	-	-	-	--	--	--	--	--	--
Quinoline	mg/kg	N	NS	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.33 U	0.41 U	0.43 U	0.39 U	0.36 U	0.4 U	0.41 U	0.12 U	0.11 U	0.037	0.13 U	1.2 U	-	-	-	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 4
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	AOC 16A																												
			Location ID	S2161	S2161	S2162	S3282	S3282	S3282	S3283	S3283	S3283	S4167	S4167	S4168	S4168	S4171	S4171	S4293	S4293	S4293	S5031	S5031	S5031	S5035	S5035	S5035	S5742	S5742	S5742
			Field Sample ID	D1018065	S2161D1	S2162B1	S3282A3	S3282F1	S3282G1	S3283A2	S3283C4	S3283G1	S4167E2	S4167G4	S4168F1	S4168H2	S4171D3	S4171H1	D04111412	S4293F3	S4293G4	S5031A3	S5031H1	S5031J2	S5035B4	S5035H1	S5035H4	S5742C3	S5742C4	S5742D1
			Sample Depth	--	6 - 6.5	2 - 2.5	1 - 1.5	10 - 10.5	12 - 12.5	0.5 - 1	5.5 - 6	12 - 12.5	8.5 - 9	13.5 - 14	10 - 10.5	14.5 - 15	7 - 7.5	14 - 14.5	13.5 - 14	11 - 11.5	13.5 - 14	1 - 1.5	14 - 14.5	18.5 - 19	3.5 - 4	14 - 14.5	15.5 - 16	5 - 5.5	5.5 - 6	6 - 6.5
			Sample Date	10/18/2006	10/18/2006	10/18/2006	04/04/2013	04/04/2013	04/04/2013	03/27/2013	03/29/2013	03/29/2013	05/01/2014	05/01/2014	05/02/2014	05/02/2014	05/01/2014	05/01/2014	04/11/2014	04/11/2014	04/11/2014	12/04/2015	12/04/2015	12/04/2015	12/03/2015	12/03/2015	12/03/2015	06/05/2018	06/05/2018	06/05/2018
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Leached	CMI Soil Criteria	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1-Methyl-naphthlalene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	N	10000	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
2,4,6-Trichlorophenol	mg/kg	N	270	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
2,4-Dichlorophenol	mg/kg	N	3100	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.8 J	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
2,4-Dimethylphenol	mg/kg	N	10000	--	--	--	0.018 U	1.5	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
2,4-Dinitrophenol	mg/kg	N	2100	--	--	--	0.33 U	1.7 U	0.36 U	0.35 U	3.5 U	0.36 U	7.5 U	0.35 U	20 U	0.36 U	1.8 U	0.36 U	0.36 U	22 U	0.34 U	0.33 U	3.7 U	0.34 U	0.32 U	2.8 U	0.36 U	--	--	--
2,4-Dinitrotoluene	mg/kg	N	NS	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
2,6-Dinitrotoluene	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
2-Chloronaphthalene	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.008 U	0.040 U	0.009 U	0.008 U	0.082 U	0.008 U	0.18 U	0.008 U	0.46 U	0.008 U	0.041 U	0.008 U	0.008 U	0.51 U	0.008 U	0.007 U	0.082 U	0.008 U	0.007 U	0.062 U	0.008 U	--	--	--
2-Chlorophenol (o-Chlorophenol)	mg/kg	N	5200	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
2-Methyl-Naphthlalene	mg/kg	N	NS	2.1 J	2.3 J	8.9 J	0.008 J	12	0.009 J	0.87	0.52	0.004 U	8.5	0.005 J	0.22 U	0.004 U	1.6	0.004 U	0.004 U	31	0.004 U	0.004 U	2.6	0.004 U	0.004 U	0.71	0.05	--	--	--
2-Methylphenol (o-Cresol)	mg/kg	N	10000	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
2-Nitroaniline (o-Nitroaniline)	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
2-Nitrophenol (o-Nitrophenol)	mg/kg	N	NS	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
3 & 4-Methylphenol	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	N	6	6.0 U	6.0 U	5.7 U	0.11 U	0.57 U	0.12 U	0.12 U	1.2 U	0.12 U	2.5 U	0.12 U	6.5 U	0.12 U	0.58 U	0.12 U	0.12 U	7.3 U	0.11 U	0.11 U	1.2 U	0.11 U	0.11 U	0.93 U	0.12 U	--	--	--
3-Nitroaniline	mg/kg	N	NS	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	mg/kg	N	NS	--	--	--	0.18 U	0.95 U	0.20 U	0.19 U	1.9 U	0.20 U	4.2 U	0.19 U	11 U	0.20 U	0.97 U	0.20 U	0.20 U	12 U	0.19 U	0.18 U	2 U	0.19 U	0.18 U	1.5 U	0.2 U	--	--	--
4-Bromophenylphenylether	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
4-Chloroaniline	mg/kg	N	4200	4.0 U	4.0 U	3.8 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.037 U	0.41 U	0.038 U	0.036 U	0.31 U	0.04 U	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
4-Methylphenol (p-Cresol)	mg/kg	N	10000	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
4-Nitroaniline	mg/kg	N	NS	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
4-Nitrophenol	mg/kg	N	NS	--	--	--	0.18 U	0.95 U	0.20 U	0.19 U	1.9 U	0.20 U	4.2 U	0.19 U	11 U	0.20 U	0.97 U	0.20 U	0.20 U	12 U	0.19 U	0.18 U	2 U	0.19 U	0.18 U	1.5 U	0.2 U	--	--	--
6-Methylchrysene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	N	10000	2.0 U	2.0 U	1.9 U	0.011 J	2.4	0.004 U	0.31	0.28	0.004 U	0.083 U	0.004 U	0.22 U	0.004 U	0.019 U	0.004 U	0.004 U	4.1	0.004 U	0.004 U	0.94	0.004 U	0.064	0.42	0.029	--	--	--
Acenaphthylene	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.007 J	0.019 U	0.004 U	0.18	0.24	0.004 U	0.083 U	0.004 U	0.22 U	0.004 U	0.019 U	0.004 U	0.004 U	0.24 U	0.004 U	0.004 U	0.041 U	0.004 U	0.004 U	0.031 U	0.01 J	--	--	--
Acetophenone	mg/kg	N	NS	4.0 U	4.0 U	3.8 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
Anthracene	mg/kg	N	10000	2.0 U	2.0 U	2.9 J	0.038	2.1	0.004 J	0.21	0.12 J	0.004 U	2.2	0.005 J	5.3	0.004 U	0.14	0.004 U	0.004 U	5.7	0.008 J	0.004 U	1.2	0.004 U	0.029	0.51	0.036	--	--	--
Atrazine	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.036 U	0.19 U	0.041 U	0.038 U	0.39 U	0.040 U	0.83 U	0.039 U	2.2 U	0.039 U	0.19 U	0.039 U	0.040 U	2.4 U	0.038 U	0.037 U	0.41 U	0.038 U	0.036 U	0.31 U	0.04 U	--	--	--
Benzaldehyde	mg/kg	N	NS	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
Benzenethiol	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	N	4	2.0 U	2.0 U	2.8 J	0.033	1.7	0.007 J	0.28	0.077 J	0.004 U	1.9	0.004 U	0.22 U	0.004 U	0.019 U	0.004 U	0.006 J	3.3	0.010 J	0.004 U	0.55	0.004 U	0.007 J	0.21	0.017 J	--	--	--
Benzo(a)pyrene	mg/kg	N	10	2.0 U	2.0 U	2.1 J	0.015 J	1.4	0.004 J	0.26	0.039 U	0.004 U	1.5	0.004 U	2.2	0.004 U	0.019 U	0.004 U	0.004 U	2.4	0.01 J	0.004 U	0.45	0.004 U	0.006 J	0.13 J	0.014 J	0.21	0.039 U	0.008 U
Benzo(b)fluoranthene	mg/kg	N	4	2.0 U	2.0 U	1.9 U	0.029	0.92	0.004 U	0.25	0.063 J	0.004 U	0.88	0.004 U	0.22 U	0.004 U	0.019 U	0.004 U	0.011 J	2.1	0.015 J	0.004 U	0.37	0.004 U	0.008 J	0.1 J	0.011 J	--	--	--
Benzo(g,h,i)perylene	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.010 J	1.1	0.004 U	0.24	0.039 U	0.004 U	1.1	0.004 U	0.93 J	0.004 U	0.019 U	0.004 U	0.004 U	2.0	0.004 U	0.004 U	0.33	0.004 U	0.004 U	0.082 J	0.011 J	--	--	--
Benzo(k)fluoranthene	mg/kg	N	4	2.0 U	2.0 U	1.9 U	0.014 J	0.29	0.004 U	0.11	0.039 U	0.004 U	0.083 U	0.004 U	0.22 U	0.004 U	0.019 U	0.004 U	0.009 J	1.1 J	0.004 U	0.004 U	0.14 J	0.004 U	0.004 J	0.048 J	0.004 J	--	--	--
bis(2-Chloroethoxy)methane	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
bis(2-Chloroethyl) ether	mg/kg	N	3	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
bis(2-chloroisopropyl) ether	mg/kg	N	10000	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
bis(2-Ethylhexyl)phthalate	mg/kg	N	210	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.086 J	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
Bromofluorobenzene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	mg/kg	N	10000	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
Caprolactam	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.036 U	0.19 U	0.041 U	0.038 U	0.39 U	0.040 U	0.83 U	0.039 U	2.2 U	0.039 U	0.19 U	0.039 U	0.040 U	2.4 U	0.038 U	0.037 U	0.41 U	0.038 U	0.036 U	1.1 J	0.09 J	--	--	--
Carbazole	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
Chrysene	mg/kg	N	230	2 U	2 U	4.3 J	0.035	3.5	0.009 J	0.43	0.31	0.004 U	3.2	0.004 U	5.0 J+	0.004 U	0.019 U	0.004 U	0.010 J	7.1	0.017 J	0.004 U	1.1	0.004 U	0.008 J	0.36	0.033	--	--	--
Di-n-butylphthalate	mg/kg	N	10000	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
Di-n-octylphthalate	mg/kg	N	10000	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
Dibenz(a,h)anthracene	mg/kg	N	0.66	2.0 U	2.0 U	1.9 U	0.004 U	0.27	0.004 U	0.065	0.039 U	0.004 U	0.083 U	0.004 U	0.22 U	0.004 U	0.019 U	0.004 U	0.004 U	**1.1 J**	0.004 U	0.004 U	0.12 J	0.004 U	0.004 U	0.043 J	0.004 U	--	--	--
Dibenzo(a,h)acridine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.094	0.15 U	0.02 U	--	--	--
Diethylphthalate	mg/kg	N	10000	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
Dimethyl phthalate	mg/kg	N	10000	4.0 U	4.0 U	3.8 U	0.073 U	0.38 U	0.081 U	0.077 U	0.78 U	0.079 U	1.7 U	0.078 U	4.4 U	0.079 U	0.39 U	0.079 U	0.081 U	4.8 U	0.076 U	0.073 U	0.82 U	0.075 U	0.072 U	0.62 U	0.08 U	--	--	--
Diphenyl (Biphenyl, Phenyl benzene)	mg/kg	N	NS	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
Fluoranthene	mg/kg	N	10000	2.0 U	2.0 U	4.9 J	0.19	1.6	0.004 U	0.46	0.16 J	0.004 U	1.8	0.004 J	2.4	0.004 U	0.096 J	0.004 U	0.005 J	3.1	0.011 J	0.004 U	0.76	0.004 U	0.05	0.31	0.026	--	--	--
Fluorene	mg/kg	N	10000	2.0 J	2.4 J	3.0 J	0.004 J	3.0	0.004 U	0.40	0.54	0.004 U	4.0	0.004 U	12	0.004 U	0.47	0.004 U	0.004 U	8.5	0.004 U	0.004 U	1.2	0.004 U	0.051	0.58	0.04	--	--	--
Hexachlorobenzene	mg/kg	N	2	2.0 U	2.0 U	1.9 U	0.004 U	0.019 U	0.004 U	0.004 U	0.039 U	0.004 U	0.083 U	0.004 U	0.22 U	0.004 U	0.019 U	0.004 U	0.004 U	0.24 U	0.004 U	0.004 U	0.041 U	0.004 U	0.004 U	0.031 U	0.004 U	--	--	--
Hexachlorobutadiene	mg/kg	N	21	4.0 U	4.0 U	3.8 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
Hexachlorocyclopentadiene	mg/kg	N	7300	10 U	10 U	9.5 U	0.18 U	0.95 U	0.20 U	0.19 U	1.9 U	0.20 U	4.2 U	0.19 U	11 U	0.20 U	0.97 U	0.20 U	0.20 U	12 U	0.19 U	0.18 U	2 U	0.19 U	0.18 U	1.5 U	0.2 U	--	--	--
Hexachloroethane	mg/kg	N	100	2.0 U	2.0 U	1.9 U	0.036 U	0.19 U	0.041 U	0.038 U	0.39 U	0.040 U	0.83 U	0.039 U	2.2 U	0.039 U	0.19 U	0.039 U	0.040 U	2.4 U	0.038 U	0.037 U	0.41 U	0.038 U	0.036 U	0.31 U	0.04 U	--	--	--
Indene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	mg/kg	N	4	2.0 U	2.0 U	1.9 U	0.011 J	0.44	0.004 U	0.13	0.039 U	0.004 U	0.33 J	0.004 U	0.22 U	0.004 U	0.019 U	0.004 U	0.004 U	0.61 J	0.004 U	0.004 U	0.17 J	0.004 U	0.004 U	0.044 J	0.007 J	--	--	--
Isophorone	mg/kg	N	10000	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
N-Nitrosodi-n-propylamine	mg/kg	N	0.66	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
N-Nitrosodiphenylamine (Diphenylamine)	mg/kg	N	600	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
Naphthalene	mg/kg	N	17	0.15 U	0.50 J	2.1	0.007 J	1.9	0.004 U	0.13	0.039 U	0.004 U	0.083 U	0.004 U	0.22 U	0.004 U	0.63	0.004 U	0.004 U	6.0	0.004 U	0.004 U	0.98	0.004 U	0.004 U	0.47	0.029	--	--	--
Naphthalene	mg/L	Y	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	N	520	2.0 U	2.0 U	1.9 U	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
p-Chloro-m-cresol	mg/kg	N	10000	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.15 U	0.02 U	--	--	--
Pentachlorophenol	mg/kg	N	24	--	--	--	0.036 U	0.19 U	0.041 U	0.038 U	0.39 U	0.040 U	0.83 U	0.039 U	2.2 U	0.039 U	0.19 U	0.039 U	0.040 U	2.4 U	0.038 U	0.037 U	0.41 U	0.038 U	0.036 U	0.31 U	0.04 U	--	--	--
Phenanthrene	mg/kg	N	NS	4.4 J	4.9 J	8.0 J	0.066	8.6	0.012 J	0.84	1.1	0.009 J	6.5	0.013 J	21	0.004 U	0.87	0.004 U	0.004 U	21	0.008 J	0.004 U	2.5	0.004 U	0.038	0.98	0.071	--	--	--
Phenol	mg/kg	N	10000	--	--	--	0.018 U	0.095 U	0.020 U	0.019 U	0.19 U	0.020 U	0.42 U	0.019 U	1.1 U	0.020 U	0.097 U	0.020 U	0.020 U	1.2 U	0.019 U	0.018 U	0.2 U	0.019 U	0.018 U	0.96	0.033 J	--	--	--
Pyrene	mg/kg	N	10000	3.3 J	3.7 J	8.8 J	0.15	4.4	0.011 J	0.83	0.24	0.004 U	5.0	0.012 J	12	0.004 U	0.11	0.004 U	0.004 U	11	0.013 J	0.004 U	1.7	0.004 U	0.043	0.83	0.07	--	--	--
Pyridine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Quinoline	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 4
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	SWMU 51																											
			Location ID	SB-0264	S0491	S0754	S0754	S0754	S0754	S0755	S0755	S0755	S0901	S1788	S1789	S2573	S2573	S2574	S2574	S2575	S2575	S2576	S2576	S2576	S2577	S2577	S2578	S2578	S2899	S2900	S2900
			Field Sample ID	SB-0264-SC	S0491B2	S0754A2	S0754A4	S0754B3	S0754F3	S0755A4	S0755C2	S0755F3	S0901C2	S1788E1	S1789	S2573B1	S2573C1	S2574B1	S2574C1	S2575B2	S2575B4	D1011073	S2576B4	S2576C2	S2577B2	S2577C2	S2578B2	S2578C2	S2899A4	D1011123	S2900A4
			Sample Depth	4 - 6	2.5 - 3	0.5 - 1	1.5 - 2	3 - 3.5	11.0 - 11.5	1.5 - 2	4.5 - 5	11 - 11.5	4.5 - 5	8.0 - 8.5	3.5 - 4	2 - 2.5	4 - 4.5	2 - 2.5	4 - 4.5	2.5 - 3	3.5 - 4		3.5 - 4	4.5 - 5	2.5 - 3	4.5 - 5	2.5 - 3	4.5 - 5	1.5 - 2		1.5 - 2
			Sample Date	10/14/1996	08/13/1999	07/11/2002	07/11/2002	07/11/2002	07/11/2002	07/10/2002	07/10/2002	07/10/2002	11/18/2002	03/24/2004	03/25/2004	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/12/2007	10/12/2007	10/12/2012	10/11/2012	10/11/2012
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name	Report Units	Leached	CMI Soil Criteria	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1-Methyl-naphthlalene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	N	10000	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.19 U	0.19 U	0.098 U
2,4,6-Trichlorophenol	mg/kg	N	270	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
2,4-Dichlorophenol	mg/kg	N	3100	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
2,4-Dimethylphenol	mg/kg	N	10000	0.33 U	0.044	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.60	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.19 U	0.19 U	0.098 U
2,4-Dinitrophenol	mg/kg	N	2100	0.66 U	0.73 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.75 U	0.77 U	0.79 U	0.76 U	0.80 U	0.71 U	0.71 U	0.77 U	0.81 U	4.6 U	8.5 U	0.86 U	0.75 U	0.81 U	0.73 U	7.3 U	3.3 U	3.4 U	1.8 U
2,4-Dinitrotoluene	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.74 U	0.76 U	0.39 U
2,6-Dinitrotoluene	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
2-Chloronaphthalene	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.078 U	0.080 U	0.041 U
2-Chlorophenol (o-Chlorophenol)	mg/kg	N	5200	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
2-Methyl-Naphthlalene	mg/kg	N	NS	0.33 U	0.39	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.061 J	0.040 U	0.10 J	0.036 U	0.038 U	0.040 U	0.23 U	7.6	0.043 U	0.086 J	0.12 J	0.036 U	7.1	0.037 U	0.088 J	0.069 J
2-Methylphenol (o-Cresol)	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.19 U	0.19 U	0.098 U
2-Nitroaniline (o-Nitroaniline)	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
2-Nitrophenol (o-Nitrophenol)	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
3 & 4-Methylphenol	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	N	6	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.11 U	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.69 U	1.3 U	0.13 U	0.11 U	0.12 U	0.11 U	1.1 U	1.1 U	1.1 U	0.59 U
3-Nitroaniline	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.74 U	0.76 U	0.39 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.18 U	0.18 U	0.19 U	0.20 U	1.1 U	2.1 U	0.21 U	0.19 U	0.20 U	0.18 U	1.8 U	1.8 U	1.9 U	0.98 U
4-Bromophenylphenylether	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	--	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
4-Chloroaniline	mg/kg	N	4200	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.19 U	0.19 U	0.098 U
4-Chlorophenyl phenyl ether	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
4-Methylphenol (p-Cresol)	mg/kg	N	10000	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.19 U	0.19 U	0.098 U
4-Nitroaniline	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.74 U	0.76 U	0.39 U
4-Nitrophenol	mg/kg	N	NS	0.66 U	0.73 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.18 U	0.18 U	0.19 U	0.20 U	1.1 U	2.1 U	0.21 U	0.19 U	0.20 U	0.18 U	1.8 U	1.8 U	1.9 U	0.98 U
6-Methylchrysene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	N	10000	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	12	0.043 U	0.046 J	0.041 U	0.036 U	35	0.037 U	0.038 U	0.021 J
Acenaphthylene	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.11 J	0.038 U	0.040 U	0.057 J	0.036 U	0.038 U	0.040 U	0.33 J	3.3	0.043 U	0.041 J	0.041 U	0.036 U	0.36 U	0.037 U	0.038 U	0.028 J
Acetophenone	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.19 U	0.19 U	0.098 U
Anthracene	mg/kg	N	10000	0.33 U	1.1	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.052 J	0.20 J	0.065 J	0.19 J	0.040 U	0.069 J	0.036 U	0.038 U	0.040 U	0.41 J	23	0.043 U	0.10 J	0.086 J	0.036 U	38	0.037 U	0.068 J	0.055 J
Atrazine	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.37 U	0.38 U	0.20 U
Benzaldehyde	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.063 J	0.040 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.74 U	0.76 U	0.39 U
Benzenethiol	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	N	4	0.33 U	1.3	0.363 U	0.363 U	1.05	0.412 U	1.65 U	0.403 U	0.375 U	0.056 J	0.039 U	0.080 J	0.60	0.040 U	0.091 J	0.036 U	0.046 J	0.040 U	1.4	**28**	0.043 U	0.18 J	0.14 J	0.052 J	**79**	0.037 U	0.22	0.16
Benzo(a)pyrene	mg/kg	N	10	0.33 U	1	0.363 U	0.363 U	1.01	0.412 U	1.65 U	0.403 U	0.375 U	0.082 J	0.039 U	0.051 J	0.42	0.040 U	0.14 J	0.036 U	0.055 J	0.040 U	1.4	**22**	0.043 U	0.18 J	0.14 J	0.058 J	**80**	0.049 J	0.21	0.15
Benzo(b)fluoranthene	mg/kg	N	4	0.33 U	1	0.363 U	0.363 U	1.46	0.412 U	0.495	0.403 U	0.375 U	0.079 J	0.039 U	0.12 J	0.56	0.040 U	0.17 J	0.036 U	0.071 J	0.040 U	1.8	**26**	0.043 U	0.23	0.16 J	0.093 J	**91**	0.052 J	0.30	0.23
Benzo(g,h,i)perylene	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.052 J	0.039 U	0.073 J	0.30	0.040 U	0.21	0.036 U	0.056 J	0.040 U	1.2	13	0.043 U	0.17 J	0.12 J	0.058 J	55	0.039 J	0.12 J	0.12
Benzo(k)fluoranthene	mg/kg	N	4	0.33 U	0.74	0.363 U	0.363 U	0.486	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.061 J	0.25	0.040 U	0.058 J	0.036 U	0.038 U	0.040 U	0.69 J	**10**	0.043 U	0.095 J	0.078 J	0.036 U	**30**	0.037 U	0.12 J	0.078 J
bis(2-Chloroethoxy)methane	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
bis(2-Chloroethyl) ether	mg/kg	N	3	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
bis(2-chloroisopropyl) ether	mg/kg	N	10000	--	--	--	--	--	--	--	--	--	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
bis(2-Ethylhexyl)phthalate	mg/kg	N	210	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.19 U	0.20 U	0.12 J	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.16 J	0.73 U	0.74 U	0.76 U	0.39 U
Bromofluorobenzene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.074 J	0.73 U	0.74 U	0.76 U	0.39 U
Caprolactam	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.37 U	0.38 U	0.20 U
Carbazole	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.12 J	0.040 U	0.086 J	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	8.7	0.043 U	0.037 U	0.041 U	0.036 U	22	0.19 U	0.19 U	0.098 U
Chrysene	mg/kg	N	230	0.33 U	1.7	0.363 U	0.363 U	1.38	0.412 U	0.33	0.403 U	0.375 U	0.065 J	0.039 J	0.064 J	0.72	0.04 U	0.14 J	0.036 U	0.061 J	0.054 J	2.8	25	0.043 U	0.27	0.17 J	0.15 J	83	0.073 J	0.25	0.19
Di-n-butylphthalate	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.74 U	0.76 U	0.39 U
Di-n-octylphthalate	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.74 U	0.76 U	0.39 U
Dibenz(a,h)anthracene	mg/kg	N	0.66	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.10 J	0.040 U	0.050 J	0.036 U	0.038 U	0.040 U	0.39 J	**3.5**	0.043 U	0.047 J	0.041 U	0.036 U	**13**	0.037 U	0.038 U	0.037 J
Dibenzo(a,h)acridine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.045 J	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	9.9	0.043 U	0.044 J	0.041 U	0.036 U	16	0.19 U	0.19 U	0.098 U
Diethylphthalate	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.74 U	0.76 U	0.39 U
Dimethyl phthalate	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.74 U	0.76 U	0.39 U
Diphenyl (Biphenyl, Phenyl benzene)	mg/kg	N	NS	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	1.6 J	0.043 U	0.037 U	0.041 U	0.036 U	2.1	0.19 U	0.19 U	0.098 U
Fluoranthene	mg/kg	N	10000	0.33 U	1.3	0.363 U	0.363 U	2.32	0.412 U	0.66	0.403 U	0.375 U	0.10 J	0.10 J	0.24 J	1.4	0.040 U	0.14 J	0.036 U	0.089 J	0.040 U	2.9	63	0.043 U	0.41	0.31	0.11 J	140	0.045 J	0.46	0.36
Fluorene	mg/kg	N	10000	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.067 J	0.040 U	0.038 J	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	13	0.043 U	0.051 J	0.048 J	0.036 U	25	0.037 U	0.043 J	0.026 J
Hexachlorobenzene	mg/kg	N	2	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.037 U	0.038 U	0.020 U
Hexachlorobutadiene	mg/kg	N	21	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.19 U	0.19 U	0.098 U
Hexachlorocyclopentadiene	mg/kg	N	7300	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.18 U	0.18 U	0.19 U	0.20 U	1.1 U	2.1 U	0.21 U	0.19 U	0.20 U	0.18 U	1.8 U	1.8 U	1.9 U	0.98 U
Hexachloroethane	mg/kg	N	100	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.37 U	0.38 U	0.20 U
Indene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	mg/kg	N	4	--	--	0.363 U	0.363 U	0.374	0.412 U	1.65 U	0.403 U	0.375 U	0.045 J	0.039 U	0.075 J	0.25	0.040 U	0.13 J	0.036 U	0.044 J	0.040 U	0.91 J	**12**	0.043 U	0.13 J	0.087 J	0.044 J	**38**	0.037 U	0.15 J	0.097 J
Isophorone	mg/kg	N	10000	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
N-Nitrosodi-n-propylamine	mg/kg	N	0.66	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
N-Nitrosodiphenylamine (Diphenylamine)	mg/kg	N	600	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
Naphthalene	mg/kg	N	17	0.33 U	0.59	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.060 J	0.036 U	0.038 U	0.040 U	0.23 U	**17**	0.043 U	0.068 J	0.099 J	0.036 U	**19**	0.037 U	0.12 J	0.078 J
Naphthalene	mg/L	Y	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	N	520	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
p-Chloro-m-cresol	mg/kg	N	10000	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.075 U	0.077 U	0.079 U	0.076 U	0.080 U	0.071 U	0.071 U	0.077 U	0.081 U	0.46 U	0.85 U	0.086 U	0.075 U	0.081 U	0.073 U	0.73 U	0.19 U	0.19 U	0.098 U
Pentachlorophenol	mg/kg	N	24	--	--	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.18 U	0.18 U	0.19 U	0.20 U	1.1 U	2.1 U	0.21 U	0.19 U	0.20 U	0.18 U	1.8 U	0.37 U	0.38 U	0.20 U
Phenanthrene	mg/kg	N	NS	0.33 U	3.6	0.363 U	0.363 U	0.973	0.412 U	0.33	0.403 U	0.375 U	0.039 J	0.26 J	0.066 J	0.68	0.040 U	0.32	0.036 U	0.068 J	0.040 U	1.4	71	0.043 U	0.37	0.43	0.11 J	150	0.062 J	0.28	0.21
Phenol	mg/kg	N	10000	0.33 U	0.11 U	0.363 U	0.363 U	0.374 U	0.412 U	1.65 U	0.403 U	0.375 U	0.037 U	0.039 U	0.040 U	0.038 U	0.040 U	0.036 U	0.036 U	0.038 U	0.040 U	0.23 U	0.42 U	0.043 U	0.037 U	0.041 U	0.036 U	0.36 U	0.19 U	0.19 U	0.098 U
Pyrene	mg/kg	N	10000	0.33 U	4.5	0.363 U	0.363 U	--	--	0.66	--	--	0.16 J	0.066 J	0.24 J	1.2	0.04 U	0.22	0.036 U	0.083 J	0.04 U	2.7	61	0.043 U	0.38	0.32	0.12 J	130	0.072 J	0.44	0.35
Pyridine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Quinoline	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 4
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Location ID	S1810	S2144	S2144	S2145	S2145	S2204	S2205	S2208	S2416	S2416	S2416	S2419	S2726	S2726	S2726	S2728
			Area	PAOC 46/73															
			Field Sample ID	S1810C2	S2144B4	S2144D2	S2145C2	S2145E3	S2204B1	S2205A4	S2208B2	D0109073	S2416F3	S2416I1	S2419C4	S2726A3	S2726B3	S2726D4	S2728C2
			Sample Depth	4.5 - 5	3.5 - 4	6.5 - 7	4.5 - 5	9 - 9.5	2 - 2.5	1.5 - 2	2.5 - 3	--	11 - 11.5	16 - 16.5	5.5 - 6	1 - 1.5	3 - 3.5	7.5 - 8	4.5 - 5
			Sample Date	04/27/2004	12/08/2006	12/08/2006	12/08/2006	12/08/2006	11/06/2006	11/06/2006	11/07/2006	01/09/2007	01/09/2007	01/09/2007	01/09/2007	10/18/2012	10/18/2012	10/18/2012	10/19/2012
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Leached	CMI Soil Criteria	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1-Methyl-naphthlalene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	N	10000	--	0.082 U	0.23 U	0.088 U	0.32 U	--	--	--	0.079 U	0.080 U	0.11 U	0.084 U	0.19 U	0.20 U	0.52 U	0.22 U
2,4,6-Trichlorophenol	mg/kg	N	270	--	0.041 U	0.11 U	0.044 U	0.16 U	--	--	--	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
2,4-Dichlorophenol	mg/kg	N	3100	--	0.041 U	0.11 U	0.044 U	0.16 U	--	--	--	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
2,4-Dimethylphenol	mg/kg	N	10000	--	0.33	0.23 U	0.56	8.6	--	--	--	0.079 U	0.080 U	0.11 U	0.084 U	0.72	0.20 U	2.6	0.22 U
2,4-Dinitrophenol	mg/kg	N	2100	--	0.82 U	2.3 U	0.88 U	3.2 U	--	--	--	0.79 U	0.80 U	1.1 U	0.84 U	3.4 U	3.5 U	9.3 U	3.9 U
2,4-Dinitrotoluene	mg/kg	N	NS	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
2,6-Dinitrotoluene	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
2-Chloronaphthalene	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.080 U	0.082 U	0.22 U	0.092 U
2-Chlorophenol (o-Chlorophenol)	mg/kg	N	5200	--	0.041 U	0.11 U	0.044 U	0.16 U	--	--	--	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
2-Methyl-Naphthlalene	mg/kg	N	NS	--	0.070 J	0.11 U	0.17 J	0.16 U	--	100	84	9.1	12	0.13 J	29	0.10 J	0.30	0.10 U	71
2-Methylphenol (o-Cresol)	mg/kg	N	10000	--	0.20 J	0.23 U	0.28	6.3	--	--	--	0.079 U	0.080 U	0.11 U	0.46	0.62	0.20 U	0.52 U	0.22 U
2-Nitroaniline (o-Nitroaniline)	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
2-Nitrophenol (o-Nitrophenol)	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	--	--	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
3 & 4-Methylphenol	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	N	6	--	0.12 U	0.34 U	0.13 U	0.48 U	--	1.3 U	5.9 U	0.12 U	0.12 U	0.16 U	0.13 U	1.1 U	1.2 U	3.1 U	1.3 U
3-Nitroaniline	mg/kg	N	NS	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	mg/kg	N	NS	--	0.21 U	0.57 U	0.22 U	0.80 U	--	--	--	0.20 U	0.20 U	0.27 U	0.21 U	1.9 U	2.0 U	5.2 U	2.2 U
4-Bromophenylphenylether	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
4-Chloroaniline	mg/kg	N	4200	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.19 U	0.20 U	0.52 U	0.22 U
4-Chlorophenyl phenyl ether	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
4-Methylphenol (p-Cresol)	mg/kg	N	10000	--	0.16 J	0.23 U	0.088 U	0.32 U	--	--	--	0.079 U	0.080 U	0.11 U	0.36	1.5	0.20 U	0.52 U	0.22 U
4-Nitroaniline	mg/kg	N	NS	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
4-Nitrophenol	mg/kg	N	NS	--	0.21 U	0.57 U	0.22 U	0.80 U	--	--	--	0.20 U	0.20 U	0.27 U	0.21 U	1.9 U	2.0 U	5.2 U	2.2 U
6-Methylchrysene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	N	10000	--	0.041 U	0.11 U	0.055 J	0.16 U	--	1.7 J	5.0 J	0.28	0.32	0.054 U	0.81	0.038 U	0.082 J	0.10 U	2.6
Acenaphthylene	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.1 J	0.24	0.27	0.054 U	0.60	0.060 J	0.041 J	0.10 U	0.044 U
Acetophenone	mg/kg	N	NS	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.62	0.19 U	0.20 U	0.52 U	0.22 U
Anthracene	mg/kg	N	10000	--	0.041 U	0.11 U	0.088 J	0.16 U	--	2.9	2.0 U	0.26	0.31	0.054 U	0.94	0.093 J	0.26	0.10 U	2.2
Atrazine	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.38 U	0.39 U	1.0 U	0.44 U
Benzaldehyde	mg/kg	N	NS	--	0.082 U	0.23 U	0.088 U	0.32 U	--	26	3.9 U	0.36	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
Benzenethiol	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	N	4	--	0.041 U	0.11 U	0.24	0.16 U	--	1.7 J	2.6 J	0.36	0.38	0.054 U	1.3	0.26	0.50	0.10 U	1.2
Benzo(a)pyrene	mg/kg	N	10	--	0.041 U	0.11 U	0.23	0.16 U	--	1.9 J	2.0 J	0.35	0.43	0.054 U	0.93	0.36	0.46	0.10 U	1.2
Benzo(b)fluoranthene	mg/kg	N	4	--	0.041 U	0.11 U	0.32	0.16 U	--	1.6 J	2.0 U	0.42	0.39	0.054 U	1.0	0.34	0.22	0.10 U	1.3
Benzo(g,h,i)perylene	mg/kg	N	NS	--	0.041 U	0.11 U	0.21 J	0.16 U	--	2.1 J	2.0 J	0.39	0.49	0.054 U	0.87	0.98	0.46	0.10 U	1.5
Benzo(k)fluoranthene	mg/kg	N	4	--	0.041 U	0.11 U	0.15 J	0.16 U	--	0.48 J	2.0 U	0.18 J	0.21	0.054 U	0.48	0.12 J	0.039 U	0.10 U	0.36
bis(2-Chloroethoxy)methane	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
bis(2-Chloroethyl) ether	mg/kg	N	3	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
bis(2-chloroisopropyl) ether	mg/kg	N	10000	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
bis(2-Ethylhexyl)phthalate	mg/kg	N	210	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.67	0.15 J	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
Bromofluorobenzene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	mg/kg	N	10000	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
Caprolactam	mg/kg	N	NS	--	10	3.3	13	0.16 U	--	0.43 U	2.0 U	6.2	6.7	0.054 U	24	0.38 U	0.39 U	1.0 U	0.44 U
Carbazole	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.097 J	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
Chrysene	mg/kg	N	230	--	0.041 U	0.11 U	0.3	0.16 U	--	3.6	4.3 J	0.5	0.51	0.054 U	1.9	0.35	0.81	0.1 U	2.4
Di-n-butylphthalate	mg/kg	N	10000	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
Di-n-octylphthalate	mg/kg	N	10000	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
Dibenz(a,h)anthracene	mg/kg	N	0.66	--	0.041 U	0.11 U	0.072 J	0.16 U	--	0.49 J	2.0 U	0.10 J	0.14 J	0.054 U	0.25	0.12 J	0.068 J	0.10 U	0.24
Dibenzo(a,h)acridine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	1.4 J	3.8 J	0.11 J	0.14 J	0.054 U	0.73	0.19 U	0.20 U	0.52 U	0.22 U
Diethylphthalate	mg/kg	N	10000	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
Dimethyl phthalate	mg/kg	N	10000	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.76 U	0.79 U	2.1 U	0.87 U
Diphenyl (Biphenyl, Phenyl benzene)	mg/kg	N	NS	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	1.2
Fluoranthene	mg/kg	N	10000	--	0.068 J	0.11 U	0.50	0.16 U	--	2.7	3.1 J	0.77	0.70	0.056 J	1.8	0.42	0.25	0.10 U	4.9
Fluorene	mg/kg	N	10000	--	0.041 U	0.11 U	0.13 J	0.16 U	--	5.0	8.0 J	0.50	0.69	0.054 U	2.6	0.064 J	0.20 J	0.10 U	3.0
Hexachlorobenzene	mg/kg	N	2	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.038 U	0.039 U	0.10 U	0.044 U
Hexachlorobutadiene	mg/kg	N	21	--	0.082 U	0.23 U	0.088 U	0.32 U	--	0.85 U	3.9 U	0.079 U	0.080 U	0.11 U	0.084 U	0.19 U	0.20 U	0.52 U	0.22 U
Hexachlorocyclopentadiene	mg/kg	N	7300	--	0.21 U	0.57 U	0.22 U	0.80 U	--	2.1 U	9.8 U	0.20 U	0.20 U	0.27 U	0.21 U	1.9 U	2.0 U	5.2 U	2.2 U
Hexachloroethane	mg/kg	N	100	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.38 U	0.39 U	1.0 U	0.44 U
Indene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	mg/kg	N	4	--	0.041 U	0.11 U	0.17 J	0.16 U	--	0.76 J	2.0 U	0.21	0.23	0.054 U	0.47	0.25	0.039 U	0.10 U	0.39
Isophorone	mg/kg	N	10000	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
N-Nitrosodi-n-propylamine	mg/kg	N	0.66	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
N-Nitrosodiphenylamine (Diphenylamine)	mg/kg	N	600	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	1.4	1.9	0.054 U	3.5	0.19 U	0.20 U	0.52 U	0.22 U
Naphthalene	mg/kg	N	17	--	0.13 J	0.11 U	0.46	0.16 U	0.28 J	5.0	0.85	0.92	1.7	0.054 U	3.1	0.086 J	0.039 U	0.10 U	**63**
Naphthalene	mg/L	Y	17	0.002 J	--	--	--	--	0.020 U	--	0.020 U	--	--	--	0.020 U	--	--	--	--
Nitrobenzene	mg/kg	N	520	--	0.041 U	0.11 U	0.044 U	0.16 U	--	0.43 U	2.0 U	0.039 U	0.040 U	0.054 U	0.042 U	0.19 U	0.20 U	0.52 U	0.22 U
p-Chloro-m-cresol	mg/kg	N	10000	--	0.082 U	0.23 U	0.088 U	0.32 U	--	--	--	0.079 U	0.080 U	0.11 U	0.084 U	0.19 U	0.20 U	0.52 U	0.22 U
Pentachlorophenol	mg/kg	N	24	--	0.21 U	0.57 U	0.22 U	0.80 U	--	--	--	0.20 U	0.20 U	0.27 U	0.21 U	0.38 U	0.39 U	1.0 U	0.44 U
Phenanthrene	mg/kg	N	NS	--	0.053 J	0.11 U	0.36	0.16 U	--	11	22	1.5	1.6	0.080 J	11	0.23	1.5	0.10 U	8.1
Phenol	mg/kg	N	10000	--	0.041 U	0.11 U	0.044 U	0.16 U	--	--	--	0.039 U	0.080 J	0.054 U	0.28	0.35 J	0.20 U	0.52 U	0.22 U
Pyrene	mg/kg	N	10000	--	0.075 J	0.11 U	0.79	0.16 U	--	5.8	7.7 J	0.84	0.73	0.072 J	3.3	0.53	0.92	0.1 U	4.6
Pyridine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Quinoline	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

	Location ID	S2728	S2728	S2728	S2729	S2729	S2729	S2827	S2827	S2827	S2828	S2828	S2828	S2829	S2829	S2829	S2829	S2830
	Area	PAOC 46/73																
	Field Sample ID	S2728B1	S2728D2	S2728E1	S2729B4	S2729C2	S2729D4	S2827A2	S2827A4	S2827C2	S2828A1	S2828B1	S2828E1	D1025124	S2829A1	S2829B4	S2829C3	S2830A4
	Sample Depth	2 - 2.5	6.5 - 7	8 - 8.5	3.5 - 4	4.5 - 5	7.5 - 8	0.5 - 1	1.5 - 2	4.5 - 5	0 - 0.5	2 - 2.5	8 - 8.5	5 - 5.5	0 - 0.5	3.5 - 4	5 - 5.5	1.5 - 2
	Sample Date	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/26/2012
	Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1-Methyl-naphthlalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
2,4,6-Trichlorophenol	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
2,4-Dichlorophenol	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
2,4-Dimethylphenol	mg/kg	0.31	1.4	85	0.12 U	0.12 U	39	0.39 J	4.7	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
2,4-Dinitrophenol	mg/kg	1.8 U	0.38 U	1.5 U	2.1 U	2.1 U	8.6 U	3.5 U	3.7 U	0.35 U	3.5 U	3.5 U	0.34 U	0.36 U	19 U	3.6 U	0.36 U	3.7 U
2,4-Dinitrotoluene	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
2,6-Dinitrotoluene	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
2-Chloronaphthalene	mg/kg	0.042 U	0.009 U	0.035 U	0.049 U	0.048 U	0.20 U	0.082 U	0.086 U	0.008 U	0.082 U	0.082 U	0.008 U	0.009 U	0.44 U	0.084 U	0.008 U	0.085 U
2-Chlorophenol (o-Chlorophenol)	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
2-Methyl-Naphthlalene	mg/kg	0.24	0.32	0.36	0.19	0.45	0.096 U	0.39	13	0.093	1.8	1.4	0.004 U	0.037	1.9	0.040 U	0.015 J	0.64
2-Methylphenol (o-Cresol)	mg/kg	0.10 U	1.2	16	0.12 U	0.12 U	0.49 J	0.34 J	3.7	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
2-Nitroaniline (o-Nitroaniline)	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
2-Nitrophenol (o-Nitrophenol)	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
3 & 4-Methylphenol	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	0.60 U	0.13 U	0.50 U	0.70 U	0.69 U	2.9 U	1.2 U	1.2 U	0.12 U	1.2 U	1.2 U	0.11 U	0.12 U	6.3 U	1.2 U	0.12 U	1.2 U
3-Nitroaniline	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	mg/kg	1.0 U	0.21 U	0.83 U	1.2 U	1.2 U	4.8 U	1.9 U	2.0 U	0.19 U	2.0 U	2.0 U	0.19 U	0.20 U	10 U	2.0 U	0.20 U	2.0 U
4-Bromophenylphenylether	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
4-Chloroaniline	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
4-Chlorophenyl phenyl ether	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
4-Methylphenol (p-Cresol)	mg/kg	0.10 U	1.8	38	0.12 U	0.12 U	23	0.35 J	4.3	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
4-Nitroaniline	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
4-Nitrophenol	mg/kg	1.0 U	0.21 U	0.83 U	1.2 U	1.2 U	4.8 U	1.9 U	2.0 U	0.19 U	2.0 U	2.0 U	0.19 U	0.20 U	10 U	2.0 U	0.20 U	2.0 U
6-Methylchrysene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.020 U	0.004 U	0.016 U	0.023 U	0.047 J	0.096 U	0.039 U	0.76	0.004 J	0.040 J	0.37	0.004 U	0.004 U	0.21 U	0.35	0.004 U	0.041 U
Acenaphthylene	mg/kg	0.026 J	0.004 U	0.016 U	0.023 U	0.023 U	0.096 U	0.039 U	0.63	0.004 U	0.12 J	0.15 J	0.004 U	0.004 U	0.21 U	0.20 J	0.004 U	0.041 U
Acetophenone	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
Anthracene	mg/kg	0.076 J	0.065	0.14	0.023 U	0.023 U	0.096 U	0.25	1.8	0.006 J	0.15 J	0.35	0.004 U	0.004 U	0.21 U	0.40	0.004 U	0.041 U
Atrazine	mg/kg	0.20 U	0.042 U	0.17 U	0.23 U	0.23 U	0.96 U	0.39 U	0.41 U	0.039 U	0.39 U	0.39 U	0.038 U	0.041 U	2.1 U	0.40 U	0.040 U	0.41 U
Benzaldehyde	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
Benzenethiol	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	0.065 J	0.058	0.087	0.023 U	0.046 J	0.096 U	0.60	2.5	0.015 J	0.43	1.2	0.004 U	0.004 U	2.1	1.3	0.004 U	0.29
Benzo(a)pyrene	mg/kg	0.074 J	0.068	0.13	0.11 J	0.092 J	0.096 U	1.3	2.0	0.011 J	0.51	1.2	0.004 U	0.005 J	2.4	1.7	0.004 U	0.17 J
Benzo(b)fluoranthene	mg/kg	0.079 J	0.070	0.091	0.071 J	0.071 J	0.096 U	0.60	2.9	0.016 J	0.66	1.4	0.004 U	0.004 U	1.7	1.7	0.004 U	0.18 J
Benzo(g,h,i)perylene	mg/kg	1.5	0.074	0.17	0.15	0.13	0.096 U	0.97	0.96	0.01 J	0.37	0.68	0.004 U	0.004 U	2.2	1.4	0.004 U	0.18 J
Benzo(k)fluoranthene	mg/kg	0.020 U	0.021 J	0.016 U	0.023 U	0.023 U	0.096 U	0.16 J	0.99	0.006 J	0.23	0.55	0.004 U	0.004 U	0.29 J	0.80	0.004 U	0.041 U
bis(2-Chloroethoxy)methane	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
bis(2-Chloroethyl) ether	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
bis(2-chloroisopropyl) ether	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
bis(2-Ethylhexyl)phthalate	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
Bromofluorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
Caprolactam	mg/kg	0.20 U	0.042 U	0.17 U	0.23 U	0.23 U	0.96 U	0.39 U	0.41 U	0.039 U	0.39 U	0.39 U	0.038 U	0.041 U	2.1 U	0.40 U	0.040 U	0.41 U
Carbazole	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.58	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
Chrysene	mg/kg	0.073 J	0.09	0.16	0.18	0.14	0.096 U	2	2.7	0.015 J	0.56	1	0.004 U	0.005 J	4.7	1.2	0.004 U	0.48
Di-n-butylphthalate	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
Di-n-octylphthalate	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
Dibenz(a,h)anthracene	mg/kg	0.020 U	0.020 J	0.016 U	0.023 U	0.023 U	0.096 U	0.22	0.35	0.004 U	0.12 J	0.21	0.004 U	0.004 U	0.45 J	0.32	0.004 U	0.041 U
Dibenzo(a,h)acridine	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	1.9	0.019 U	0.46	0.20 J	0.019 U	0.020 U	1.0 U	0.40 J	0.020 U	0.20 U
Diethylphthalate	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
Dimethyl phthalate	mg/kg	0.40 U	0.083 U	0.33 U	0.47 U	0.46 U	1.9 U	0.78 U	0.82 U	0.078 U	0.78 U	0.79 U	0.076 U	0.081 U	4.2 U	0.80 U	0.080 U	0.81 U
Diphenyl (Biphenyl, Phenyl benzene)	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.41	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
Fluoranthene	mg/kg	0.066 J	0.079	0.11	0.023 U	0.023 U	0.096 U	0.38	6.9	0.025	0.89	2.3	0.004 U	0.005 J	0.69 J	1.8	0.004 U	0.26
Fluorene	mg/kg	0.031 J	0.099	0.16	0.023 U	0.091 J	0.096 U	0.30	1.8	0.009 J	0.065 J	0.31	0.004 U	0.008 J	0.21 U	0.76	0.004 U	0.041 U
Hexachlorobenzene	mg/kg	0.020 U	0.004 U	0.016 U	0.023 U	0.023 U	0.096 U	0.039 U	0.041 U	0.004 U	0.039 U	0.039 U	0.004 U	0.004 U	0.21 U	0.040 U	0.004 U	0.041 U
Hexachlorobutadiene	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
Hexachlorocyclopentadiene	mg/kg	1.0 U	0.21 U	0.83 U	1.2 U	1.2 U	4.8 U	1.9 U	2.0 U	0.19 U	2.0 U	2.0 U	0.19 U	0.20 U	10 U	2.0 U	0.20 U	2.0 U
Hexachloroethane	mg/kg	0.20 U	0.042 U	0.17 U	0.23 U	0.23 U	0.96 U	0.39 U	0.41 U	0.039 U	0.39 U	0.39 U	0.038 U	0.041 U	2.1 U	0.40 U	0.040 U	0.41 U
Indene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	mg/kg	0.12	0.028	0.053 J	0.060 J	0.049 J	0.096 U	0.28	0.88	0.004 J	0.33	0.59	0.004 U	0.004 U	0.65 J	1.1	0.004 U	0.041 U
Isophorone	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
N-Nitrosodi-n-propylamine	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
N-Nitrosodiphenylamine (Diphenylamine)	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
Naphthalene	mg/kg	0.19	0.27	0.34	0.12	0.60	0.19 J	0.30	7.8	0.030	1.4	2.2	0.004 U	0.016 J	1.1	10	0.008 J	0.57
Naphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
p-Chloro-m-cresol	mg/kg	0.10 U	0.021 U	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	0.20 U	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
Pentachlorophenol	mg/kg	0.20 U	0.042 U	0.17 U	0.23 U	0.23 U	0.96 U	0.39 U	0.41 U	0.039 U	0.39 U	0.39 U	0.038 U	0.041 U	2.1 U	0.40 U	0.040 U	0.41 U
Phenanthrene	mg/kg	0.14	0.27	0.34	0.023 U	0.023 U	0.096 U	0.47	4.9	0.026	0.96	1.4	0.004 U	0.016 J	0.60 J	2.4	0.004 U	0.21
Phenol	mg/kg	0.10 U	0.75	0.083 U	0.12 U	0.12 U	0.48 U	0.19 U	1.8	0.019 U	0.20 U	0.20 U	0.019 U	0.020 U	1.0 U	0.20 U	0.020 U	0.20 U
Pyrene	mg/kg	0.089 J	0.16	0.26	0.25	0.17	0.096 U	2.4	7.1	0.027	0.94	2.4	0.004 U	0.012 J	8.8	2	0.004 U	0.52
Pyridine	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Quinoline	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 4
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUND RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	PAOC 46/73									
			Location ID	S2830	S2830	S2832	S2832	S2832	S2832	S3881	S3881	S3881	S4332
			Field Sample ID	S2830C2	S2830H2	S2832A3	S2832B3	S2832E1	S2832G4	S3881A1	S3881A3	S3881G1	S4332A2
			Sample Depth	4.5 - 5	14.5 - 15	1 - 1.5	3 - 3.5	8 - 8.5	13.5 - 14	0 - 0.5	1 - 1.5	12 - 12.5	0.5 - 1
			Sample Date	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	08/16/2013	08/16/2013	08/16/2013	06/09/2015
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	**Report Units**	**Leached**	**CMI Soil Criteria**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
1-Methyl-naphthlalene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	N	10000	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	N	270	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
2,4-Dichlorophenol	mg/kg	N	3100	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
2,4-Dimethylphenol	mg/kg	N	10000	1.1	0.021 U	0.19 U	0.20 U	4.3	0.021 U	0.19 U	1.8	0.019 U	0.19 U
2,4-Dinitrophenol	mg/kg	N	2100	0.35 U	0.38 U	3.5 U	3.6 U	1.7 U	0.38 U	3.4 U	3.9 U	0.34 U	3.4 U
2,4-Dinitrotoluene	mg/kg	N	NS	0.078 U	0.085 U	0.78 U	0.80 U	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
2,6-Dinitrotoluene	mg/kg	N	NS	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
2-Chloronaphthalene	mg/kg	N	NS	0.008 U	0.009 U	0.082 U	0.084 U	0.039 U	0.009 U	0.080 U	0.092 U	0.008 U	0.080 U
2-Chlorophenol (o-Chlorophenol)	mg/kg	N	5200	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
2-Methyl-Naphthlalene	mg/kg	N	NS	4.1	0.004 U	5.5	31	0.36	0.019 J	0.069 J	7.0	0.004 U	0.31
2-Methylphenol (o-Cresol)	mg/kg	N	10000	1.0	0.021 U	0.19 U	0.20 U	0.41	0.021 U	0.19 U	2.2	0.019 U	0.19 U
2-Nitroaniline (o-Nitroaniline)	mg/kg	N	NS	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
2-Nitrophenol (o-Nitrophenol)	mg/kg	N	NS	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
3 & 4-Methylphenol	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	N	6	0.12 U	0.13 U	1.2 U	1.2 U	0.56 U	0.13 U	1.1 U	1.3 U	0.11 U	1.1 U
3-Nitroaniline	mg/kg	N	NS	0.078 U	0.085 U	0.78 U	0.80 U	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	mg/kg	N	NS	0.20 U	0.21 U	1.9 U	2.0 U	0.93 U	0.21 U	1.9 U	2.2 U	0.19 U	1.9 U
4-Bromophenylphenylether	mg/kg	N	NS	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
4-Chloroaniline	mg/kg	N	4200	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.38 U
4-Chlorophenyl phenyl ether	mg/kg	N	NS	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
4-Methylphenol (p-Cresol)	mg/kg	N	10000	1.1	0.021 U	0.19 U	0.20 U	0.30	0.021 U	0.19 U	1.6	0.019 U	0.19 U
4-Nitroaniline	mg/kg	N	NS	0.078 U	0.085 U	0.78 U	0.80 U	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
4-Nitrophenol	mg/kg	N	NS	0.20 U	0.21 U	1.9 U	2.0 U	0.93 U	0.21 U	1.9 U	2.2 U	0.19 U	1.9 U
6-Methylchrysene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	N	10000	0.004 U	0.004 U	0.039 U	1.4	0.082 J	0.004 U	0.038 U	0.24	0.004 U	0.038 U
Acenaphthylene	mg/kg	N	NS	0.004 U	0.004 U	0.039 U	0.040 U	0.019 U	0.004 U	0.038 U	0.044 U	0.004 U	0.038 U
Acetophenone	mg/kg	N	NS	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
Anthracene	mg/kg	N	10000	0.20	0.004 U	0.039 U	1.0	0.051 J	0.004 U	0.076 J	0.48	0.004 U	0.10 J
Atrazine	mg/kg	N	NS	0.039 U	0.042 U	0.39 U	0.40 U	0.19 U	0.042 U	0.38 U	0.44 U	0.038 U	0.38 U
Benzaldehyde	mg/kg	N	NS	0.078 U	0.085 U	0.78 U	0.80 U	0.42 J	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
Benzenethiol	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	N	4	0.55	0.004 U	0.039 U	0.90	0.062 J	0.004 U	0.12 J	1.2	0.004 U	0.12 J
Benzo(a)pyrene	mg/kg	N	10	0.65	0.004 U	0.61	0.54	0.078 J	0.004 U	0.43	1.2	0.004 J	0.13 J
Benzo(b)fluoranthene	mg/kg	N	4	0.72	0.004 U	0.52	0.41	0.090 J	0.004 U	0.27	1.4	0.005 J	0.17 J
Benzo(g,h,i)perylene	mg/kg	N	NS	0.68	0.004 U	0.93	0.50	0.10	0.004 U	2.3	0.96	0.004 U	0.35
Benzo(k)fluoranthene	mg/kg	N	4	0.26	0.004 U	0.039 U	0.068 J	0.044 J	0.004 U	0.075 J	0.60	0.004 U	0.049 J
bis(2-Chloroethoxy)methane	mg/kg	N	NS	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
bis(2-Chloroethyl) ether	mg/kg	N	3	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
bis(2-chloroisopropyl) ether	mg/kg	N	10000	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
bis(2-Ethylhexyl)phthalate	mg/kg	N	210	0.078 U	0.085 U	0.78 U	2.0 J	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
Bromofluorobenzene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	mg/kg	N	10000	0.078 U	0.085 U	0.78 U	0.80 U	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
Caprolactam	mg/kg	N	NS	0.039 U	0.042 U	0.39 U	0.40 U	0.19 U	0.042 U	0.38 U	0.44 U	0.038 U	0.38 U
Carbazole	mg/kg	N	NS	0.079	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
Chrysene	mg/kg	N	230	0.6	0.004 U	2.3	2.1	0.14	0.004 U	0.31	1.1	0.004 U	0.15 J
Di-n-butylphthalate	mg/kg	N	10000	0.078 U	0.085 U	0.78 U	0.80 U	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
Di-n-octylphthalate	mg/kg	N	10000	0.078 U	0.085 U	0.78 U	0.80 U	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
Dibenz(a,h)anthracene	mg/kg	N	0.66	0.14	0.004 U	0.039 U	0.13 J	0.019 U	0.004 U	0.22	0.20 J	0.004 U	0.068 J
Dibenzo(a,h)acridine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	N	NS	0.16	0.021 U	0.19 U	1.2	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
Diethylphthalate	mg/kg	N	10000	0.078 U	0.085 U	0.78 U	0.80 U	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
Dimethyl phthalate	mg/kg	N	10000	0.078 U	0.085 U	0.78 U	0.80 U	0.37 U	0.084 U	0.76 U	0.88 U	0.076 U	0.76 U
Diphenyl (Biphenyl, Phenyl benzene)	mg/kg	N	NS	0.050	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
Fluoranthene	mg/kg	N	10000	0.96	0.004 U	0.039 U	0.86	0.11	0.004 U	0.11 J	2.3	0.004 U	0.16 J
Fluorene	mg/kg	N	10000	0.24	0.004 U	1.6	3.6	0.13	0.011 J	0.038 U	0.74	0.004 U	0.038 U
Hexachlorobenzene	mg/kg	N	2	0.004 U	0.004 U	0.039 U	0.040 U	0.019 U	0.004 U	0.038 U	0.044 U	0.004 U	0.038 U
Hexachlorobutadiene	mg/kg	N	21	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	N	7300	0.20 U	0.21 U	1.9 U	2.0 U	0.93 U	0.21 U	1.9 U	2.2 U	0.19 U	1.9 U
Hexachloroethane	mg/kg	N	100	0.039 U	0.042 U	0.39 U	0.40 U	0.19 U	0.042 U	0.38 U	0.44 U	0.038 U	0.38 U
Indene	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	mg/kg	N	4	0.56	0.004 U	0.039 U	0.19 J	0.062 J	0.004 U	0.46	0.73	0.004 U	0.16 J
Isophorone	mg/kg	N	10000	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
N-Nitrosodi-n-propylamine	mg/kg	N	0.66	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
N-Nitrosodiphenylamine (Diphenylamine)	mg/kg	N	600	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
Naphthalene	mg/kg	N	17	0.92	0.004 U	0.039 U	0.040 U	0.059 J	0.011 J	0.044 J	0.92	0.004 U	0.21
Naphthalene	mg/L	Y	17	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	N	520	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
p-Chloro-m-cresol	mg/kg	N	10000	0.020 U	0.021 U	0.19 U	0.20 U	0.093 U	0.021 U	0.19 U	0.22 U	0.019 U	0.19 U
Pentachlorophenol	mg/kg	N	24	0.039 U	0.042 U	0.39 U	0.40 U	0.19 U	0.042 U	0.38 U	0.44 U	0.038 U	0.38 U
Phenanthrene	mg/kg	N	NS	0.99	0.004 U	3.3	8.4	0.25	0.024	0.097 J	2.2	0.004 U	0.21
Phenol	mg/kg	N	10000	0.61	0.021 U	0.19 U	0.20 U	0.16 J	0.021 U	0.19 U	0.80	0.019 U	0.19 U
Pyrene	mg/kg	N	10000	0.8	0.004 U	3	3.1	0.15	0.014 J	0.15 J	2.3	0.004 U	0.20
Pyridine	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--
Quinoline	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--

Area	PAOC 46/73															
Location ID	S4332	S4332	S4333	S4333	S4333	S4334	S4334	S4334	S4334	S4335	S4335	S4335	S4337	S4337	S4337	S4337
Field Sample ID	S4332B3	S4332E3	S4333A3	S4333B4	S4333E2	D06041513	S4334A3	S4334C4	S4334E2	S4335A4	S4335D1	S4335E2	D06031513	S4337A2	S4337B3	S4337E2
Sample Depth	3 - 3.5	9 - 9.5	1 - 1.5	3.5 - 4	8.5 - 9	--	1 - 1.5	5.5 - 6	8.5 - 9	1.5 - 2	6 - 6.5	8.5 - 9	--	0.5 - 1	3 - 3.5	8.5 - 9
Sample Date	06/09/2015	06/09/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015
Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG
Parameter Name	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
1-Methyl-naphthlalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
2,4,6-Trichlorophenol	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
2,4-Dichlorophenol	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
2,4-Dimethylphenol	0.020 U	0.021 U	0.22 J	2.0	0.020 U	0.34	0.18 U	0.21 U	3.5 J-	0.44 J	0.85	3.1 J	0.23 U	0.41 U	0.21 U	7.8 J
2,4-Dinitrophenol	0.36 U	0.37 U	3.3 U	3.6 U	0.36 U	0.38 U	3.3 U	3.8 U	7.6 UJ	7.0 U	0.38 U	17 UJ	4.2 U	7.3 U	3.8 U	7.5 UJ
2,4-Dinitrotoluene	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
2,6-Dinitrotoluene	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
2-Chloronaphthalene	0.008 U	0.009 U	0.077 U	0.083 U	0.008 U	0.009 U	0.077 U	0.090 U	0.18 UJ	0.16 U	0.009 U	0.40 UJ	0.098 U	0.17 U	0.090 U	0.17 UJ
2-Chlorophenol (o-Chlorophenol)	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
2-Methyl-Naphthlalene	22	0.004 U	0.23	6.5	0.004 U	0.40 J	0.13 J	0.043 U	0.084 UJ	0.37 J	0.082	0.19 UJ	0.68	0.23 J	0.92	0.083 UJ
2-Methylphenol (o-Cresol)	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	1.2 J	0.18 U	0.21 U	0.81 J-	0.39 U	0.78	10 J	0.23 U	0.41 U	0.21 U	1.3 J
2-Nitroaniline (o-Nitroaniline)	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
2-Nitrophenol (o-Nitrophenol)	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
3 & 4-Methylphenol	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	0.12 U	0.12 U	1.1 U	1.2 U	0.12 U	0.13 U	1.1 U	1.3 U	2.5 UJ	2.3 U	0.13 U	5.7 UJ	1.4 U	2.4 U	1.3 U	2.5 UJ
3-Nitroaniline	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	0.20 U	0.21 U	1.8 U	2.0 U	0.20 U	0.21 U	1.8 U	2.1 U	4.2 UJ	3.9 U	0.21 U	9.6 UJ	2.3 U	4.1 U	2.1 U	4.2 UJ
4-Bromophenylphenylether	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
4-Chloroaniline	0.040 U	0.041 U	0.37 U	0.40 U	0.040 U	0.043 U	0.37 U	0.43 U	0.84 UJ	0.78 U	0.042 U	1.9 UJ	0.47 U	0.82 U	0.43 U	0.83 UJ
4-Chlorophenyl phenyl ether	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
4-Methylphenol (p-Cresol)	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	1.3 J	0.18 U	0.21 U	0.42 UJ	0.39 U	0.98	5.4 J	0.23 U	0.41 U	0.77 J	14 J
4-Nitroaniline	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
4-Nitrophenol	0.20 U	0.21 U	1.8 U	2.0 U	0.20 U	0.21 U	1.8 U	2.1 U	4.2 UJ	3.9 U	0.21 U	9.6 UJ	2.3 U	4.1 U	2.1 U	4.2 UJ
6-Methylchrysene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	0.35	0.004 U	0.037 U	0.20 J	0.004 U	0.67 J	0.037 U	0.043 U	0.084 UJ	0.078 U	0.004 U	0.19 UJ	0.047 U	0.082 U	0.043 U	0.083 UJ
Acenaphthylene	0.004 U	0.004 U	0.041 J	0.040 U	0.004 U	0.21 J	0.059 J	0.043 U	0.084 UJ	0.078 U	0.004 U	0.19 UJ	0.047 U	0.082 U	0.043 U	0.083 UJ
Acetophenone	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
Anthracene	0.28	0.004 U	0.057 J	0.25	0.004 U	1.7 J	0.12 J	0.45 J	0.084 UJ	0.15 J	0.078	0.19 UJ	0.047 U	0.082 U	0.16 J	0.083 UJ
Atrazine	0.040 U	0.041 U	0.37 U	0.40 U	0.040 U	0.043 U	0.37 U	0.43 U	0.84 UJ	0.78 U	0.042 U	1.9 UJ	0.47 U	0.82 U	0.43 U	0.83 UJ
Benzaldehyde	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
Benzenethiol	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	0.25	0.004 U	0.15 J	0.44	0.004 U	**4.9 J**	0.28	0.66 J	0.084 UJ	0.25 J	0.071	0.19 UJ	0.047 U	0.082 U	0.14 J	0.10 J
Benzo(a)pyrene	0.28	0.004 U	0.16 J	0.39	0.004 U	6.7 J	0.27	0.70 J	0.084 UJ	0.078 U	0.089	0.19 UJ	0.047 U	0.082 U	0.15 J	0.12 J
Benzo(b)fluoranthene	0.33	0.004 U	0.20	0.56	0.004 U	**7.1 J**	0.43	0.75 J	0.084 UJ	0.078 U	0.072	0.19 UJ	0.047 U	0.082 U	0.19 J	0.14 J
Benzo(g,h,i)perylene	0.30	0.004 U	0.27	0.33	0.004 U	5.3 J	2.1	0.64 J	0.084 UJ	1.7	0.10	0.19 UJ	0.047 U	1.1	0.29 J	0.13 J
Benzo(k)fluoranthene	0.14	0.004 U	0.063 J	0.21	0.004 U	2.7 J	0.21	0.33 J	0.084 UJ	0.078 U	0.025	0.19 UJ	0.047 U	0.082 U	0.043 U	0.13 J
bis(2-Chloroethoxy)methane	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
bis(2-Chloroethyl) ether	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
bis(2-chloroisopropyl) ether	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
bis(2-Ethylhexyl)phthalate	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 UJ	0.085 UJ	3.8 UJ	0.94 UJ	1.6 UJ	0.85 UJ	1.7 UJ
Bromofluorobenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
Caprolactam	0.040 U	0.041 U	0.37 U	0.40 U	0.040 U	0.043 U	0.37 U	0.43 U	0.84 UJ	0.78 U	0.042 U	1.9 UJ	0.47 U	0.82 U	0.43 U	0.83 UJ
Carbazole	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.74 J	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
Chrysene	0.43	0.004 U	0.20	0.95	0.004 U	4.7 J	0.35	1.3 J	0.084 UJ	0.29 J	0.13	0.19 UJ	0.047 U	0.36 J	0.22	0.15 J
Di-n-butylphthalate	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
Di-n-octylphthalate	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
Dibenz(a,h)anthracene	0.066	0.004 U	0.075 J	0.14 J	0.004 U	**1.4 J**	0.11 J	0.20 J	0.084 UJ	0.078 U	0.032	0.19 UJ	0.047 U	0.082 U	0.12 J	0.13 J
Dibenzo(a,h)acridine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.49 J	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
Diethylphthalate	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
Dimethyl phthalate	0.080 U	0.082 U	0.73 U	0.79 U	0.080 U	0.085 U	0.73 U	0.85 U	1.7 UJ	1.6 U	0.085 U	3.8 UJ	0.94 U	1.6 U	0.85 U	1.7 UJ
Diphenyl (Biphenyl, Phenyl benzene)	0.070	0.021 U	0.18 U	0.20 U	0.020 U	0.068 J	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
Fluoranthene	0.48	0.004 U	0.20	0.90	0.004 U	7.8 J	0.34	1.1 J	0.084 UJ	0.19 J	0.12	0.24 J	0.055 J	0.082 U	0.13 J	0.090 J
Fluorene	0.52	0.004 U	0.037 U	0.35	0.004 U	0.58 J	0.037 U	0.20 J	0.084 UJ	0.078 U	0.10	0.19 UJ	0.047 U	0.082 U	0.31 J	0.083 UJ
Hexachlorobenzene	0.004 U	0.004 U	0.037 U	0.040 U	0.004 U	0.004 U	0.037 U	0.043 U	0.084 UJ	0.078 U	0.004 U	0.19 UJ	0.047 U	0.082 U	0.043 U	0.083 UJ
Hexachlorobutadiene	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
Hexachlorocyclopentadiene	0.20 U	0.21 U	1.8 U	2.0 U	0.20 U	0.21 U	1.8 U	2.1 U	4.2 UJ	3.9 U	0.21 U	9.6 UJ	2.3 U	4.1 U	2.1 U	4.2 UJ
Hexachloroethane	0.040 U	0.041 U	0.37 U	0.40 U	0.040 U	0.043 U	0.37 U	0.43 U	0.84 UJ	0.78 U	0.042 U	1.9 UJ	0.47 U	0.82 U	0.43 U	0.83 UJ
Indene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	0.18	0.004 U	0.13 J	0.24	0.004 U	**4.5 J**	0.37	0.52 J	0.084 UJ	0.45	0.044	0.19 UJ	0.047 U	0.27 J	0.20 J	0.096 J
Isophorone	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
N-Nitrosodi-n-propylamine	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
N-Nitrosodiphenylamine (Diphenylamine)	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
Naphthalene	8.3	0.004 U	0.17 J	5.6	0.004 U	0.65 J	0.10 J	0.043 U	0.084 UJ	0.26 J	0.16	0.19 UJ	1.0	0.22 J	0.74	0.083 UJ
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
p-Chloro-m-cresol	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.021 U	0.18 U	0.21 U	0.42 UJ	0.39 U	0.021 U	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
Pentachlorophenol	0.040 U	0.041 U	0.37 U	0.40 U	0.040 U	0.043 U	0.37 U	0.43 U	0.84 UJ	0.78 U	0.042 U	1.9 UJ	0.47 U	0.82 U	0.43 U	0.83 UJ
Phenanthrene	1.4	0.004 U	0.20	1.5	0.004 U	5.5 J	0.17 J	0.70 J	0.084 UJ	0.26 J	0.15	0.35 J	0.047 U	0.082 U	0.81 J	0.083 UJ
Phenol	0.020 U	0.021 U	0.18 U	0.20 U	0.020 U	0.52 J	0.18 U	0.21 U	0.42 UJ	0.39 U	0.47	0.96 UJ	0.23 U	0.41 U	0.21 U	0.42 UJ
Pyrene	0.69	0.004 U	0.22	0.77	0.004 U	7.1 J	0.33	1.2 J	0.084 UJ	0.22 J	0.14	0.19 UJ	0.081 J	0.38 J	0.33 J	0.083 UJ
Pyridine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Quinoline	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 5
SUMMARY OF METALS RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	AOC 16A																								
			Location ID	SB-0252	SB-0253	SB-0254	SB-0255	SB-0256	SB-0256	SB-0257	SB-0264	SB-0265	SB-0267	SB-0268	SB-0277	SB-0278	SB-0279	S0490	S0491	S0492	S0493	S0494	S0844	S0844	S0844	S0837	S0837
			Field Sample ID	SB-0252S-C	SB0253-S-C	SB0254-S-C	SB0255-S-B	SB-0256-SC	SB0256-S-B	SB-0257-SB	SB-0264-SC	SB-0265-SC	SB-0267S-B	SB-0268S-B	SB-0277S-C	SB-0278S-C	SB-0279S-B	S0490A2	S0491B2	S0492B2	S0493B2	S0494B4	S0844A4	S0844C3	S0844G4	S0837A4	S0837C4
			Sample Depth	4 - 6	4 - 6	4 - 6	2 - 4	4 - 6	2 - 4	2 - 4	4 - 6	4 - 6	2 - 4	2 - 4	4 - 6	4 - 6	2 - 4	0.5 - 1	2.5 - 3	2.5 - 3	2.5 - 3	3.5 - 4	1.5 - 2	5 - 5.5	13.5 - 14	1.5 - 2	5.5 - 6.0
			Sample Date	09/19/1996	10/08/1996	10/08/1996	10/08/1996	10/10/1996	10/08/1996	10/10/1996	10/14/1996	10/14/1996	10/17/1996	10/17/1996	05/13/1997	05/13/1997	05/13/1997	08/13/1999	08/13/1999	08/13/1999	08/13/1999	09/01/1999	08/16/2002	08/16/2002	08/16/2002	08/28/2002	08/28/2002
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Leached	CMI Soil Criteria	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Aluminum	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5660	5480	12400	11700	9360
Antimony	mg/kg	N	340	0.452 B*	0.126 U	0.126 U	0.166 B*	0.156 B*	0.201 B*	1.02	0.199 B*	0.164 B*	0.835	0.271 B*	0.571	0.232 U	0.634	0.162 U	2.8	33.8	2.17	0.571	1.5 J	0.81 U	0.78 U	1.3 J	2.3 J
Arsenic	mg/kg	N	20	3.9	3.2	4.2	5.9	4.4	2.7	7.2	4.1	4.8	12.0	2.8	3.0	3.8	10.9	5.1	10.6	14.6	8.5	8.2	5.8	3.7	4.6	5.5	12.7
Barium	mg/kg	N	47000	27.6	28.4	118	105	63.5	26.5	265	36.5	72.2	65.7	27.4	31.1	58.1	68	31.2	296	84.6	53.4	66.3	54.5	27.1	54.3	44.8	80.3
Beryllium	mg/kg	N	200	0.615	0.386 B*	0.842	0.522	0.591	0.198 B*	1.01	0.460 B*	0.599	0.558	0.498	0.442	0.51	0.821	0.299	0.22	0.522	0.51	0.25	0.42 J	0.51 J	0.92	0.35 J	0.51 J
Cadmium	mg/kg	N	100	0.0194 U	0.0195 U	0.0731 B*	0.156 B*	0.125 B*	0.0307 B*	0.513	0.0968 B*	0.0550 B*	0.265 B*	0.0202 U	0.0426 U	0.0478 U	0.0483 U	0.03 U	0.0285 U	0.14 U	0.0326 U	0.249	0.13 J	0.10 U	0.10 U	0.099 U	0.11 U
Calcium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1620	845	737	7050	3300
Chromium	mg/kg	N	NS	16.20	16.70	21.40	18.50	15.80	9.18	19.50	30.20	38.10	14.20	12.90	13.50	21.40	28.80	20.40	21.50	30.70	15.00	17.50	15.40	17.90	28.20	17.4	20.8
Cobalt	mg/kg	N	NS	3.61 B*	6.6	9.3	8.0	6.1	1.43 B*	11.4	6.4	6.41 B*	7.3	4.28 B*	3.4	6.6	8.1	11.8	5.1	8.3	3.7	30.1	6.30	4.0 J	11.20	9.1	6.0
Copper	mg/kg	N	600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38.9	27.2	22.6	85.0	76.6
Iron	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16300	9780	30900	22400	29000
Lead	mg/kg	N	800	7.23	7.58	9.7	21.8	16.5	8.69	402	15.1	10.6	28.8	7.57	7.85	13.3	166	18.1	157	328	77.5	265	40.30	23.50	11.30	42.8	116
Magnesium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	712	352	5250	5510	2710
Manganese	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.0	51.2	521.0	209	156
Mercury	mg/kg	N	270	0.114 U	0.114 U	0.114 U	0.115 U	0.118 U	0.123 U	0.42	0.124 U	0.131 U	0.131 U	0.119 U	0.109 U	0.21	0.124 U	0.19	0.09	0.10	0.22	0.28	0.045 J	0.040 J	0.012 J	0.53	0.59
Nickel	mg/kg	N	2400	6.4	10.8	23.5	13.1	13	3.72	29.7	13.6	14.2	14	5.78	7.79	13.3	23.1	27.9	16	18.7	20.5	29.8	14.30	7.80	27.20	25.4	23.9
Potassium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	677	254	2590	560	1220
Selenium	mg/kg	N	3100	0.414 B*	0.262 U	0.262 U	0.332 B*	0.269 U	0.281 U	0.576 B*	0.284 U	0.3 U	1.58	0.303 B*	0.314 U	0.517	1.47	0.498 U	1.03	0.465 U	1.5	0.522 U	1.4	0.54 J	0.48 U	0.97 J	1.5
Silver	mg/kg	N	4100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.11 U	0.11 U	0.11 U	0.32 J	0.17 J
Sodium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	72.5 J	40.4 J	309	876	394
Thallium	mg/kg	N	72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0 J	1.6 J	3.4	2.7	1.4 J
Vanadium	mg/kg	N	7100	22.1	21.5	26.6	27.6	24.2	12.3	24.2	23.7	24.1	22.7	18.9	19.9	24.1	26.3	70.6	34.5	84.1	52.8	174.0	25.7	42.3	29.6	93.1	84.5
Zinc	mg/kg	N	1500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	55.9	33.4	58.1	77.4	60.5

			Area	AOC 16A																							
			Location ID	S0837	S0883	S0884	S3282	S3282	S3282	S3283	S3283	S3283	S4167	S4167	S4168	S4168	S4171	S4171	S4293	S4293	S4293	S5031	S5031	S5031	S5035	S5035	S5035
			Field Sample ID	S0837G4	S0883D3	S0884C3	S3282A3	S3282F1	S3282G1	S3283A2	S3283C4	S3283G1	S4167E2	S4167G4	S4168F1	S4168H2	S4171D3	S4171H1	D04111412	S4293F3	S4293G4	S5031A3	S5031H1	S5031J2	S5035B4	S5035H1	S5035H4
			Sample Depth	13.5 - 14	7 - 7.5	5 - 5.5	1 - 1.5	10 - 10.5	12 - 12.5	0.5 - 1	5.5 - 6	12 - 12.5	8.5 - 9	13.5 - 14	10 - 10.5	14.5 - 15	7 - 7.5	14 - 14.5	13.5 - 14	11 - 11.5	13.5 - 14	1 - 1.5	14 - 14.5	18.5 - 19	3.5 - 4	14 - 14.5	15.5 - 16
			Sample Date	08/28/2002	11/25/2002	11/12/2002	04/04/2013	04/04/2013	04/04/2013	03/27/2013	03/29/2013	03/29/2013	05/01/2014	05/01/2014	05/02/2014	05/02/2014	05/01/2014	05/01/2014	04/11/2014	04/11/2014	04/11/2014	12/04/2015	12/04/2015	12/04/2015	12/03/2015	12/03/2015	12/03/2015
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Leached	CMI Soil Criteria	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Aluminum	mg/kg	N	NS	6280	16300	16400	2670	12400	10100	3010	4570	11200	5000	7220	1080	5610	9460	6820	15400	10700	14400	2260	6810	6960	2120	9240	11800
Antimony	mg/kg	N	340	0.86 U	0.81 U	0.80 U	0.649 J	3.70	0.608 U	0.559 UJ	0.577 U	0.578 U	1.21 J	0.837 U	0.930 U	0.867 U	0.832 U	0.843 U	0.873 U	1.03 U	0.811 U	0.45 U	0.483 U	0.455 U	0.45 U	0.772 U	0.481 U
Arsenic	mg/kg	N	20	1.4	4.6	4.2	2.99	16.1	1.78 J	1.28 J	2.04 J	1.38 J	11.5	3.61	5.07	3.39	5.18	1.32 J	2.12 UJ	**41.4**	0.767 U	2.1 UJ	15.1	2.69	3.56	7.84	6.02
Barium	mg/kg	N	47000	33.1	60.9	48.4	20.4	117	69.6	16.3	40.2	29.7	55.1	29.1	42.0	39.2	64.4	45.0	121	291 J	128	17.3	60.9	24	15.9	59.7	31
Beryllium	mg/kg	N	200	0.30 J	0.74	0.68	0.169 J	0.609	0.604 J	0.113 J	0.241 J	0.497 J	0.553 J	0.541 J	0.186 J	0.458 J	0.778	0.500 J	1.07	1.37	0.993	0.204 J	1.36	0.431 J	0.304 J	1.21	0.59
Cadmium	mg/kg	N	100	0.11 U	0.49 J	0.10 U	0.0346 U	0.700	0.0401 U	0.226 J	0.258 J	0.549 J	0.0942 U	0.0860 U	0.0955 U	0.0891 U	0.0855 U	0.0866 U	0.448 U	0.789 J	0.416 U	0.0471 U	0.461 J	0.0477 U	0.0471 U	0.179 J	0.0504 U
Calcium	mg/kg	N	NS	284	387	443	618	7810	395	964	645	249	5620	264	507	643	562	255	892 J	3320	1300 J	200	10800	317	189	15200	1750
Chromium	mg/kg	N	NS	9.5	21.2	21.1	12.0	25.3	15.0	6.22 J	9.90	15.6	12.3	14.3	3.19	8.15	21.1	8.45	24.4	22.4	27.0	6.33	15.4	9.53	12.4	15.4	21.5
Cobalt	mg/kg	N	NS	2.9 J	10.2	8.5	0.531	8.52	14.3	1.99	3.61	6.70	6.31	6.66	2.79	4.81	7.76	3.58	13.7	14.2	13.9	0.173 J	6.87	5.79	0.225 J	4.87	1.97
Copper	mg/kg	N	600	8.8	26.1	17.5	6.20	118	15.7	7.43	11.9	22.3	44.5	12.5	22.0	9.22	21.5	10.2	25.0 J	187	17.5 J	5.91	74.6	13.6	6.89	40.4	16.8
Iron	mg/kg	N	NS	10300	21700	26800	12400	28100	19200	8010	9780	26200	20400	19800	6370	10400	18900	10800	33200	30900	31400	7950	28700	13700	11900	12400	21200
Lead	mg/kg	N	800	4.0	12.1	9.9	8.96	93.2	8.54	9.58	8.70	9.06	23.4	4.55	17.1	3.84	10.2	3.09	19.8	124	18.6	6.05	48.6	6.71	6.54	28.7	12.9
Magnesium	mg/kg	N	NS	1830	3440	3620	221	2440	2190	581	815	2520	738	1940	77.0	1620	2420	1870	6100	2190	8170	95.7	1770	1780	51.4	1680	1320
Manganese	mg/kg	N	NS	78.6	189	346	30.3	149	254	45.5	47.2	168	68.5	101	8.49	270	338	95.5	557	175	755	19.1	126	119	9.11	97.3	47.7
Mercury	mg/kg	N	270	0.012 U	0.015 J	0.012 U	0.0107 U	4.31	0.0119 U	0.109 J	0.0196 J	0.0116 U	0.266	0.0114 U	0.0952 J	0.0110 U	0.0228 J	0.0117 U	0.0118 U	1.16	0.0109 U	0.011 U	0.737	0.0107 U	0.0138 J	1.94	0.173
Nickel	mg/kg	N	2400	8.1	21.4	17.1	1.13	84.2	18.1	4.73 J	6.97	11.5	19.5	11.0	12.3	8.96	18.5	10.0	27.4	87.6	31.5	0.543 J	46.1	8.36	0.663 J	24.1	8.41
Potassium	mg/kg	N	NS	1320	1750	1770	415	1280	1310	325	762	1210	477	960	99.7	895	1440	1170	2640	1020	3210	460	915	1090	399	1590	1130
Selenium	mg/kg	N	3100	0.67 J	0.87 J	0.5 U	0.756 U	1.46 J	0.875 U	0.804 U	0.831 U	0.832 U	1.18 UJ	0.905 U	1.21 J	0.937 U	0.900 U	0.911 U	2.48	7.05	2.31	0.91 U	1.36 UJ	0.921 U	0.91 U	1.56 U	0.973 U
Silver	mg/kg	N	4100	0.12 U	0.11 U	0.11 U	0.147 U	1.84	0.170 U	0.156 U	0.162 U	0.162 U	0.211 J	0.192 U	0.214 U	0.199 U	0.191 U	0.194 U	0.201 U	0.652 J	0.186 U	0.132 U	0.85	0.19 UJ	0.158 J	0.226 U	0.365 UJ
Sodium	mg/kg	N	NS	301	142	212	61.9 J	276	217	61.4 J	131	265	245	200	175	214	391	197	486	428	629	90.9 J	390	179	43 J	987	503
Thallium	mg/kg	N	72	1.2 U	1.1 U	1.1 U	0.388 U	8.11	0.450 U	0.413 U	0.427 U	0.428 U	1.29 UJ	0.612 UJ	0.654 U	1.29 J	0.759 UJ	0.592 U	0.613 U	0.727 U	0.570 U	0.822 U	0.883 U	0.832 U	0.822 U	1.41 U	0.879 U
Vanadium	mg/kg	N	7100	14.6	32.4	32.1	17.8	410	26.4	19.7 J	20.5	28.6	76.7	25.3	41.5	13.3	40.6	15.3	33.0	258	24.6	12.6	192	14.5	20.9	123	47.2
Zinc	mg/kg	N	1500	21.0	65.3	44.8	7.72	182	43.5	14.7	18.1	36.8	141	29.4	17.6	23.1	37.3	21.8	67.1	626 J	78.0	4.55	109	28.3	6.76	42.6	20.1

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

Table 5
SUMMARY OF METALS RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	SWMU 51																															
			Location ID	SB-0264	S0491	S0754	S0754	S0754	S0754	S0755	S0755	S0755	S0755	S0901	S2573	S2573	S2574	S2574	S2575	S2575	S2576	S2576	S2576	S2577	S2577	S2578	S2578	S2784	S2900	S2900	S4102	S4102	S4102	S4102	S4102
			Field Sample ID	SC	S0491B2	S0754A2	S0754A4	S0754B3	S0754F3	S0755A1	S0755A4	S0755C2	S0755F3	S0901C2	S2573B1	S2573C1	S2574B1	S2574C1	S2575B2	S2575B4	D1011073	S2576B4	S2576C2	S2577B2	S2577C2	S2578B2	S2578C2	S2784B4	D1011123	S2900A4	D1205139	S4102A2	S4102B1	S4102T	S4102TL
			Sample Depth	4 - 6	2.5 - 3	0.5 - 1	1.5 - 2	3 - 3.5	11.0 - 11.5	0 - 0.5	1.5 - 2	4.5 - 5	11 - 11.5	4.5 - 5	2 - 2.5	4 - 4.5	2 - 2.5	4 - 4.5	2.5 - 3	3.5 - 4		3.5 - 4	4.5 - 5	2.5 - 3	4.5 - 5	2.5 - 3	4.5 - 5	3.5 - 4		1.5 - 2		0.5 - 1	2 - 2.5		
			Sample Date	10/14/1996	08/13/1999	07/11/2002	07/11/2002	07/11/2002	07/11/2002	07/10/2002	07/10/2002	07/10/2002	07/10/2002	11/18/2002	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	10/12/2007	10/12/2007	04/01/2013	10/11/2012	10/11/2012	12/05/2013	12/05/2013	12/05/2013	09/10/2014	09/11/2014
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	FD	REG	FD	REG	REG	REG	REG
Parameter Name	Report Units	Leached	CMI Soil Criteria	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Aluminum	mg/kg	N	NS	--	--	6610	6610	12900	4930	--	11900	12900	10200	7870	10900	7980	14800	10100	7680	8470	11500	8740	15700	17700	13900	68600	12800	10800	--	--	--	--	--	--	--
Antimony	mg/kg	N	340	0.199 B*	2.80	10.7 U	10.7 U	11 U	12 U	--	17.3	12.1 U	10.9 U	0.78 U	34.8	1.18 J	1.78 J	0.947 U	2.83	1.52 J	8.99	7.13	1.20 J	5.40	3.09	4.86 J	4.74 U	0.562 U	--	--	--	--	--	--	--
Arsenic	mg/kg	N	20	4.14	10.6	4.49	4.49	9.92	2.87	--	15.3	10.1	6.3	2.7	12.9	3.91	8.69	3.75	2.75	6.77	**30.8**	**32.2**	3.42 J	14.7	6.77	15.8	17.8	3.85	**23.0**	9.03	--	**20.2 J**	--	--	--
Barium	mg/kg	N	47000	36.5	296	39.3	39.3	364	95.1	--	119	61.8	69.3	31.8	76.3	32.7	74.6	41.3	29.5	33.1	153	202	80.6	116	166	799	37.9	35.5	--	--	--	--	--	--	--
Beryllium	mg/kg	N	200	0.460 B*	0.220	1.07 U	1.07 U	14.2	1.2 U	--	0.98 U	1.45	1.09 U	0.82	0.899	0.539 J	0.872	0.581	0.519 J	0.704	0.632 J	0.501 J	0.533 J	1.13	0.991	4.17	1.02 J	0.925	--	--	--	--	--	--	--
Cadmium	mg/kg	N	100	0.0968 B*	0.0285 U	1.07 U	1.07 U	1.1 U	1.2 U	--	0.98 U	1.21 U	1.09 U	0.10 U	0.396 J	0.390 U	0.344 U	0.341 U	0.371 U	0.391 U	0.0883 U	0.118 J	0.418 U	0.0717 U	0.390 U	0.344 U	0.342 U	0.0371 U	--	--	--	--	--	--	--
Calcium	mg/kg	N	NS	--	--	329	329	14500	1650	--	1250	514	1350	787	6330	581	2980	325	1920	824	6830	8580	1530	17400	1910	21200	1090	383	--	--	--	--	--	--	--
Chromium	mg/kg	N	NS	30.2	21.5	11.8	11.8	138	14.9	--	43.4	23	20.7	16.0	25.8	14.4	25.4	19.0	13.9	20.0	18.1	25.8	19.1	56.0	22.3	166	26.1	15.5	--	--	--	--	--	--	--
Cobalt	mg/kg	N	NS	6.40	5.12	3.43	3.43	100	6.94	--	9.04	14	11.7	3.7 J	12.3	4.04	6.60	2.66	5.87	3.33	15.1	5.62	7.28	9.19	9.29	35.6	5.91	2.63	--	--	--	--	--	--	--
Copper	mg/kg	N	600	--	--	9.63	9.63	**2890**	9.33	--	100	18.8	5.86	10.8	176	13.9	27.3	2.39	36.3	20.3	192	211	30.8	95.3	48.8	78.4	25.5	1.72	--	--	--	--	--	--	--
Iron	mg/kg	N	NS	--	--	15700	15700	122000	15600	--	45400	40200	27600	13500	54600	24600	28600	19300	16800	20200	26500	12900	15200 J	43800	22200	123000	48200	20100	--	--	--	--	--	--	--
Lead	mg/kg	N	800	15.1	157	10.7	10.7	**2210**	11	--	387	15.9	8.26	14.1	354	11.2	42.7	2.24	27.8	21.9	180	189	16.9	74.4	93.7	62.7	37.5	3.90	49.6	35.7	--	**1100 J**	94.5	**897**	734
Magnesium	mg/kg	N	NS	--	--	917	917	4010	2560	--	1490	1770	4310	972	2990	649	2860	715	2000	1170	799	1090	2210	8460	2300	4760	1400	706	--	--	--	--	--	--	--
Manganese	mg/kg	N	NS	--	--	81.5	81.5	1130	471	--	206	319	257	120	325	149	208	97.8	185	127	132	134	434 J	203	235	398	145	121	--	--	--	--	--	--	--
Mercury	mg/kg	N	270	0.124 U	0.0900	0.11 U	0.11 U	0.11 U	0.12 U	0.11	0.11	0.12 U	0.11 U	0.035 J	0.147	0.0135 J	0.0465 J	0.0113 U	0.0760 J	0.0419 J	0.173	0.103 J	0.0312 J	0.166	0.0611 J	0.0339 J	0.0903 J	0.0519 J	--	--	--	--	--	--	--
Nickel	mg/kg	N	2400	13.6	16.0	8.99	8.99	1550	18.6	--	30.8	18.6	20	7.8	42.3	5.50	14.9	5.77	13.4	8.85	23.2	22.9	12.4	27.6	17.0	55.4	10.5	4.47	--	--	--	--	--	--	--
Potassium	mg/kg	N	NS	--	--	708	708	1110	397	--	1480	1130	2030	944	1160	1070	2030	1690	862	1030	970	717	1620 J	1620	1380	11000	2190	1560	--	--	--	--	--	--	--
Selenium	mg/kg	N	3100	0.284 U	1.03	2.14 U	2.14 U	4.2	2.39 U	--	2.36	2.17	1.31	0.59 J	1.08 U	1.21 J	1.04 U	1.03 U	1.12 U	1.18 U	3.04	3.25	1.33 J	1.08 U	1.17 U	5.18 U	5.14 U	0.809 U	--	--	--	--	--	--	--
Silver	mg/kg	N	4100	--	--	1.07 U	1.07 U	1.1 U	1.2 U	--	0.98 U	1.21 U	1.09 U	0.11 U	0.523 J	0.204 U	0.180 U	0.178 U	0.194 U	0.204 U	1.07	1.21	0.219 U	0.427 J	0.204 U	4.61	1.96 J	0.157 U	--	--	--	--	--	--	--
Sodium	mg/kg	N	NS	--	--	84.5	84.5	3380	459	--	208	12.1 U	10.9 U	121	574	134	417	110	669	133	1680	1220	276	880	154	2120	183 U	34.6 J	--	--	--	--	--	--	--
Thallium	mg/kg	N	72	--	--	1.07 U	1.07 U	1.1 U	1.2 U	--	4.91 U	4.83 U	2.17 U	1.1 U	3.27	3.39	3.53	2.65	3.16	1.95 J	4.72	1.54 J	3.33	3.82	3.36	18.7	4.99 U	0.724 J	--	--	--	--	--	--	--
Vanadium	mg/kg	N	7100	23.7	34.5	18	18	38.5	16.2	--	50.3	32.4	26.7	20.2	33.0	25.6	44.6	25.5	26.0	31.7	40.2	86.7	29.3	53.1	32.3	116	43.6	27.2	--	--	--	--	--	--	--
Zinc	mg/kg	N	1500	--	--	55.6	55.6	**10500**	63.4	--	399	98.7	54.3	29.8	236	29.8	62.1	18.1	79.0	30.3	167	195	60.2	97.1	152	**6510**	56.2	19.3	--	--	--	--	--	--	--

			Area	SWMU 51																															
			Location ID	S4102	S4102R1	S4103	S4103	S4103	S4103	S4107	S4107R1	S4109	S4109R1	S4109R1	S4109R1	S4110	S4110	S4111	S4111R1	S4111R1	S4855	S4855	S4856	S4856	S4857	S4857	S4858	S4858	S4980	S4980	S4991	S4992	S5687
			Field Sample ID	S4102TL2	S4102R1A2	S4103A1	S4103T	S4103TL	S4103TL2	S4107B1	S4107R1A4	S4109B4	S4109R1A1	S4109R1A3	S4109R1A4	D1205139A	S4110A3	S4111A1	S4111R1B2	D04051811	S4111R1A1	S4855A1	S4855B1	S4856A2	S4856B1	D0722159	S4857A3	S4858A3	S4858A4	S4980A2	S4980B1	S4991A2	S4992A2	S5687A2
			Sample Depth		0.5 - 1	0 - 0.5				2 - 2.5	1.5 - 2	3.5 - 4	0 - 0.5	1 - 1.5	1.5 - 2		1 - 1.5	0 - 0.5	2.5 - 3	0 - 0.5	0 - 0.5	0 - 0.5	2 - 2.5	0.5 - 1	2 - 2.5		1 - 1.5	1 - 1.5	1.5 - 2	0.5 - 1	2 - 2.5	0.5 - 1	0.5 - 1	0.5 - 1
			Sample Date	09/11/2014	04/05/2018	12/03/2013	09/10/2014	09/11/2014	09/11/2014	12/03/2013	04/05/2018	12/02/2013	07/22/2015	07/22/2015	04/05/2018	12/05/2013	12/05/2013	12/02/2013	07/22/2015	04/05/2018	04/05/2018	07/22/2015	07/22/2015	07/22/2015	07/22/2015	07/22/2015	07/22/2015	07/22/2015	07/22/2015	08/19/2015	08/19/2015	09/01/2015	09/01/2015	04/05/2018
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	FD	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Leached	CMI Soil Criteria	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Aluminum	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	mg/kg	N	340	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	mg/kg	N	20	--	7.58	11.3	--	--	--	**34.9**	5.74	**20.4**	--	--	6.33	10.6 J	10.1 J	**31.2**	--	7.05	8.29 J	--	--	--	--	--	--	--	7.08	--	--	--	--	9.41
Barium	mg/kg	N	47000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	mg/kg	N	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	N	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	N	600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	N	800	--	--	**6420**	**8130**	**8100**	--	**855**	--	131	310	45.3	--	73.6 J	103	**9480**	467	--	--	102	5.9	**865**	21.3	236	246	**1250**	42.9	**850**	15.6	328	83.3	--
Magnesium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	N	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	N	2400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	N	3100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	N	4100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/kg	N	NS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	mg/kg	N	72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	N	7100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	N	1500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

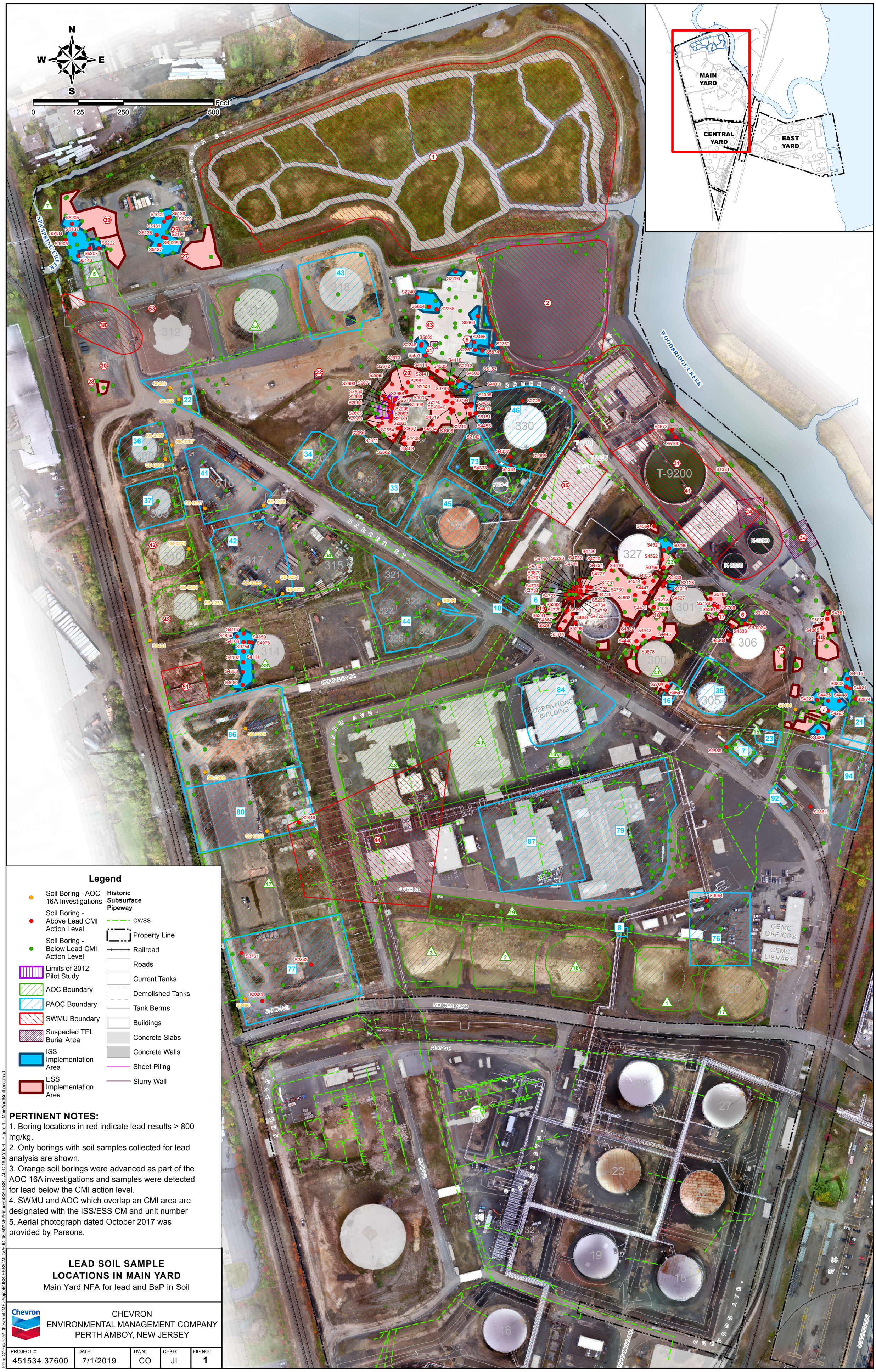
Table 5
SUMMARY OF METALS RESULTS IN SOIL
Justification for NFA Main Yard
Former Chevron Perth Amboy Facility

			Area	PAOC 46/73																														
			Location ID	S2144	S2144	S2145	S2145	S2416	S2416	S2416	S2449	S2449	S2726	S2726	S2726	S2728	S2728	S2728	S2728	S2729	S2729	S2729	S2827	S2827	S2827	S2828	S2828	S2828	S2829	S2829	S2829	S2829	S2830
			Field Sample ID	S2144B4	S2144D2	S2145C2	S2145E3	D0109073	S2416F3	S2416I1	S2449B4	S2449D4	S2726A3	S2726B3	S2726D4	S2728C2	S2728B1	S2728D2	S2728E1	S2729B4	S2729C2	S2729D4	S2827A2	S2827A4	S2827C2	S2828A1	S2828B1	S2828E1	D1025124	S2829A1	S2829B4	S2829C3	S2830A4
			Sample Depth	3.5 - 4	6.5 - 7	4.5 - 5	9 - 9.5	--	11 - 11.5	16 - 16.5	3.5 - 4	7.5 - 8	1 - 1.5	3 - 3.5	7.5 - 8	4.5 - 5	2 - 2.5	6.5 - 7	8 - 8.5	3.5 - 4	4.5 - 5	7.5 - 8	0.5 - 1	1.5 - 2	4.5 - 5	0 - 0.5	2 - 2.5	8 - 8.5	5 - 5.5	0 - 0.5	3.5 - 4	5 - 5.5	1.5 - 2
			Sample Date	12/08/2006	12/08/2006	12/08/2006	12/08/2006	01/09/2007	01/09/2007	01/09/2007	02/22/2007	02/22/2007	10/18/2012	10/18/2012	10/18/2012	10/19/2012	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/22/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/26/2012
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	**Report Units**	**Leached**	**CMI Soil Criteria**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
Aluminum	mg/kg	N	NS	3910 J+	21300 J+	16400 J+	15100 J+	5050	6490	20400	--	--	11900	7950	33900	14000	18200	10100	9120	8120	10000	17600	3800 J	6880	14400	9000	16500	11400	16900	5140	6100	18000	11100
Antimony	mg/kg	N	340	2.21 J	3.16 J	3.06	4.72 J	1.22 J	2.64	1.46 U	--	--	63.9	2.32 J	1.52 U	3.34	3.59	0.616 J	2.45 U	2.30 J	1.32 J	3.01 J	8.81 J	10.1	2.22 J	2.54	0.581 U	0.565 U	2.35 J	6.93	2.32 J	2.43	59.9
Arsenic	mg/kg	N	20	8.83	8.80	**30.3**	6.01 J	9.67	12.3	9.57	--	--	**46.8**	3.66	8.87	13.7	13.8	4.85	9.72 J	18.8	16.3	**32.9**	9.59 J	**40.1**	3.64	14.6	2.74	3.01	3.39	15.7	6.14	3.31	**24.0**
Barium	mg/kg	N	47000	22.5	60.8	78.9	47.0	40.2	47.5	50.0	--	--	104	39.7	86.1	74.8	59.0	44.6	24.9	43.8	62.7	49.7	19.3	71.1	45.8	61.5	51.1	87.4	44.0	36.1	36.9	53.0	18.6
Beryllium	mg/kg	N	200	0.258 J	1.17 J	0.999	0.653 J	0.357 J	0.460 J	1.04	--	--	0.869	0.424 J	1.76	1.13	1.06	0.754	0.804 J	0.604 J	1.73	1.56 J	0.248 J	0.558 J	0.624	0.538 J	0.704	0.878	0.576 J	0.333 J	0.463 J	0.608	0.765
Cadmium	mg/kg	N	100	0.0773 U	0.217 U	0.921 J	0.303 U	0.334 J	0.436 J	0.447 J	--	--	0.670	0.0382 U	0.100 U	0.551 J	1.32	0.254 J	0.343 J	4.28	0.790	0.575 J	0.723	0.924	0.284 J	0.994	0.485 J	0.494 J	0.307 J	1.01	0.477 J	0.286 J	0.581 J
Calcium	mg/kg	N	NS	404	3460	1610	3880	963	1510	2430	--	--	4170	1480	2480	2110	7070	2830	4680	834	2200	5140	454 J	1180	494	1670	1450	925	227	934	736	256	645
Chromium	mg/kg	N	NS	7.21	32.8	28.5	26.7	26.8	17.1	38.2	--	--	25.6	13.0	48.2	27.1	46.9	14.5	18.7	11.3	15.9	31.2	9.33	14.4	20.8	16.9	24.5	23.4	19.4	20.4	14.0	22.0	28.5
Cobalt	mg/kg	N	NS	4.91	8.13	14.7	4.33	4.00	5.44	9.30	--	--	10.3	4.65	12.6	9.69	20.0	6.31	11.4	13.7	12.9	18.8	2.72 J	7.11	8.25	6.09	9.42	8.71	6.67	4.09	7.47	6.36	2.79
Copper	mg/kg	N	600	48.6	21.8	129	25.0	58.8	79.8	16.6	--	--	414	26.4	28.7	61.6	165	43.3	84.8	60.0	160	39.9	65.5 J	146	14.5	120	18.9	17.1	11.2	199	75.1	11.3	52.2
Iron	mg/kg	N	NS	7270	22800	25900	15700	15300	14600	35500	--	--	24600	14400	36500	35800	31400	9880	10800	25000	13900	25800	14200	19100	19400	16100	26200	24500	18200	23300	10400	20500	35300
Lead	mg/kg	N	800	42.5	19.8	106	10.4	41.2	77.0	16.6	250	18.5	**1410**	63.9	35.1	158	153	24.5	32.8	61.5	125	41.6	122 J	204	11.4	561	24.3	10.3	8.36	195	49.8	8.56	451
Magnesium	mg/kg	N	NS	339	6390	1540	5770	616	1350	6790	--	--	3750	2490	9050	3240	10700	2570	5190	328	950	6350	603 J	692	3790	893	4350	4590	3580	1140	446	3890	1040
Manganese	mg/kg	N	NS	69.2	286	748	58.5	93.5	132	324	--	--	275	169	317	578	352	176	80.8	58.6	141	170	39.5 J	139	146	176	252	404	102	99.0	99.9	115	35.1
Mercury	mg/kg	N	270	0.0286 J	0.0339 U	0.347	0.0504 U	0.0413 J	0.0627 J	0.0536 J	--	--	0.286	0.264	0.0506 J	0.153	0.578	0.0628 J	0.724	0.0450 J	0.0651 J	0.172 J	0.248 J	0.200	0.0239 J	0.153	0.0381 J	0.0206 J	0.0283 J	1.59	0.229	0.0240 J	0.0379 J
Nickel	mg/kg	N	2400	11.1	21.6	54.6	13.8	11.3	15.3	25.1	--	--	71.2	12.3	38.3	22.2	71.8	25.2	32.3	56.3	88.4	53.7	10.6 J	19.0	15.4	23.0	17.6	20.2	15.3	22.8	16.9	15.8	6.98
Potassium	mg/kg	N	NS	578	4630	1590	4340	663	928	4710	--	--	1880	1480	6580	2330	1310	768	2070	1370	913	3950	433	749	1960	726	2640	2930	2380	468	470	2370	2160
Selenium	mg/kg	N	3100	1.16 U	3.26 U	3.64	4.57 U	1.37 J	1.74 J	1.63 J	--	--	5.05	1.07 J	2.36 J	0.934 U	0.87 U	1.56 J	3.71 J	1.06 J	1.84 J	4.06 U	1.69 J	3.89	0.98 J	2.36	1.12 J	1.1 J	0.869 U	2.71	1.71 J	1.28 J	3.83
Silver	mg/kg	N	4100	0.508 J	0.990 J	0.984	0.794 U	0.324 J	0.498 J	0.439 J	--	--	1.17	0.162 U	0.425 U	0.230 J	0.640	0.170 U	0.686 U	0.193 U	0.192 U	0.789 U	0.884	1.17	0.159 U	0.955	0.173 J	0.244 J	0.169 U	0.925	0.164 U	0.168 U	2.07
Sodium	mg/kg	N	NS	776	5830	1150	13900	420	454	4760	--	--	703	400	6460	253	1260	1320	8520	934	2640	8570	102 J	359	582	371	147	257	482	164	335	536	102 J
Thallium	mg/kg	N	72	1.58 U	4.44 U	1.71 U	6.21 U	1.51 U	1.56 U	2.15 U	--	--	0.413 U	0.429 U	1.12 U	0.480 U	0.447 U	0.450 U	1.81 U	0.509 U	0.507 U	2.08 U	0.433 U	0.491 J	1.01 J	0.425 U	0.430 U	0.418 U	1.15 J	0.456 U	0.432 U	0.808 J	1.14 J
Vanadium	mg/kg	N	7100	14.9	49.2	49.6	43.6	51.7	22.6	47.4	--	--	51.8	23.0	70.1	51.1	68.0	29.5	29.9	39.9	28.0	49.2	64.1	37.7	32.1	72.6	39.1	36.2	31.5	75.3	26.1	34.9	45.0
Zinc	mg/kg	N	1500	66.2	47.6	134	26.6	37.8	52.7	70.7	--	--	574	43.5	102	99.7	150	55.9	57.3	454	630	80.8	62.6 J	87.4	42.3	89.4	47.3	43.5	39.4	127	38.7	43.4	74.0

			Area	PAOC 46/73																														
			Location ID	S2830	S2830	S2830	S2832	S2832	S2832	S2832	S2905	S3881	S3881	S3881	S3881	S4332	S4332	S4332	S4333	S4333	S4333	S4334	S4334	S4334	S4334	S4335	S4335	S4335	S4337	S4337	S4337	S4337	S5151
			Field Sample ID	S2830B2	S2830C2	S2830H2	S2832A3	S2832B3	S2832E1	S2832G4	S2905A4	S3881A1	S3881A3	S3881B2	S3881G1	S4332A2	S4332B3	S4332E3	S4333A3	S4333B4	S4333E2	D06041513	S4334A3	S4334C4	S4334E2	S4335A4	S4335D1	S4335E2	D06031513	S4337A2	S4337B3	S4337E2	S5151B4
			Sample Depth	2.5 - 3	4.5 - 5	14.5 - 15	1 - 1.5	3 - 3.5	8 - 8.5	13.5 - 14	1.5 - 2	0 - 0.5	1 - 1.5	2.5 - 3	12 - 12.5	0.5 - 1	3 - 3.5	9 - 9.5	1 - 1.5	3.5 - 4	8.5 - 9	--	1 - 1.5	5.5 - 6	8.5 - 9	1.5 - 2	6 - 6.5	8.5 - 9	--	0.5 - 1	3 - 3.5	8.5 - 9	3.5 - 4
			Sample Date	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/26/2012	10/10/2012	08/16/2013	08/16/2013	08/16/2013	08/16/2013	06/09/2015	06/09/2015	06/09/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/04/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	05/09/2016
			Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	**Report Units**	**Leached**	**CMI Soil Criteria**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**	**Report Result**
Aluminum	mg/kg	N	NS	7050	5680	4900	6510	2220	15600	11500	--	13600	12000	5090	11200	8920	9810	8810	8180	5220	11800	6530 J	14100	11700 J	11200 J	14300	8300	10300 J	7260	16200	4430	11300 J	--
Antimony	mg/kg	N	340	51.4	1.62 J	1.07 J	3.14	1.08 J	2.77 U	1.15 J	--	0.822 U	0.935 U	1.29 J	0.857 U	12.7	3.64	0.410 U	121	0.376 U	0.380 U	1.09 J	**362**	1.35 J	1.65 UJ	12.2	1.54 UJ	1.82 UJ	0.621 UJ	10.6	0.614 UJ	3.66 UJ	--
Arsenic	mg/kg	N	20	**50.5**	6.64	0.411 U	2.79	2.70	7.01 J	1.66 J	8.93	13.3	**35.0**	**40.1**	3.77	18.0	7.59	2.88	**105**	2.97	3.68	19.0	**174**	13.6	6.25 J	19.7	8.15	12.1 J	9.75	19.8	11.3	**24.0 J**	--
Barium	mg/kg	N	47000	65.7	49.0	18.4	26.5	11.2	40.6	39.0	--	120	59.1	29.0	47.9	44.4	57.1	19.1	51.7	31.5	55.2	51.7	72.2	52.0	24.0 J	99.3	41.4	19.0 J	34.4	147	32.4	17.0 J	--
Beryllium	mg/kg	N	200	0.638	0.439 J	0.280 J	0.299 J	0.117 J	0.924 J	0.506 J	--	0.825	1.02	0.322 J	0.411 J	0.635	0.718	0.474 J	0.756	0.416 J	0.568 J	0.520 J	0.973	0.779	0.735 J	5.49	0.744	0.884 J	0.591 J	9.56	0.500 J	1.13 J	--
Cadmium	mg/kg	N	100	1.01	0.297 J	0.152 J	0.439 J	0.197 J	0.470 J	0.222 J	--	0.421 J	0.598 J	0.671	0.0881 U	1.15	0.219 UJ	0.0410 U	2.99	0.116 UJ	0.0380 U	0.110 UJ	7.67	0.206 UJ	0.165 UJ	0.541 UJ	0.238 UJ	0.227 UJ	0.0465 U	0.261 UJ	0.0559 UJ	0.160 UJ	--
Calcium	mg/kg	N	NS	1460	935	301	2060	385	6150	312	--	1840	1300	830	354	1900	862	522	1970	911	226	1310	1870	1290	3810 J	7400	1150	4620 J	1050	8520	1090	3900 J	--
Chromium	mg/kg	N	NS	14.2	9.50	7.22	14.3	7.32	34.3	14.5	--	28.9	20.9	11.8	16.9	22.8	12.1	9.59	21.3	7.28	15.0	11.9	24.9	16.5	17.1 J	43.3	14.4	15.0 J	11.8	65.2	8.08	13.9 J	--
Cobalt	mg/kg	N	NS	7.90	9.62	2.56	3.63	0.346 J	14.4	5.08	--	14.2	18.6	13.0	5.67	6.56	7.01	3.21	10.1	3.60	6.85	8.23	8.12	8.62	3.33 J	20.7	9.68	5.85 J	8.45	38.5	5.35	15.3 J	--
Copper	mg/kg	N	600	91.2	34.1	4.01	48.0	3.51	11.0	11.3	--	127	110	31.9	10.7	118	43.5	7.08	214	17.0	7.07	36.6	256	37.2	5.61 J	**811**	61.7	11.2 J	40.8	**1440**	33.3	11.8 J	--
Iron	mg/kg	N	NS	24200	9580	7980	13800	9430	13100	13400	--	29800	15700	18500	14100	31300	11400	9160	21600	6120	14300	11200	25500	14900	8650 J	36900	14000	16000 J	23700	55400	10300	107000 J	--
Lead	mg/kg	N	800	356	90.5	2.49	35.5	7.50	11.4	5.43	**889**	210	86.0	37.1	10.6	237	53.6	4.85	**1320**	16.5	7.83	43.4	**2740**	33.0	7.45 UJ	576	39.9	6.91 J	24.6	**1050**	36.2	12.9 J	**2400**
Magnesium	mg/kg	N	NS	453	425	1850	2010	180	6890	3120	--	3910	1660	1620	3210	2450	1040	1970	1920	478	2870	672	1100	859	4760 J	4090	1880	5850 J	481	6050	349	4300 J	--
Manganese	mg/kg	N	NS	107	94.6	54.0	61.8	18.7	76.9	80.6	--	683	133	1070	106	167	182	52.7	179	42.6	80.4	880 J	114	239 J	25.4 J	349	161	36.7 J	95.1	545	141	209 J	--
Mercury	mg/kg	N	270	0.0491 J	0.0306 J	0.0128 U	0.348	0.0118 U	0.0685 J	0.0126 U	--	0.388	0.316	0.208	0.0111 U	0.339	0.0281 J	0.0117 U	0.248	0.0318 J	0.0126 J	0.202 J	0.371	0.0301 J	0.0474 UJ	0.649	0.112 J	0.0564 U	0.0634 J	0.442	0.0475 J	0.0485 U	--
Nickel	mg/kg	N	2400	19.4	19.7	6.36	12.3	0.772 J	28.3	12.3	--	25.6	78.8	81.2	13.4	27.3	16.7	8.55	44.7	10.4	11.1	23.9	41.1	24.4	12.6 J	177	40.5	17.2 J	33.4	405	19.7	44.2 J	--
Potassium	mg/kg	N	NS	637	488	1260	581	273	3280	2110	--	1930	1220	971	1730	928	967	1500	751	468	1640	730	925	920	2330 J	1010	681	2170 J	484	1250	301	1760 J	--
Selenium	mg/kg	N	3100	11.5	1.32 J	0.896 U	1.09 J	1 J	3.98 U	0.947 J	--	1.89 J	3.43	3.82	0.927 U	6.81	2.06 UJ	1.28 UJ	6.14	2.03 J	2.34	4.11	8.87	4.33	2.43 J	1.74 UJ	1.61 UJ	2.43 UJ	1.50 UJ	1.48 UJ	0.586 UJ	2.14 UJ	--
Silver	mg/kg	N	4100	1.59	0.164 U	0.174 U	0.181 J	0.162 U	0.774 U	0.173 U	--	0.330 J	0.321 J	0.222 J	0.197 U	0.694	0.224 U	0.236 U	5.17	0.217 U	0.219 U	0.244 U	6.22	0.242 U	0.950 UJ	2.35	0.372 UJ	1.05 UJ	0.687 UJ	2.84	0.241 U	2.41 UJ	--
Sodium	mg/kg	N	NS	196	913	161	291	19.3 U	8400	829	--	478	1030	398	1110	439	1360	349	313	452	578	1120 J	238	2720 J	9380 J	1280	2040	15300 J	1560	1340	379	9490 J	--
Thallium	mg/kg	N	72	0.456 U	0.433 U	0.461 U	0.439 U	0.429 U	2.05 U	0.525 J	--	0.577 U	0.657 U	0.657 U	0.603 U	0.906 U	0.945 U	0.995 U	0.861 U	0.912 U	0.920 U	1.03 U	0.877 U	1.02 U	4.00 UJ	1.47 UJ	1.02 U	4.42 UJ	1.13 U	2.48 UJ	1.02 U	3.88 UJ	--
Vanadium	mg/kg	N	7100	35.6	20.9	11.1	37.8	13.7	44.3	22.5	--	40.6	32.2	15.3	26.6	47.7	25.0	15.3	39.8	14.8	23.8	26.7	36.9	34.5	32.2 J	62.8	34.2	35.5 J	27.1	76.2	17.3	32.6 J	--
Zinc	mg/kg	N	1500	87.3	36.1	15.2	66.9	5.39	24.3	27.6	--	229	353	226	36.3	111	45.2	18.2	282	28.2	30.4	47.3	217	61.8	31.1 J	**2610**	85.1	14.7 J	38.1	**5050**	33.5	128 J	--

Notes:
Highlighted indicates exceedance to CMI action level
NS - No action level limit available for this parameter
U - Analyte not detected at that concentration
J - Analyte concentration estimated
-- indicates the parameter was not analyzed

FIGURES



PERTINENT NOTES:

1. Boring locations in red indicate lead results > 800 mg/kg.
2. Only borings with soil samples collected for lead analysis are shown.
3. Orange soil borings were advanced as part of the AOC 16A investigations and samples were detected for lead below the CMI action level.
4. SWMU and AOC which overlap an CMI area are designated with the ISS/ESS CM and unit number
5. Aerial photograph dated October 2017 was provided by Parsons.

LEAD SOIL SAMPLE LOCATIONS IN MAIN YARD

Main Yard NFA for lead and BaP in Soil

CHEVRON
ENVIRONMENTAL MANAGEMENT COMPANY
PERTH AMBOY, NEW JERSEY

PROJECT #:	DATE:	DWN:	CHKD:	FIG NO.:
451534.37600	7/1/2019	CO	JL	1

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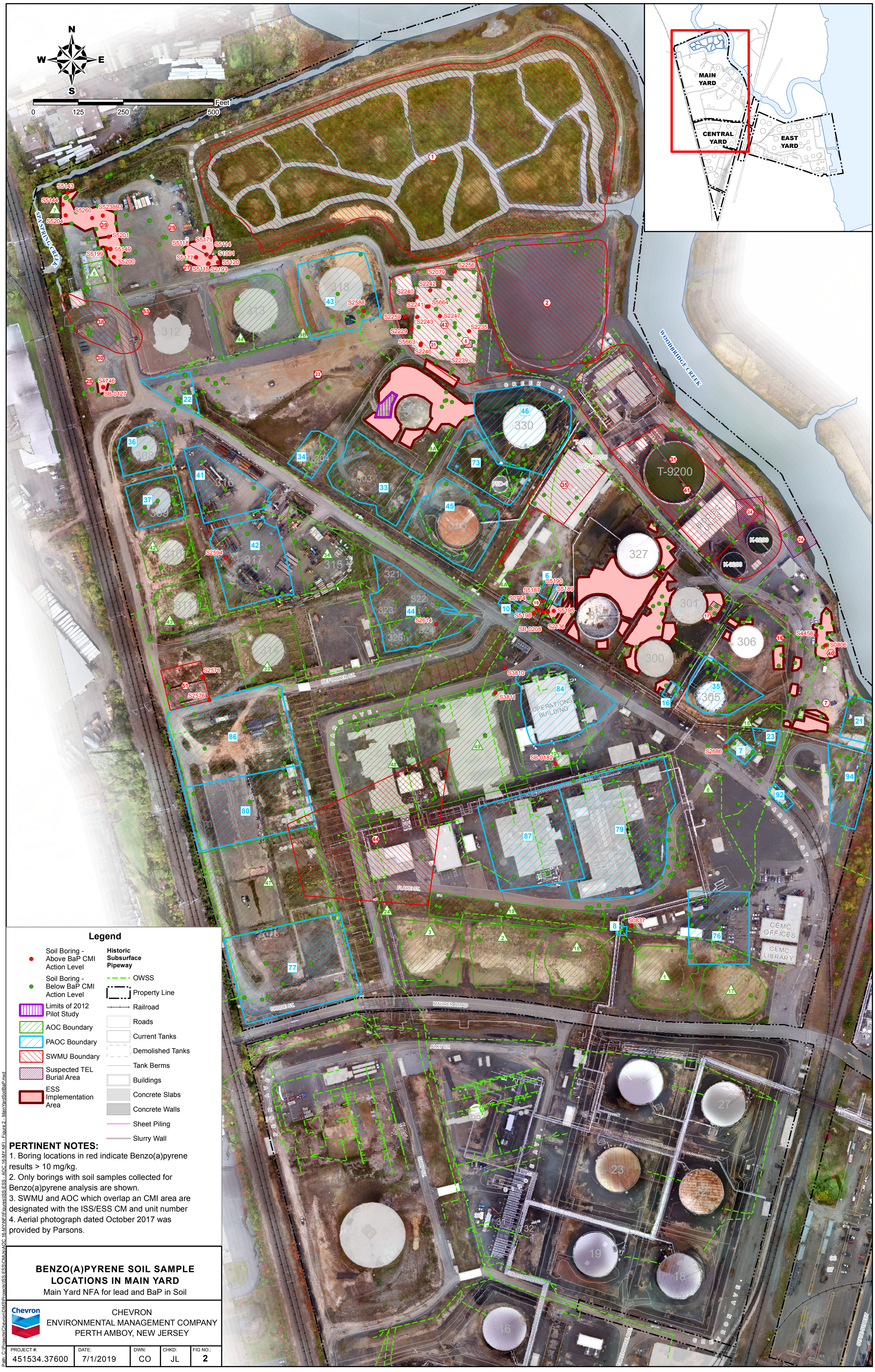

Legend

- Soil Boring - Above BaP CMI Action Level
- Soil Boring - Below BaP CMI Action Level
- Limits of 2012 Pilot Study
- AOC Boundary
- PAOC Boundary
- SWMU Boundary
- Suspected TEL Burial Area
- ESS Implementation Area

Historic Subsurface Pipeway

- OWSS
- Property Line
- Railroad
- Roads
- Current Tanks
- Demolished Tanks
- Tank Berms
- Buildings
- Concrete Slabs
- Concrete Walls
- Sheet Piling
- Slurry Wall

PERTINENT NOTES:

1. Boring locations in red indicate Benzo(a)pyrene results > 10 mg/kg.
2. Only borings with soil samples collected for Benzo(a)pyrene analysis are shown.
3. SWMU and AOC which overlap an CMI area are designated with the ISS/ESS CM and unit number
4. Aerial photograph dated October 2017 was provided by Parsons.

BENZO(A)PYRENE SOIL SAMPLE LOCATIONS IN MAIN YARD

Main Yard NFA for lead and BaP in Soil

Chevron

CHEVRON
ENVIRONMENTAL MANAGEMENT COMPANY
PERTH AMBOY, NEW JERSEY

PROJECT #:	DATE:	DWN:	CHKD:	FIG NO.:
451534.37600	7/1/2019	CO	JL	2

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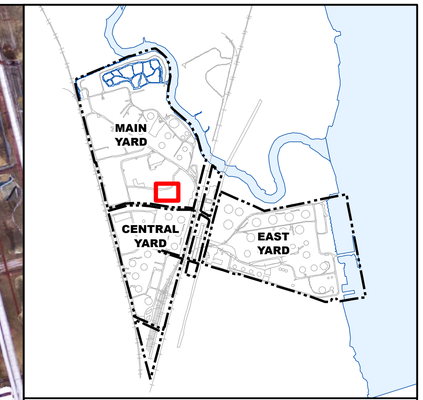


LEGEND

- Soil Boring - Above BaP CMI Action Level
- Soil Boring - Below BaP CMI Action Level
- Soil Boring - No Analytical Sample Results
- Estimated Extent of ESS Area for BaP > 10 mg/kg in Soil
- LNAPL Extent

Historic Subsurface Features

- OWSS, CI Shutoff Valve
- OWSS, Catch Basin
- OWSS, Manhole
- Historical OWSS Line

Topographic Contours

- 1' Contour
- 1' Contour Depression
- 5' Contour
- 5' Contour Depression

Boring ID — Ground Surface Elev. (ft, NGVD)

S4617 - GS 18.1
17.1' to 16.6': 0.001 J+
14.1' to 13.6': 0.026 UJ

Benzo(a)pyrene Results (mg/kg)

Elevation Range (ft, NGVD)

GENERAL NOTES:

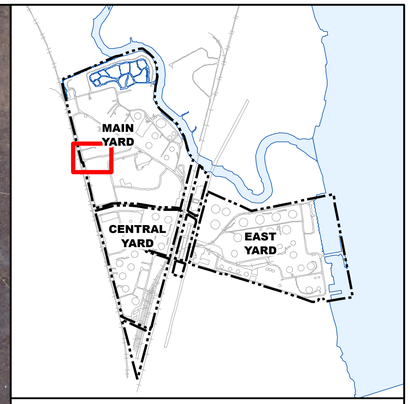
1. Red bold text indicates analytical value exceeds the criteria.
2. Benzo(a)pyrene CMI action criterion = 10 mg/kg.
3. Aerial photograph dated October 2017 was provided by Parsons.
4. The horizontal datum is the New Jersey State Plan Coordinate System NAD83.
5. The vertical datum is the National Geodetic Vertical Datum of 1929 (NGVD29).
6. "U" = Compound not detected above level of the reported quantitation limit.
7. "J" = Estimated value.
8. "UJ" = Analyte not detected above the appropriate

SOIL SAMPLE LOCATIONS AND BAP ANALYTICAL RESULTS IN AOC 16A

Main Yard NFA for Lead and BaP in Soil

CHEVRON
ENVIRONMENTAL MANAGEMENT COMPANY
PERTH AMBOY, NEW JERSEY

PROJECT #:	DATE:	DWN:	CHKD:	FIG NO.:
451534.37600	4/9/2019	CBO	JL	3



LEGEND

- Soil Boring - Above BaP CMI Action Level
- Soil Boring - Below BaP CMI Action Level
- Soil Boring - No Analytical Sample Results
- PAOC
- SWMU Boundary

Historic Subsurface Features

- OWSS, CI Shutoff Valve
- OWSS, Catch Basin
- OWSS, Cleanout
- OWSS, Manhole
- OWSS, Sump
- OWSS, Water Draw-Off
- Historical OWSS Line

Topographic Contours

- 1' Contour
- 1' Contour Depression
- 5' Contour
- 5' Contour Depression

Boring ID — Ground Surface Elev. (ft, NGVD)

S4617 - GS 18.1
17.1' to 16.6': 0.001 J+
14.1' to 13.6': 0.026 UJ

Benzo(a)pyrene Results (mg/kg)

Elevation Range (ft, NGVD)

GENERAL NOTES:

1. Red bold text indicates analytical value exceeds the criteria.
2. Benzo(a)pyrene CMI action criterion = 10 mg/kg.
3. Aerial photograph dated October 2017 was provided by Parsons.
4. The horizontal datum is the New Jersey State Plan Coordinate System NAD83.
5. The vertical datum is the National Geodetic Vertical Datum of 1929 (NGVD29).
6. "U" = Compound not detected above level of the reported quantitation limit.
7. "J" = Estimated value.
8. "UJ" = Analyte not detected above the appropriate

SOIL SAMPLE LOCATIONS AND BAP ANALYTICAL RESULT IN SWMU 51

Main Yard NFA for Lead and BaP in Soil

CHEVRON
ENVIRONMENTAL MANAGEMENT COMPANY
PERTH AMBOY, NEW JERSEY

PROJECT #:	DATE:	DWN:	CHKD:	FIG NO.:
451534.37600	4/10/2019	CBO	JL	4

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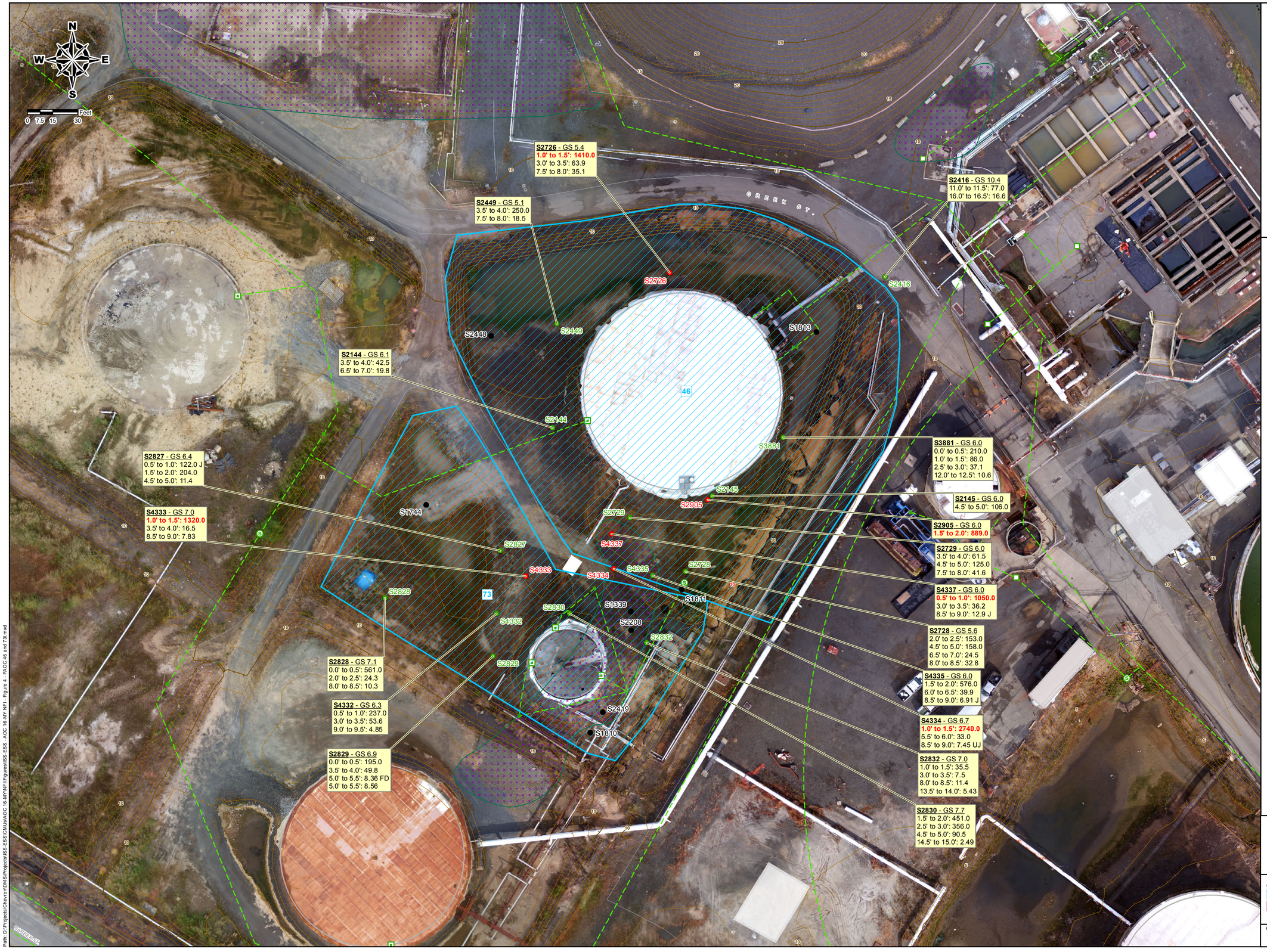

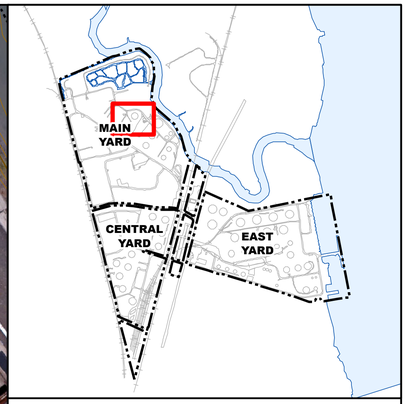

LEGEND

- Soil Boring - Above Lead CMI Action Level
- Soil Boring - Below Lead CMI Action Level
- Soil Boring - No Analytical Results
- PAOC
- LNAPL Extent

Boring ID — Ground Surface Elev. (ft, NGVD)

S4617 - GS 18.1
17.1' to 16.6': 0.001 J+
14.1' to 13.6': 0.026 UJ

Lead Results (mg/kg)

Elevation Range (ft, NGVD)

GENERAL NOTES:

1. Red bold text indicates analytical value exceeds the criteria.
2. Lead CMI action criterion = 800 mg/kg.
3. Aerial photograph dated October 2017 was provided by Parsons.
4. The horizontal datum is the New Jersey State Plan Coordinate System NAD83.
5. The vertical datum is the National Geodetic Vertical Datum of 1929 (NGVD29).
6. "U" = Compound not detected above level of the reported quantitation limit.
7. "J" = Estimated value.
8. "UJ" = Analyte not detected above the appropriate

SOIL SAMPLE LOCATIONS AND LEAD ANALYTICAL RESULTS IN PAOCS 46 AND 73

Main Yard NFA for Lead and BaP in Soil

CHEVRON
ENVIRONMENTAL MANAGEMENT COMPANY
PERTH AMBOY, NEW JERSEY

PROJECT #:	DATE:	DWN:	CHKD:	FIG NO.:
451534.37600	4/9/2019	CBO	JL	5

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APPENDIX A

Soil Boring Logs
(on CD)