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Region 2 RAC2 Remedial Action Contract

Final Phase II Environmental Site Assessment

Kingston Rail Yard Site
Targeted Brownfields Assessment
Kingston, New York

July 19, 2017

**CDM
Smith**



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PROJECT: EPA Region 2, RAC 2 Contract No.: EP-W-09-002
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SUBJECT: Final Phase II Environmental Site Assessment
Kingston Rail Yard
Targeted Brownfields Assessment
Kingston, New York

Dear Ms. Devine:

CDM Federal Programs Corporation (CDM Smith) is pleased to submit this Final Phase II Environmental Site Assessment (ESA) for the Targeted Brownfields Assessment (TBA) at the Kingston Rail Yard subject property located in Kingston, New York.

If you have any comments concerning this submittal, please contact me at (212) 377-4527.

Very truly yours,

CDM FEDERAL PROGRAMS CORPORATION

Brendan MacDonald, P.E., LEED® AP
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Acronyms

AAI	All Appropriate Inquiries
APWA	American Public Works Association
AWQS	ambient water quality standards
bgs	below ground surface
CDM Smith	CDM Federal Programs Corporation
CIH	Certified Industrial Hygienist
CLP	Contract Laboratory Program
CRQL	Contract required quantitation limit
Delta	Delta Geophysics Inc.
DER	Division of Environmental Remediation
DESA	Division of Environmental Science Assessment
DMC	Deuterated Monitoring Compounds
DPT	Direct Push Technology
DRO	diesel range organics
EM	electromagnetic
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
GPR	ground penetrating radar
GPS	Global Positioning System
GRO	gasoline range organics
HASP	health and safety plan
ICP	Inductive coupled plasma
ID	identification
IDW	Investigative derived waste
ITRC	Interstate Technology and Regulatory Council
J	estimated value
mg/kg	milligram per kilogram
MS/MSD	matrix spike/matrix spike duplicate
NELAC	National Environmental Laboratory Accreditation Program
NPDWS	National Primary Drinking Water Standard
NYCRR	New York Codes Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	polyaromatic hydrocarbon
PAL	Project Action Limit
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PID	photoionization detector
ppm	parts per million
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
QC	quality control
R	rejected
RAC	Remedial Action Contract
RECs	recognized environmental conditions
RSL	Regional Screening Level

SCO	Soil Cleanup Objectives
SDG	sample delivery group
SVOC	semivolatile organic compound
TAL	Target Analyte List
TBA	Targeted Brownfields Assessment
TCE	trichloroethene
TCL	Target Compound List
TOGS	Technical & Operational Guidance Series
TPH	total petroleum hydrocarbon
µg/kg	microgram per kilogram
µg/L	microgram per Liter
U	undetected
UJ	undetected estimated
UST	underground storage tank
VOC	volatile organic compound
%D	percent difference
%RSD	percent relative standard deviation

Executive Summary

This report presents the results of CDM Federal Programs Corporation's (CDM Smith) Phase II Environmental Site Assessment (ESA) for the Kingston Rail Yard (the "Site" or the "subject property") located in the City of Kingston, New York. This Phase II ESA was conducted on behalf of the United States Environmental Protection Agency (EPA) in response to a request from Ulster County (the County) for a Targeted Brownfields Assessment (TBA).

No previous investigations have been conducted at the subject property. The results of this Phase II ESA will assist Ulster County in delineating the limits of any contamination and identifying appropriate options for redevelopment and future use as possibly a tourist rail trail and anchor point for a larger green park.

The Kingston Rail Yard was an active switchyard from 1900 to 1979. Historic Sanborn maps (provided by Ulster County) dating back to 1950 confirm the usage of the site as rail yard. Ulster County (the Owner of Record) purchased the one-acre property in 1979. Since this time the property and nearby portions of the rail yard have included a tourist railroad as well as a mechanical repair and equipment/parts storage. Approximately one-acre in size, the subject property consists of one elongated parcel (48.80-1-31-100) along approximately 600 feet of railroad tracks, bound by O'Neil St and Cornell St. There are currently no structures on the property. Prior to May 2016, the property consisted of former railroad switches, oil-containing drums, scrap piles, and rail cars containing various mechanical parts and equipment. The property is currently zoned as General Commercial and Light Manufacturing. In May of 2016, the remaining rail cars/metal debris were removed from the site in preparation of Phase II investigation work. Currently, the property remains vacant, fenced and secured.

A Phase II ESA was planned in coordination with Ulster County and EPA Region 2. The following activities were completed by CDM Smith as part of the Phase II ESA:

- A limited geophysical survey using ground-penetrating radar (GPR), electromagnetic (EM) conductivity, and utility detection equipment to identify subsurface anomalies including the locations of any buried utilities, buried pipes, underground storage tanks (USTs) and to clear boring locations, identified the following:
 - Electric conduits, telecommunication, and natural gas utilities on the subject property.
 - A metallic anomaly measuring approximately 31 feet by 14 feet adjacent to the property entrance along Cornell Street; GPR transects did not image this anomaly likely associated with conductive soils.
 - A second metallic anomaly approximately 6 feet wide running the entire length of the northeast portion of the property; GPR transects imaged two shallow features traversing parallel to each other which is consistent with a former rail spur

- A third metallic anomaly measuring 7 feet by 3 feet, approximately 15 feet north of the utility pole in the center of the property; GPR transects imaged disturbed soils, consistent with metal debris.
 - A fourth metallic anomaly approximately 33 feet by 13 feet, adjacent and east of O'Neil Street and south of the rail spur; GPR transects did not image the anomaly, consistent with conductive soils.
 - A fifth metallic anomaly approximately 100 feet by 25 feet south of building #3 and north of the rail spur; GPR transects did not image the anomaly, however, a portion of a former rail spur was observed protruding from the ground adjacent to building #3, suggesting this anomaly may be a continuation of the potential rail spur (the second anomaly).
 - No clear indication of USTs.
- Eleven surface soil samples were collected from 0 to 6 inches below ground surface (bgs), screened via photoionization detector (PID), and analyzed for Target Compound List (TCL) semivolatile organic compounds (SVOCs), TCL polychlorinated biphenyls (PCBs), Target Analyte List (TAL) metals and Total Petroleum Hydrocarbons (TPH) Diesel Range Organics/Gas Range Organics (DRO/GRO).
 - Soil borings were installed via direct push technology (DPT), to characterize environmental media and to screen for potential impacts. Lithologic logging and PID screening of subsurface soil samples was performed at 11 locations co-located with the surface soil sample locations. Sample depths were based on the observance of potential contamination as indicated by staining, odors, or elevated PID readings. If no positive detection was observed during PID field screening, the subsurface soil sample was collected from the depth interval exhibiting visual evidence of contamination (e.g., staining); in the absence of evidence of contamination, samples were collected from the water table interface. All the subsurface samples were analyzed for TCL volatile organic compounds (VOCs), TCL SVOCs, TCL PCBs, TAL metals and TPH DRO/GRO.
 - Installation of 3 temporary monitoring wells to a depth of 25 feet bgs and subsequent collection of groundwater samples via low flow methodology and analysis for TCL VOCs, TCL SVOCs, TCL PCBs, TAL metals, and TPH (GRO and DRO).

CDM Smith Phase II ESA Conclusions

CDM Smith's conclusions, based on analytical results, historical property use and visual observations are summarized below.

- The geophysical survey confirmed no USTs were present on the subject property.
- In general, metals, polycyclic aromatic hydrocarbons (PAHs) and TPH DRO are present in the surface soil (0 to 0.5 feet bgs) property-wide.
- One subsurface soil sample (1 to 2 ft bgs, relatively close to the surface) exhibited exceedances of tetrachloroethene (PCE), metals, PAHs, and TPH DRO. Other subsurface soil

samples collected from deeper intervals did not yield any significant exceedances except for two PCB exceedances, one from 3 to 4 feet bgs and one from 18 to 20 feet bgs.

- All three groundwater samples collected from across the property exhibited VOCs and metals at concentrations above New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS).
- A summary of the analytical results associated with the various RECs follows:
 - REC 01 - Historic Property Use: Metals and SVOCs were detected at concentrations exceeding Unrestricted Use Soil Cleanup Objectives (SCOs) in the surface soil samples collected property-wide. PCE, metals, and PAHs were detected above the NYSDEC Unrestricted Use SCO in one subsurface soil sample collected in the western portion of the property at the former parts storage area. PCBs were detected at concentrations exceeding NYSDEC SCOs in the central portion of the subject property.
 - REC 02 – Surface Soil Staining: TPH DRO and PAHs related to fuel oil were observed in soil samples throughout the subject property. The highest concentrations of both contaminants were observed at the northern side of the property, where the main railroad track is located.
 - REC 03 – Off-site Contamination: Two chlorinated VOCs (PCE and trichloroethene [TCE]) were detected above AWQS in all three groundwater samples collected at depths of 25 feet bgs. Historical information provided by Ulster County and confirmed by NYSDEC indicated that the adjacent Spada Property located at 25 Field Court was the location of a former dry cleaner. Additionally, an investigation at the adjacent Field Court Site identified a TCE/PCE plume that extends approximately 180 feet bgs and is likely the source of the contamination observed in the groundwater at the subject property. The Field Court Site is approximately 100 feet southwest of the railroad and identified on **Figure 3-2**.
- The proposed future use of the subject property is a recreational pocket park/bike path and would fall under Commercial Use and passive recreational. Comparing the contaminant concentrations to the Commercial Use criteria yields the following: two metal exceedances (arsenic and copper) and two SVOC exceedances (benzo(a)pyrene and benzo(b)fluoranthene). Both SVOC and metal exceedances were from soils, collected within 0 to 1 foot bgs.

Recommendations

Based on the results of the Phase II Site Investigation activities, an evaluation of the subject property and the intended future use of the subject property, the following recommendations are made. If the future use should change, these recommendations will need to be reevaluated.

- In general, the contamination detected at the subject property appears to be manageable so long as direct contact is prevented. Remediation by overall site cleanup and surface soil removal (0 to 0.5 foot bgs) or isolation by capping of surface soils at concentrations above applicable standards is recommended. Based on the Phase II ESA sampling results, and

overall site cleanup, soil removal and backfilling with clean fill is recommended property-wide prior to installation of a pocket park/bike path. If isolation by capping of surface soils is employed, a deed restriction should be effected and a site-specific operation and maintenance plan developed (specifically including an inspection schedule with a log indicating findings and repair, especially after major storms) and implemented that would ensure the cap would remain in-place and that no intrusive work/soil removal would take place in the delineated area.

- Groundwater is not a source of drinking water at the subject property and future use is a recreational pocket park/bike path (i.e., no occupied structures). The low level of VOC contamination in groundwater is most likely associated with offsite sources and therefore no additional investigation is warranted at the subject property based on the expected future use. A deed restriction or environmental easement may be required by NYSDEC. Notwithstanding, the PCE and TCE contamination in groundwater could impact indoor air quality at locations downgradient of the subject property, and as such the source(s) and vertical and horizontal extent of the plume need to be identified to their full extent.
- When undertaking subject property development, it is recommended that the developer enlist a professional engineer or scientist to prepare a health and safety plan, construction contingency plans, and a soils management plan to safely and appropriately remove (and control) impacted materials. It is recommended that any work performed at the subject property be performed by an environmental professional (or if necessary a professional engineer) following approved plans and a site-specific health safety plan approved by a certified industrial hygienist (CIH).
- In the absence of excavation, engineering controls should be implemented. These controls would require (1) the installation of pavement or topsoil/vegetative cover or maintenance of a perimeter fence; and (2) that any construction involving the disturbance of soils, fill materials, or demolition of uncharacterized structures located within the subject property (including non-emergency excavation, which may be part of utility repair or maintenance, or construction) should not be performed without the involvement of a professional engineer, and must be conducted in accordance with local state and federal rules and regulations and provide adequate engineering controls and worker protection. In the absence of remediation, the values of adjacent and surrounding properties may be (and currently be) negatively impacted. The loss of property value may represent some risk to public welfare, yet this risk may not be considered significant risk.

Section 1

Introduction

This report presents the results of CDM Federal Programs Corporation's (CDM Smith) Phase II Environmental Site Assessment (ESA) for the Targeted Brownfield Assessment (TBA) at the Kingston Rail Yard (the "subject property"), located in the City of Kingston (the City), Ulster County, New York. The Phase II ESA was performed under the United States Environmental Protection Agency (EPA) Remedial Action Contract (RAC) 2 Contract Number EP-W-09-002, Work Assignment 029-SION-0200.

1.1 Purpose and Objectives

This Phase II ESA was conducted on behalf of the EPA, as part of a TBA performed for Ulster County, to investigate the potential for contamination associated with the historic operations of the Kingston Rail Yard. The objective of this Phase II ESA was to:

- To determine if USTs are present at the subject property and identify additional potential anomalies on the subject property
- Determine if soil and groundwater contamination exists above applicable criteria
- Collect hydrogeological information

The subject property is zoned mixed commercial and light industrial and proposed future use is a recreational pocket park/bike path. The remediation goal for the New York State Department of Environmental Conservation (NYSDEC) is Unrestricted Use to allow for flexibility in the development of the subject property. However, given the proposed future use, CDM Smith also compared to the commercial use SCOs given the future use.

1.2 Special Terms and Conditions

Special terms and conditions in relation to this project have been addressed throughout various sections of this assessment.

1.3 Limitations, Methodology and Exceptions of Investigation

The Phase II investigation conducted by CDM Smith in June of 2016 was executed in accordance with the following documents:

- "U.S. EPA Region 2 Brownfields Project Planning Guidance" (EPA 2000)
- "Generic Brownfields Quality Assurance Project Plan" (CDM Smith 2008)
- Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, May 2014 (EPA)

- NYSDEC Division Environmental Remediation (DER)-10 Technical Guidance for Site Investigations and Remediation, May 2010b (DER-10)
- 6 New York Codes Rules and Regulations (NYCRR) Part 375 Environmental Remediation Programs
- NYSDEC Technical & Operational Guidance Series (TOGS), Section 1.1.1 Ambient Water Quality Standards & Guidance Values and Groundwater Effluent
- 6 NYCRR Part 703 – Water Quality Standards
- “Final Site-Specific Quality Assurance Project Plan (QAPP), Kingston Rail Yard, Targeted Brownfields Assessment, Kingston, New York” (CDM Smith 2016a)
- “Site-Specific Health and Safety Plan (HASP), Kingston Rail Yard, Targeted Brownfields Assessment, Kingston, New York” (CDM Smith 2016b)
- “Final Work Plan, Targeted Brownfields Assessments for Selected Region 2 Brownfields Initiative Sites” (CDM Smith 2010)
- “Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process, Designation: E 1903-11” (ASTM International 2000) (Reapproved 2002)
- “Quality Assurance Guidance for Conducting Brownfields Site Assessments” (EPA 1998)

Site assessment activities, including reporting of findings and conclusions, were conducted in accordance with ASTM International site assessment guidance to the extent practicable with respect to the information gathered.

The results for this TBA Phase II ESA are based on a review of available information obtained through a review of historic records and previous environmental investigations, reconnaissance, a geophysical survey, and field sampling analytical data. The Phase II ESA was completed to identify, locate, and characterize contamination present at the subject property. To meet this objective, sample locations were chosen based on the subject property history obtained by CDM Smith. The results of the Phase II ESA only characterize the nature of contamination at the subject property; the ESA has not fully characterized the extent of contamination.

This assessment has been prepared and conducted under the guidance of a qualified environmental professional as defined in NYSDEC’s DER-10, 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries (AAI) and ASTM E1903-11. The conclusions represent CDM Smith’s professional opinions based on the aforementioned sources of information. A Phase II investigation is not a comprehensive site characterization or regulatory compliance audit, and should not be construed as such. CDM Smith cannot represent that the subject property contains no hazardous or toxic materials, products, or other latent conditions beyond those observed during the ESA. Further, the services herein shall not be construed, designed or intended to be relied upon as legal interpretation or advice. This report was prepared for the exclusive use by

EPA, and is not intended for use by any other parties. Use of this report by any other party is at their sole risk without liability to CDM Smith.

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Section 2

Subject Property Description

2.1 Subject Property Description

The subject property is comprised of Ulster County Tax ID 63.14-1-9.1, located between O'Neil St and Cornell St. Tax parcels are designated under the City of Kingston. Refer to **Figures 2-1** and **2-2** for the Site Location Map and Ulster County Industrial Development Agency map, respectively. The subject property is bounded to the south by Broadway, to the east by Cornell St, to the west by O'Neil St, and to the north by Tremper Ave. Based on a review of available information, including area topography, groundwater flow in the general property area is speculated to be northwesterly, towards the Esopus Creek. No site-specific surveyed well data or hydrologic information is available for the subject property.

2.2 Physical Setting, History and Land Use

The Kingston Rail Yard was an active switchyard from 1900 to 1979 when Ulster County (the current owner of record) purchased the property. Since this time the property and nearby portions of the rail yard have included tourist railroad as well as mechanical repair and equipment/parts storage. The subject property is approximately 1 acre in size and consists of an elongated parcel along approximately 600 feet of railroad tracks. There are no structures on the property. Prior to May 2016, the property consisted of former rail switches, oil containing drums, scrap piles and rail cars containing various mechanical parts and equipment. In May 2016, the remaining rail cars and metal debris were removed from the subject property in preparation of the Phase II investigation work. Reportedly the City of Kingston used the subject property to store sand and salt supplies for winter snow removal. Currently, the property remains vacant, fenced and secured.

Soil types on the subject property were generally consistent. The top 0 to 1 foot consisted of a brown to black sandy material with gravel. Brown sand was encountered below 1 foot bgs to a maximum depth of 25 feet bgs. Groundwater was encountered between 18 and 20 feet bgs. Well elevations were not surveyed as a part of the scope; groundwater flow direction is speculated to be northwest. The lithology for each boring is described in the boring logs presented as

Appendix A.

2.3 Adjacent Property Land Use

The surrounding area is industrial in nature and has likely contributed to the environmental concerns. Adjacent properties include or have included mechanical shops, a telephone company and a battery manufacturer. A commercial property adjacent to the subject property has been reported to have impacted soil and groundwater due to solvent contamination.

2.4 Summary of Previous Assessments

No previous environmental investigations have been conducted on the subject property. Several walkthroughs, relating to rail condition and maintenance were completed after the subject

property was purchased in the 1970s. Ulster County currently possesses electronic copies of the walkthrough reports. Ulster County has conducted walkthroughs of the subject property recently, during which several stained areas were observed. Based on the stated current and prior uses, potential contaminants may include fuel/oil constituents, paint solvents, and metals.

Section 3

Phase II Activities

3.1 Scope

The objectives of this Phase II ESA are to determine if contamination exists at the subject property based on the Recognized Environmental Concerns (RECs) identified during the May 2016 site reconnaissance, and if concentrations exceed Project Action Limits (PALs).

CDM Smith performed the following activities in June 2016 as part of this Phase II ESA:

- Preparation of a Site-Specific QAPP
- Preparation of a Site-Specific HASP
- Field planning meeting conference call on June 10, 2016
- Geophysical survey on June 13, 2016 to determine the presence of underground anomalies to plan subsurface investigation activities
- Subsurface investigations from June 14 through June 16, 2016 consisting of the following field activities:
 - Surface and subsurface soil sample collection at 11 locations:
 - Field screening of eleven (11) surface soil samples (KR-SS-01-A through KR-SS-11-A) using a photoionization detector (PID) to characterize environmental media and to screen for potential impacts. Surface soil samples were collected from 0 to 0.5 feet below ground surface (bgs) and analyzed for TCL semivolatile organic compounds (SVOCs), TCL PCBs, TAL, and Total Petroleum Hydrocarbons (TPH) Diesel Range Organics/Gas Range Organics (DRO/GRO).
 - Lithologic logging and field screening of eleven (11) subsurface soil samples (KR-SB-01-A through KR-SB-11-A) using a photoionization detector (PID) to characterize environmental media and to screen for potential impacts. Subsurface soil samples were collected from 1 to 25 feet bgs and analyzed for TCL VOCs, TCL SVOCs, TCL polychlorinated biphenyls (PCBs), TAL metals, and TPH DRO/GRO.
 - Installation of 3 temporary monitoring wells (KR-GW-01-1 through KR-GW-03-1) to a depth of 25 feet bgs, and subsequent collection of groundwater samples via low flow methodology. The groundwater samples were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, TAL metals, and TPH GRO/DRO.

Refer to **Figure 3-1** for sample locations.

3.2 Subject Property Access and Reconnaissance

In advance of the Phase II activities Ulster County allowed CDM Smith access to the subject property to perform the investigation. During the May 2016 site reconnaissance, the subject property was observed to be vacant, secured, and consisted of former rail switches, oil containing drums, scrap piles and rail cars containing various mechanical repair and equipment/parts storage.

Following the reconnaissance, 3 recognized environmental conditions (RECs) were identified, as described below. **Figure 3-2** shows the location of RECs and interpretive historic uses of the subject property based on the site reconnaissance.

REC 1 – Historic Use: Activities associated with the subject property’s historical uses as a rail line (including loading, unloading, and railcar maintenance) may have potentially used hazardous substances and petroleum products, including those containing PCBs, heavy metals, solvents, and other chemicals, for maintaining the railway and creosote to maintain wood rail ties. Discarded debris and waste were observed throughout the subject property corridor at the time of the reconnaissance. The potential impacts from contaminants typically associated with railroads and the debris represent RECs.

REC 2 – Surface Soil Staining: Stained soil on the subject property adjacent to the rail line, hydraulic oil or motor oil originating from the rail yard staging area.

REC 3 – Off-site Sources: The 25 Field Court Site (Spada Property) is located to the southwest of the subject property. A Phase I Environmental Site Assessment was completed for the property for use by 25 Field Court, LLC and Orthopedic Associates of Dutchess County. A chlorinated solvent plume has been identified at this property which could impact the subject properties environmental conditions.

3.3 Geophysical Survey

A limited geophysical survey was performed by Delta Geophysics Inc. (Delta) to identify any subsurface anomalies including underground storage tanks (USTs) and utilities. On June 13, 2016, a geophysical survey was completed for the subject property, including the following:

- A ground-penetrating radar (GPR) survey using a Geophysical Survey System Inc. SIR-3000 cart-mounted GPR unit with a 400-megahertz antenna System 2. The GPR unit was configured to transmit to a depth of approximately 10 feet bgs, but actual signal penetration was approximately 1-3 feet bgs due to either clay content or elevated moisture in the soil, or a combination of both. The limiting factor was signal attenuation near surface soils.
- A utility locator survey using a Radiodetection RD7000 precision utility detector and Fisher M-Scope TW-6 magnetic locator. The TW-6 and RD7000, used in conjunction, are designed to find subsurface pipes, cables and other metallic objects such as USTs. The TW-6 operates by generating a magnetic field at the transmitter which causes metallic objects in the subsurface to generate a secondary magnetic field. The induced secondary field is detected by the RD7000, which generates an audible tone when the instrument passes over an

underground metallic object causing a change in balance between the primary and secondary electromagnetic fields.

- A Geonics EM-61 Mark II time-domain metal detector was used to complete an electromagnetic (EM) conductivity survey. The EM method uses the principle of electromagnetic induction to measure the variability of electrical conductivity of subsurface materials. The EM-61 was used to detect both ferrous and non-ferrous metals buried up to 8 feet bgs.
- Coordinate mapping using a Trimble Global Positioning System (GPS) Pathfinder Pro XRS.

The geophysical survey was conducted by carrying the TW-6 and RD7000 instruments over accessible areas of the subject property. The cart-mounted GPR and survey was conducted by passing the unit over the accessible areas.

All detected utilities were marked with American Public Works Association (APWA) representative colors. A total of 11 locations were cleared for further sampling. There were no USTs detected within the subject property.

The results of the geophysical survey are summarized in Section 3.1; the geophysical survey report is presented as **Appendix A**.

3.4 Sampling Activities and Sample Analysis

Field notes and sampling information recorded during site activities including sampling equipment calibration forms are provided in **Appendix B**. Photo documentation is provided in **Appendix C**. Sample locations are shown on **Figure 3-1** and sample parameters are presented in **Table 3-1**. Analytical results are discussed in Section 4.

Samples were analyzed by a Contract Laboratory Program laboratory, KAP Technologies (KAP), for organic compounds TPH DRO/GRO. While KAP is not accredited by New York State Department of Health (NYSDOH) for TPH-DRO/GRO, KAP has National Environmental Laboratory Accreditation Program (NELAP) accreditation through Texas for TPH method 10005. Analyses were performed under the auspices of the EPA National Contract Laboratory program using a modification of the standard CLP method. EPA's Division of Environmental Science and Assessment (DESA) laboratory completed the remaining analyses, TCL SVOCs, TCL PCBs, and TAL metals. Surface soil samples, analytical parameters, and associated QC samples are presented in **Table 3-1**.

3.4.1 Surface Soil Samples

A total of 11 surface soil samples (KR-SS-01-A through KR-SS-11-A) were collected from across the subject property. All samples were field screened with a PID.

Surface soil samples were collected from 0 to 0.5 foot bgs or 0.5 to 1 foot bgs where the top 6 inches consisted of gravel using a disposable trowel. All samples were screened with a PID prior to sample collection. No PID readings were observed in the surface soil samples therefore, none of the samples were analyzed for TCL VOC.

3.4.2 Subsurface Soil Samples

Eleven subsurface samples were collected from 11 soil borings (KR-SB-01-A through KR-SB-11-A) advanced via DPT to determine lithology and the potential presence of contamination. All samples were field screened with a PID and observed for visual staining. One subsurface soil sample was collected per boring as described below. **Appendix D** presents Soil Boring and Temporary Well Construction Logs

Subsurface soil sample locations were dependent upon the observance of potentially contaminated soil as indicated by staining, odors, or elevated PID readings. If no positive detection was observed during PID field screening the subsurface soil sample was collected from the water table interface. Subsurface samples were collected at discrete 1 foot intervals. PID readings across the subject property were primarily non-detect for all samples except for KR-SB-01-A where total VOCs measured by the PID gradually increased with depth reaching the highest point of 64.5 parts per million (ppm) at the 14- to 15-foot interval where the sample was collected.

3.4.3 Temporary Monitoring Well Samples

Temporary monitoring wells were installed via DPT drilling. Samples (KR-GW-01-1 through KR-GW-03-1) were collected from three of the subsurface borings. Locations were determined based on location of RECs identified during the reconnaissance and historic subject property use. The temporary wells were comprised of one-inch diameter polyvinyl chloride (PVC) with five foot screens. Each temporary well was screened from approximately one foot above to four feet below the water table. The total depth of the temporary wells was 25 feet bgs. Groundwater samples were collected using ¼-inch inner diameter Teflon™-lined polyethylene tubing and a peristaltic pump. Prior to sampling, each temporary well was purged for a minimum of 30 minutes. Water quality parameters (including pH, specific conductivity, turbidity, dissolved oxygen, temperature and redox potential) were recorded at five-minute intervals. Groundwater samples were collected once water quality parameters stabilized after three consecutive readings. Groundwater parameters are summarized in the groundwater sampling logs, **Appendix E**.

3.4.4 Investigative Derived Waste

All soil cuttings and purge water were collected and containerized in 55 gallon drums and stored on subject property in a secured area. Seacoast Environmental collected investigative derived waste (IDW) soil and groundwater samples on August 11, 2016 and the drums were later removed for off-site disposal on August 26, 2016. Waste manifests are provided in **Appendix F**.

3.5 Deviations from the QAPP

The QAPP identified 10 sampling locations with two additional locations to be determined based on the GPR survey and reconnaissance observations. A total of 11 locations were sampled for surface and subsurface soil collection. Due to a bottle shortage from a laboratory shipment error, one of the 12 locations were omitted from the scope of work. No other deviations were made during the Phase II ESA from the QAPP.

Section 4

Summary and Evaluation of Results

This section describes the selection of evaluation criteria and summarizes the analytical results of the Phase II ESA samples. The results of this Phase II ESA will assist Ulster County in delineating the limits of any existing contamination and identifying appropriate options for redevelopment and future use.

The Data Validation Reports for all data are included in **Appendix G**.

4.1 Selection of Evaluation Criteria

In accordance with the Site-Specific QAPP, analytical results are compared to both federal and state PALs presented in Worksheet #15 and listed below.

Soil Criteria

- EPA RSLs for Chemical Contaminants at Superfund Sites (May 2014) for residential soil, adjusted to a cancer risk of 1E-6 and hazard quotient of 1
- NYSDEC CP-51/Soil Cleanup Guidance
- NYSDEC Subpart 375-6: Table 375-6.8(a): Unrestricted and Commercial Use Soil Cleanup Objectives (SCOs)

No EPA or NYSDEC standards exist for TPH DRO or GRO. VOC and SVOC soil results have been compared to Soil Cleanup Levels for Gasoline Contaminated Soils and for Fuel Oil Contaminated Soils, which are listed in Tables 2 and 3 of NYSDEC's CP-51 Soil Cleanup Guidance issued October 21, 2010 (NYSDEC 2010a). The soil cleanup criteria presented in NYSDEC's CP-51 Tables 2 and 3 are comparable to NYSDEC's Unrestricted Use SCOs.

The remedial goal for sites within NYS is to return the subject property to "Unrestricted Use". However, it is important to note that the current zoning of the subject proper and proposed future use by Ulster County falls under the commercial use SCO. Soil organic and inorganic PALs and analytical results are presented in Tables 4-1a-e for surface soil and subsurface soil samples, respectively.

Groundwater Criteria

- EPA National Primary Drinking Water Standards, EPA 816-F-09-0004, May 2009
- NYSDEC Part 703.5 Ambient Water Quality Standards for Class GA Groundwater (Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations)

Although the PALs are based on federal and state groundwater guidance values (referenced as "evaluation criteria" in this report), the federal regulations are less stringent than the remediation goals established for the subject property; therefore, groundwater analytical results

are compared to NYSDEC evaluation criteria. EPA guidance criteria will be included where applicable. The groundwater organic and inorganic PALs and analytical results are presented in **Tables 4-2a-e**.

4.2 Geophysical Survey Results

The geophysical survey was used as a tool for clearing the 11 sample locations prior to intrusive work. Subsurface utilities were marked in accordance with APWA representative colors. The survey identified electrical conduits, telecommunications, and natural gas lines. No USTs were detected on the subject property. All findings were discussed with the onsite representative, and borings were located at least five feet from all identified utilities. Copies of the geophysical survey report and subject property plots are provided as **Appendix A**.

4.3 Data Usability

All data were validated by EPA Region 2 by the EPA CLP or Region 2 DESA laboratory guidelines and have been reviewed to assess whether data quality is sufficient to support the project objectives. In general, all laboratory analyses were method compliant. Some quality control (QC) parameters were outside criteria; associated sample results were qualified accordingly. Data qualified as estimated (J/U) are usable for project decisions; rejected data (R) are not considered usable for project purposes. Data validation reports are included in **Appendix G**. QC outliers noted within the EPA validation reports are described below.

The CLP laboratory submitted six (6) sample delivery groups (SDGs) under CLP Case number 46251: BD2B1, BD2B2, BD2D2, BD2D3, BD2D7, and BD2E1. The DESA laboratory submitted four (4) sample summary reports under the project number 1606029.

- Analytical Blanks - No issues were identified for laboratory method blanks.
- Field Rinsate Blanks – Acetone contamination was present in both field blanks above the contract required quantitation limit (CRQL) but below the NYDEC criteria of 50 µg/kg. The associated sample results are flagged “J”. Acetone results reported from project samples should be used with caution. Concentrations reported near or below those identified in the field blanks (36 and 43 µg/L) may be false positives associated with field or analytical contamination.
- Trip blanks – Acetone contamination was present in the one trip blank above the CRQL and at the same level as the field rinsate blanks. The associated aqueous sample results were non-detects and did not require qualification.
- Deuterated Monitoring Compounds (DMCs) – One SVOC was qualified as estimated “J” due to high surrogate results.
- Percent Relative Standard Deviation (% RSD) and Percent Difference (% D) - These were calculated from the initial calibrations and the continuing calibration checks to indicate the stability of specific compound response factors over increasing concentration, and the instrument's daily performance. A value outside these limits indicates potential detection and quantitation errors. The reporting limits for some VOCs and some SVOCs were raised

accordingly due to issues associated with the initial calibration curve in associated samples. These compounds (bromomethane, cis-1,3-dichloropropane and 2-hexanone (VOCs) and 2,4-dinitrophenol (SVOC) have no listed soil NYSDEC values.

- Internal Standards – No issues were identified for this criterion.
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) – These QC data were generated to determine the long-term precision and accuracy of the analytical method in various matrices. No issues were identified for this criterion.
- Compound Identification - No issues were identified for this criterion.
- Field Duplicate – TPH DRO was outside the validation criteria in one (BD2D5 and BD2B7 [location KR-SB-07-A]) of the field duplicate sample pairs. The TPH DRO results were qualified as estimated.
- Inductively Coupled Plasma (ICP) Serial Dilution (Inorganics) - No issues were identified for this criterion.
- Analytical Duplicate Sample Analysis – No issues were identified for this criterion.

Holding Time – No issues were identified for this criterion.

The results estimated (1.3%) are usable for project decision. No sample results were rejected and all planned samples were collected. The data set is 100 percent complete based on planned versus actual samples collected and based on the percent judged to be valid versus total measurements. All results are usable for the project objectives and to evaluate the presence of contamination at the subject property. The TPH discrepancy of BD2D5 and BD2B7 was reviewed, the field logbook did not indicate a difference in physical appearances of the two samples.

Two field blanks were collected during the Phase II ESA. One field blank was collected by pouring deionized water over the sample-dedicated soil sampling equipment and into the appropriate sample bottles. One field blank was collected by pouring deionized water over the sample-dedicated groundwater sampling equipment and into sample bottles. Field blanks were submitted with the environmental samples and analyzed for the same parameters. The field blanks had detections for one VOC, acetone (a common laboratory contaminant) at concentrations less than the contract required quantitation limits (CRQLs). Acetone concentrations in associated samples were estimated. One trip blank was collected, shipped with the field samples, and analyzed for VOCs. Low concentration of acetone was found in the trip blank but not in associated samples.

4.4 Soil Sample Results

4.4.1 Surface Soil Analytical Results

Tables 4-1a through **4-1e** present the results of the organic and inorganic analytes in soil samples collected during this Phase II ESA. **Figures 4-1 and 4-2** show exceedances of the unrestricted use SCO for organic and inorganic compounds, respectively, in soil samples.

4.4.1.1 VOCs

VOCs were not analyzed in any surface soil samples.

4.4.1.2 TPH DRO and GRO

Since evaluation criteria have not been established by NYSDEC or EPA for TPH DRO and GRO, no exceedances of state or federal standards are recognized. TPH GRO was not detected in any of the surface soil sample collected. TPH DRO was detected in 10 of the 11 surface soil samples at low level concentrations ranging from 9,900 J (KR-SS-03-A) to 390,000 µg/kg (KR-SS-10-A).

4.4.1.3 SVOCs

Seven SVOCs were detected at concentrations exceeding NYSDEC Unrestricted Use in surface soil samples across the subject property. A summary of the concentration ranges and exceedances are presented below:

- *1,2-Benzophenanthracene* – Concentrations in KR-SS-01-A, KR-SS-02-A, KR-SS-03-A, KR-SS-07-A, KR-SS-08-A and KR-SS-09-A ranged from 1160 to 6170 micrograms per kilogram (µg /kg) and exceeded the Unrestricted Use SCOs of 1000 µg /kg. The highest concentration occurred at location KR-SS-03-A located at REC01 on the eastern portion of the subject property.
- *Benzo(a)anthracene* – Concentrations in KR-SS-01-A, KR-SS-02-A, KR-SS-03-A, KR-SS-07-A, KR-SS-08-A and KR-SS-09-A ranged from 1060 to 4470 µg/kg and exceeded the Unrestricted Use SCOs of 1000 µg /kg. The highest concentration occurred at location KR-SS-02-A located at REC-01 on the eastern portion of the site.
- *Benzo(a)pyrene* – Concentrations in KR-SS-02-A, KR-SS-07-A, KR-SS-08-A and KR-SS-09-A ranged from 1120 to 3070 µg /kg and exceeded the Unrestricted Use SCOs of 1000 µg /kg. The highest concentration occurred at location KR-SS-02-A located at REC01 on the eastern portion of the site.
- *Benzo(b)fluoranthene* – Concentrations exceeded the Unrestricted Use SCO of 1000 µg/kg in KR-SS-01-A, KR-SS-02-A, KR-SS-03-A, KR-SS-07-A, KR-SS-08-A and KR-SS-09-A; results ranged from 1050 to 6640 µg/kg and. The highest concentration occurred at location KR-SS-02-A located at REC-01 on the eastern portion of the site.
- *Benzo(k)fluoranthene* – Concentrations in KR-SS-02-A, and KR-SS-07-A [1470 and 1590 µg/kg] exceeded the Unrestricted Use SCO of 800 µg/kg. The highest concentration occurred at location KR-SS-02-A located at REC-01 on the eastern portion of the site.
- *Dibenzo(a,h)anthracene*– Concentrations in KR-SS-02-A and KR-SS-07-A, 451 and 374 µg/kg respectively, exceeded the Unrestricted Use SCOs of 330 µg/kg.
- *Indeno(1,2,3-c,d)pyrene* – Concentrations in KR-SS-01-A, KR-SS-02-A, KR-SS-04-A, KR-SS-07-A, KR-SS-08-A and KR-SS-09-A ranged from 595 to 1640 µg/kg and exceeded the Unrestricted Use SCOs of 500 µg/kg. The highest concentration occurred at location KR-SS-02-A located at REC-01 on the eastern portion of the site.

TPH DRO was observed throughout the property and is a likely source of the PAHs observed. TPH DRO concentrations in the seven samples containing SVOC detections ranged from 9,900 µg/kg in KR-SS-03-A to 390,000 µg/kg in KR-SS-10-A indicating a correlation between the elevated SVOC concentrations and TPH DRO in these samples.

4.4.1.4 PCBs

No PCBs were detected at concentrations above the method detection limit in any of the surface samples collected.

4.4.1.5 Metals

Seven metals were detected at concentrations exceeding the NYSDEC Unrestricted Use SCOs in surface soil samples. A summary of the exceedances is presented below.

- *Arsenic* – Concentrations in KR-SS-01-A and KR-SS-03-A were detected at 120 and 30 milligrams per kilogram (mg/kg) respectively exceeding the Unrestricted Use SCOs of 13 mg/kg.
- *Cadmium* – Concentrations in KR-SS-01-A and KR-SS-03-A were detected at 5.4 and 7.3 mg/kg respectively exceeding the Unrestricted Use SCO of 2.5 mg/kg.
- *Chromium* – Concentrations in KR-SS-01-A and KR-SS-03-A were detected at 190 and 220 mg/kg respectively, exceeding the Unrestricted Use SCO of 30 mg/kg.
- *Copper* – Concentrations in KR-SS-01-A, KR-SS-02-A, KR-SS-03-A, KR-SS-04-A, KR-SS-06-A, KR-SS-07-A, KR-SS-08-A, KR-SS-09-A and KR-SS-11-A ranged from 53 to 460 mg/kg, which exceeded the Unrestricted Use SCO of 50 mg/kg. The highest concentration was found in KR-SS-01-A located in REC-01 on the eastern portion of the subject property directly adjacent to Cornell St.
- *Lead* – Concentrations in KR-SS-01-A, KR-SS-02-A, KR-SS-03-A, KR-SS-04-A, KR-SS-05-A, KR-SS-06-A, KR-SS-07-A, KR-SS-08-A, KR-SS-09-A and KR-SS-11-A ranged from 90 to 180 mg/kg, which exceeded the Unrestricted Use SCO of 63 mg/kg. The highest concentration was in KR-SS-08-A located at REC01 located on the western portion of the property.
- *Nickel* – Concentrations in KR-SS-01-A and KR-SS-03-A were detected at 160 and 180 mg/kg respectively exceeding the Unrestricted Use SCO of 30 mg/kg.
- *Zinc* – Concentrations in KR-SS-02-A, KR-SS-03-A, KR-SS-05-A and KR-SS-06-A ranged from 140 to 330 mg/kg, which exceeded the Unrestricted Use SCO of 109 mg/kg. The highest concentration was in KR-SS-03-A located centrally on the subject property.

4.4.2 Subsurface Soil Analytical Results

Tables 4-1a through 4-1e presents the results of the organic and inorganic analytes detected in subsurface soil samples collected during this Phase II ESA. **Figures 4-1 and 4-2** show exceedances of the unrestricted use SCO for organic and inorganic compounds, respectively, in soil samples.

4.4.2.1 VOCs

PCE was detected in KR-SB-11-A (1 to 2 feet bgs in REC-01), at a concentration of 1,600 µg/kg, above the Unrestricted Use SCO of 1,300 µg/kg. No other VOCs were detected above the NYSDEC Unrestricted Use SCO.

4.4.2.2 TPH DRO and GRO

TPH GRO was not detected in any of the subsurface soil samples collected. TPH DRO was detected in five subsurface soil samples and concentrations ranged from 9,500 µg/kg (SB-900-B, field duplicate of KR-SB-11-A, 1 to 2 feet bgs) to 53,000 µg/kg (SB-900-A, field duplicate of KR-SB-7-A, 4 to 5 feet bgs); however, the results for KR-SB-07-A were non-detect. These were associated with REC 01 and located on the northwestern portion of the property.

4.4.2.3 SVOCs

Six SVOCs were detected at concentrations exceeding the Unrestricted Use in one of the soil boring locations (KR-SB-11-A) at a depth of 1 to 2 feet bgs. This soil boring was located at REC-01 and associated with the historic subject property use. A summary of the exceedance ranges is presented below:

PAH	Concentration in Subsurface Soil SB-11 (µg/kg)	NYSDEC Unrestricted Use SCO/CP-51 Soil Cleanup Level for Fuel Oil Contaminated Soil (µg/kg)
1,2-Benzphenanthracene (Chrysene)	1,950	1,000
Benzo(a)anthracene	1,920	1,000
Benzo(a)pyrene	1,510	1,000
Benzo(b)fluoranthene	2,720	1,000
Benzo(k)fluoranthene	947	800
Indeno(1,2,3-cd)pyrene	1,090	500

Since the TPH DRO level was also detected in the sample collected at KR-SB-11-A at 11,000 µg/kg, the SVOC exceedances may be related to presence of diesel fuel in this sample.

4.4.2.4 PCBs

Aroclor 1260 was detected at concentrations above Unrestricted Use SCOs. Concentrations in samples KR-SB-03-A (3 to 4 feet bgs) at a concentration of 270 µg/kg and exceeded the Unrestricted Use SCO of 100 µg/kg. Aroclor 1248 was detected in the sample collected at KR-SB-06-A (18 to 20 feet bgs) at a concentration of 120 µg/kg greater than the Unrestricted Use SCO of 100 µg/kg. Both samples were associated with REC-01, historic subject property usages.

4.4.2.5 Metals

Two metals were detected at concentrations exceeding the Unrestricted Use SCOs in subsurface soil samples. A summary of the exceedances is presented below.

- *Copper* – The concentrations of KR-SB-11-A (64 mg/kg) collected from 1 to 2 feet bgs exceeded the Unrestricted Use SCO of 50 mg/kg.
- *Lead* – The concentrations of KR-SS-11-A (79 mg/kg) exceeded the Unrestricted Use SCO of 63 mg/kg.

4.5 Temporary Monitoring Well Sample Results

4.5.1 Temporary Monitoring Well Sample Analytical Results

Tables 4-2a-e present the results of the organic and inorganic analytes detected in the temporary monitoring well samples. **Figure 4-3** shows exceedances for organic and inorganic compounds detected in groundwater samples.

4.5.1.1 VOCs

Two VOCs, PCE and TCE were detected above NYSDEC AWQS. The following is a summary of exceedances.

- *PCE* – Concentrations in KR-GW-02-1 and KR-GW-03-1 were detected at 180 and 120 µg/L respectively, exceeding the AWQS of 5 µg/L. KR-GW-02-01 was centrally located and KR-GW-03-1 was in the western portion of REC-01.
- *TCE* – Concentrations in all three samples exceeded the AWQS of 5 µg/L ranging from 14 µg/L (KR-GW-01-1) to 24 µg/L (KR-GW-02-1). All of these samples are associated with REC-03 and the adjacent Spada property.

4.5.1.2 TPH DRO and GRO

TPH DRO and GRO were not detected in the groundwater samples.

4.5.1.3 SVOCs

No SVOCs were detected in the groundwater samples.

4.5.1.4 PCBs

No PCBs were detected in groundwater samples.

4.5.1.5 Metals

Sodium exceeded NYSDEC AWQS. Calcium and potassium were detected in all three samples and the field duplicate; however, there are no current standards for these metals. Magnesium was detected in all three samples and the field duplicate at a concentration ranging from 2,700 to 4,600 µg/L, well below the NYSDEC AWQS of 35,000 µg/L. Manganese was detected in all three samples ranging from 27 to 120 µg/L, well below the NYSDEC AWQS of 300 µg/L. A summary of the NYSDEC AWQS exceedance is presented below.

- *Sodium* – Concentrations in all three samples plus the field duplicate KR-GW-900-1 (KR-GW-02-1), ranged from 58,000 µg/L to 88,200 µg/L and exceeded the AWQS of 20,000 µg/L. The highest concentration was in KR-GW-01-1 located within REC01 in the east portion of the subject property and associated with historic property use of sand and salt stockpiling.

4.6 Evaluation of Results

4.6.1 VOCs

VOCs were not analyzed in any surface soil samples. VOC exceedance in subsurface soil samples was limited to KR-SB-11-A (1-2 feet bgs) at 1,600 µg/kg associated with REC-01. PCE exceeded the NYSDEC Unrestricted SCO of 1,300 µg/kg at this location. Slightly elevated PID measurements were also observed at this boring location. No VOCs were detected in the deeper soil sample collected at 21 to 22 feet bgs.

VOCs were also detected in all three groundwater samples and the duplicate sample and could be associated with the adjacent Spada property at REC-03 described above. PCE was detected in KR-GW-02-2 and KR-GW-03-1 and TCE was detected in all three samples exceeding both the AWQS and the EPA NPDWS.

4.6.2 SVOCs

SVOC exceedances of Unrestricted Use SCOs in surface soil samples were detected in samples associated with REC-01 (KR-SS-01-A, KR-SS-02-A, KR-SS-03-A, KR-SS-04-A, KR-SS-07-A and KR-SS-08-A). The highest concentrations were observed in KR-SS-02-A, located in the eastern portion of the property. KR-SS-02-A, KR-SS-03-A and KR-SS-04-A were located along the central to eastern portion of the property (REC-01). KR-SS-07-A and KR-SS-08-A were in the central to western portion of the property (REC-01 and REC-02).

SVOC exceedances in subsurface soil were limited to KR-SB-11-A (REC-01 and REC-02), located in the western portion of the subject property. SVOCs exceeded the Unrestricted Use SCOs; the surface soil sample at this location contained some of the same SVOCs at concentrations above EPA RSLs, but below NYSDEC SCOs. TPH DRO was also detected above the method detection limit KR-SB-11-A, again indicating a correlation between SVOCs and the presence of diesel fuel products.

No SVOCs were detected above the method detection limit in the three groundwater samples collected across the subject property.

4.6.3 PCBs

No PCBs were detected above the method detection limit in any of the surface soil samples collected across the subject property.

Aroclor 1260 was detected at a concentration above the Unrestricted Use SCO in subsurface soil sample KR-SB-03-P2-2 (3 to 4 feet bgs). This location was in the central portion of the property. Aroclor 1248 was detected at a concentration above the Unrestricted Use SCO in the subsurface soil sample KR-SB-06-A (18 to 20 feet bgs). There were no PCB or pesticide detections in groundwater samples.

4.6.4 Metals

Metals were detected in surface soil samples across the subject property. Concentrations of arsenic, cadmium, chromium, copper, nickel and zinc exceeded Unrestricted Use SCOs. The highest concentration of arsenic was found in KR-SS-01-A located at the east end of the subject

property. The highest arsenic, cadmium, chromium and copper concentrations were found in KR-SS-01-A and KR-SS-03-A (REC-01) located in the central and eastern portion of the subject property. Copper and lead concentrations were detected property-wide with the highest concentrations in KR-SS-01-A (REC-01) and KR-SS-08-A (REC-01), located on the eastern portion and the western portion of the subject property, respectively. Elevated zinc concentrations were found in four samples with the highest concentration detected in KR-SS-03-A (REC-01).

Copper and lead were detected above NYSDEC Unrestricted Use SCO in one subsurface soil sample (KR-SB-11-A) collected in the western portion of the subject property. In groundwater, selenium was detected above AWQS in all the samples located across the subject property; all other metal detections were below AWQS.

4.6.5 Evaluation of RECs

A summary of the analytical results associated with the various RECs follows:

- **REC 01 - Historic Property Use:** TPH DRO was detected in ten surface soil samples associated with this REC; the highest concentrations were observed on the western portion of the subject property. PCE was detected in one subsurface soil sample collected within REC-01. TCE exceeded AWQS in all three groundwater samples collected at the subject property. PCE was detected above the AWQS in two of the three samples collected in the central and western portion of the subject property. PCBs were detected above NYSDEC Unrestricted Use SCOs in two subsurface soil samples collected within REC-01. SVOC exceedances were found in seven surface soil samples and one subsurface soil sample collected at REC-01. Metals exceedances were identified in all but one of the surface samples and one of the subsurface samples associated with this REC. No other exceedances of NYSDEC criteria were associated with this REC.
- **REC 02 – Surface Soil Staining:** TPH DRO was detected in ten surface soil samples associated with this REC; the highest concentrations were observed in the western portion of the subject property. SVOC exceedances were found in seven surface soil samples and one subsurface soil sample collected at REC-02. Metals exceedances were identified in all but one of the surface samples associated with this REC.
- **REC 03 – Adjacent Field Court Site:** TCE exceeded AWQS in all three groundwater samples collected at the subject property. PCE was detected above the AWQS in two of the three samples collected in the central and western portion of the subject property.

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Section 5

Conclusions and Recommendations

5.1 Conclusions

- A subject property geophysical survey was conducted and identified multiple subsurface utilities and five metallic anomalies; the metallic anomalies are presumed to be associated with near surface metal debris and/or former rail spur or spurs. USTs and other subsurface anomalies were not identified in the areas surveyed.
- Metals, SVOCs and TPH DRO are present in shallow surface soil samples located across the subject property. Concentrations of arsenic, cadmium, chromium, copper, lead, nickel and zinc exceeded NYSDEC Unrestricted Use SCOs in several samples. However, when compared to Commercial Standards for recreational use, there were only two metal exceedances and two SVOC exceedances and all of these elevated were found within the top 1 foot of soil.
- Based on the data generated during the Phase II ESA, CDM Smith concludes that contamination detected at the subject property is primarily in the unsaturated zone and is most prevalent in surface soils across the subject property. SVOCs and VOCs contamination in subsurface soil is limited to one location on the western portion of the property. Overall, soil contaminant concentrations associated with each REC could be associated with past uses at the subject property.
- Chlorinated VOC (CVOC) contamination in groundwater was identified across the subject property. VOCs in groundwater could be the result of an offsite source on the adjacent Field Court Site property based on available historical information.
- PCBs were identified in two of the subsurface samples above the NYSDEC Restricted Use SCO.
- When compared to Commercial Use the proposed future use of the subject property is a pocket park/bike path and would fall under Commercial Use and passive recreational. When comparing the contaminant concentrations to the Commercial Use criteria there are only two metal exceedances (arsenic and copper) and two SVOC exceedances (benzo(a)pyrene and benzo(b)fluoranthene).

5.2 Recommendations

Based on the results of the Phase II Site Investigation activities, an evaluation of the subject property and the intended future use of the subject property, the following recommendations are made. If the future use should change, these recommendations will need to be reevaluated.

- In general, the contamination detected at the subject property appears to be manageable so long as direct contact is prevented. Remediation by overall site cleanup and surface soil removal (0 to 0.5 foot bgs) or isolation by capping of surface soils at concentrations above

applicable standards is recommended. Based on the Phase II ESA sampling results, and overall site cleanup, soil removal and backfilling with clean fill is recommended property-wide prior to installation of a pocket park/bike path. If isolation by capping of surface soils is employed, a deed restriction should be effected and a site-specific operation and maintenance soil plan developed (specifically including an inspection schedule with a log indicating findings and repair, especially after major storms) and implemented that would ensure the cap would remain in-place and that no intrusive work/soil removal would take place in the delineated area.

- Groundwater is not a source of drinking water at the subject property and future use is a recreational pocket park/bike path (i.e., no occupied structures). The low level of VOC contamination in groundwater is most likely associated with offsite sources and therefore no additional investigation is warranted at the subject property based on the expected future use. A deed restriction or environmental easement may be required by NYSDEC. Notwithstanding, the PCE and TCE contamination in groundwater could impact indoor air quality at locations downgradient of the subject property, and as such the source(s) and vertical and horizontal extent of the plume need to be identified to their full extent.
- When undertaking subject property development, it is recommended that the developer enlist a professional engineer or scientist to prepare a health and safety plan, construction contingency plans, and a soils management plan to safely and appropriately remove (and control) impacted materials. It is recommended that any work performed at the subject property be performed by an environmental professional (or if necessary a professional engineer) following approved plans and a site-specific health safety plan approved by a certified industrial hygienist (CIH).
- In the absence of excavation, engineering controls should be implemented. These controls would require (1) the installation of pavement or topsoil/vegetative cover or maintenance of a perimeter fence; and (2) that any construction involving the disturbance of soils, fill materials, or demolition of uncharacterized structures located within the subject property (including non-emergency excavation, which may be part of utility repair or maintenance, or construction) should not be performed without the involvement of a professional engineer, and must be conducted in accordance with local state and federal rules and regulations and provide adequate engineering controls and worker protection. In the absence of remediation, the values of adjacent and surrounding properties may be (and currently be) negatively impacted. The loss of property value may represent some risk to public welfare, yet this risk may not be considered significant risk.

Section 6

References

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Tables

Table 3-1
Sample Parameters
Kingston Rail Yard - Targeted Brownfields Assessment
Kingston, New York

Sample	Description	Sample ID	CLP Number	Collection Date-Time	Depth Interval (feet)	PID Response (ppm)	QA/QC	Analyses
Surface Soil Samples								
1	East of Site	KR-SS-01-A	BD2C3	6/14/16 10:40	0 - 0.5	Non-Detect	-	VOCs, SVOCs, PCBs, Metals and GRO/DRO
2	Southeast of Site	KR-SS-02A	BD2C4	6/14/16 11:00	0 - 0.5	Non-Detect	-	
3	Northeast of Site	KR-SS-03-A	BD2C5	6/14/16 11:15	0 - .05	Non-Detect	-	
4	Southeast of Site	KR-SS-04-A	BD2C6	6/14/16 12:00	0 - 0.5	Non-Detect	-	
5	Northeast of Site	KR-SS-05-A	BD2C7	6/14/16 12:15	0 - 0.5	Non-Detect	-	
6	Northeast of Site	KR-SS-06-A	BD2C8	6/14/16 12:20	0 - 0.5	Non-Detect	-	
7	Northwest of Site	KR-SS-07-A	BD2C9	6/14/16 13:40	0 - 0.5	Non-Detect	-	
8	Southwest of Site	KR-SS-08-A	BD2D0	6/14/16 13:45	0 - 0.5	Non-Detect	-	
9	West of Site	KR-SS-09	BD2D1	6/15/16 12:50	0 - 0.5	Non-Detect	-	
10	West of Site	KR-SS-10-A	BD2C0	6/14/16 15:20	0 - 0.5	Non-Detect	-	
11	Southwest of Site	KR-SS-11-A	BD2D3	6/14/16 14:30	0 - 0.5	Non-Detect	-	
Subsurface Soil Samples								
1	East of Site	KR-SB-01-A	BD2B1	6/14/16 13:45	14 - 15	64.5	-	VOCs, SVOCs, PCBs, Metals and GRO/DRO
2	Southeast of Site	KR-SB-02-A	BD2B2	6/15/16 11:00	2 - 3	0.2	-	
3	Northeast of Site	KR-SB-03-A	BD2B3	6/15/16 8:45	3 - 4	10.5	-	
4	Southeast of Site	KR-SB-04-A	BD2B4	6/15/16 12:00	6 - 7	Non-Detect	-	
5	Northeast of Site	KR-SB-05-A	BD2B5	6/15/16 12:15	5 - 6	Non-Detect	-	
6	Northeast of Site	KR-SB-06-A	BD2B6	6/14/16 14:40	18 - 20	0.1	-	
7	Northwest of Site	KR-SB-07-A	BD2B7	6/14/16 13:40	4 - 5	0.1	SB-900-A	
8	Southwest of Site	KR-SB-08-A	BD2B7	6/15/16 11:20	7 - 8	0.4	-	
9	West of Site	KR-SB-09-A	BD2B9	6/15/16 13:10	4 - 5	Non-Detect	-	

Table 3-1
Sample Parameters
Kingston Rail Yard - Targeted Brownfields Assessment
Kingston, New York

Sample	Description	Sample ID	CLP Number	Collection Date-Time	Depth Interval (feet)	PID Response (ppm)	QA/QC	Analyses
10	West of Site	KR-SB-10-A	BD2C0	6/15/16 15:40	21 - 22	Non-Detect		VOCs, SVOCs, PCBs, Metals and GRO/DRO
11	Southwest of Site	KR-SB-11-A	BD2C1	6/15/16 15:40	1 - 2	1.4	-	
Groundwater Samples							-	VOCs, SVOCs, PCBs, Metals and GRO/DRO
1	Collected at KR-SB-01	KR-GW-01-1	BD2D7	6/16/16 10:00	-	-	-	
2	Collected at KR-SB-02	KR-GW-02-2	BD2D8	6/16/16 12:00	-	-	GW-900-1	
3	Collected at KR-SB-03	KR-GW-03-3	BD2D9	6/16/16 14:00	-	-	-	

Table 4-1a
Soil Sample Detections - VOCs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SB-01-A	KR-SB-06-A	KR-SB-10-A	KR-SB-02-A	KR-SB-03-A	KR-SB-04-A	KR-SB-05-A	KR-SB-07-A	SB-900-A	KR-SB-08-A	KR-SB-11-A	SB-900-B	KR-SB-09-A													
Location ID					KR-SB-01	KR-SB-06	KR-SB-10	KR-SB-02	KR-SB-03	KR-SB-04	KR-SB-05	KR-SB-07	KR-SB-07	KR-SB-08	KR-SB-11	KR-SB-11	KR-SB-09													
Sample Date					6/14/2016	6/14/2016	6/14/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016													
Matrix					SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO													
Sample Depth					14 - 15 feet	18 - 20 feet	21 - 22 feet	2 - 3 feet	3 - 4 feet	6 - 7 feet	5 - 6 feet	4 - 5 feet	4 - 5 feet	7 - 8 feet	1 - 2 feet	1 - 2 feet	4 - 5 feet													
Sample Type					N	N	N	N	N	N	N	N	FD	N	N	FD	N													
Parent Sample Code													KR-SB-07-A			KR-SB-11-A														
CLP#					BD2B1	BD2B6	BD2C0	BD2B2	BD2B3	BD2B4	BD2B5	BD2B7	BD2D5	BD2B8	BD2C1	BD2D6	BD2B9													
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q								
71-55-6	1,1,1-Trichloroethane	810000	680	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
79-34-5	1,1,2,2-Tetrachlorethane	600	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	4000000	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
79-00-5	1,1,2-Trichloroethane	150	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
75-34-3	1,1-Dichloroethane	3600	270	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
75-35-4	1,1-Dichloroethene	23000	330	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
87-61-6	1,2,3-Trichlorobenzene	6300	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
120-82-1	1,2,4-Trichlorobenzene	5800	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
106-93-4	1,2-Dibromomethane	36	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
95-50-1	1,2-Dichlorobenzene	180000	1100	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
107-06-2	1,2-Dichloroethane	460	20	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
78-87-5	1,2-Dichloropropane	1000	NL	µg/kg	4.9	UJ	4.9	UJ	5.1	UJ	4.3	UJ	4.5	UJ	5.3	UJ	5.9	UJ	4.7	UJ	4.7	UJ	5.1	UJ	4.7	UJ	6	UJ	4.4	UJ
541-73-1	1,3-Dichlorobenzene	NL	2400	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
106-46-7	1,4-Dichlorobenzene	2600	1800	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
78-93-3	2-Butanone (MEK)	2700000	NL	µg/kg	9.8	U	9.9	U	10	U	8.6	U	9	U	11	U	12	U	9.3	U	9.3	U	10	U	9.3	U	12	U	8.9	U
591-78-6	2-Hexanone	20000	NL	µg/kg	95	U	96	U	99	U	84	U	88	U	100	U	110	U	90	U	90	U	98	U	91	U	120	U	86	U
108-10-1	4-Methyl-2-pentanone (MIBK)	3300000	NL	µg/kg	9.8	UJ	9.9	UJ	10	UJ	8.6	UJ	9	UJ	11	UJ	12	UJ	9.3	UJ	9.3	UJ	10	UJ	9.3	UJ	12	UJ	8.9	UJ
67-64-1	Acetone	6100000	50	µg/kg	9.8	UJ	9.9	UJ	13	J	12	J	16	J	11	UJ	36	J	9.3	UJ	11	J	11	J	22	J	33	J	18	J
71-43-2	Benzene	1200	60	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
74-97-5	Bromochloromethane	15000	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
75-27-4	Bromodichloromethane	290	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
75-25-2	Bromoform	19000	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
74-83-9	Bromomethane	680	NL	µg/kg	130	UJ	130	UJ	130	UJ	110	UJ	120	UJ	140	UJ	150	UJ	120	UJ	120	UJ	130	UJ	120	UJ	150	UJ	110	UJ
75-15-0	Carbon Disulfide	77000	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
56-23-5	Carbon Tetrachloride	650	760	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
108-90-7	Chlorobenzene	28000	1100	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
75-00-3	Chloroethane	1400000	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
67-66-3	Chloroform	320	370	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
74-87-3	Chloromethane	11000	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	6.3		5.3	U	7		4.7	U	4.7	U	5.1	U	4.7	U	6.3		4.4	U
156-59-2	cis-1,2-Dichloroethene	16000	250	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
10061-01-5	cis-1,3-Dichloropropene	NL	NL	µg/kg	9.8	U	9.9	U	10	U	8.6	U	9	U	11	U	12	U	9.3	U	9.3	U	10	U	9.3	U	12	U	8.9	U
110-82-7	Cyclohexane	650000	NL	µg/kg	4.9	U	4.9	U	5.1	U	4.3	U	4.5	U	5.3	U	5.9	U	4.7	U	4.7	U	5.1	U	4.7	U	6	U	4.4	U
124-48-1	Dibromochloromethane																													

Table 4-1b
Soil Sample Detections - SVOCs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SS-01-A		KR-SS-02-A		KR-SS-03-A		KR-SS-04-A		KR-SS-05-A		KR-SS-06-A		KR-SS-07-A		KR-SS-08-A		KR-SS-09-A		KR-SS-10-A		KR-SS-11-A		KR-SB-01-A		KR-SB-02-A	
Location ID					KR-SS-01		KR-SS-02		KR-SS-03		KR-SS-04		KR-SS-05		KR-SS-06		KR-SS-07		KR-SS-08		KR-SS-09		KR-SS-10		KR-SS-11		KR-SB-01		KR-SB-02	
Sample Date					6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/15/2016		6/14/2016		6/14/2016		6/14/2016		6/15/2016	
Matrix					SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO	
Sample Type					N		N		N		N		N		N		N		N		N		N		N		N		N	
Parent Sample Code																														
Sample Depth					0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		14 - 15 feet		2 - 3 feet	
CLP#					BD2C3		BD2C4		BD2C5		BD2C6		BD2C7		BD2C8		BD2C9		BD2D0		BD2D1		BD2D2		BD2D3		BD2B1		BD2B2	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
92-52-4	1,1'-Biphenyl	4700	NL	µg/kg	307		109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2300	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
218-01-9	1,2-Benzphenanthracene	16000	1000	µg/kg	1160		4520		6170	L	739	L	172	L	106	UL	3590		1250		3750		103	U	107	U	104	U	140	
123-91-1	1,4-Dioxane	5300	100	µg/kg	68	U	73.2	U	130	UL	73.1	U	70.7	UL	71	U	72.5	U	74.9	U	70.1	U	68.8	U	71.6	U	69.6	U	71.6	U
58-90-2	2,3,4,6-Tetrachlorophenol	190000	NL	µg/kg	102	U	109	U	195	UL	109	U	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
95-95-4	2,4,5-Trichlorophenol	630000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
88-06-2	2,4,6-Trichlorophenol	6300	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
120-83-2	2,4-Dichlorophenol	19000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
105-67-9	2,4-Dimethylphenol	130000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
51-28-5	2,4-Dinitrophenol	13000	NL	µg/kg	338	UJ	364	UJ	648	UJ	364	UJ	352	UJ	353	UJ	361	UJ	372	UJ	872	UJ	342	UJ	356	UJ	347	UJ	356	UJ
121-14-2	2,4-Dinitrotoluene	1700	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
606-20-2	2,6-Dinitrotoluene	360	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
91-58-7	2-Chloronaphthalene	480000	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
95-57-8	2-Chlorophenol	39000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
91-57-6	2-Methylnaphthalene	24000	NL	µg/kg	602		179		195	UL	155		192		106	UL	548		352		105	U	103	U	315		123		107	U
95-48-7	2-Methylphenol	320000	330	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
88-74-4	2-Nitroaniline	63000	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
88-75-5	2-Nitrophenol	NL	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
91-94-1	3,3'-Dichlorobenzidine	1200	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
78-59-1	3,5,5-Trimethyl-2-cyclohexene-1-one	570000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
99-09-2	3-Nitroaniline	NL	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
534-52-1	4,6-Dinitro-2-methylphenol	510	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	UL	105	U	103	UL	107	U	104	U	107	U
101-55-3	4-Bromophenyl Phenyl Ether	NL	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
59-50-7	4-Chloro-3-methylphenol	630000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
7005-72-3	4-Chlorophenyl Phenyl Ether	NL	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
106-44-5	4-Methylphenol	630000	330	µg/kg	117		109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
100-02-7	4-Nitrophenol	NL	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
83-32-9	Acenaphthene	360000	20000	µg/kg	468		109	U	1190	L	109	U	106	U	106	UL	108	U	112	U	108		103	U	107	U	104	U	107	U
208-96-8	Acenaphthylene	NL	100000	µg/kg	158		850		195	UL	155		106	U	106	UL	1140		466		108		103	U	107	U	104	U	107	U
98-86-2	Acetophenone	780000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
120-12-7	Anthracene	1800000	100000	µg/kg	350		849		2240	L	154		106	U	106	UL	795		310		1980		103	U	107	U	104	U	107	U
1912-24-9	Atrazine	2400	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
100-52-7	Benzaldehyde	780000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	154		162		105	U	103	U	107	U	104	U	107	U
56-55-3	Benzo(a)anthracene	160	1000	µg/kg	1060		4470		1520	L	661	L	126	L	106	UL	3380		1260											

Table 4-1b
Soil Sample Detections - SVOCs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SS-01-A		KR-SS-02-A		KR-SS-03-A		KR-SS-04-A		KR-SS-05-A		KR-SS-06-A		KR-SS-07-A		KR-SS-08-A		KR-SS-09-A		KR-SS-10-A		KR-SS-11-A		KR-SB-01-A		KR-SB-02-A	
Location ID					KR-SS-01		KR-SS-02		KR-SS-03		KR-SS-04		KR-SS-05		KR-SS-06		KR-SS-07		KR-SS-08		KR-SS-09		KR-SS-10		KR-SS-11		KR-SB-01		KR-SB-02	
Sample Date					6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/15/2016		6/14/2016		6/14/2016		6/14/2016		6/15/2016	
Matrix					SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO	
Sample Type					N		N		N		N		N		N		N		N		N		N		N		N		N	
Parent Sample Code																														
Sample Depth					0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		14 - 15 feet		2 - 3 feet	
CLP#					BD2C3		BD2C4		BD2C5		BD2C6		BD2C7		BD2C8		BD2C9		BD2D0		BD2D1		BD2D2		BD2D3		BD2B1		BD2B2	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
105-60-2	Caprolactam	3100000	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
86-74-8	Carbazole	NL	NL	µg/kg	228		316		656	L	109	UL	106	UL	106	UL	268		112	U	344		103	U	107	U	104	U	107	U
53-70-3	Dibenzo(a,h)anthracene	16	330	µg/kg	220		451		195	UL	109	UL	106	UL	106	UL	374		144		216		103	U	107	U	104	U	107	U
132-64-9	Dibenzofuran	7300	NL	µg/kg	1250		154		720	L	109	U	106	U	106	UL	290		126		105	U	103	U	107	U	104	U	107	U
84-66-2	Diethyl Phthalate	5100000	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
131-11-3	Dimethyl Phthalate	NL	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	116		103	U	107	U	238		107	U
84-74-2	Di-n-butylphthalate	630000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
117-84-0	Di-n-octylphthalate	63000	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
206-44-0	Fluoranthene	240000	100000	µg/kg	2970		5260		23300	L	1260	L	266	L	106	UL	4490		1580		8210		186		107	U	104	U	274	
86-73-7	Fluorene	240000	30000	µg/kg	367		137		1130	L	109	U	106	U	106	UL	108	U	112	U	192		103	U	107	U	104	U	107	U
87-68-3	Hexachloro-1,3-Butadiene	1200	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
118-74-1	Hexachlorobenzene	210	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
77-47-4	Hexachlorocyclopentadiene	180	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	UL	105	U	103	UL	107	U	104	U	107	U
67-72-1	Hexachloroethane	1800	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
193-39-5	Indeno(1,2,3-CD)Pyrene	160	500	µg/kg	851		1640		195	UL	383	L	106	UL	106	UL	1350		595		876		103	U	107	U	104	U	107	U
91-20-3	Naphthalene	NL	NL	µg/kg	856		212		195	UL	232		218	L	113	L	564		333		105	U	103	U	491		104	U	107	U
98-95-3	Nitrobenzene	NL	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
621-64-7	n-Nitroso-di-n-propylamine	NL	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
86-30-6	n-Nitrosodiphenylamine	NL	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
106-47-8	P-Chloroaniline	NL	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
87-86-5	Pentachlorophenol	NL	NL	µg/kg	102	U	109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
85-01-8	Phenanthrene	NL	NL	µg/kg	1890		1510		7560	L	488		145		106	UL	1120		477		2960		103	U	107	U	141		161	
108-95-2	Phenol	NL	NL	µg/kg	110		109	U	195	UL	109	UL	106	UL	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
100-01-6	p-Nitroaniline	NL	NL	µg/kg	102	U	109	U	195	UL	109	U	106	U	106	UL	108	U	112	U	105	U	103	U	107	U	104	U	107	U
129-00-0	Pyrene	NL	NL	µg/kg	1880		4430		12500	L	1070	L	248	L	106	UL	3870		1410		6050		146		107	U	104	U	241	

> EPA RSLs

> NYSDEC Unrestricted

Acronyms
µg/kg - microgram by kilogram
CLP - Contract Laboratory Program
FD - field duplicates
L - Off scale high
N - normal
NL - not listed
Q - qualifier
SO - soil
U - undetected
UJ - esitmated undetected

Table 4-1b
Soil Sample Detections - SVOCs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SB-03-A		KR-SB-04-A		KR-SB-05-A		KR-SB-06-A		KR-SB-07-A		SB-900-A		KR-SB-08-A		KR-SB-09-A		KR-SB-10-A		KR-SB-11-A		SB-900-B	
Location ID					KR-SB-03		KR-SB-04		KR-SB-05		KR-SB-06		KR-SB-07		KR-SB-07		KR-SB-08		KR-SB-09		KR-SB-10		KR-SB-11		KR-SB-11	
Sample Date					6/15/2016		6/15/2016		6/15/2016		6/14/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/14/2016		6/15/2016		6/15/2016	
Matrix					SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO	
Sample Type					N		N		N		N		N		FD		N		N		N		N		FD	
Parent Sample Code															KR-SB-07-A										KR-SB-11-A	
Sample Depth					3 - 4 feet		6 - 7 feet		5 - 6 feet		18 - 20 feet		4 - 5 feet		4 - 5 feet		7 - 8 feet		4 - 5 feet		21 - 22 feet		1 - 2 feet		1 - 2 feet	
CLP#					BD2B3		BD2B4		BD2B5		BD2B6		BD2B7		BD2D5		BD2B8		BD2B9		BD2C0		BD2C1		BD2D6	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
92-52-4	1,1'-Biphenyl	4700	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2300	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
218-01-9	1,2-Benzphenanthracene	16000	1000	µg/kg	107	U	106	U	112		107	U	104	U	103	U	110		106	U	220		1950		1900	
123-91-1	1,4-Dioxane	5300	100	µg/kg	71.5	U	70.8	U	69.3	U	71.8	U	69.6	U	69.2	U	69.8	U	71.3	U	72.1	U	72.5	U	72.5	U
58-90-2	2,3,4,6-Tetrachlorophenol	190000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
95-95-4	2,4,5-Trichlorophenol	630000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
88-06-2	2,4,6-Trichlorophenol	6300	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
120-83-2	2,4-Dichlorophenol	19000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
105-67-9	2,4-Dimethylphenol	130000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
51-28-5	2,4-Dinitrophenol	13000	NL	µg/kg	356	UJ	352	UJ	345	UJ	357	UJ	346	UJ	344	UJ	347	UJ	887	UJ	359	UJ	901	UJ	902	UJ
121-14-2	2,4-Dinitrotoluene	1700	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
606-20-2	2,6-Dinitrotoluene	360	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
91-58-7	2-Chloronaphthalene	480000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
95-57-8	2-Chlorophenol	39000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
91-57-6	2-Methylnaphthalene	24000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	414		280	
95-48-7	2-Methylphenol	320000	330	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
88-74-4	2-Nitroaniline	63000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
88-75-5	2-Nitrophenol	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
91-94-1	3,3'-Dichlorobenzidine	1200	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
78-59-1	3,5,5-Trimethyl-2-cyclohexene-1-one	570000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
99-09-2	3-Nitroaniline	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
534-52-1	4,6-Dinitro-2-methylphenol	510	NL	µg/kg	107	U	106	U	103	U	107	UL	104	U	103	U	104	U	106	U	108	UL	108	U	108	U
101-55-3	4-Bromophenyl Phenyl Ether	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
59-50-7	4-Chloro-3-methylphenol	630000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
7005-72-3	4-Chlorophenyl Phenyl Ether	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
106-44-5	4-Methylphenol	630000	330	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
100-02-7	4-Nitrophenol	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
83-32-9	Acenaphthene	360000	20000	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
208-96-8	Acenaphthylene	NL	100000	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	400		395	
98-86-2	Acetophenone	780000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
120-12-7	Anthracene	1800000	100000	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	272		311	
1912-24-9	Atrazine	2400	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
100-52-7	Benzaldehyde	780000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
56-55-3	Benzo(a)anthracene	160	1000	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	135		1920		2040	
50-32-8	Benzo(a)pyrene	16	1000	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	127		1510		1500	
205-99-2	Benzo(b)fluoranthene	160	1000	µg/kg	107	U	106	U	158		107	U	104	U	103	U	126		106	U	298		2720		2910	
191-24-2	Benzo(g,h,i)perylene	NL	100000	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	793		686	
207-08-9	Benzo(k)fluoranthene	1600	800	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	117		947		866	
85-68-7	Benzyl Butyl Phthalate	290000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
111-91-1	Bis(2-chloroethoxy)methane	19000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
111-44-4	Bis(2-chloroethyl)ether	230	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
117-81-7	Bis(2-ethylhexyl)phthalate	39000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	471	K	108	U	108	U
108-60-1	Bis-chloroisopropyl ether	310000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U

Table 4-1b
Soil Sample Detections - SVOCs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SB-03-A		KR-SB-04-A		KR-SB-05-A		KR-SB-06-A		KR-SB-07-A		SB-900-A		KR-SB-08-A		KR-SB-09-A		KR-SB-10-A		KR-SB-11-A		SB-900-B	
Location ID					KR-SB-03		KR-SB-04		KR-SB-05		KR-SB-06		KR-SB-07		KR-SB-07		KR-SB-08		KR-SB-09		KR-SB-10		KR-SB-11		KR-SB-11	
Sample Date					6/15/2016		6/15/2016		6/15/2016		6/14/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/14/2016		6/15/2016		6/15/2016	
Matrix					SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO	
Sample Type					N		N		N		N		N		FD		N		N		N		N		FD	
Parent Sample Code															KR-SB-07-A										KR-SB-11-A	
Sample Depth					3 - 4 feet		6 - 7 feet		5 - 6 feet		18 - 20 feet		4 - 5 feet		4 - 5 feet		7 - 8 feet		4 - 5 feet		21 - 22 feet		1 - 2 feet		1 - 2 feet	
CLP#					BD2B3		BD2B4		BD2B5		BD2B6		BD2B7		BD2D5		BD2B8		BD2B9		BD2C0		BD2C1		BD2D6	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
105-60-2	Caprolactam	3100000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
86-74-8	Carbazole	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
53-70-3	Dibenzo(a,h)anthracene	16	330	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	297		277	
132-64-9	Dibenzofuran	7300	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	203		175	
84-66-2	Diethyl Phthalate	5100000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
131-11-3	Dimethyl Phthalate	NL	NL	µg/kg	107	U	106	U	118		194		128		192		176		194		215		215		142	
84-74-2	Di-n-butylphthalate	630000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
117-84-0	Di-n-octylphthalate	63000	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
206-44-0	Fluoranthene	240000	100000	µg/kg	107	U	106	U	186		107	U	104	U	103	U	185		106	U	172		2520		2780	
86-73-7	Fluorene	240000	30000	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
87-68-3	Hexachloro-1,3-Butadiene	1200	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
118-74-1	Hexachlorobenzene	210	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
77-47-4	Hexachlorocyclopentadiene	180	NL	µg/kg	107	U	106	U	103	U	107	UL	104	U	103	U	104	U	106	U	108	UL	108	U	108	U
67-72-1	Hexachloroethane	1800	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
193-39-5	Indeno(1,2,3-CD)Pyrene	160	500	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	1090		1010	
91-20-3	Naphthalene	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	406		300	
98-95-3	Nitrobenzene	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
621-64-7	n-Nitroso-di-n-propylamine	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
86-30-6	n-Nitrosodiphenylamine	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
106-47-8	P-Chloroaniline	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
87-86-5	Pentachlorophenol	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
85-01-8	Phenanthrene	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	123		106	U	108	U	699		793	
108-95-2	Phenol	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
100-01-6	p-Nitroaniline	NL	NL	µg/kg	107	U	106	U	103	U	107	U	104	U	103	U	104	U	106	U	108	U	108	U	108	U
129-00-0	Pyrene	NL	NL	µg/kg	107	U	106	U	144		107	U	104	U	103	U	162		106	U	168		2070		2290	

> EPA RSLs

> NYSDEC Unrestricted

Acronyms

µg/kg - microgram by kilo;

CLP - Contract Laboratory

FD - field duplicates

L - Off scale high

N - normal

NL - not listed

Q - qualifier

SO - soil

U - undetected

UJ - esitimated undetectec

Table 4-1c
Soil Sample Detections - PCBs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SS-01-A	KR-SS-02-A	KR-SS-03-A	KR-SS-04-A	KR-SS-05-A	KR-SS-06-A	KR-SS-07-A	KR-SB-01-A	KR-SS-08-A	KR-SS-11-A	KR-SB-06-A	KR-SS-10-A	KR-SB-10-A	KR-SB-02-A	KR-SB-03-A															
Location ID					KR-SS-01	KR-SS-02	KR-SS-03	KR-SS-04	KR-SS-05	KR-SS-06	KR-SS-07	KR-SB-01	KR-SS-08	KR-SS-11	KR-SB-06	KR-SS-10	KR-SB-10	KR-SB-02	KR-SB-03															
Sample Date					6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/15/2016	6/15/2016															
Matrix					SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO															
	Sample Depth				0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	14 - 15 feet	0 - 0.5 feet	0 - 0.5 feet	18 - 20 feet	0 - 0.5 feet	21 - 22 feet	2 - 3 feet	3' - 4'															
Sample Type					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N															
Parent Sample Code																																		
CLP#					BD2C3	BD2C4	BD2C5	BD2C6	BD2C7	BD2C8	BD2C9	BD2B1	BD2D0	BD2D3	BD2B6	BD2D2	BD2C0	BD2B2	BD2B3															
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
12674-11-2	Aroclor 1016	410	100	µg/kg	32	UJ	34	UJ	41	UJ	34	UJ	33	UJ	33	UJ	34	UJ	35	UJ	34	UJ	34	UJ	32	UJ	33	UJ	33	UJ	33	UJ		
11104-28-2	Aroclor 1221	200	100	µg/kg	64	UJ	67	UJ	81	UJ	68	UJ	66	UJ	66	UJ	67	UJ	66	UJ	69	UJ	68	UJ	67	UJ	64	UJ	66	UJ	67	UJ	66	UJ
11141-16-5	Aroclor 1232	170	100	µg/kg	32	UJ	34	UJ	41	UJ	34	UJ	33	UJ	33	UJ	34	UJ	33	UJ	35	UJ	34	UJ	34	UJ	32	UJ	33	UJ	33	UJ	33	UJ
53469-21-9	Aroclor 1242	230	100	µg/kg	32	UJ	34	UJ	41	UJ	34	UJ	33	UJ	33	UJ	34	UJ	33	UJ	35	UJ	34	UJ	34	UJ	32	UJ	33	UJ	33	UJ	33	UJ
12672-29-6	Aroclor 1248	230	100	µg/kg	32	UJ	34	UJ	41	UJ	34	UJ	33	UJ	33	UJ	34	UJ	33	UJ	35	UJ	34	UJ	120	J	32	UJ	33	UJ	33	UJ	33	UJ
11097-69-1	Aroclor 1254	120	100	µg/kg	32	UJ	34	UJ	41	UJ	34	UJ	33	UJ	33	UJ	34	UJ	33	UJ	35	UJ	34	UJ	34	UJ	32	UJ	33	UJ	33	UJ	33	UJ
11096-82-5	Aroclor 1260	240	100	µg/kg	32	UJ	34	UJ	41	UJ	34	UJ	33	UJ	33	UJ	34	UJ	33	UJ	35	UJ	34	UJ	34	UJ	32	UJ	33	UJ	33	UJ	270	J
37324-23-5	Aroclor 1262	NL	100	µg/kg	32	UJ	34	UJ	41	UJ	34	UJ	33	UJ	33	UJ	34	UJ	33	UJ	35	UJ	34	UJ	34	UJ	32	UJ	33	UJ	33	UJ	33	UJ
11100-14-4	Aroclor 1268	NL	100	µg/kg	32	UJ	34	UJ	41	UJ	34	UJ	33	UJ	33	UJ	34	UJ	33	UJ	35	UJ	34	UJ	34	UJ	32	UJ	33	UJ	33	UJ	33	UJ

> EPA RSLs

> NYSDEC Unrestricted

Acronyms
µg/kg - microgram by kilogram
CLP - Contract Laboratory Program
FD - field duplicates
N - normal
NL - not listed
Q - qualifier
SO - soil
U - undetected
UJ - esitmated undetected

Table 4-1c
Soil Sample Detections - PCBs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SB-04-A		KR-SB-05-A		KR-SB-07-A		SB-900-A		KR-SB-08-A		KR-SB-11-A		SB-900-B		KR-SS-09-A		KR-SB-09-A	
Location ID					KR-SB-04		KR-SB-05		KR-SB-07		KR-SB-07		KR-SB-08		KR-SB-11		KR-SB-11		KR-SS-09		KR-SB-09	
Sample Date					6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016	
Matrix					SO		SO		SO		SO		SO		SO		SO		SO		SO	
Sample Depth					6' - 7'		5' - 6'		4' - 5'		4' - 5'		7' - 8'		1' - 2'		1' - 2'		0' - 0.5'		4' - 5'	
Sample Type					N		N		N		FD		N		N		FD		N		N	
Parent Sample Code											KR-SB-07-A						KR-SB-11-A					
CLP#					BD2B4		BD2B5		BD2B7		BD2D5		BD2B8		BD2C1		BD2D6		BD2D1		BD2B9	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12674-11-2	Aroclor 1016	410	100	µg/kg	33	UJ	32	UJ	32	UJ	32	UJ	32	UJ	34	UJ	34	UJ	32	UJ	33	UJ
11104-28-2	Aroclor 1221	200	100	µg/kg	66	UJ	64	UJ	64	UJ	64	UJ	65	UJ	67	UJ	67	UJ	65	UJ	66	UJ
11141-16-5	Aroclor 1232	170	100	µg/kg	33	UJ	32	UJ	32	UJ	32	UJ	32	UJ	34	UJ	34	UJ	32	UJ	33	UJ
53469-21-9	Aroclor 1242	230	100	µg/kg	33	UJ	32	UJ	32	UJ	32	UJ	32	UJ	34	UJ	34	UJ	32	UJ	33	UJ
12672-29-6	Aroclor 1248	230	100	µg/kg	33	UJ	32	UJ	32	UJ	32	UJ	32	UJ	34	UJ	34	UJ	32	UJ	33	UJ
11097-69-1	Aroclor 1254	120	100	µg/kg	33	UJ	32	UJ	32	UJ	32	UJ	32	UJ	34	UJ	34	UJ	32	UJ	33	UJ
11096-82-5	Aroclor 1260	240	100	µg/kg	33	UJ	32	UJ	32	UJ	32	UJ	32	UJ	34	UJ	34	UJ	32	UJ	33	UJ
37324-23-5	Aroclor 1262	NL	100	µg/kg	33	UJ	32	UJ	32	UJ	32	UJ	32	UJ	34	UJ	34	UJ	32	UJ	33	UJ
11100-14-4	Aroclor 1268	NL	100	µg/kg	33	UJ	32	UJ	32	UJ	32	UJ	32	UJ	34	UJ	34	UJ	32	UJ	33	UJ

> EPA RSLs

> NYSDEC Unrestricted

Acronyms
µg/kg - microgram by kilogram
CLP - Contract Laboratory Program
FD - field duplicates
N - normal
NL - not listed
Q - qualifier
SO - soil
U - undetected
UJ - esitimated undetected

Table 4-1d
Soil Sample Detections - Metals
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SS-01-A		KR-SS-02-A		KR-SS-03-A		KR-SS-04-A		KR-SS-05-A		KR-SS-06-A		KR-SS-07-A		KR-SB-01-A		KR-SS-08-A		KR-SS-11-A		KR-SB-06-A		KR-SS-10-A		KR-SB-10-A	
Location ID					KR-SS-01		KR-SS-02		KR-SS-03		KR-SS-04		KR-SS-05		KR-SS-06		KR-SS-07		KR-SB-01		KR-SS-08		KR-SS-11		KR-SB-06		KR-SS-10		KR-SB-10	
Sample Date					6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016		6/14/2016	
Matrix					SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO	
Sample Depth					0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		0 - 0.5 feet		14 - 15 feet		0 - 0.5 feet		0 - 0.5 feet		18 - 20 feet		0 - 0.5 feet		21 - 22 feet	
Sample Type					N		N		N		N		N		N		N		N		N		N		N		N		N	
Parent Sample Code																														
CLP#					BD2C3		BD2C4		BD2C5		BD2C6		BD2C7		BD2C8		BD2C9		BD2B1		BD2D0		BD2D3		BD2B6		BD2D2		BD2C0	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
7429-90-5	Aluminum	7700	NL	mg/kg	2800		6000		2000		5400		5400		5500		5600		5800		4600		4900		5600		5700		6000	
7440-36-0	Antimony	3.1	NL	mg/kg	12		1.7		7.1		3.7		2.3		3.4		4.6		1.7	U	5.1		4.8		1.7	U	1.7	U	1.6	U
7440-38-2	Arsenic	0.68	13	mg/kg	120		9.7		30		9.9		8		9.7		10		3.1		13		12		2.7		4.6		3.8	
7440-39-3	Barium	1500	350	mg/kg	92		53		45		51		37		56		59		23		62		46		24		22		28	
7440-41-7	Beryllium	16	7.2	mg/kg	0.66		0.38		0.32	U	0.37		0.27		0.31		0.34		0.25	U	0.33		0.26		0.26	U	0.25	U	0.25	
7440-43-9	Cadmium	7.1	2.5	mg/kg	5.4		0.68		7.3		0.3		0.47		0.72		0.64		0.25	U	0.95		1.3		0.26	U	0.25	U	0.24	U
7440-70-2	Calcium Metal	NL	NL	mg/kg	2300		10000		7700		1200		1300		4300		3700		170		4700		1900		370		17000		15000	
7440-47-3	Chromium	NL	30	mg/kg	190		12		220		9.9		9.7		14		15		7.3		17		14		7.4		8.1		11	
7440-48-4	Cobalt	2.3	NL	mg/kg	35		7.4		23		6.7		5.2		6.4		6.5		5.1		7		6		5.4		5.1		4.9	
7440-50-8	Copper	310	50	mg/kg	460		53		310		76		37		72		100		10		100		97		9.6		13		11	
7439-89-6	Iron	5500	NL	mg/kg	350000		19000		170000		20000		16000		22000		28000		12000		49000		22000		12000		12000		12000	
7439-92-1	Lead	400	63	mg/kg	94		130		170		130		90		170		170		6.1		180		140		5.9		10		8.4	
7439-95-4	Magnesium	NL	NL	mg/kg	350		2000		770		1900		1700		1800		1500		2100		1400		1400		2100		2200		2200	
7439-96-5	Manganese	NL	1600	mg/kg	1300		400		1100		360		290		380		370		360		390		350		370		330		320	
7440-02-0	Nickel	150	30	mg/kg	160		16		180		14		13		18		18		13		21		14		13		13		13	
7440-09-7	Potassium	NL	NL	mg/kg	410		410		310		400		340		430		410		350		380		370		400		360		460	
7782-49-2	Selenium	NA	NA	mg/kg	31		1.6	U	3.5		1.8	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.6	U
7440-22-4	Silver	39	2	mg/kg	0.83	U	0.41	U	0.54	U	0.44	U	0.41	U	0.41	U	0.41	U	0.42	U	0.41	U	0.42	U	0.43	U	0.41	U	0.4	U
7440-23-5	Sodium	NL	NL	mg/kg	410		82	U	150		88	U	83	U	83	U	83	U	84	U	83	U	110		87	U	83	U	80	U
7440-28-0	Thallium	0.078	NL	mg/kg	3.3	U	1.6	U	2.1	U	1.8	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.6	U
7440-31-5	Tin	NL	NL	mg/kg	34		6.1		21		9.7		5.3		8.7		16		0.84	U	13		11		0.87	U	0.83	U	0.8	U
7440-62-2	Vanadium	39	NL	mg/kg	27		14		30		13		13		13		16		8.5		14		12		8.2		9.1		9.5	
7440-66-6	Zinc	2300	109	mg/kg	70		190		330		61		140		310		84		35		84		75		34		37		35	

> EPA RSLs
> NYSDEC Unrestricted

Table 4-1d
Soil Sample Detections - Metals
Kingston Rail Yard
Kingston, New York

Sample ID					KR-SB-02-A		KR-SB-03-A		KR-SB-04-A		KR-SB-05-A		KR-SB-07-A		SB-900-A		KR-SB-08-A		KR-SB-11-A		SB-900-B		KR-SS-09-A		KR-SB-09-A	
Location ID					KR-SB-02		KR-SB-03		KR-SB-04		KR-SB-05		KR-SB-07		KR-SB-07		KR-SB-08		KR-SB-11		KR-SB-11		KR-SS-09		KR-SB-09	
Sample Date					6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016		6/15/2016	
Matrix					SO		SO		SO		SO		SO		SO		SO		SO		SO		SO		SO	
Sample Depth					2 - 3 feet		3 - 4 feet		6 - 7 feet		5 - 6 feet		4 - 5 feet		4 - 5 feet		7 - 8 feet		1 - 2 feet		1 - 2 feet		0 - 0.5 feet		4 - 5 feet	
Sample Type					N		N		N		N		N		FD		N		N		FD		N		N	
Parent Sample Code															KR-SB-07-A						KR-SB-11-A					
CLP#					BD2B2		BD2B3		BD2B4		BD2B5		BD2B7		BD2D5		BD2B8		BD2C1		BD2D6		BD2D1		BD2B9	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
7429-90-5	Aluminum	7700	NL	mg/kg	6100		7000		6100		6000		6500		6500		6400		5400		5500		5700		7200	
7440-36-0	Antimony	3.1	NL	mg/kg	1.6	U	1.6	U	1.7	U	1.7	U	1.5	U	1.7	U	1.6	U	4.1		3.8		3.7		1.8	U
7440-38-2	Arsenic	0.68	13	mg/kg	3.8		3.1		3		3.9		3.4		3.7		3.2		8		6.2		7.2		2.9	
7440-39-3	Barium	1500	350	mg/kg	30		20		11		17		11		12		25		44		50		46		43	
7440-41-7	Beryllium	16	7.2	mg/kg	0.28		0.25		0.26	U	0.25	U	0.22		0.25	U	0.25		0.28		0.29		0.28		0.26	U
7440-43-9	Cadmium	7.1	2.5	mg/kg	0.24	U	0.24	U	0.26	U	0.25	U	0.22	U	0.25	U	0.25	U	0.26	U	0.24	U	0.36		0.26	U
7440-70-2	Calcium Metal	NL	NL	mg/kg	480		320		230		170		250		230		290		1300		1100		11000		590	
7440-47-3	Chromium	NL	30	mg/kg	7.2		7.6		7.2		8		7.6		7.9		8.5		9.6		9.6		9.4		7.5	
7440-48-4	Cobalt	2.3	NL	mg/kg	6		5.1		5.3		5.1		5.2		5.3		6		6.4		6.6		6.6		4.5	
7440-50-8	Copper	310	50	mg/kg	17		8		10		12		9.1		10		16		64		63		77		7.8	
7439-89-6	Iron	5500	NL	mg/kg	12000		12000		11000		12000		12000		12000		16000		19000		19000		20000		11000	
7439-92-1	Lead	400	63	mg/kg	17		5.9		7.6		11		6.7		6.2		15		79		76		170		6.7	
7439-95-4	Magnesium	NL	NL	mg/kg	1800		1800		2000		2100		2100		2100		2000		1600		1500		2000		1500	
7439-96-5	Manganese	NL	1600	mg/kg	390		340		300		330		270		320		460		370		420		410		420	
7440-02-0	Nickel	150	30	mg/kg	12		13		12		13		13		13		15		16		17		15		10	
7440-09-7	Potassium	NL	NL	mg/kg	280		250		290		340		280		300		290		320		320		390		340	
7782-49-2	Selenium	NA	NA	mg/kg	1.6	U	1.6	U	1.7	U	1.7	U	1.5	U	1.7	U	1.6	U	1.8	U	1.6	U	1.7	U	1.8	U
7440-22-4	Silver	39	2	mg/kg	0.4	U	0.4	U	0.43	U	0.42	U	0.37	U	0.42	U	0.41	U	0.44	U	0.4	U	0.43	U	0.44	U
7440-23-5	Sodium	NL	NL	mg/kg	79	U	79	U	86	U	85	U	75	U	84	U	82	U	88	U	80	U	86	U	88	U
7440-28-0	Thallium	0.078	NL	mg/kg	1.6	U	1.6	U	1.7	U	1.7	U	1.5	U	1.7	U	1.6	U	1.8	U	1.6	U	1.7	U	1.8	U
7440-31-5	Tin	NL	NL	mg/kg	0.79	U	0.79	U	0.86	U	0.85	U	0.75	U	0.84	U	1.8		8.8		8.3		10		0.88	U
7440-62-2	Vanadium	39	NL	mg/kg	9.3		10		8.4		8.8		9.6		9.5		9.1		10		10		11		10	
7440-66-6	Zinc	2300	109	mg/kg	36		33		30		44		29		31		32		38		38		58		28	

> EPA RSLs
> NYSDEC Unrestricted

Table 4-1e
Soil Sample Detections - DRO/GRO
Kingston Rail Yard
Kingston, New York

Sample ID		KR-SS-01-A	KR-SS-02-A	KR-SS-03-A	KR-SS-04-A	KR-SS-05-A	KR-SS-06-A	KR-SS-07-A	KR-SS-08-A	KR-SS-09-A	KR-SS-10-A	KR-SS-11-A	KR-SB-01-A	KR-SB-02-A	KR-SB-03-A	KR-SB-04-A	KR-SB-05-A	KR-SB-06-A	KR-SB-07-A	SB-900-A	KR-SB-08-A	KR-SB-09-A	KR-SB-10-A	KR-SB-11-A	SB-900-B																													
Location ID		KR-SS-01	KR-SS-02	KR-SS-03	KR-SS-04	KR-SS-05	KR-SS-06	KR-SS-07	KR-SS-08	KR-SS-09	KR-SS-10	KR-SS-11	KR-SB-01	KR-SB-02	KR-SB-03	KR-SB-04	KR-SB-05	KR-SB-06	KR-SB-07	KR-SB-07	KR-SB-08	KR-SB-09	KR-SB-10	KR-SB-11	KR-SB-11																													
Sample Date		6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/14/2016	6/15/2016	6/14/2016	6/14/2016	6/14/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/14/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/14/2016	6/15/2016	6/15/2016																													
Matrix		SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO																													
Sample Depth		0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	0 - 0.5 feet	14 - 15 feet	2 - 3 feet	3 - 4 feet	6 - 7 feet	5 - 6 feet	18 - 20 feet	4 - 5 feet	4 - 5 feet	7 - 8 feet	4 - 5 feet	21 - 22 feet	1 - 2 feet	1' - 2'																													
Sample Type		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	FD																													
Parent Sample Code																				KR-SB-07-A					KR-SB-11-A																													
CLP#		BD2C3	BD2C4	BD2C5	BD2C6	BD2C7	BD2C8	BD2C9	BD2D0	BD2D1	BD2D2	BD2D3	BD2B1	BD2B2	BD2B3	BD2B4	BD2B5	BD2B6	BD2B7	BD2D5	BD2B8	BD2B9	BD2C0	BD2C1	BD2D6																													
CAS No.	Chemical	Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q																												
68334-30-5	Total Petroleum Hydrocarbons as Diesel	µg/kg	25000		18000		9900	J	14000		170000		21000		14000		15000		14000		390000		310000		33000		11000	U	10000	U	11000	U	10000	U	10000	U	11000	U	10000	UJ	53000	J	10000	U	11000	U	48000		11000		9500	J		
8006-61-9	Gasoline Range Hydrocarbons	µg/kg	100	U	100	U	120	U	99	U	110	U	94	U	100	U	100	U	94	U	100	U	94	U	88	U	95	U	100	U	97	U	110	U	100	U	95	U	120	U	98	U	100	U	110	U	96	U	100	U	100	U	110	U

Acronyms
µg/kg - microgram per kilogram
CLP - Contract Laboratory Program
FD - field duplicates
N - normal
NL - not listed
Q - qualifier
SO - soil
U - undetected
UJ - esitimated undetected

Table 4-2a
Groundwater Sample Detections - VOCs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-GW-01-1		GW-900-1		KR-GW-02-1		KR-GW-03-1	
Location ID					KR-GW-01		KR-GW-02		KR-GW-02		KR-GW-03	
Matrix					WG		WG		WG		WG	
Sample Date					6/16/2016		6/16/2016		6/16/2016		6/16/2016	
Sample Depth					20 - 25 feet		20 - 25 feet		20 - 25 feet		20 - 25 feet	
Sample Type					N		FD		N		N	
Parent Sample Code							KR-GW-02-1					
CLP#					BD2D7		BD2E0		BD2D8		BD2D9	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q
71-55-6	1,1,1-Trichloroethane	200	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
79-00-5	1,1,2-Trichloroethane	5	1	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-34-3	1,1-Dichloroethane	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-35-4	1,1-Dichloroethene	7	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
87-61-6	1,2,3-Trichlorobenzene	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
120-82-1	1,2,4-Trichlorobenzene	70	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	0.04	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
106-93-4	1,2-Dibromoethane	0.05	0.0006	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
95-50-1	1,2-Dichlorobenzene	600	3	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
107-06-2	1,2-Dichloroethane	5	0.6	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
78-87-5	1,2-Dichloropropane	5	1	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
541-73-1	1,3-Dichlorobenzene	NL	3	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
106-46-7	1,4-Dichlorobenzene	75	3	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
78-93-3	2-Butanone (MEK)	NL	50	µg/L	5	U	5	U	5	U	5	U
591-78-6	2-Hexanone	NL	50	µg/L	5	U	5	U	5	U	5	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	NL	NL	µg/L	5	U	5	U	5	U	5	U
67-64-1	Acetone	NL	50	µg/L	5	U	5	U	5	U	5	U
71-43-2	Benzene	5	1	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
74-97-5	Bromochloromethane	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-27-4	Bromodichloromethane	80	50	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-25-2	Bromoform	80	50	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
74-83-9	Bromomethane	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-15-0	Carbon Disulfide	NL	60	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
56-23-5	Carbon Tetrachloride	5	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
108-90-7	Chlorobenzene	100	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-00-3	Chloroethene	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
67-66-3	Chloroform	80	7	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
74-87-3	Chloromethene	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
156-59-2	cis-1,2-Dichloroethene	70	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
10061-01-5	cis-1,3-dichloropropene	NL	0.4	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
110-82-7	Cyclohexane	NL	NL	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
124-48-1	Dibromochloromethane	80	50	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-71-8	Dichlorodifluoromethane	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
100-41-4	Ethylbenzene	700	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
98-82-8	Isopropylbenzene	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
179601-23-1	M,P-Xylene	10000	19	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
79-20-9	Methyl Acetate	NL	NL	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
1634-04-4	Methyl Tert-Butyl Ether	NL	10	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
108-87-2	Methylcyclohexane	NL	NL	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-09-2	Methylene Chloride	5	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
95-47-6	O-Xylene	10000	19	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
100-42-5	Styrene	100	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
127-18-4	Tetrachloroethene	5	5	µg/L	4.2		170		180		120	
108-88-3	Toluene	1000	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
156-60-5	Trans-1,2-dichloroethene	100	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
10061-02-6	Trans-1,3-dichloropropene	NL	0.4	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
79-01-6	Trichloroethene	5	5	µg/L	14		24		24		23	
75-69-4	Trichlorofluoromethane	NL	5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
75-01-4	Vinyl Chloride	2	2	µg/L	0.5	U	0.5	U	0.5	U	0.5	U

 > EPA RSLs
 > NYSDEC Unrestricted

Acronyms
 µg/L - microgram per liter
 CLP - Contract Laboratory Program
 J - estimated results
 N - normal
 NL - not listed
 Q - qualifier
 WG - groundwater
 U - undetected
 UJ - estimated undetected

Table 4-2b
Groundwater Sample Detections - SVOCs
Kingston Rail Yard
Kingston, New York

Sample ID					KR-GW-01-1		GW-900-1		KR-GW-02-1		KR-GW-03-1	
Location ID					KR-GW-01		KR-GW-02		KR-GW-02		KR-GW-03	
Sample Date					6/16/2016		6/16/2016		6/16/2016		6/16/2016	
Matrix					WG		WG		WG		WG	
Sample Date					20- 25 feet		20- 25 feet		20- 25 feet		20- 25 feet	
Sample Type					N		FD		N		N	
Parent Sample Code							KR-GW-02-1					
CLP#					BD2D7		BD2E0		BD2D8		BD2D9	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q
92-52-4	1,1'-Biphenyl	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
95-94-3	1,2,4,5-Tetrachlorobenzene	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
218-01-9	1,2-Benzphenanthracene	NL	0.002	µg/L	5.3	U	5.3	U	5	U	5.3	U
123-91-1	1,4-Dioxane	NL	NL	µg/L	2.1	U	2.1	U	2	U	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	NL	NL	µg/L	5.3	UL	5.3	U	5	U	5.3	U
95-95-4	2,4,5-Trichlorophenol	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
88-06-2	2,4,6-Trichlorophenol	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
120-83-2	2,4-Dichlorophenol	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	UL
105-67-9	2,4-Dimethylphenol	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	UL
51-28-5	2,4-Dinitrophenol	NL	10	µg/L	5.3	U	5.3	U	5	U	5.3	U
121-14-2	2,4-Dinitrotoluene	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
606-20-2	2,6-Dinitrotoluene	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
91-58-7	2-Chloronaphthalene	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
95-57-8	2-Chlorophenol	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	UL
91-57-6	2-Mehtlynaphthalene	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
95-48-7	2-Methylphenol	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	UL
88-74-4	2-Nitroaniline	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
88-75-5	2-Nitrophenol	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	UL
91-94-1	3,3'-Dichlorobenzidine	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
78-59-1	3,5,5-Trimethyl-2-cyclohexene-1-one	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U
99-09-2	3-Nitroaniline	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
534-52-1	4,6-Dinitro-2-methylphenol	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
101-55-3	4-Bromophenyl Phenyl Ether	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
59-50-7	4-Chloro-3-methylphenol	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	UL
7005-72-3	4-Chlorophenyl Phenyl Ether	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
106-44-5	4-Methylphenol	NL	NL	µg/L	5.3	UL	5.3	U	5	U	5.3	UL
100-02-7	4-Nitrophenol	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
83-32-9	Acenaphthene	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
208-96-8	Acenaphthylene	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
98-86-2	Acetophenone	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
120-12-7	Anthracene	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U
1912-24-9	Atrazine	3	7.5	µg/L	5.3	U	5.3	U	5	U	5.3	U
100-52-7	Benzaldehyde	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
56-55-3	Benzo(a)anthracene	NL	0.002	µg/L	5.3	U	5.3	U	5	U	5.3	U
50-32-8	Benzo(a)pyrene	0.2	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
205-99-2	Benzo(b)fluoranthene	NL	0.002	µg/L	5.3	U	5.3	U	5	U	5.3	U
191-24-2	Benzo(g,h,i)perylene	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U
207-08-9	Benzo(k)fluoranthene	NL	0.002	µg/L	5.3	U	5.3	U	5	U	5.3	U
85-68-7	Benzyl Butyl Phthalate	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U
111-91-1	Bis(2-chloroethoxy)methane	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
111-44-4	Bis(2-chloroethyl)ether	NL	1	µg/L	5.3	U	5.3	U	5	U	5.3	U
117-81-7	Bis(2-ethylhexyl)phthalate	6	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
108-60-1	Bis-chloroisopropyl ether	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U
105-60-2	Caprolactam	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U

Table 4-2b
Groundwater Sample Detections - SVOCs
Kingston Rail Yard
Kingston, New York

					Sample ID		KR-GW-01-1		GW-900-1		KR-GW-02-1		KR-GW-03-1	
					Location ID		KR-GW-01		KR-GW-02		KR-GW-02		KR-GW-03	
					Sample Date		6/16/2016		6/16/2016		6/16/2016		6/16/2016	
					Matrix		WG		WG		WG		WG	
					Sample Date		20- 25 feet		20- 25 feet		20- 25 feet		20- 25 feet	
					Sample Type		N		FD		N		N	
					Parent Sample Code				KR-GW-02-1					
					CLP#		BD2D7		BD2E0		BD2D8		BD2D9	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q		
86-74-8	Carbazole	NL	NL	µg/L	5.3	UL	5.3	U	5	U	5.3	U		
53-70-3	Dibenzo(a,h)anthracene	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U		
132-64-9	Dibenzofuran	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U		
84-66-2	Diethyl Phthalate	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U		
131-11-3	Dimethyl Phthalate	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U		
84-74-2	Di-n-butylphthalate	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U		
117-84-0	Di-n-octylphthalate	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U		
206-44-0	Fluoranthene	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U		
86-73-7	Fluorene	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U		
87-68-3	Hexachloro-1,3-butadiene	NL	0.5	µg/L	5.3	U	5.3	U	5	U	5.3	U		
118-74-1	Hexachlorobenzene	1	0.04	µg/L	5.3	U	5.3	U	5	U	5.3	U		
77-47-4	Hexachlorocyclopentadiene	50	5	µg/L	5.3	U	5.3	U	5	U	5.3	U		
67-72-1	Hexachloroethane	NL	5	µg/L	5.3	U	5.3	U	5	U	5.3	U		
193-39-5	Indeno(1,2,3-cd)pyrene	NL	0.002	µg/L	5.3	U	5.3	U	5	U	5.3	U		
91-20-3	Naphthalene	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U		
98-95-3	Nitrobenzene	NL	0.4	µg/L	5.3	U	5.3	U	5	U	5.3	U		
621-64-7	n-Nitroso-di-n-propylamine	NL	NL	µg/L	5.3	U	5.3	U	5	U	5.3	U		
86-30-6	n-Nitrosodiphenylamine	NL	50	µg/L	5.3	UL	5.3	U	5	U	5.3	U		
106-47-8	P-chloroaniline	NL	5	µg/L	5.3	UL	5.3	U	5	U	5.3	U		
87-86-5	Pentachlorophenol	1	2	µg/L	5.3	U	5.3	U	5	U	5.3	U		
85-01-8	Phenanthrene	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U		
108-95-2	Phenol	NL	2	µg/L	5.3	U	5.3	U	5	U	5.3	UL		
100-01-6	p-Nitroaniline	NL	5	µg/L	5.3	UL	5.3	U	5	U	5.3	U		
129-00-0	Pyrene	NL	50	µg/L	5.3	U	5.3	U	5	U	5.3	U		

Acronyms

µg/L - microgram per liter
CLP - Contract Laboratory Program
J - esitmed results
N - normal
NL - not listed
Q - qualifier
WG - groundwater
U - undetected
UJ - esitmed undetected

> EPA RSLs
> NYSDEC Unrestricted

Table 4-2c
Groundwater Sample Detections - PCBs
Kingston Rail Yard
Kingston, New York

Location ID			KR-GW-01		KR-GW-02		KR-GW-02		KR-GW-03	
Matrix			WG		WG		WG		WG	
Sample Date			6/16/2016		6/16/2016		6/16/2016		6/16/2016	
Sample Type			N		FD		N		N	
Parent Sample Code					KR-GW-02-1					
Sample Depth			20 - 25 feet		20 - 25 feet		20 - 25 feet		20 - 25 feet	
CLP#			BD2D7		BD2E0		BD2D8		BD2D9	
CAS No.	Chemical	Unit	Result	Q	Result	Q	Result	Q	Result	Q
11096-82-5	Aroclor 1260	µg/L	0.062	UJ	0.062	UJ	0.062	UJ	0.062	UJ
11097-69-1	Aroclor 1254	µg/L	0.062	UJ	0.062	UJ	0.062	UJ	0.062	UJ
11100-14-4	Aroclor 1268	µg/L	0.062	UJ	0.062	UJ	0.062	UJ	0.062	UJ
11104-28-2	Aroclor 1221	µg/L	0.12	UJ	0.12	UJ	0.12	UJ	0.12	UJ
11141-16-5	Aroclor 1232	µg/L	0.062	UJ	0.062	UJ	0.062	UJ	0.062	UJ
12672-29-6	Aroclor 1248	µg/L	0.062	UJ	0.062	UJ	0.062	UJ	0.062	UJ
12674-11-2	Aroclor 1016	µg/L	0.062	UJ	0.062	UJ	0.062	UJ	0.062	UJ
37324-23-5	Aroclor 1262	µg/L	0.062	UJ	0.062	UJ	0.062	UJ	0.062	UJ
53469-21-9	Aroclor 1242	µg/L	0.062	UJ	0.062	UJ	0.062	UJ	0.062	UJ

Acronyms

µg/L - microgram per liter
CLP - Contract Laboratory Program
J - estimated results
N - normal
NL - not listed
Q - qualifier
WG - groundwater
U - undetected
UJ - estimated undetected

Table 4-2d
Groundwater Sample Detections - Metals
Kingston Rail Yard
Kingston, New York

Sample ID					KR-GW-01-1		GW-900-1		KR-GW-02-1		KR-GW-03-1	
Location ID					KR-GW-01		KR-GW-02		KR-GW-02		KR-GW-03	
Sample Date					6/16/2016		6/16/2016		6/16/2016		6/16/2016	
Matrix					WG		WG		WG		WG	
Sample Depth					20 - 25 feet		20 - 25 feet		20 - 25 feet		20 - 25 feet	
Sample Type					N		FD		N		N	
Parent Sample Code							KR-GW-02-1					
CLP#					BD2D7		BD2E0		BD2D8		BD2D9	
CAS No.	Chemical	EPA RSLs	NYSDEC Unrestricted	Unit	Result	Q	Result	Q	Result	Q	Result	Q
7429-90-5	Aluminum	NL	NL	µg/L	100	U	100	U	100	U	100	U
7440-36-0	Antimony	6	3	µg/L	20	U	20	U	20	U	20	U
7440-38-2	Arsenic	10	25	µg/L	8	U	8	U	8	U	8	U
7440-39-3	Barium	2000	1000	µg/L	100	U	100	U	100	U	100	U
7440-41-7	Beryllium	4	3	µg/L	3	U	3	U	3	U	3	U
7440-43-9	Cadmium	5	5	µg/L	3	U	3	U	3	U	3	U
7440-70-2	Calcium Metal	NL	NL	µg/L	43000		38000		39000		39000	
7440-47-3	Chromium	100	50	µg/L	5	U	5	U	5	U	5	U
7440-48-4	Cobalt	NL	NL	µg/L	20	U	20	U	20	U	20	U
7440-50-8	Copper	1300	200	µg/L	10	U	10	U	10	U	10	U
7439-89-6	Iron	NL	300	µg/L	50	U	50	U	50	U	50	U
7439-92-1	Lead	15	25	µg/L	8	U	8	U	8	U	8	U
7439-95-4	Magnesium	NL	35000	µg/L	2700		4600		4700		3700	
7439-96-5	Manganese	NL	300	µg/L	120		27		28		60	
7440-02-0	Nickel	NL	100	µg/L	20	U	20	U	20	U	20	U
7440-09-7	Potassium	NL	NL	µg/L	3700		3100		3200		3000	
7782-49-2	Selenium	50	10	µg/L	20	U	20	U	20	U	20	U
7440-22-4	Silver	NL	50	µg/L	5	U	5	U	5	U	5	U
7440-23-5	Sodium	NL	20000	µg/L	88000		84000		84000		58000	
7440-28-0	Thallium	2	0.5	µg/L	20	U	20	U	20	U	20	U
7440-62-2	Vanadium	NL	NL	µg/L	20	U	20	U	20	U	20	U
7440-66-6	Zinc	NL	2000	µg/L	20	U	20	U	20	U	20	U

> EPA RSLs
 > NYSDEC Unrestricted

Acronyms
µg/L - microgram per liter
CLP - Contract Laboratory Program
J - esitmatd results
N - normal
NL - not listed
Q - qualifier
WG - groundwater
U - undetected
UJ - esitmatd undetected

Table 4-2e
Groundwater Sample Detections - DRO/GRO
Kingston Rail Yard
Kingston, New York

Location ID			KR-GW-01		KR-GW-02		KR-GW-02		KR-GW-03	
Matrix			WG		WG		WG		WG	
Sample Date			6/16/2016		6/16/2016		6/16/2016		6/16/2016	
Sample Depth			20 - 25 feet		20 - 25 feet		20 - 25 feet		20 - 25 feet	
Sample Type			N		FD		N		N	
Parent Sample Code					KR-GW-02-1					
CLP#			BD2D7		BD2E0		BD2D8		BD2D9	
CAS No.	Chemical	Unit	Result	Q	Result	Q	Result	Q	Result	Q
68334-30-5	Total Petroleum Hydrocarbons as Diesel	µg/L	100	U	100	U	100	U	100	U
8006-61-9	Gasoline Range Hydrocarbons	µg/L	100	U	100	U	100	U	100	U

Acronyms

µg/L - microgram per liter

CLP - Contract Laboratory Program

J - estimated results

N - normal

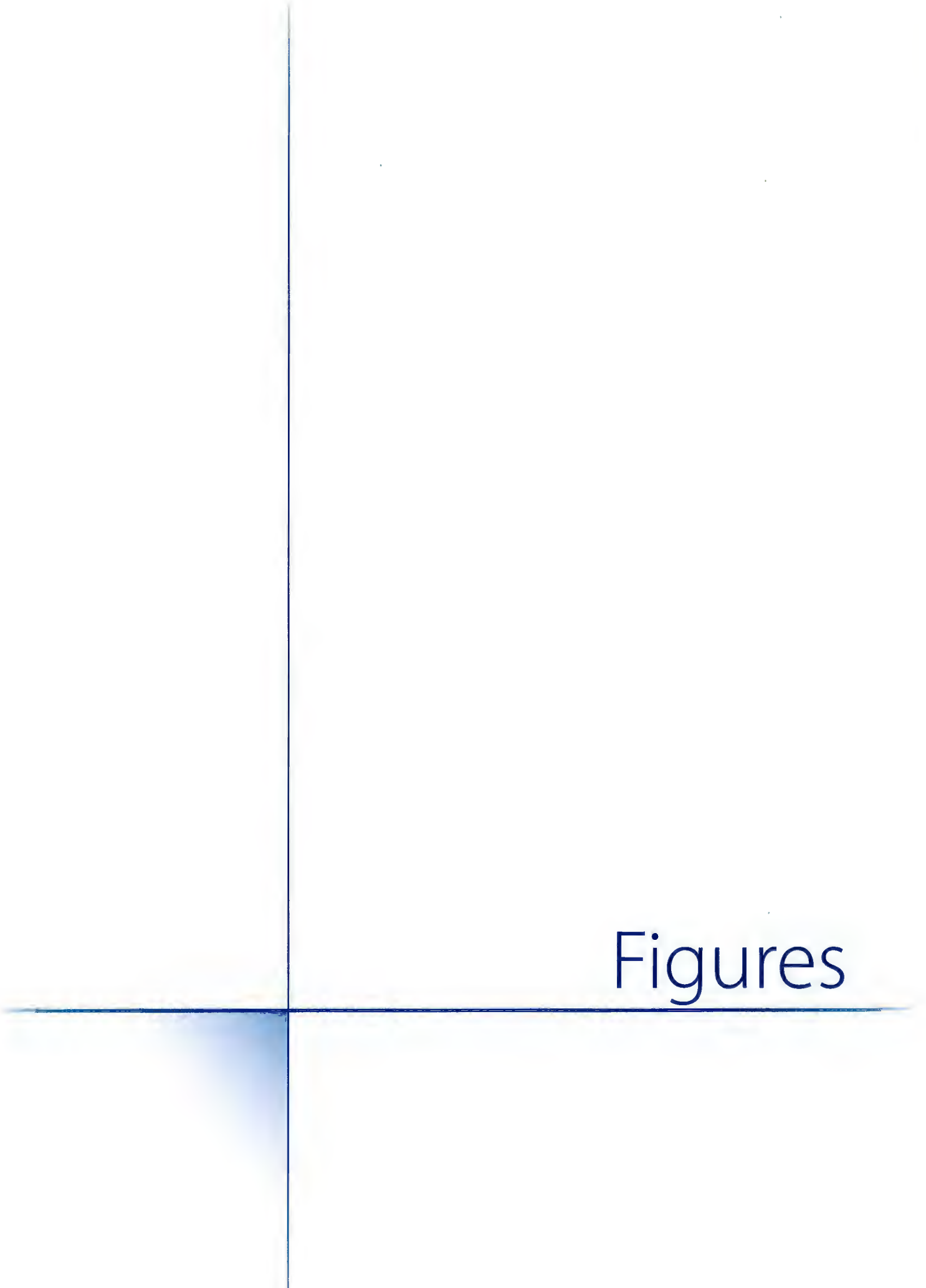
NL - not listed

Q - qualifier

WG - groundwater

U - undetected

UJ - estimated undetected



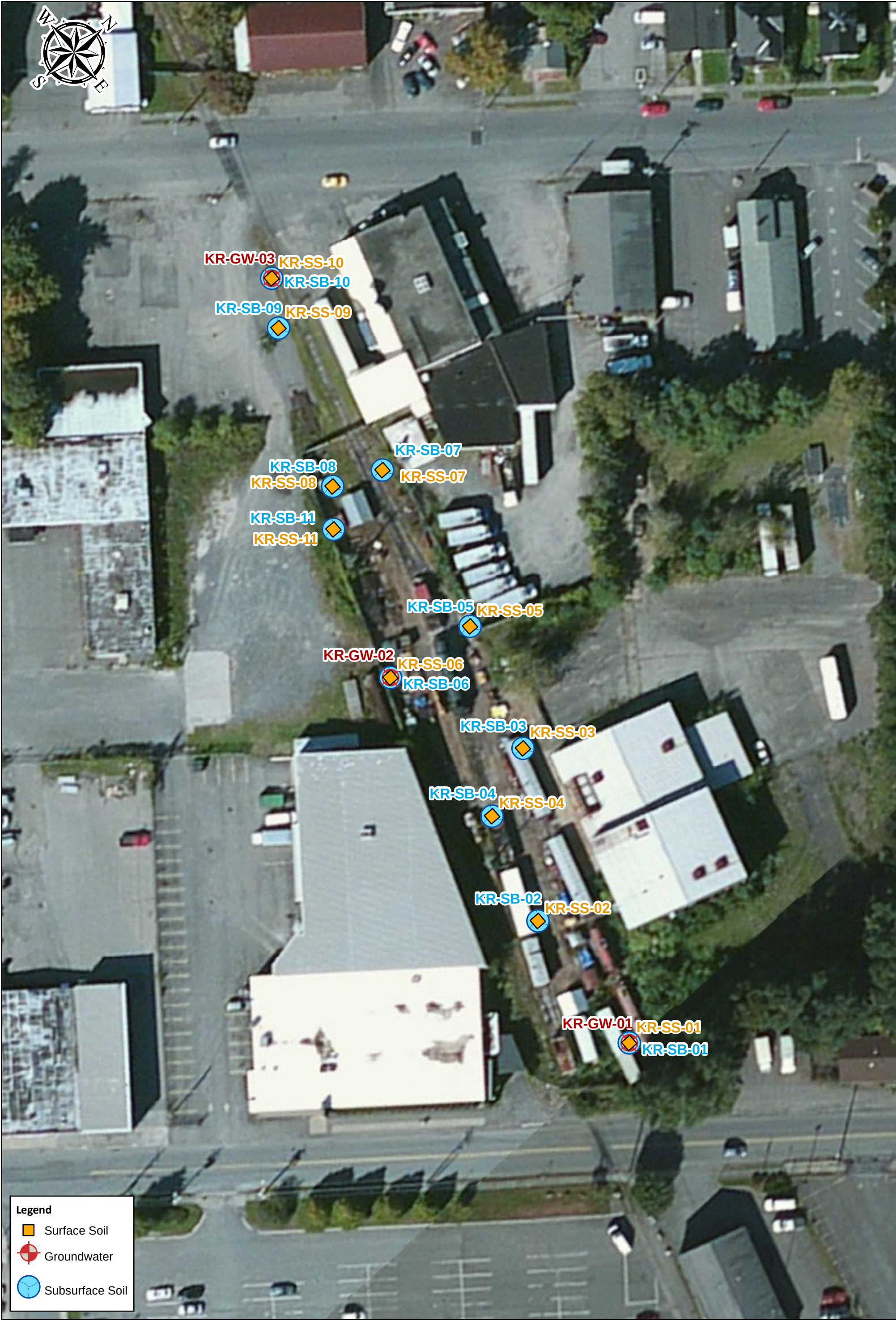
Figures



Kingston Rail Yard Phase II Environmental Site Assessment
Kingston, NY
Site Vicinity Map

Figure 2-1





Kingston Rail Yard Phase II Environmental Site Assessment
Kingston, NY
Sample Location Plan

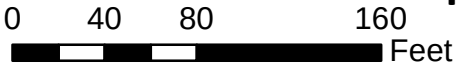
Figure 3-1

CDM Smith



Figure 3-2

Kingston Rail Yard Phase II Environmental Site Assessment
Kingston, NY
Site Location Map





NYSDEC Technical & Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values	
Compound	Concentration (µg/L)
Tetrachloroethene (PCE)	5
Trichloroethene (TCE)	5
Sodium	20000

KR-GW-03

Sample ID	KR-GW-03-1
Sample Depth	20 feet – 25 feet
Compound	Concentration (µg/L)
Tetrachloroethene (PCE)	120
Trichloroethene (TCE)	23
Sodium	58000

KR-GW-02

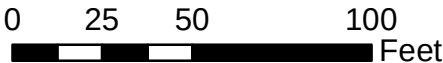
Sample ID	KR-GW-02-1	GW-900-1 (Duplicate)
Sample Depth	20 feet – 25 feet	
Compound	Concentration (µg/L)	
Tetrachloroethene (PCE)	180	170
Trichloroethene (TCE)	24	24
Sodium	84000	84000

KR-GW-01

Sample ID	KR-GW-01-1
Sample Depth	20 feet – 25 feet
Compound	Concentration (µg/L)
Tetrachloroethene (PCE)	4.2
Trichloroethene (TCE)	14
Sodium	88000

Legend

 Groundwater



Kingston Rail Yard Phase II Environmental Site Assessment
Kingston, NY
Organic and Inorganic Groundwater Exceedances

Figure 4-3

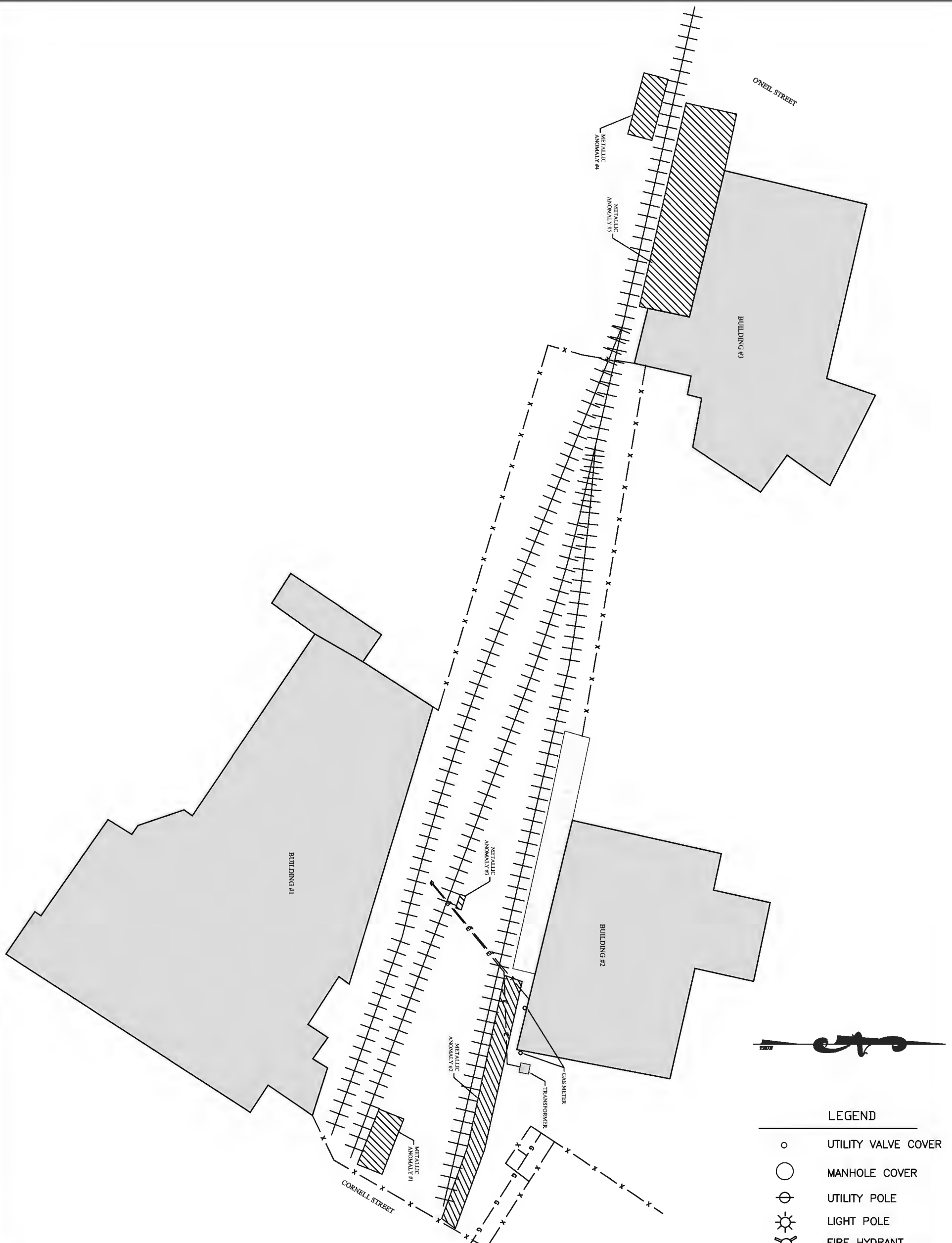


Appendices

Appendix A

Appendix A

Geophysical Investigation Report



NOTES:

This site plan was produced from data positioned by differential GPS measurements collected in the field. Due to the errors normally present in DGPS data, this document is not intended or represented to be of survey precision. Caution should be used in all field measurements based on this site plan.

As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity of any anomalies indicated in this document. The absence of detected signatures does not preclude the possibility that targets exist. The geophysical data and results presented in this site plan are based upon the application of scientific principles and professional judgments to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, scope of work, budget, and schedule.

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DATE	06/13/16
SCALE	1" = 50'
DWG NO.	061316
SHT NO.	1 OF 1
PROJECT.	

GEOPHYSICAL INVESTIGATION
FORMER KINGSTON ROAL YARD, KINGSTON, NEW YORK
FOR
CDM SMITH



DELTA Geophysics Inc.

738 Front Street, Catasauqua, PA 18032
Phone: (610) 231-3701



GEOPHYSICAL INVESTIGATION REPORT

SITE LOCATION:

**Former Kingston Rail Yard,
Kingston, New York**

PREPARED FOR:

**CDM Smith
6800 Old Collamer Road
East Syracuse, New York 13057**

PREPARED BY:

Mike Mesaros
Delta Geophysics Inc.
738 Front Street
Catasauqua, PA 18032

June 21, 2016

Delta Geophysics, Inc. (Delta) is pleased to provide the results of the geophysical survey conducted at the Former Kingston Rail Yard, Kingston, New York.

1.0 INTRODUCTION

On June 13th, 2016 Delta Geophysics personnel performed a limited geophysical investigation at the Former Kingston Rail Yard, Kingston, New York. The area of interest was all accessible areas in close proximity to client proposed soil borings and temporary well points. CDM Smith had proposed seven soil borings and three soil boring / temporary well points throughout the site at the time of the survey. Subsurface conditions were unknown.

2.0 SCOPE OF WORK

The survey was conducted to locate and mark detectable underground utilities in close proximity to client proposed soil boring locations. A secondary objective was to investigate the subsurface for anomalous features consistent with UST's, buried drums, and any other unknown metallic features.

3.0 METHODOLOGY

Selection of survey equipment is dependent site conditions and project objectives. For this project the technician utilized the following equipment to survey the area of concern:

- Geophysical Survey Systems Inc. SIR-3000 cart-mounted Ground Penetrating Radar (GPR) unit with a 400 Mhz antenna.
- Radiodetection RD7000 precision utility locator.
- Fisher M-Scope TW-6 pipe and cable locator.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 1,000 MHz) to acquire subsurface information. Energy is propagated downward into the ground and is reflected back to the surface from boundaries at which there are electrical property contrasts. GPR is a method that is commonly used for environmental, engineering, archeological, and other shallow investigations.

The GSSI SIR-3000 GPR can accept a wide variety of antennas which provide various depths of penetration and levels of resolution. The 400 MHz antenna can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced due to site-specific conditions. Signal penetration decreases with increased soil conductivity. Conductive materials attenuate or absorb the GPR signal. As depth increases the return signal becomes weaker. Penetration is the greatest in unsaturated sands and fine gravels. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, of other highly conductive materials significantly reduces GPR depth of penetration.

The GPR was configured to transmit to a depth of approximately 10 feet below the subsurface, but actual signal penetration was limited to approximately 1-2 feet below ground surface (bgs). The limiting factor was signal attenuation from near surface soils.

The RD7000 precision utility locator uses radio emission to trace the location of metal bearing utilities. This radio emission can be active or passive. Active tracing requires the attachment of a radio transmitter to the utility, passive tracing uses radio emissions that are present on the utility. Underground electrical utilities typically emit radio signals that this device can detect.

The TW-6 is designed to find pipes, cables and other metallic objects such as underground storage tanks. One surveyor can carry both the transmitter and receiver together, making it ideally suited for exploration type searches of ferrous metal masses. Metal detectors of this type operate by generating a magnetic field at the transmitter which causes metallic objects in the subsurface to generate a secondary magnetic field. The induced secondary field is detected by the receiver, which generates an audible tone equal to the strength of the secondary field.

4.0 SURVEY FINDINGS

All accessible areas in close proximity to client proposed soil borings were examined during this investigation. Each location was examined with the RD7000 for potential subsurface utilities then surveyed with GPR and TW-6 for other potential anomalies. Based on the data gathered, five metallic anomalies were detected on the subject property.

Metallic Anomaly #1

Metallic Anomaly #1 was located with TW-6. The anomaly measures approximately 31 feet by 14 feet. It is located adjacent to the entrance to the property along Cornell Street. GPR transects did not image the anomaly. Metallic Anomaly #1 is consistent with conductive soils.

Metallic Anomaly #2

Metallic Anomaly #2 was located with TW-6 and confirmed with GPR. The anomaly is approximately 6 feet wide and runs the entire length of the northeast portion of the property. GPR transects imaged two shallow features traversing parallel to each other. Metallic Anomaly #2 is consistent with a former rail spur.

Metallic Anomaly #3

Metallic Anomaly #3 was located with TW-6 and confirmed with GPR. The anomaly measures approximately 7 feet by 3 feet. It is located approximately 15 feet north of the utility pole centrally located in the property. GPR transects imaged disturbed soils. Metallic Anomaly #3 is consistent with metal debris.

Metallic Anomaly #4

Metallic Anomaly #4 was located with TW-6. The anomaly measures approximately 33 feet by 13 feet. It is located adjacent and east of O'Neil Street and south of the rail spur. GPR transects did not image the anomaly. Metallic Anomaly #4 is consistent with conductive soils.

Metallic Anomaly #5

Metallic Anomaly #5 was located with TW-6. The anomaly measures approximately 100 feet by 25 feet. It is located south of building #3 and north of the rail spur. GPR transects did not image the anomaly; however, a portion of a former rail spur was observed protruding from the ground adjacent to building #3. Metallic Anomaly #5 may be a continuation of the potential former rail spur or spurs from Metallic Anomaly #2.

Utility Survey

Delta performed a utility survey across the client specified area. The following utilities were identified: electrical conduits, telecommunication, and natural gas. All utilities were marked onsite with appropriate colors. Anomalous features were marked onsite in pink paint.

A site map (061316) is included with all located subsurface features.

5.0 SURVEY LIMITATIONS

GPR depth of penetration was limited to approximately 1-2 feet bgs. The limiting factor was due to conductive soils. Two natural gas meters were observed adjacent to building #2. Delta was not able to detect the gas lines associated due to their depth and / or physical characteristics.

According to the client provided site plan: Figure 1 Phase II Sampling Locations, the property line extends north beyond the fence located east of building #3 for approximately 30 feet. This area was not accessible to Delta personnel at the time of the survey.

6.0 WARRANTIES AND DISCLAIMER

As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity to any anomalies indicated in this report. In addition, the absence of detected signatures does not preclude the possibility that targets may exist. To the extent the client desires more definitive conclusions than are warranted by the currently available facts; it is specifically Delta's intent that the conclusions stated herein will be intended as guidance.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limit or scope of work, budget and schedule. Delta represents that the services were performed in a manner consistent with currently accepted professional practices employed by geophysical/geological consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

This report was prepared pursuant to the contract Delta has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Delta and its client and serves as the basis upon which this report was prepared. Because of the importance of the understandings between Delta and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Delta.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Delta's contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

Appendix B

Appendix B

Field Log Book and Equipment Calibrations Forms

GENERAL EQUIPMENT CALIBRATION LOG
Kingston Rail Yard
Kingston, New York

Instrument (make/model/serial #): YSI 6920

Manufacturer: YSI

Rental Company: PINE

Upon receipt, all parts are included and this instrument is in working order: *JE* 6/16/16
(signature/date)

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
6/16/16	3.60	PH/4.0	6/20		4.0 SU	✓	<i>JE</i>
	8.61	PH/7.0	2/18		7.0 SU	✓	<i>JE</i>
	0.3	TURB 0.0	12/16		0.0 SU	✓	<i>JE</i>
	110.3	TURB 126.0	1/20		126.7 SU	✓	<i>JE</i>
	1.397	Cond 1.413 sp Cond	7/17		1.413 ms/cm	✓	<i>JE</i>
	101.2%	DO/100%	—		100.2%	✓	<i>JE</i>
	222	ORP 240mV	3/17		240mV	✓	<i>JE</i>

Instrument Calibration Log -MultiRAE + (4 gas + PID)

Kingston Rail Yard

Kingston, New York

Calibration Completed By	Date	Rental Company	Rental Company Number	Instrument Serial Number	Time Instrument On ¹	Warm Up 5 to 10 Minutes ²
LE	6/14/16	PINE				

Calibration Gas	Manufacturer	Lot No./Expiration Date	Concentration(s)
ISOBUTYLENE	RAE	CM - 247 - 100-7 3/17	CO: H ₂ S: LEL: O ₂ :
			Isobutylene: 100 ppm VOC

Fresh Air Calibration	Carbon Monoxide (CO) Reading	VOC ³ Reading (zero)	H ₂ S Reading (zero)	LEL Reading (zero)	Oxygen (O ₂)
Expected Reading ⁴	Zero	Zero	Zero	Zero	20.9%
Actual Reading					

Multiple Sensor Calibration	CO Reading	H ₂ S Reading	LEL Reading	O ₂ Reading	VOC Sensor Calibration	VOC Reading
Expected Reading ⁵					Expected Reading	
Actual Reading					Actual Reading	

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

Calibration Check ⁶	Completed (Circle one):	YES	NO
Time:	Date:	Calibration Completed By:	
Calibration Gas	Same as Above (Circle one)?	YES	NO (IF NO COMPLETE INFORMATION BELOW)
	Manufacturer	Lot No./Expiration Date	Concentration(s)
			CO: H ₂ S: LEL: O ₂ :
			Isobutylene:

¹ Note time instrument is turned on for initial warm up² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings⁵ Write concentration from calibration gas on this line⁶ Complete at the end of the day

Location Kingsboro NY Date 6-14-16
Project / Client Kingston Railway

3

DATE

7:40 A. Rielly, L. Estrada, C. Meehan
(COM Smith) on site
Weather: Sunny 60°F
8:00 Talon drilling (2 personnel) onsite
8:10 Health and safety talk - potential
contaminants of concern, ppe
8:15 Pine did not deliver PID. AR contacted
Tonya Bennett and Karen Whalen. AR
contacted Pine. Determined FedEx did not
deliver PIDs. Awaiting delivery to Albany
CUM office. Also have Pine delivering a PID
to site from NJ.
9:30 Called KW to see if we can proceed
with advancing cores and not opening
macrocores. KW to call B. MacDonald.
10:30 KW called and said to go ahead
and start collecting surface soil samples.
10:40 Collect KR-SS-01 CLP # BD203
sample is dry brown silty soil
11:00 Collect KR-SS-02-A CLP # BD204
Soft sandy top soil, some moisture.
11:15 Collect KR-SS-03-A CLP # BD205
Soft, moist top soil. Strong odor.
Desintegrating "geotextile" fabric.

AR RW. 6/14/16 in the Rain

Location Kingston NY Date 6-14-16
Project / Client Kingston Rail Yard

5

Dillers had to advance again to obtain volume for sample, second 10-15' core
1415 Begin drilling at SB-06
TP-01 well point screened from 20-25 ft
1440 Colled KR-SB-06-A 18-20 ft bags
had to retrieve second core for sample volume
1510 Begin drilling at SB-10
1520 Collect KR-SS-10-A
Surface soil collected from 6 in. 1 ft
because top 6 inch was rock and gravel
1540 Collect KR-SB-10 21-22 ft
1550 A. Rielly offsite to get ice
L. Estrada and C. Meekhan packing
samples
1605 A. Rielly on site
1620 Talon offsite
1640 KR-SS-11-A collected earlier by C. Meekhan
Daily summary: collected 10 surface
soil sample and 3 subsurface soil.
Three temporary well points were
installed, each screened 20-25 ft bags
1640 A. Rielly offsite. L. Estrada and
C. Meekhan preparing samples for shipment
1815 L. Estrada and C. Meekhan offsite to pack

See notes 6/14/16

6

Location Kingston NY Date 6-15-16
 Project / Client Kingston Rail Yard

7:00 A. Rielly (CAM Smith) on site
 weather: sunny 62°F
 Calibrated PDI - 100 ppm isomylene - 70 ppm
 7:30 L. Estrada & C. Meekun (CAM Smith)
 and Talon drilling on site
 Health and safety meeting - / Rest extension
 8:05 Begin drilling at KR-SB-02
 CM and LE to begin developing wells
 SB-02 lithology in separate boring log
 8:15 Collect KR-SB-02 at 2-3 ft bgs
 8:30 Begin drilling at KR-SB-03
 8:45 Collect KR-SB-03 at 3-4 ft + MUMSD
 collected one additional 0-5 core
 9:05 Begin drilling at KR-SB-04
 9:20 Collect KR-SB-04-A 6-7 ft bgs
 Slight petroleum odor observed
 9:30 Spoke with KW about vias with
 missing spin bars. Not enough to collect
 the twelfth boring. KW agreed to omit
 12th boring. May investigate conductive soil
 area near SB-01 and SB-02
 9:35 AR offsite to get ice
 9:50 AR return to site
 CM completed development of GW-03

6/15/16

7

Location Kingston NY Date 6-15-16
 Project / Client Kingston Rail Yard

10:00 Begin drilling at KR-SB-05
 CM begin to develop GW-06
 10:15 Collect KR-SB-05-A 5-6 ft bgs
 10:30 Begin drilling KR-SB-07-A
 10:45 Collect KR-SB-07-A 4-5 ft bgs
 10:50 Collect duplicate SB-900-A
 11:10 Begin drilling KR-SB-08
 11:20 Collect KR-SB-08 at 7-8 ft
 bgs PID 0.4 ppm
 11:40 Begin drilling SB-11
 11:55 Collect KR-SB-11-A @ 1-2 ft bgs
 PID 1.4 ppm
 12:00 Collect SB-900-B duplicate
 12:00 Talon offsite for lunch
 12:45 Mob at KR-SB-09 outside fence
 area is hard, gravel and asphalt
 12:50 Collect KR-SB-09
 CM completed development of
 GW-10
 13:10 Collect KR-SB-09-A 4-5 ft bgs
 13:50 Talon offsite
 Preparing samples for shipment
 15:40 A. Rielly offsite
 16:30 L. Estrada and C. Meekun offsite to feed
 AR and 6/15/16 *Rite in the Rain*

Location Kingston NY Date 6/16/16
 Project / Client Kingston Rail Yard

8:15 L. Estrada and C. Meehan on site
 8:45 Talon drilling (2 person crew) on site
 9:00 A. Rielly on site
 Weather: 60°F cloudy
 9:20 CM begin sampling GW-01
 See low flow sheets for parameter
 9:45 Collect trip blank sample TB-01
 10:30 A. Rielly & L. Estrada to GPS sample locs:
KR-SB-01 / KR-GW-01 KR-SB-02
 LAT: 41.930558 LAT: 41.930580
 LONG: -74.002482 LONG: -74.002830
KR-SB-03 KR-SB-04
 LAT 41.930758 LAT 41.930641
 LONG -74.003148 LONG -74.003079
KR-SB-05 KR-SB-06 / KR-GW-02
 LAT 41.930829 LAT 41.930669
 LONG -74.003437 LONG -74.003471
KR-SB-11 KR-SB-07
 LAT 41.930765 LAT 41.930895
 LONG -74.003811 LONG -74.003838
KR-SB-08 KR-SB-09
 LAT 41.930813 LAT 41.930924
 LONG -74.003886 LONG -74.004239

A. Rielly 6/16/16

Location Kingston NY Date 6/16/16
 Project / Client Kingston Rail Yard

KR-SB-10 / KR-GW-03

LAT 41.930972

LONG -74.004335

11:05 Collect FB: GW-B

Sample KR-GW-01 collected at 10:00
 + MS/MSD

12:00 Collected KR-GW-02 + duplicate

14:00 Collected KR-GW-03

Talon pulled all three temporary wells
 Three drums on site, one water,
 one soil and one well casing, tubing

14:40 Talon off site

14:45 Packaging samples for shipment/
 bagging ice.

17:00 A. Rielly, L. Estrada and C. Meehan
 off site. L. Estrada and C. Meehan to
 FedEx to drop samples Return to Albany.

A. Rielly 6/16/16

Appendix C

Appendix C

Photographic Documentation

Kingston Rail Yard – Kingston, NY



Kingston Rail Yard – Kingston, NY



Kingston Rail Yard – Kingston, NY



Kingston Rail Yard – Kingston, NY



Kingston Rail Yard – Kingston, NY



Kingston Rail Yard – Kingston, NY



Appendix D

Appendix D

Soil Boring and Temporary Well Construction Logs

Boring Name: KR-SB-01/KR-GW-01

Client: USEPA

Project Location: Kingston, NY

Project Name: Kingston Rail Yard TBA

Project Number:

Drilling Contractor: Talon

Drilling Method: DPT

Sample Method: ~~DPT~~ Composite

Drilling Date: 6/14/16

North:

East:

Surface Elevation (ft amsl):

Total Depth: 25

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: MINRAE P115

Logged by: AR

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				2	5.3 7.1		dry, brown silty sand
				3	7.3 2.4		brown sand, loose, dry
10				5	43.8 27.8 7.3 32.7 45.2		brown sand
15	KR-SB-01-A 14-15' bgs			5	64.5 17.8 28.2 24.5 13.0 1.3		dry, loose brown sand firmer, brown sand, some med sized grey rocks loose, dry brown sand wet @ ~ 19 ft
20							

Remarks:

Remarks:

Boring Name: K12-SB-02

Client: USEPA

Project Location: Kingston NY

Project Name: Kingston Rail Yard T&E

Project Number:

Drilling Contractor: Talon

Drilling Method: DPT

Sample Method: Composite

Drilling Date: 6/15/16

North:

East:

Surface Elevation (ft amsl):

Total Depth: 15

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: MINIRAC

Logged by: JR

Depth (ft bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
					0		1' black silty sand with metallic flecks
	K12-SB-02-A 2-3 ft			4	0.2		brown silty sand
5					0		
				4	0		brown silty sand
10							brown silty sand, small gravel
				4	0		finer, silty brown sand
15							silty brown sand, small gravel, some small rocks

Remarks:



Raritan Plaza I
110 Fieldcrest Ave, 6th Floor
Edison, New Jersey 08837

Page of

Boring Name: KR-SB-03

Client: USEPA

Project Location: Kingston NY

Project Name: Kingston Rail Yard TBA

Project Number:

Drilling Contractor: Talon

Drilling Method: DPT

Sample Method: Composite

Drilling Date: 6/15/16

North:

East:

Surface Elevation (ft amsl):

Total Depth: 15

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: MiniRAE P10

Logged by: AR

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	DVM Reading (ppm)	Graphic Log	Material Description
					1.5		6" gray rock
				3	2.8		brown silty sand
	KR-SB-03-A 3-4 ft				10.5 @ 3 ft		
5				3.5	0.5		brown, silty sand
10				4	0		brown silty sand
15							silty sand, small gravel

Remarks:

Boring Name: KR-SB-04

Client: USLPA

Project Location: Kingston NY

Project Name: Kingston Rail Yard TBA

Project Number:

Drilling Contractor: Talon
Drilling Method: PPT
Sample Method: composite
Drilling Date: 6/15/16
North:
East:

Surface Elevation (ft amsl):
Total Depth: 15
Depth to Initial Water Level (ft bgs):
Field Screening Instrument: Min. RAC PID
Logged by: JLR

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				4	0		1' black, silty sand w metallic flecks firm, brown silty sand
	KR-SB-04-A 6-7 ft			3	0		brown, silty sand, some black color on outside brown silty sand, some small gravel
10				4	0		more loose, brown silty sand moist, brown silty sand, small gravel
15							

Remarks:

Boring Name: KR-SB-05

Client: WJPA

Project Location: Kingston NY

Project Name: Kingston Rail Yard

Project Number:

Drilling Contractor: Talon

Drilling Method: DPT

Sample Method: Composite

Drilling Date: 6/15/16

North:

East

Surface Elevation (ft amsl):

Total Depth: 15

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: Rhinco ZRF PID

Logged by: AR

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
				4.5	Ø		1 ft brown silty soil, plant material, black metallic material outside
5	KR-SB-05-A 5-6 ft			4	Ø		dry silty brown sand
10				4.5	Ø		1 ft loose, dry, brown/gray silty soil
15							firm, dry brown silty sand, small gravel
							SAA

Remarks:

Boring Name: KR-SB-06 / KR-GW-02

Client: VSC PA

Project Location: Kingston NY

Project Name: Kingston Rail Yard

Project Number:

Drilling Contractor: Tully

Drilling Method: DPT

Sample Method: composite

Drilling Date: 6/14/16

North:

East:

Surface Elevation (ft amsl):

Total Depth: 25

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: MINIRAE Pro

Logged by: AR

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				4	Ø		1 ft: gray, granular, some small rock, dry silt 1 ft: black, granular w metallic flecks dry brown sand
10				4	Ø		brown sand, dry
15				4	Ø		brown sand, dry moist brown sand
20	KR-SB-06-A 18-20 ft			4	Ø 6.1 @ 18 ft		moist, brown silty sand firmer in bottom foot

Remarks:

Boring Name: KR-SB-06 / KR-GW-02

Project Name:

Project Number:

Surface Elevation (ft amsl):

Total Depth: 25

Depth to Initial Water Level (ft.bgs):

Field Screening Instrument: Min. RAE PID

Logged by:

~~East~~

[illegible]

Remarks:

Boring Name: KR-SB-07

Client: USEPA

Project Location: Kingston NY

Project Name: Kingston Rail Yard TBA

Project Number:

Drilling Contractor: Talon

Drilling Method: DPT

Sample Method: Composite

Drilling Date: 6/15/16

North:

East:

Surface Elevation (ft amsl):

Total Depth: 15

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: Mini-Rate Plus

Logged by: AR

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
					0		1 ft - loose, dark brown and black silty soil, plant material
				4	0.1		firm, dry brown silty sand
5	KR-SB-07A 4-5 ft	+ duplicate					
				4	Ø		firm, brown silty sand w/ small gravel
10							
				3	Ø		dry brown silty sand moist brown silty sand with 4" section hard brown clay, brown silty sand, small gravel
15							

Remarks:

Boring Name: KR-SB-08

Client: WERA

Project Location: Kingston NY

Project Name: Kingston Rail Yard T&A

Project Number:

Drilling Contractor: Talon

Drilling Method: BPT

Sample Method: composite

Drilling Date: 6/15/16

North:

Surface Elevation (ft amsl):

Total Depth: 15

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: Mini RAE PID

Logged by: AL

East:

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	QVM Reading (ppm)	Graphic Log	Material Description
5				4	0.2 0.2 0.1 0.2		2 ft - dark brown/black silty soil, black metallic flecks firm, dry, brown silty sand
	KR-SB-08-1 7-8 ft			3	0.3 0.4 0.2		dry, brown silty sand, some black soil w/ metallic material
10				3	0.2		dry, brown silty sand
15							

Remarks:

Boring Name: KR SB-09

Client: USEPA

Project Location: Kingston NY

Project Name: Kingston Rail Yard TBA

Project Number:

Drilling Contractor: Talon

Drilling Method: DPT

Sample Method: composite

Drilling Date: 6/15/16

North:

East:

Surface Elevation (ft amsl):

Total Depth: 15

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: Min. RAE PID

Logged by: AR

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5	KR-SB-09-A 4-5 ft			4	Ø		1 ft loose, black/gray soil firm, dry brown sand
10				4	Ø		brown silty sand, some small gravel
15				5	Ø		brown silty sand, some gray rocks @ 11-12 ft bgs

Remarks:

Boring Name: KR-SB-10 / KR-GW-03

Client: USEPA

Project Location: Kingston NY

Project Name: Kingston Rail Yard TBA

Project Number:

Drilling Contractor: Talon

Drilling Method: DPT

Sample Method: composite

Drilling Date: 6/14/16

North:

East:

Surface Elevation (ft amsl):

Total Depth: 25

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: MINIRAPID

Logged by: AR

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	DVM Reading (ppm)	Graphic Log	Material Description
5				3	Ø		1 ft - white/gray rock, small gravel, brown soil dry brown sand
10				4	Ø		dry brown sand
15				4	Ø		brown sand, med. gray rock brown sand, small gravel brown silty sand, dry
20				4	Ø		brown silty sand, some gray rocks, moist brown sand w/ small gravel wet at bottom

Remarks:

Boring Name: KR JB-11

Client: USEPA

Project Location: Kingston NY

Project Name: Kingston Rail Yard

Project Number:

Drilling Contractor: Talam

Drilling Method: DPT

Sample Method: composite

Drilling Date: 6/15/16

North:

East:

Surface Elevation (ft amsl):

Total Depth: 15

Depth to Initial Water Level (ft bgs):

Field Screening Instrument: Minipax Pro

Logged by: AL

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5	KR JB-11-A 1-2 ft			4	1.4 1.0 0.3 0.1		1 ft dry silty black soil, some black metallic material firm, silty brown sand
10				4	0.4 0.6		dry, silty brown sand
15				4	0.4 0.5 0.2 0.2		loose, dry brown silty sand silty brown sand with small gravel

Remarks:

Appendix E

Appendix E

Groundwater Sampling Logs

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD
Kingston Rail Yard
Kingston, NY

DW
18.4

DATE: 6/16/18

WELL #: KR-GW-01

SAMPLERS: Colleen Meehan

DEPTH OF PUMP INTAKE: 23 ft TIC or ft BGS (circle one)

WEATHER CONDITIONS: Cloudy + warm

SCREENED/OPEN BOREHOLE INTERVAL: 20 - 25 ft TIC or ft BGS (circle one)

SAMPLE ID: KR-GW-01-1

SAMPLE TIME: 1000 SAMPLE FLOW RATE: 200 ml/minute

CLP ID:

Instrument Type/Model: Complete and/or Circle at right					YSI Model # _____ / Horiba U-22 (circle one) Other (specify) _____					Instrument:
CURRENT TIME	VOLUME PURGED	DEPTH TO WATER	FLOW RATE	DRAWDOWN (± 0.3 FT)	pH (± 0.1 SU)	SPECIFIC CONDUCTIVITY (± 3%)	DISSOLVED OXYGEN (± 10%)	TEMP. (± 10%)	REDOX ~~OR~~ POTENTIAL (± 10 mV)	TURBIDITY (± 10%)
24-Hour	gallons / liters (circle)	ft TIC / ft BGS (circle one)	Units: ml/min	ft TIC / ft BGS	SU	S/cm, <u>mS/cm</u> or µS/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
929	1.25	18.4	250		6.94	0.780	4.00	15.44	175.9	139.6
934	1.25	18.4	250	0	6.25	0.759	4.43	14.67	188.7	28.7
939	1.25	18.4	250	0	6.25	0.760	4.30	14.50	187.5	7.8
944	1.25	18.4	250	0	6.27	0.760	4.24	14.40	189.2	5.9
949	1.25	18.4	250	0	6.30	0.760	4.27	14.53	186.5	3.3
954	1.25	18.4	250	0	6.31	0.760	4.25	14.59	190.9	2.8

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs
 Spec. Conductivity (µS/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 µS/cm = 1 mS/cm
 TIC = Top of Inner Casing BGS = Below Ground Surface

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD

Kingston Rail Yard
Kingston, NY

DTW:
19.9

DATE: 6/16/16

WELL #: KR-GW-02

SAMPLERS: Colleen Meenan

DEPTH OF PUMP INTAKE: 23 ft TIC or ft BGS (circle one)

WEATHER CONDITIONS: sunny

SCREENED/OPEN BOREHOLE INTERVAL: 20-25 ft TIC or ft BGS (circle one)

SAMPLE ID: KR-GW-02

SAMPLE TIME: 1200 SAMPLE FLOW RATE: 200 ml/minute

CLP ID:

Instrument Type/Model:		YSI Model # <u>6420</u> / Horiba U-22 (circle one)								Instrument:
Complete and/or Circle at right		Other (specify) _____								
CURRENT TIME	VOLUME PURGED	DEPTH TO WATER	FLOW RATE	DRAWDOWN (± 0.3 FT)	pH (± 0.1 SU)	SPECIFIC CONDUCTIVITY (± 3%)	DISSOLVED OXYGEN (± 10%)	TEMP. (± 10%)	REDOX POTENTIAL (± 10 mV)	TURBIDITY (± 10%)
24-Hour	gallons / liters (circle)	ft TIC / ft BGS (circle one)	Units:	ft TIC / ft BGS	SU	S/cm, <u>mS/cm</u> or µS/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
1126	1.25	19.9	250		6.53	0.734	4.88	15.69	172.8	45.1
1131	1.25	19.9	250	0	6.16	0.730	4.02	15.06	229.3	5.3
1136	1.25	19.9	250	0	6.12	0.728	3.93	14.89	259.4	3.7
1141	1.25	19.9	250	0	6.11	0.725	3.90	14.84	282.9	2.8
1146	1.25	19.9	250	0	6.11	0.724	3.92	14.86	299.9	2.2
1151	1.25	19.9	250	0	6.13	0.724	3.78	15.17	316.3	2.5
1156	1.25	19.9	250	0	6.14	0.725	3.82	15.2	324.5	3.0

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs
Spec. Conductivity (µS/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 µS/cm = 1 mS/cm
TIC = Top of Inner Casing BGS = Below Ground Surface

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD

Kingston Rail Yard

Kingston, NY

DATE: 6/16/16

SAMPLERS: AR

WEATHER CONDITIONS: sunny

SAMPLE ID: KR-GW-03

CLP ID:

WELL #: KR-GW-03

DEPTH OF PUMP INTAKE: 23 ft TIC or ft BGS (circle one)

SCREENED/OPEN BOREHOLE INTERVAL: 20-25 ft TIC or ft BGS (circle one)

SAMPLE TIME: 1400 SAMPLE FLOW RATE: 250 ml/minute

Instrument Type/Model:		YSI Model # <u>6920</u> / Horiba U-22 (circle one)		Instrument:						
Complete and/or Circle at right		Other (specify) _____								
CURRENT TIME	VOLUME PURGED	DEPTH TO WATER	FLOW RATE	DRAWDOWN	pH	SPECIFIC CONDUCTIVITY	DISSOLVED OXYGEN	TEMP.	REDOX POTENTIAL	TURBIDITY
				(± 0.3 FT)	(± 0.1 SU)	(± 3%)	(± 10%)	(± 10%)	(± 10 mV)	(± 10%)
24-Hour	gallons / <u>liters</u> (circle one)	<u>ft TIC</u> / ft BGS (circle one)	Units:	<u>ft TIC</u> / ft BGS	SU	S/cm, <u>mS/cm</u> or μ S/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
1315	1.25	19.25		~~19.25~~ 0	5.57	0.598	5.84	16.60	214.5	67.0
1320	1.25	19.25		~~19.25~~ 0	5.27	0.591	5.74	16.40	322.6	18.3
1325	1.25	19.25		0	5.31	0.587	5.37	16.49	376.7	7.6
1330	1.25	19.25		0	5.34	0.587	5.36	16.41	403.2	3.8
1335	1.25	19.25		0	5.45	0.585	5.34	16.51	416.7	2.7
1340	1.25	19.25		0	5.53	0.584	5.27	16.46	426.3	2.1
1345	1.25	19.25		0	5.60	0.585	5.22	16.59	430.0	2.0

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs
 Spec. Conductivity (μ S/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 μ S/cm = 1 mS/cm
 TIC = Top of Inner Casing BGS = Below Ground Surface

Appendix F

Appendix F

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A		Manifest Document No. 16088		2. Page 1 of 1	
3. Generator's Name and Mailing Address U.S. EPA REGION 2/KINGSTON RAIL YARD 290 BROADWAY, 19th FLOOR, NEW YORK, NY 10007							
4. Generator's Phone (212) 637-4158 ATTN: A. DEVINE							
5. Transporter 1 Company Name FREEHOLD CARTAGE, INC.		6. US EPA ID Number NJ0 054 126 164		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
				C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address ENVIRONMENTAL RECOVERY CORP 1076 OLD MANHEIM PIKE LANCASTER, PA 17601		10. US EPA ID Number PA0 987 266 749		E. State Facility's ID 301344			
				F. Facility's Phone 717-393-2627			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No.	Type		
a. NONHAZARDOUS, NON REGULATED (SOIL CUTTINGS) APPROVAL 1607-04706-3PT				1	DM	250	P
b. NONHAZARDOUS, NON REGULATED (PURGE WATER) APPROVAL 1607-04707-LMT				1	DM	100	P
c. NONHAZARDOUS, NON REGULATED (PPE/DEBRIS) APPROVAL 1607-04705-3PT				1	DM	75	P
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information SITE ADDRESS: BETWEEN CORNELL ST., ONEIL ST., AND TREMPOR AVE KINGSTON, NY 12401							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
LIA ESTRADA						Date	
Printed/Typed Name CDM SMITH ON BEHALF OF USEPA				Signature <i>[Signature]</i>		Month Day Year 08 26 16	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name <i>Michael Brooks</i>				Signature <i>[Signature]</i>		Month Day Year 08 26 16	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE



**FREEHOLD CARTAGE INC.**P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924**BILL OF LADING**
FCI EPA ID NO. NJD054126164**S 573698**350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-16135533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367132 Myrtle Beach Hwy
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS <i>Kingston Railway</i> <i>Kingston, NY</i>		PHONE					
		(AREA CODE)					
		TRACTOR <i>719</i>	TRAILER <i>4684</i>	APPOINTMENT TIME :			
FCI REP. LOADING (PRINT) <i>MBroder</i>	PROCEDURE <i>LTL</i>	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT SHIPPER <i>12:45</i>		(MILITARY TIME ONLY)	
				ARRIVAL TIME		DEPARTURE TIME <i>1:15</i>	
COMMENTS OR DELAYS AT SHIPPER				EQUIPMENT USED			

BROKER:

PO #:

WO #:

MANIFEST / DOCUMENT NO.
5451
Manifest

1 FCI	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1	<i>16088</i>				<i>3</i>	<i>201</i>	<i>55 gal</i>			
2										
3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE <i>R.</i>	SHIPPER'S SIGNATURE <i>X</i> <i>[Signature]</i>	DATE LOADED <i>8/20/16</i>
I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.		MO. DAY YR.

CONSIGNEE NAME/ADDRESS <i>FRC</i> <i>Lancaster, Pa.</i>		PHONE					
		(AREA CODE)					
		TRACTOR	TRAILER	APPOINTMENT TIME :			
FCI REP. UNLOADING (PRINT)	PROCEDURE	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT CONSIGNEE :		(MILITARY TIME ONLY)	
				ARRIVAL TIME		DEPARTURE TIME	
COMMENTS OR DELAYS AT CONSIGNEE				EQUIPMENT USED			
PLEASE PRINT NAME/TITLE		CONSIGNEE SIGNATURE <i>X</i> _____		DATE UNLOADED <i>1/1</i>			
				MO. DAY YR.			

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA OC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator**S 573698**

Appendix G

Appendix G

Data Validation



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

July 27, 2016

Scott Kirchner
CDM Smith
110 Fieldcrest Avenue, 6th Floor
Edison, NJ 08837

RE: Kingston Rail Yard - 1606029

Enclosed are the results of analyses for samples received by the laboratory between 6/15/2016 and 6/17/2016. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1606029 and contact the laboratory.

Sincerely,

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
KR-SS-01-A	1606029-01	Solid	06/14/2016 10:40	06/15/2016 11:00
KR-SS-02-A	1606029-02	Solid	06/14/2016 11:00	06/15/2016 11:00
KR-SS-03-A	1606029-03	Solid	06/14/2016 11:15	06/15/2016 11:00
KR-SS-04-A	1606029-04	Solid	06/14/2016 12:00	06/15/2016 11:00
KR-SS-05-A	1606029-05	Solid	06/14/2016 12:15	06/15/2016 11:00
KR-SS-06-A	1606029-06	Solid	06/14/2016 12:20	06/15/2016 11:00
KR-SS-07-A	1606029-07	Solid	06/14/2016 13:40	06/15/2016 11:00
KR-SS-08-A	1606029-08	Solid	06/14/2016 13:45	06/15/2016 11:00
KR-SS-10-A	1606029-09	Solid	06/14/2016 15:20	06/15/2016 11:00
KR-SS-11-A	1606029-10	Solid	06/14/2016 14:30	06/15/2016 11:00
KR-SB-01-A	1606029-11	Solid	06/14/2016 13:45	06/15/2016 11:00
KR-SB-06-A	1606029-12	Solid	06/14/2016 14:40	06/15/2016 11:00
KR-SB-10-A	1606029-13	Solid	06/14/2016 15:40	06/15/2016 11:00
KR-SB-02-A	1606039-01	Solid	06/15/2016 08:15	06/16/2016 11:00
KR-SB-03-A	1606039-02	Solid	06/15/2016 08:45	06/16/2016 11:00
KR-SB-04-A	1606039-03	Solid	06/15/2016 09:20	06/16/2016 11:00
KR-SB-05-A	1606039-04	Solid	06/15/2016 10:15	06/16/2016 11:00
KR-SB-07-A	1606039-05	Solid	06/15/2016 10:45	06/16/2016 11:00
KR-SB-08-A	1606039-06	Solid	06/15/2016 11:20	06/16/2016 11:00
SB-900-A	1606039-07	Solid	06/15/2016 10:50	06/16/2016 11:00
KR-SB-09-A	1606039-08	Solid	06/15/2016 13:10	06/16/2016 11:00
KR-SB-11-A	1606039-09	Solid	06/15/2016 11:55	06/16/2016 11:00
KR-SS-09-A	1606039-10	Solid	06/15/2016 12:50	06/16/2016 11:00
SB-900-B	1606039-11	Solid	06/15/2016 12:00	06/16/2016 11:00
FB-SB-A	1606039-12	Aqueous	06/15/2016 12:30	06/16/2016 11:00
FB-GW-B	1606044-01	Aqueous	06/16/2016 11:05	06/17/2016 10:30
GW-900-1	1606044-02	Aqueous	06/16/2016 12:00	06/17/2016 10:30
KR-GW-01-1	1606044-03	Aqueous	06/16/2016 10:00	06/17/2016 10:30

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
KR-GW-02-1	1606044-04	Aqueous	06/16/2016 12:00	06/17/2016 10:30
KR-GW-03-1	1606044-05	Aqueous	06/16/2016 14:00	06/17/2016 10:30
TB-01	1606044-06	Aqueous	06/16/2016 09:45	06/17/2016 10:30

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Aqueous
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Solid
E-SVOA TCL	EPA 625 SOP C-90 Rev 3.5		Aqueous
E-SVOA TCL	EPA 625 SOP C-90 Rev 3.5		Solid
VOA Low Level Soil	SOM 2.2 SOP C-123 Rev2.5	NELAP	Solid
VOA Trace/SF	EPA DW-1 Rev 2.4	NELAP	Aqueous

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

Metals ICP

Aluminum	2800		17	mg/kg dry
Antimony	12		3.3	mg/kg dry
Arsenic	120		1.3	mg/kg dry
Barium	92		17	mg/kg dry
Beryllium	0.66		0.50	mg/kg dry
Cadmium	5.4		0.50	mg/kg dry
Calcium	2300		83	mg/kg dry
Chromium	190		0.83	mg/kg dry
Cobalt	35		3.3	mg/kg dry
Copper	460		1.7	mg/kg dry
Iron	350000		83	mg/kg dry
Lead	94		1.3	mg/kg dry
Magnesium	350		83	mg/kg dry
Manganese	1300		0.83	mg/kg dry
Nickel	160		3.3	mg/kg dry
Potassium	410		83	mg/kg dry
Selenium	31		3.3	mg/kg dry
Silver	---	U	0.83	mg/kg dry
Sodium	410		170	mg/kg dry
Thallium	---	U	3.3	mg/kg dry
Tin	34		1.7	mg/kg dry
Vanadium	27		3.3	mg/kg dry
Zinc	70		3.3	mg/kg dry

Field ID: KR-SS-02-A

Sample ID: 1606029-02

Metals ICP

DRAFT REPORT

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Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-02-A

Sample ID: 1606029-02

Metals ICP

Aluminum	6000		8.2	mg/kg dry
Antimony	1.7		1.6	mg/kg dry
Arsenic	9.7		0.66	mg/kg dry
Barium	53		8.2	mg/kg dry
Beryllium	0.38		0.25	mg/kg dry
Cadmium	0.68		0.25	mg/kg dry
Calcium	10000		41	mg/kg dry
Chromium	12		0.41	mg/kg dry
Cobalt	7.4		1.6	mg/kg dry
Copper	53		0.82	mg/kg dry
Iron	19000		4.1	mg/kg dry
Lead	130		0.66	mg/kg dry
Magnesium	2000		41	mg/kg dry
Manganese	400		0.41	mg/kg dry
Nickel	16		1.6	mg/kg dry
Potassium	410		41	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	82	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	6.1		0.82	mg/kg dry
Vanadium	14		1.6	mg/kg dry
Zinc	190		1.6	mg/kg dry

Field ID: KR-SS-03-A

Sample ID: 1606029-03

Metals ICP

Aluminum	2000		11	mg/kg dry

DRAFT REPORT

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Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-03-A

Sample ID: 1606029-03

Metals ICP

Antimony	7.1		2.1	mg/kg dry
Arsenic	30		0.86	mg/kg dry
Barium	45		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Cadmium	7.3		0.32	mg/kg dry
Calcium	7700		54	mg/kg dry
Chromium	220		0.54	mg/kg dry
Cobalt	23		2.1	mg/kg dry
Copper	310		1.1	mg/kg dry
Iron	170000		54	mg/kg dry
Lead	170		0.86	mg/kg dry
Magnesium	770		54	mg/kg dry
Manganese	1100		0.54	mg/kg dry
Nickel	180		2.1	mg/kg dry
Potassium	310		54	mg/kg dry
Selenium	3.5		2.1	mg/kg dry
Silver	---	U	0.54	mg/kg dry
Sodium	150		110	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Tin	21		1.1	mg/kg dry
Vanadium	30		2.1	mg/kg dry
Zinc	330		2.1	mg/kg dry

Field ID: KR-SS-04-A

Sample ID: 1606029-04

Metals ICP

Aluminum	5400		8.8	mg/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 7/27/2016

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-04-A

Sample ID: 1606029-04

Metals ICP

Antimony	3.7		1.8	mg/kg dry
Arsenic	9.9		0.70	mg/kg dry
Barium	51		8.8	mg/kg dry
Beryllium	0.37		0.26	mg/kg dry
Cadmium	0.30		0.26	mg/kg dry
Calcium	1200		44	mg/kg dry
Chromium	9.9		0.44	mg/kg dry
Cobalt	6.7		1.8	mg/kg dry
Copper	76		0.88	mg/kg dry
Iron	20000		4.4	mg/kg dry
Lead	130		0.70	mg/kg dry
Magnesium	1900		44	mg/kg dry
Manganese	360		0.44	mg/kg dry
Nickel	14		1.8	mg/kg dry
Potassium	400		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	9.7		0.88	mg/kg dry
Vanadium	13		1.8	mg/kg dry
Zinc	61		1.8	mg/kg dry

Field ID: KR-SS-05-A

Sample ID: 1606029-05

Metals ICP

Aluminum	5400		8.3	mg/kg dry
Antimony	2.3		1.7	mg/kg dry

DRAFT REPORT

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Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-05-A

Sample ID: 1606029-05

Metals ICP

Arsenic	8.0		0.66	mg/kg dry
Barium	37		8.3	mg/kg dry
Beryllium	0.27		0.25	mg/kg dry
Cadmium	0.47		0.25	mg/kg dry
Calcium	1300		41	mg/kg dry
Chromium	9.7		0.41	mg/kg dry
Cobalt	5.2		1.7	mg/kg dry
Copper	37		0.83	mg/kg dry
Iron	16000		4.1	mg/kg dry
Lead	90		0.66	mg/kg dry
Magnesium	1700		41	mg/kg dry
Manganese	290		0.41	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	340		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	5.3		0.83	mg/kg dry
Vanadium	13		1.7	mg/kg dry
Zinc	140		1.7	mg/kg dry

Field ID: KR-SS-06-A

Sample ID: 1606029-06

Metals ICP

Aluminum	5500		8.3	mg/kg dry
Antimony	3.4		1.7	mg/kg dry
Arsenic	9.7		0.66	mg/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-06-A

Sample ID: 1606029-06

Metals ICP

Barium	56		8.3	mg/kg dry
Beryllium	0.31		0.25	mg/kg dry
Cadmium	0.72		0.25	mg/kg dry
Calcium	4300		41	mg/kg dry
Chromium	14		0.41	mg/kg dry
Cobalt	6.4		1.7	mg/kg dry
Copper	72		0.83	mg/kg dry
Iron	22000		4.1	mg/kg dry
Lead	170		0.66	mg/kg dry
Magnesium	1800		41	mg/kg dry
Manganese	380		0.41	mg/kg dry
Nickel	18		1.7	mg/kg dry
Potassium	430		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	8.7		0.83	mg/kg dry
Vanadium	13		1.7	mg/kg dry
Zinc	310		1.7	mg/kg dry

Field ID: KR-SS-07-A

Sample ID: 1606029-07

Metals ICP

Aluminum	5600		8.3	mg/kg dry
Antimony	4.6		1.7	mg/kg dry
Arsenic	10		0.66	mg/kg dry
Barium	59		8.3	mg/kg dry

DRAFT REPORT

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Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-07-A

Sample ID: 1606029-07

Metals ICP

Beryllium	0.34		0.25	mg/kg dry
Cadmium	0.64		0.25	mg/kg dry
Calcium	3700		41	mg/kg dry
Chromium	15		0.41	mg/kg dry
Cobalt	6.5		1.7	mg/kg dry
Copper	100		0.83	mg/kg dry
Iron	28000		4.1	mg/kg dry
Lead	170		0.66	mg/kg dry
Magnesium	1500		41	mg/kg dry
Manganese	370		0.41	mg/kg dry
Nickel	18		1.7	mg/kg dry
Potassium	410		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	16		0.83	mg/kg dry
Vanadium	16		1.7	mg/kg dry
Zinc	84		1.7	mg/kg dry

Field ID: KR-SS-08-A

Sample ID: 1606029-08

Metals ICP

Aluminum	4600		8.3	mg/kg dry
Antimony	5.1		1.7	mg/kg dry
Arsenic	13		0.66	mg/kg dry
Barium	62		8.3	mg/kg dry
Beryllium	0.33		0.25	mg/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-08-A

Sample ID: 1606029-08

Metals ICP

Cadmium	0.95		0.25	mg/kg dry
Calcium	4700		41	mg/kg dry
Chromium	17		0.41	mg/kg dry
Cobalt	7.0		1.7	mg/kg dry
Copper	100		0.83	mg/kg dry
Iron	49000		21	mg/kg dry
Lead	180		0.66	mg/kg dry
Magnesium	1400		41	mg/kg dry
Manganese	390		0.41	mg/kg dry
Nickel	21		1.7	mg/kg dry
Potassium	380		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	13		0.83	mg/kg dry
Vanadium	14		1.7	mg/kg dry
Zinc	84		1.7	mg/kg dry

Field ID: KR-SS-10-A

Sample ID: 1606029-09

Metals ICP

Aluminum	5700		8.3	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	4.6		0.66	mg/kg dry
Barium	22		8.3	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-10-A

Sample ID: 1606029-09

Metals ICP

Calcium	17000		41	mg/kg dry
Chromium	8.1		0.41	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	13		0.83	mg/kg dry
Iron	12000		4.1	mg/kg dry
Lead	10		0.66	mg/kg dry
Magnesium	2200		41	mg/kg dry
Manganese	330		0.41	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	360		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.83	mg/kg dry
Vanadium	9.1		1.7	mg/kg dry
Zinc	37		1.7	mg/kg dry

Field ID: KR-SS-11-A

Sample ID: 1606029-10

Metals ICP

Aluminum	4900		8.4	mg/kg dry
Antimony	4.8		1.7	mg/kg dry
Arsenic	12		0.67	mg/kg dry
Barium	46		8.4	mg/kg dry
Beryllium	0.26		0.25	mg/kg dry
Cadmium	1.3		0.25	mg/kg dry
Calcium	1900		42	mg/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-11-A

Sample ID: 1606029-10

Metals ICP

Chromium	14		0.42	mg/kg dry
Cobalt	6.0		1.7	mg/kg dry
Copper	97		0.84	mg/kg dry
Iron	22000		4.2	mg/kg dry
Lead	140		0.67	mg/kg dry
Magnesium	1400		42	mg/kg dry
Manganese	350		0.42	mg/kg dry
Nickel	14		1.7	mg/kg dry
Potassium	370		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	110		84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	11		0.84	mg/kg dry
Vanadium	12		1.7	mg/kg dry
Zinc	75		1.7	mg/kg dry

Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

Dichlorodifluoromethane	---	U	4.9	ug/kg dry
Chloromethane	---	U	4.9	ug/kg dry
Vinyl Chloride	---	U	4.9	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	4.9	ug/kg dry
Trichlorofluoromethane	---	U	4.9	ug/kg dry
1,1-Dichloroethene	---	U	4.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.9	ug/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

Carbon Disulfide	---	U	4.9	ug/kg dry
Acetone	---	U J	9.8	ug/kg dry
Methyl Acetate	5.7	J	4.9	ug/kg dry
Methylene Chloride	---	U	4.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.9	ug/kg dry
1,1-Dichloroethane	---	U	4.9	ug/kg dry
2-Butanone	---	U	9.8	ug/kg dry
Bromochloromethane	---	U	4.9	ug/kg dry
Chloroform	---	U	4.9	ug/kg dry
1,2-Dichloroethane	---	U	4.9	ug/kg dry
1,1,1-Trichloroethane	---	U	4.9	ug/kg dry
Cyclohexane	---	U	4.9	ug/kg dry
Carbon Tetrachloride	---	U	4.9	ug/kg dry
Benzene	---	U	4.9	ug/kg dry
Trichloroethene	---	U	4.9	ug/kg dry
Methylcyclohexane	---	U	4.9	ug/kg dry
1,2-Dichloropropane	---	U J	4.9	ug/kg dry
Bromodichloromethane	---	U	4.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.8	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.9	ug/kg dry
1,1,2-Trichloroethane	---	U	4.9	ug/kg dry
Dibromochloromethane	---	U	4.9	ug/kg dry
Bromoform	---	U	4.9	ug/kg dry
4-Methyl-2-Pentanone	---	U J	9.8	ug/kg dry
Toluene	---	U J	4.9	ug/kg dry
Tetrachloroethene	6.5		4.9	ug/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

2-Hexanone	---	U	95	ug/kg dry
1,2-Dibromoethane	---	U	4.9	ug/kg dry
Chlorobenzene	---	U	4.9	ug/kg dry
Ethylbenzene	---	U	4.9	ug/kg dry
m/p-Xylene	---	U	4.9	ug/kg dry
o-Xylene	---	U	4.9	ug/kg dry
Styrene	---	U	4.9	ug/kg dry
Isopropylbenzene	---	U	4.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.9	ug/kg dry
1,3-Dichlorobenzene	---	U	4.9	ug/kg dry
1,4-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.9	ug/kg dry
1-Iodo-2-methylnonane	230			ug/kg dry
5-Tridecene, (E)-	420			ug/kg dry
Benzene, 1-methyl-2-(1-meth...	250			ug/kg dry
Cyclohexane, pentyl-	300			ug/kg dry
Dodecane, 2-methyl-	240			ug/kg dry
Dodecane, 6-methyl-	490			ug/kg dry
Nonane, 3-methyl-	300			ug/kg dry
Tridecane	430			ug/kg dry
Undecane (01)	1200			ug/kg dry
Undecane (02)	1300			ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-01-A

Sample ID: 1606029-11

Metals ICP

Aluminum	5800		8.4	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.1		0.67	mg/kg dry
Barium	23		8.4	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	170		42	mg/kg dry
Chromium	7.3		0.42	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	10		0.84	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	6.1		0.67	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	360		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	350		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.84	mg/kg dry
Vanadium	8.5		1.7	mg/kg dry
Zinc	35		1.7	mg/kg dry

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Dichlorodifluoromethane	---	U	4.9	ug/kg dry

DRAFT REPORT

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Chloromethane	---	U	4.9	ug/kg dry
Vinyl Chloride	---	U	4.9	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	4.9	ug/kg dry
Trichlorofluoromethane	---	U	4.9	ug/kg dry
1,1-Dichloroethene	---	U	4.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.9	ug/kg dry
Carbon Disulfide	---	U	4.9	ug/kg dry
Acetone	---	U J	9.9	ug/kg dry
Methyl Acetate	---	U J	4.9	ug/kg dry
Methylene Chloride	---	U	4.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.9	ug/kg dry
1,1-Dichloroethane	---	U	4.9	ug/kg dry
2-Butanone	---	U	9.9	ug/kg dry
Bromochloromethane	---	U	4.9	ug/kg dry
Chloroform	---	U	4.9	ug/kg dry
1,2-Dichloroethane	---	U	4.9	ug/kg dry
1,1,1-Trichloroethane	---	U	4.9	ug/kg dry
Cyclohexane	---	U	4.9	ug/kg dry
Carbon Tetrachloride	---	U	4.9	ug/kg dry
Benzene	---	U	4.9	ug/kg dry
Trichloroethene	---	U	4.9	ug/kg dry
Methylcyclohexane	---	U	4.9	ug/kg dry
1,2-Dichloropropane	---	U J	4.9	ug/kg dry
Bromodichloromethane	---	U	4.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.9	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

trans-1,3-Dichloropropene	---	U	4.9	ug/kg dry
1,1,2-Trichloroethane	---	U	4.9	ug/kg dry
Dibromochloromethane	---	U	4.9	ug/kg dry
Bromoform	---	U	4.9	ug/kg dry
4-Methyl-2-Pentanone	---	U J	9.9	ug/kg dry
Toluene	---	U J	4.9	ug/kg dry
Tetrachloroethene	56		4.9	ug/kg dry
2-Hexanone	---	U	96	ug/kg dry
1,2-Dibromoethane	---	U	4.9	ug/kg dry
Chlorobenzene	---	U	4.9	ug/kg dry
Ethylbenzene	---	U	4.9	ug/kg dry
m/p-Xylene	---	U	4.9	ug/kg dry
o-Xylene	---	U	4.9	ug/kg dry
Styrene	---	U	4.9	ug/kg dry
Isopropylbenzene	---	U	4.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.9	ug/kg dry
1,3-Dichlorobenzene	---	U	4.9	ug/kg dry
1,4-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.9	ug/kg dry
Dodecane	19			ug/kg dry
Dodecane, 2,6,11-trimethyl-	24			ug/kg dry
Hexadecane	14			ug/kg dry
Naphthalene, 1,6-dimethyl- (01)	38			ug/kg dry
Naphthalene, 1,6-dimethyl- (02)	30			ug/kg dry
Naphthalene, 1,7-dimethyl-	14			ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Naphthalene, 1-methyl-	21			ug/kg dry
Naphthalene, 2-methyl-	29			ug/kg dry
Tetradecane	110			ug/kg dry
Tridecane	82			ug/kg dry

Metals ICP

Aluminum	5600		8.7	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	2.7		0.69	mg/kg dry
Barium	24		8.7	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	370		43	mg/kg dry
Chromium	7.4		0.43	mg/kg dry
Cobalt	5.4		1.7	mg/kg dry
Copper	9.6		0.87	mg/kg dry
Iron	12000		4.3	mg/kg dry
Lead	5.9		0.69	mg/kg dry
Magnesium	2100		43	mg/kg dry
Manganese	370		0.43	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	400		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	87	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.87	mg/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

Metals ICP

Vanadium	8.2		1.7	mg/kg dry
Zinc	34		1.7	mg/kg dry

Field ID: KR-SB-10-A

Sample ID: 1606029-13

VOA GCMS

Dichlorodifluoromethane	---	U	5.1	ug/kg dry
Chloromethane	---	U	5.1	ug/kg dry
Vinyl Chloride	---	U	5.1	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	5.1	ug/kg dry
Trichlorofluoromethane	---	U	5.1	ug/kg dry
1,1-Dichloroethene	---	U	5.1	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.1	ug/kg dry
Carbon Disulfide	---	U	5.1	ug/kg dry
Acetone	13	J	10	ug/kg dry
Methyl Acetate	---	U J	5.1	ug/kg dry
Methylene Chloride	---	U	5.1	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.1	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.1	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.1	ug/kg dry
1,1-Dichloroethane	---	U	5.1	ug/kg dry
2-Butanone	---	U	10	ug/kg dry
Bromochloromethane	---	U	5.1	ug/kg dry
Chloroform	---	U	5.1	ug/kg dry
1,2-Dichloroethane	---	U	5.1	ug/kg dry
1,1,1-Trichloroethane	---	U	5.1	ug/kg dry
Cyclohexane	---	U	5.1	ug/kg dry
Carbon Tetrachloride	---	U	5.1	ug/kg dry
Benzene	---	U	5.1	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-10-A

Sample ID: 1606029-13

VOA GCMS

Trichloroethene	---	U	5.1	ug/kg dry
Methylcyclohexane	---	U	5.1	ug/kg dry
1,2-Dichloropropane	---	U J	5.1	ug/kg dry
Bromodichloromethane	---	U	5.1	ug/kg dry
cis-1,3-Dichloropropene	---	U	10	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.1	ug/kg dry
1,1,2-Trichloroethane	---	U	5.1	ug/kg dry
Dibromochloromethane	---	U	5.1	ug/kg dry
Bromoform	---	U	5.1	ug/kg dry
4-Methyl-2-Pentanone	---	U J	10	ug/kg dry
Toluene	---	U J	5.1	ug/kg dry
Tetrachloroethene	5.5		5.1	ug/kg dry
2-Hexanone	---	U	99	ug/kg dry
1,2-Dibromoethane	---	U	5.1	ug/kg dry
Chlorobenzene	---	U	5.1	ug/kg dry
Ethylbenzene	---	U	5.1	ug/kg dry
m/p-Xylene	---	U	5.1	ug/kg dry
o-Xylene	---	U	5.1	ug/kg dry
Styrene	---	U	5.1	ug/kg dry
Isopropylbenzene	---	U	5.1	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.1	ug/kg dry
1,3-Dichlorobenzene	---	U	5.1	ug/kg dry
1,4-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.1	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.1	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.1	ug/kg dry
Ethylenimine	14			ug/kg dry

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Region 2 Laboratory

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-10-A

Sample ID: 1606029-13

VOA GCMS

Tetradecane	20			ug/kg dry	
Tridecane	22			ug/kg dry	

Metals ICP

Aluminum	6000		8.0	mg/kg dry	
Antimony	---	U	1.6	mg/kg dry	
Arsenic	3.8		0.64	mg/kg dry	
Barium	28		8.0	mg/kg dry	
Beryllium	0.25		0.24	mg/kg dry	
Cadmium	---	U	0.24	mg/kg dry	
Calcium	15000		40	mg/kg dry	
Chromium	11		0.40	mg/kg dry	
Cobalt	4.9		1.6	mg/kg dry	
Copper	11		0.80	mg/kg dry	
Iron	12000		4.0	mg/kg dry	
Lead	8.4		0.64	mg/kg dry	
Magnesium	2200		40	mg/kg dry	
Manganese	320		0.40	mg/kg dry	
Nickel	13		1.6	mg/kg dry	
Potassium	460		40	mg/kg dry	
Selenium	---	U	1.6	mg/kg dry	
Silver	---	U	0.40	mg/kg dry	
Sodium	---	U	80	mg/kg dry	
Thallium	---	U	1.6	mg/kg dry	
Tin	---	U	0.80	mg/kg dry	
Vanadium	9.5		1.6	mg/kg dry	
Zinc	35		1.6	mg/kg dry	

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

VOA GCMS

Dichlorodifluoromethane	---	U	4.3	ug/kg dry
Chloromethane	---	U	4.3	ug/kg dry
Vinyl Chloride	---	U	4.3	ug/kg dry
Bromomethane	---	U J	110	ug/kg dry
Chloroethane	---	U	4.3	ug/kg dry
Trichlorofluoromethane	---	U	4.3	ug/kg dry
1,1-Dichloroethene	---	U	4.3	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.3	ug/kg dry
Carbon Disulfide	---	U	4.3	ug/kg dry
Acetone	12	J	8.6	ug/kg dry
Methyl Acetate	6.9	J	4.3	ug/kg dry
Methylene Chloride	---	U	4.3	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.3	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.3	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.3	ug/kg dry
1,1-Dichloroethane	---	U	4.3	ug/kg dry
2-Butanone	---	U	8.6	ug/kg dry
Bromochloromethane	---	U	4.3	ug/kg dry
Chloroform	---	U	4.3	ug/kg dry
1,2-Dichloroethane	---	U	4.3	ug/kg dry
1,1,1-Trichloroethane	---	U	4.3	ug/kg dry
Cyclohexane	---	U	4.3	ug/kg dry
Carbon Tetrachloride	---	U	4.3	ug/kg dry
Benzene	---	U	4.3	ug/kg dry
Trichloroethene	---	U	4.3	ug/kg dry
Methylcyclohexane	---	U	4.3	ug/kg dry
1,2-Dichloropropane	---	U J	4.3	ug/kg dry
Bromodichloromethane	---	U	4.3	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

VOA GCMS

cis-1,3-Dichloropropene	---	U	8.6	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.3	ug/kg dry
1,1,2-Trichloroethane	---	U	4.3	ug/kg dry
Dibromochloromethane	---	U	4.3	ug/kg dry
Bromoform	---	U	4.3	ug/kg dry
4-Methyl-2-Pentanone	---	U J	8.6	ug/kg dry
Toluene	---	U J	4.3	ug/kg dry
Tetrachloroethene	43		4.3	ug/kg dry
2-Hexanone	---	U	84	ug/kg dry
1,2-Dibromoethane	---	U	4.3	ug/kg dry
Chlorobenzene	---	U	4.3	ug/kg dry
Ethylbenzene	---	U	4.3	ug/kg dry
m/p-Xylene	---	U	4.3	ug/kg dry
o-Xylene	---	U	4.3	ug/kg dry
Styrene	---	U	4.3	ug/kg dry
Isopropylbenzene	---	U	4.3	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.3	ug/kg dry
1,3-Dichlorobenzene	---	U	4.3	ug/kg dry
1,4-Dichlorobenzene	---	U	4.3	ug/kg dry
1,2-Dichlorobenzene	---	U	4.3	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.3	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.3	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.3	ug/kg dry
Tridecane	8.7			ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

Metals ICP

Aluminum	6100		7.9	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.8		0.63	mg/kg dry
Barium	30		7.9	mg/kg dry
Beryllium	0.28		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	480		40	mg/kg dry
Chromium	7.2		0.40	mg/kg dry
Cobalt	6.0		1.6	mg/kg dry
Copper	17		0.79	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	17		0.63	mg/kg dry
Magnesium	1800		40	mg/kg dry
Manganese	390		0.40	mg/kg dry
Nickel	12		1.6	mg/kg dry
Potassium	280		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	79	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.79	mg/kg dry
Vanadium	9.3		1.6	mg/kg dry
Zinc	36		1.6	mg/kg dry

Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

Dichlorodifluoromethane	---	U	4.5	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

Chloromethane	6.3		4.5	ug/kg dry
Vinyl Chloride	---	U	4.5	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.5	ug/kg dry
Trichlorofluoromethane	---	U	4.5	ug/kg dry
1,1-Dichloroethene	---	U	4.5	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.5	ug/kg dry
Carbon Disulfide	---	U	4.5	ug/kg dry
Acetone	16	J	9.0	ug/kg dry
Methyl Acetate	5.4	J	4.5	ug/kg dry
Methylene Chloride	---	U	4.5	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.5	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.5	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.5	ug/kg dry
1,1-Dichloroethane	---	U	4.5	ug/kg dry
2-Butanone	---	U	9.0	ug/kg dry
Bromochloromethane	---	U	4.5	ug/kg dry
Chloroform	---	U	4.5	ug/kg dry
1,2-Dichloroethane	---	U	4.5	ug/kg dry
1,1,1-Trichloroethane	---	U	4.5	ug/kg dry
Cyclohexane	---	U	4.5	ug/kg dry
Carbon Tetrachloride	---	U	4.5	ug/kg dry
Benzene	---	U	4.5	ug/kg dry
Trichloroethene	---	U	4.5	ug/kg dry
Methylcyclohexane	---	U	4.5	ug/kg dry
1,2-Dichloropropane	---	U J	4.5	ug/kg dry
Bromodichloromethane	---	U	4.5	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.0	ug/kg dry

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NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

trans-1,3-Dichloropropene	---	U	4.5	ug/kg dry
1,1,2-Trichloroethane	---	U	4.5	ug/kg dry
Dibromochloromethane	---	U	4.5	ug/kg dry
Bromoform	---	U	4.5	ug/kg dry
4-Methyl-2-Pentanone	---	U J	9.0	ug/kg dry
Toluene	---	U J	4.5	ug/kg dry
Tetrachloroethene	260		26	ug/kg dry
2-Hexanone	---	U	88	ug/kg dry
1,2-Dibromoethane	---	U	4.5	ug/kg dry
Chlorobenzene	---	U	4.5	ug/kg dry
Ethylbenzene	---	U	4.5	ug/kg dry
m/p-Xylene	---	U	4.5	ug/kg dry
o-Xylene	---	U	4.5	ug/kg dry
Styrene	---	U L	4.5	ug/kg dry
Isopropylbenzene	---	U	4.5	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.5	ug/kg dry
1,3-Dichlorobenzene	---	U	4.5	ug/kg dry
1,4-Dichlorobenzene	---	U	4.5	ug/kg dry
1,2-Dichlorobenzene	---	U	4.5	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.5	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.5	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.5	ug/kg dry
Hexadecane	9.3			ug/kg dry

Metals ICP

Aluminum	7000		7.9	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.1		0.64	mg/kg dry
Barium	20		7.9	mg/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-03-A

Sample ID: 1606039-02

Metals ICP

Beryllium	0.25		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	320		40	mg/kg dry
Chromium	7.6		0.40	mg/kg dry
Cobalt	5.1		1.6	mg/kg dry
Copper	8.0		0.79	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	5.9		0.64	mg/kg dry
Magnesium	1800		40	mg/kg dry
Manganese	340		0.40	mg/kg dry
Nickel	13		1.6	mg/kg dry
Potassium	250		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	79	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.79	mg/kg dry
Vanadium	10		1.6	mg/kg dry
Zinc	33		1.6	mg/kg dry

Field ID: KR-SB-04-A

Sample ID: 1606039-03

VOA GCMS

Dichlorodifluoromethane	---	U	5.3	ug/kg dry
Chloromethane	---	U	5.3	ug/kg dry
Vinyl Chloride	---	U	5.3	ug/kg dry
Bromomethane	---	U J	140	ug/kg dry
Chloroethane	---	U	5.3	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-04-A

Sample ID: 1606039-03

VOA GCMS

Trichlorofluoromethane	---	U	5.3	ug/kg dry
1,1-Dichloroethene	---	U	5.3	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.3	ug/kg dry
Carbon Disulfide	---	U	5.3	ug/kg dry
Acetone	---	U J	11	ug/kg dry
Methyl Acetate	---	U J	5.3	ug/kg dry
Methylene Chloride	---	U	5.3	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.3	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.3	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.3	ug/kg dry
1,1-Dichloroethane	---	U	5.3	ug/kg dry
2-Butanone	---	U	11	ug/kg dry
Bromochloromethane	---	U	5.3	ug/kg dry
Chloroform	---	U	5.3	ug/kg dry
1,2-Dichloroethane	---	U	5.3	ug/kg dry
1,1,1-Trichloroethane	---	U	5.3	ug/kg dry
Cyclohexane	---	U	5.3	ug/kg dry
Carbon Tetrachloride	---	U	5.3	ug/kg dry
Benzene	---	U	5.3	ug/kg dry
Trichloroethene	---	U	5.3	ug/kg dry
Methylcyclohexane	---	U	5.3	ug/kg dry
1,2-Dichloropropane	---	U J	5.3	ug/kg dry
Bromodichloromethane	---	U	5.3	ug/kg dry
cis-1,3-Dichloropropene	---	U	11	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.3	ug/kg dry
1,1,2-Trichloroethane	---	U	5.3	ug/kg dry
Dibromochloromethane	---	U	5.3	ug/kg dry
Bromoform	---	U	5.3	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-04-A

Sample ID: 1606039-03

VOA GCMS

4-Methyl-2-Pentanone	---	U J	11	ug/kg dry
Toluene	---	U J	5.3	ug/kg dry
Tetrachloroethene	17		5.3	ug/kg dry
2-Hexanone	---	U	100	ug/kg dry
1,2-Dibromoethane	---	U	5.3	ug/kg dry
Chlorobenzene	---	U	5.3	ug/kg dry
Ethylbenzene	---	U	5.3	ug/kg dry
m/p-Xylene	---	U	5.3	ug/kg dry
o-Xylene	---	U	5.3	ug/kg dry
Styrene	---	U	5.3	ug/kg dry
Isopropylbenzene	---	U	5.3	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.3	ug/kg dry
1,3-Dichlorobenzene	---	U	5.3	ug/kg dry
1,4-Dichlorobenzene	---	U	5.3	ug/kg dry
1,2-Dichlorobenzene	---	U	5.3	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.3	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.3	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.3	ug/kg dry

Metals ICP

Aluminum	6100		8.6	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.0		0.69	mg/kg dry
Barium	11		8.6	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	230		43	mg/kg dry
Chromium	7.2		0.43	mg/kg dry
Cobalt	5.3		1.7	mg/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-04-A

Sample ID: 1606039-03

Metals ICP

Copper	10		0.86	mg/kg dry
Iron	11000		4.3	mg/kg dry
Lead	7.6		0.69	mg/kg dry
Magnesium	2000		43	mg/kg dry
Manganese	300		0.43	mg/kg dry
Nickel	12		1.7	mg/kg dry
Potassium	290		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	86	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.86	mg/kg dry
Vanadium	8.4		1.7	mg/kg dry
Zinc	30		1.7	mg/kg dry

Field ID: KR-SB-05-A

Sample ID: 1606039-04

VOA GCMS

Dichlorodifluoromethane	---	U	5.9	ug/kg dry
Chloromethane	7.0		5.9	ug/kg dry
Vinyl Chloride	---	U	5.9	ug/kg dry
Bromomethane	---	U J	150	ug/kg dry
Chloroethane	---	U	5.9	ug/kg dry
Trichlorofluoromethane	---	U	5.9	ug/kg dry
1,1-Dichloroethene	---	U	5.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.9	ug/kg dry
Carbon Disulfide	---	U	5.9	ug/kg dry
Acetone	36	J	12	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

VOA GCMS

Methyl Acetate	9.7	J	5.9	ug/kg dry
Methylene Chloride	---	U	5.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.9	ug/kg dry
1,1-Dichloroethane	---	U	5.9	ug/kg dry
2-Butanone	---	U	12	ug/kg dry
Bromochloromethane	---	U	5.9	ug/kg dry
Chloroform	---	U	5.9	ug/kg dry
1,2-Dichloroethane	---	U	5.9	ug/kg dry
1,1,1-Trichloroethane	---	U	5.9	ug/kg dry
Cyclohexane	---	U	5.9	ug/kg dry
Carbon Tetrachloride	---	U	5.9	ug/kg dry
Benzene	---	U	5.9	ug/kg dry
Trichloroethene	---	U	5.9	ug/kg dry
Methylcyclohexane	---	U	5.9	ug/kg dry
1,2-Dichloropropane	---	U J	5.9	ug/kg dry
Bromodichloromethane	---	U	5.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	12	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.9	ug/kg dry
1,1,2-Trichloroethane	---	U	5.9	ug/kg dry
Dibromochloromethane	---	U	5.9	ug/kg dry
Bromoform	---	U	5.9	ug/kg dry
4-Methyl-2-Pentanone	---	U J	12	ug/kg dry
Toluene	---	U J	5.9	ug/kg dry
Tetrachloroethene	82		5.9	ug/kg dry
2-Hexanone	---	U	110	ug/kg dry
1,2-Dibromoethane	---	U	5.9	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

VOA GCMS

Chlorobenzene	---	U	5.9	ug/kg dry
Ethylbenzene	---	U	5.9	ug/kg dry
m/p-Xylene	---	U	5.9	ug/kg dry
o-Xylene	---	U	5.9	ug/kg dry
Styrene	---	U	5.9	ug/kg dry
Isopropylbenzene	---	U	5.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.9	ug/kg dry
1,3-Dichlorobenzene	---	U	5.9	ug/kg dry
1,4-Dichlorobenzene	---	U	5.9	ug/kg dry
1,2-Dichlorobenzene	---	U	5.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.9	ug/kg dry
HEXANAL	14			ug/kg dry
Propene	14			ug/kg dry

Metals ICP

Aluminum	6000		8.5	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.9		0.68	mg/kg dry
Barium	17		8.5	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	170		42	mg/kg dry
Chromium	8.0		0.42	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	12		0.85	mg/kg dry
Iron	12000		4.2	mg/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

Metals ICP

Lead	11		0.68	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	330		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	340		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	85	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.85	mg/kg dry
Vanadium	8.8		1.7	mg/kg dry
Zinc	44		1.7	mg/kg dry

Field ID: KR-SB-07-A

Sample ID: 1606039-05

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	---	U J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-07-A

Sample ID: 1606039-05

VOA GCMS

cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U J	9.3	ug/kg dry
Toluene	---	U J	4.7	ug/kg dry
Tetrachloroethene	6.4		4.7	ug/kg dry
2-Hexanone	---	U	90	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-07-A

Sample ID: 1606039-05

VOA GCMS

o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

Metals ICP

Aluminum	6500		7.5	mg/kg dry
Antimony	---	U	1.5	mg/kg dry
Arsenic	3.4		0.60	mg/kg dry
Barium	11		7.5	mg/kg dry
Beryllium	0.22		0.22	mg/kg dry
Cadmium	---	U	0.22	mg/kg dry
Calcium	250		37	mg/kg dry
Chromium	7.6		0.37	mg/kg dry
Cobalt	5.2		1.5	mg/kg dry
Copper	9.1		0.75	mg/kg dry
Iron	12000		3.7	mg/kg dry
Lead	6.7		0.60	mg/kg dry
Magnesium	2100		37	mg/kg dry
Manganese	270		0.37	mg/kg dry
Nickel	13		1.5	mg/kg dry
Potassium	280		37	mg/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-07-A

Sample ID: 1606039-05

Metals ICP

Selenium	---	U	1.5	mg/kg dry
Silver	---	U	0.37	mg/kg dry
Sodium	---	U	75	mg/kg dry
Thallium	---	U	1.5	mg/kg dry
Tin	---	U	0.75	mg/kg dry
Vanadium	9.6		1.5	mg/kg dry
Zinc	29		1.5	mg/kg dry

Field ID: KR-SB-08-A

Sample ID: 1606039-06

VOA GCMS

Dichlorodifluoromethane	---	U	5.1	ug/kg dry
Chloromethane	---	U	5.1	ug/kg dry
Vinyl Chloride	---	U	5.1	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	5.1	ug/kg dry
Trichlorofluoromethane	---	U	5.1	ug/kg dry
1,1-Dichloroethene	---	U	5.1	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.1	ug/kg dry
Carbon Disulfide	---	U	5.1	ug/kg dry
Acetone	11	J	10	ug/kg dry
Methyl Acetate	---	U J	5.1	ug/kg dry
Methylene Chloride	---	U	5.1	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.1	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.1	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.1	ug/kg dry
1,1-Dichloroethane	---	U	5.1	ug/kg dry
2-Butanone	---	U	10	ug/kg dry
Bromochloromethane	---	U	5.1	ug/kg dry
Chloroform	---	U	5.1	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-08-A

Sample ID: 1606039-06

VOA GCMS

1,2-Dichloroethane	---	U	5.1	ug/kg dry
1,1,1-Trichloroethane	---	U	5.1	ug/kg dry
Cyclohexane	---	U	5.1	ug/kg dry
Carbon Tetrachloride	---	U	5.1	ug/kg dry
Benzene	---	U	5.1	ug/kg dry
Trichloroethene	---	U	5.1	ug/kg dry
Methylcyclohexane	---	U	5.1	ug/kg dry
1,2-Dichloropropane	---	U J	5.1	ug/kg dry
Bromodichloromethane	---	U	5.1	ug/kg dry
cis-1,3-Dichloropropene	---	U	10	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.1	ug/kg dry
1,1,2-Trichloroethane	---	U	5.1	ug/kg dry
Dibromochloromethane	---	U	5.1	ug/kg dry
Bromoform	---	U	5.1	ug/kg dry
4-Methyl-2-Pentanone	---	U J	10	ug/kg dry
Toluene	---	U J	5.1	ug/kg dry
Tetrachloroethene	9.7		5.1	ug/kg dry
2-Hexanone	---	U	98	ug/kg dry
1,2-Dibromoethane	---	U	5.1	ug/kg dry
Chlorobenzene	---	U	5.1	ug/kg dry
Ethylbenzene	---	U	5.1	ug/kg dry
m/p-Xylene	---	U	5.1	ug/kg dry
o-Xylene	---	U	5.1	ug/kg dry
Styrene	---	U	5.1	ug/kg dry
Isopropylbenzene	---	U	5.1	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.1	ug/kg dry
1,3-Dichlorobenzene	---	U	5.1	ug/kg dry
1,4-Dichlorobenzene	---	U	5.1	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-08-A

Sample ID: 1606039-06

VOA GCMS

1,2-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.1	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.1	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.1	ug/kg dry

Metals ICP

Aluminum	6400		8.2	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.2		0.66	mg/kg dry
Barium	25		8.2	mg/kg dry
Beryllium	0.25		0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	290		41	mg/kg dry
Chromium	8.5		0.41	mg/kg dry
Cobalt	6.0		1.6	mg/kg dry
Copper	16		0.82	mg/kg dry
Iron	16000		4.1	mg/kg dry
Lead	15		0.66	mg/kg dry
Magnesium	2000		41	mg/kg dry
Manganese	460		0.41	mg/kg dry
Nickel	15		1.6	mg/kg dry
Potassium	290		41	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	82	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	1.8		0.82	mg/kg dry
Vanadium	9.1		1.6	mg/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-08-A

Sample ID: 1606039-06

Metals ICP

Zinc	32		1.6	mg/kg dry	

Field ID: SB-900-A

Sample ID: 1606039-07

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry	
Chloromethane	---	U	4.7	ug/kg dry	
Vinyl Chloride	---	U	4.7	ug/kg dry	
Bromomethane	---	U J	120	ug/kg dry	
Chloroethane	---	U	4.7	ug/kg dry	
Trichlorofluoromethane	---	U	4.7	ug/kg dry	
1,1-Dichloroethene	---	U	4.7	ug/kg dry	
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry	
Carbon Disulfide	---	U	4.7	ug/kg dry	
Acetone	11	J	9.3	ug/kg dry	
Methyl Acetate	---	U J	4.7	ug/kg dry	
Methylene Chloride	---	U	4.7	ug/kg dry	
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry	
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry	
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry	
1,1-Dichloroethane	---	U	4.7	ug/kg dry	
2-Butanone	---	U	9.3	ug/kg dry	
Bromochloromethane	---	U	4.7	ug/kg dry	
Chloroform	---	U	4.7	ug/kg dry	
1,2-Dichloroethane	---	U	4.7	ug/kg dry	
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry	
Cyclohexane	---	U	4.7	ug/kg dry	
Carbon Tetrachloride	---	U	4.7	ug/kg dry	
Benzene	---	U	4.7	ug/kg dry	
Trichloroethene	---	U	4.7	ug/kg dry	

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-A

Sample ID: 1606039-07

VOA GCMS

Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U J	9.3	ug/kg dry
Toluene	---	U J	4.7	ug/kg dry
Tetrachloroethene	---	U	4.7	ug/kg dry
2-Hexanone	---	U	90	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-A

Sample ID: 1606039-07

Metals ICP

Aluminum	6500		8.4	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.7		0.67	mg/kg dry
Barium	12		8.4	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	230		42	mg/kg dry
Chromium	7.9		0.42	mg/kg dry
Cobalt	5.3		1.7	mg/kg dry
Copper	10		0.84	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	6.2		0.67	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	320		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	300		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.84	mg/kg dry
Vanadium	9.5		1.7	mg/kg dry
Zinc	31		1.7	mg/kg dry

Field ID: KR-SB-09-A

Sample ID: 1606039-08

VOA GCMS

Dichlorodifluoromethane	---	U	4.4	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

VOA GCMS

Chloromethane	---	U	4.4	ug/kg dry
Vinyl Chloride	---	U	4.4	ug/kg dry
Bromomethane	---	U J	110	ug/kg dry
Chloroethane	---	U	4.4	ug/kg dry
Trichlorofluoromethane	---	U	4.4	ug/kg dry
1,1-Dichloroethene	---	U	4.4	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.4	ug/kg dry
Carbon Disulfide	---	U	4.4	ug/kg dry
Acetone	18	J	8.9	ug/kg dry
Methyl Acetate	---	U J	4.4	ug/kg dry
Methylene Chloride	---	U	4.4	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.4	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.4	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.4	ug/kg dry
1,1-Dichloroethane	---	U	4.4	ug/kg dry
2-Butanone	---	U	8.9	ug/kg dry
Bromochloromethane	---	U	4.4	ug/kg dry
Chloroform	---	U	4.4	ug/kg dry
1,2-Dichloroethane	---	U	4.4	ug/kg dry
1,1,1-Trichloroethane	---	U	4.4	ug/kg dry
Cyclohexane	---	U	4.4	ug/kg dry
Carbon Tetrachloride	---	U	4.4	ug/kg dry
Benzene	---	U	4.4	ug/kg dry
Trichloroethene	---	U	4.4	ug/kg dry
Methylcyclohexane	---	U	4.4	ug/kg dry
1,2-Dichloropropane	---	U J	4.4	ug/kg dry
Bromodichloromethane	---	U	4.4	ug/kg dry
cis-1,3-Dichloropropene	---	U	8.9	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

VOA GCMS

trans-1,3-Dichloropropene	---	U	4.4	ug/kg dry
1,1,2-Trichloroethane	---	U	4.4	ug/kg dry
Dibromochloromethane	---	U	4.4	ug/kg dry
Bromoform	---	U	4.4	ug/kg dry
4-Methyl-2-Pentanone	---	U J	8.9	ug/kg dry
Toluene	---	U J	4.4	ug/kg dry
Tetrachloroethene	11		4.4	ug/kg dry
2-Hexanone	---	U	86	ug/kg dry
1,2-Dibromoethane	---	U	4.4	ug/kg dry
Chlorobenzene	---	U	4.4	ug/kg dry
Ethylbenzene	---	U	4.4	ug/kg dry
m/p-Xylene	---	U	4.4	ug/kg dry
o-Xylene	---	U	4.4	ug/kg dry
Styrene	---	U	4.4	ug/kg dry
Isopropylbenzene	---	U	4.4	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.4	ug/kg dry
1,3-Dichlorobenzene	---	U	4.4	ug/kg dry
1,4-Dichlorobenzene	---	U	4.4	ug/kg dry
1,2-Dichlorobenzene	---	U	4.4	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.4	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.4	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.4	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.3	ug/kg dry
Benzaldehyde	---	U	106	ug/kg dry
Phenol	---	U	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	106	ug/kg dry
2-Chlorophenol	---	U	106	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

NVOA GCMS

2-Methylphenol	---	U	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	106	ug/kg dry
Acetophenone	---	U	106	ug/kg dry
4-Methylphenol	---	U	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	106	ug/kg dry
Hexachloroethane	---	U	106	ug/kg dry
Nitrobenzene	---	U	106	ug/kg dry
Isophorone	---	U	106	ug/kg dry
2-Nitrophenol	---	U	106	ug/kg dry
2,4-Dimethylphenol	---	U	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	106	ug/kg dry
2,4-Dichlorophenol	---	U	106	ug/kg dry
Naphthalene	---	U	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry
Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U	106	ug/kg dry
2-Methylnaphthalene	---	U	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry
Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U	106	ug/kg dry
2,4,5-Trichlorophenol	---	U	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	194		106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

NVOA GCMS

3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	887	ug/kg dry
4-Nitrophenol	---	U	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry
4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry
Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U	106	ug/kg dry
Phenanthrene	---	U	106	ug/kg dry
Anthracene	---	U	106	ug/kg dry
Carbazole	---	U	106	ug/kg dry
Di-N-Butyl Phthalate	---	U	106	ug/kg dry
Fluoranthene	---	U	106	ug/kg dry
Pyrene	---	U	106	ug/kg dry
Butylbenzylphthalate	---	U	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U	106	ug/kg dry
Benzo(A)Anthracene	---	U	106	ug/kg dry
Chrysene	---	U	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	106	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

NVOA GCMS

Di-N-Octyl Phthalate	---	U	106	ug/kg dry
Benzo(B)Fluoranthene	---	U	106	ug/kg dry
Benzo(K)Fluoranthene	---	U	106	ug/kg dry
Benzo(A)Pyrene	---	U	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U	106	ug/kg dry

Metals ICP

Aluminum	7200		8.8	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Arsenic	2.9		0.70	mg/kg dry
Barium	43		8.8	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	590		44	mg/kg dry
Chromium	7.5		0.44	mg/kg dry
Cobalt	4.5		1.8	mg/kg dry
Copper	7.8		0.88	mg/kg dry
Iron	11000		4.4	mg/kg dry
Lead	6.7		0.70	mg/kg dry
Magnesium	1500		44	mg/kg dry
Manganese	420		0.44	mg/kg dry
Nickel	10		1.8	mg/kg dry
Potassium	340		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

Metals ICP

Thallium	---	U	1.8	mg/kg dry
Tin	---	U	0.88	mg/kg dry
Vanadium	10		1.8	mg/kg dry
Zinc	28		1.8	mg/kg dry

Field ID: KR-SB-11-A

Sample ID: 1606039-09

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	22	J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

VOA GCMS

Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U J	9.3	ug/kg dry
Toluene	---	U J	4.7	ug/kg dry
Tetrachloroethene	1600		49	ug/kg dry
2-Hexanone	---	U	91	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

VOA GCMS

1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	406		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	414		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

NVOA GCMS

2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	215		108	ug/kg dry
Acenaphthylene	400		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	901	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	203		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	699		108	ug/kg dry
Anthracene	272		108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

NVOA GCMS

Fluoranthene	2520		108	ug/kg dry
Pyrene	2070		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	1920		108	ug/kg dry
Chrysene	1950		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	2720		108	ug/kg dry
Benzo(K)Fluoranthene	947		108	ug/kg dry
Benzo(A)Pyrene	1510		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1090		108	ug/kg dry
Dibenzo(A,H)Anthracene	297		108	ug/kg dry
Benzo(G,H,I)Perylene	793		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	950	NJ		ug/kg dry
11H-Benzo[b]fluorene	1260	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	922	NJ		ug/kg dry
Heptadecane, 2,6-dimethyl-	1960	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1170	NJ		ug/kg dry
Hexanoic acid, 2-ethyl-	4160	NJ		ug/kg dry
Phenanthrene, 2,5-dimethyl-	743	NJ		ug/kg dry
Phenanthrene, 2-methyl-	762	NJ		ug/kg dry
Tetrachloroethylene	4930	NJ		ug/kg dry

Metals ICP

Aluminum	5400		8.8	mg/kg dry
Antimony	4.1		1.8	mg/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

Metals ICP

Arsenic	8.0		0.71	mg/kg dry
Barium	44		8.8	mg/kg dry
Beryllium	0.28		0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	1300		44	mg/kg dry
Chromium	9.6		0.44	mg/kg dry
Cobalt	6.4		1.8	mg/kg dry
Copper	64		0.88	mg/kg dry
Iron	19000		4.4	mg/kg dry
Lead	79		0.71	mg/kg dry
Magnesium	1600		44	mg/kg dry
Manganese	370		0.44	mg/kg dry
Nickel	16		1.8	mg/kg dry
Potassium	320		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	8.8		0.88	mg/kg dry
Vanadium	10		1.8	mg/kg dry
Zinc	38		1.8	mg/kg dry

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

1,4-Dioxane	---	U	70.1	ug/kg dry
Benzaldehyde	---	U	105	ug/kg dry
Phenol	---	U	105	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

Bis(2-Chloroethyl)Ether	---	U	105	ug/kg dry
2-Chlorophenol	---	U	105	ug/kg dry
2-Methylphenol	---	U	105	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	105	ug/kg dry
Acetophenone	---	U	105	ug/kg dry
4-Methylphenol	---	U	105	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	105	ug/kg dry
Hexachloroethane	---	U	105	ug/kg dry
Nitrobenzene	---	U	105	ug/kg dry
Isophorone	---	U	105	ug/kg dry
2-Nitrophenol	---	U	105	ug/kg dry
2,4-Dimethylphenol	---	U	105	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	105	ug/kg dry
2,4-Dichlorophenol	---	U	105	ug/kg dry
Naphthalene	---	U	105	ug/kg dry
4-Chloroaniline	---	U	105	ug/kg dry
Hexachlorobutadiene	---	U	105	ug/kg dry
Caprolactam	---	U	105	ug/kg dry
4-Chloro-3-Methylphenol	---	U	105	ug/kg dry
2-Methylnaphthalene	---	U	105	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	105	ug/kg dry
Hexachlorocyclopentadiene	---	U	105	ug/kg dry
2,4,6-Trichlorophenol	---	U	105	ug/kg dry
2,4,5-Trichlorophenol	---	U	105	ug/kg dry
Biphenyl	---	U	105	ug/kg dry
2-Chloronaphthalene	---	U	105	ug/kg dry
2-Nitroaniline	---	U	105	ug/kg dry
Dimethyl Phthalate	116		105	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

Acenaphthylene	108		105	ug/kg dry
2,6-Dinitrotoluene	---	U	105	ug/kg dry
3-Nitroaniline	---	U	105	ug/kg dry
Acenaphthene	108		105	ug/kg dry
2,4-Dinitrophenol	---	U J	872	ug/kg dry
4-Nitrophenol	---	U	105	ug/kg dry
Dibenzofuran	---	U	105	ug/kg dry
2,4-Dinitrotoluene	---	U	105	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	105	ug/kg dry
Fluorene	192		105	ug/kg dry
Diethylphthalate	---	U	105	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	105	ug/kg dry
4-Nitroaniline	---	U	105	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	105	ug/kg dry
N-Nitrosodiphenylamine	---	U	105	ug/kg dry
4-Bromophenyl-Phenylether	---	U	105	ug/kg dry
Hexachlorobenzene	---	U	105	ug/kg dry
Atrazine	---	U	105	ug/kg dry
Pentachlorophenol	---	U	105	ug/kg dry
Phenanthrene	2960		105	ug/kg dry
Anthracene	1980		105	ug/kg dry
Carbazole	344		105	ug/kg dry
Di-N-Butyl Phthalate	---	U	105	ug/kg dry
Butylbenzylphthalate	---	U	105	ug/kg dry
3,3'- Dichlorobenzidine	---	U	105	ug/kg dry
Benzo(A)Anthracene	2950		105	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	105	ug/kg dry
Di-N-Octyl Phthalate	---	U	105	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

Benzo(K)Fluoranthene	1220		105	ug/kg dry
Benzo(A)Pyrene	1580		105	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	876		105	ug/kg dry
Dibenzo(A,H)Anthracene	216		105	ug/kg dry
Benzo(G,H,I)Perylene	627		105	ug/kg dry
11H-Benzo[a]fluoren-11-one (01)	1420	NJ		ug/kg dry
11H-Benzo[b]fluorene	1500	NJ		ug/kg dry
4H-Cyclopenta[def]phenanthrene	1340	NJ		ug/kg dry
Benzo[b]naphtho[2,3-d]thiop...	888	NJ		ug/kg dry
Phenanthrene, 2-methyl-	895	NJ		ug/kg dry
Pyrene, 1-methyl-	1060	NJ		ug/kg dry

Metals ICP

Aluminum	5700		8.6	mg/kg dry
Antimony	3.7		1.7	mg/kg dry
Arsenic	7.2		0.69	mg/kg dry
Barium	46		8.6	mg/kg dry
Beryllium	0.28		0.26	mg/kg dry
Cadmium	0.36		0.26	mg/kg dry
Calcium	11000		43	mg/kg dry
Chromium	9.4		0.43	mg/kg dry
Cobalt	6.6		1.7	mg/kg dry
Copper	77		0.86	mg/kg dry
Iron	20000		4.3	mg/kg dry
Lead	170		0.69	mg/kg dry
Magnesium	2000		43	mg/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-09-A

Sample ID: 1606039-10

Metals ICP

Manganese	410		0.43	mg/kg dry
Nickel	15		1.7	mg/kg dry
Potassium	390		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	86	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	10		0.86	mg/kg dry
Vanadium	11		1.7	mg/kg dry
Zinc	58		1.7	mg/kg dry

Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

Dichlorodifluoromethane	---	U	6.0	ug/kg dry
Chloromethane	6.3		6.0	ug/kg dry
Vinyl Chloride	---	U	6.0	ug/kg dry
Bromomethane	---	U J	150	ug/kg dry
Chloroethane	---	U	6.0	ug/kg dry
Trichlorofluoromethane	---	U	6.0	ug/kg dry
1,1-Dichloroethene	---	U	6.0	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	6.0	ug/kg dry
Carbon Disulfide	---	U	6.0	ug/kg dry
Acetone	33	J	12	ug/kg dry
Methyl Acetate	6.1	J	6.0	ug/kg dry
Methylene Chloride	---	U	6.0	ug/kg dry
trans-1,2-Dichloroethene	---	U	6.0	ug/kg dry
cis-1,2-Dichloroethene	---	U	6.0	ug/kg dry
Methyl tert-Butyl Ether	---	U L	6.0	ug/kg dry

DRAFT REPORT

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

1,1-Dichloroethane	---	U	6.0	ug/kg dry
2-Butanone	---	U	12	ug/kg dry
Bromochloromethane	---	U	6.0	ug/kg dry
Chloroform	---	U	6.0	ug/kg dry
1,2-Dichloroethane	---	U	6.0	ug/kg dry
1,1,1-Trichloroethane	---	U	6.0	ug/kg dry
Cyclohexane	---	U	6.0	ug/kg dry
Carbon Tetrachloride	---	U	6.0	ug/kg dry
Benzene	---	U	6.0	ug/kg dry
Trichloroethene	11		6.0	ug/kg dry
Methylcyclohexane	---	U	6.0	ug/kg dry
1,2-Dichloropropane	---	U J	6.0	ug/kg dry
Bromodichloromethane	---	U	6.0	ug/kg dry
cis-1,3-Dichloropropene	---	U	12	ug/kg dry
trans-1,3-Dichloropropene	---	U	6.0	ug/kg dry
1,1,2-Trichloroethane	---	U	6.0	ug/kg dry
Dibromochloromethane	---	U	6.0	ug/kg dry
Bromoform	---	U	6.0	ug/kg dry
4-Methyl-2-Pentanone	---	U J	12	ug/kg dry
Toluene	---	U J	6.0	ug/kg dry
Tetrachloroethene	830	K	33	ug/kg dry
2-Hexanone	---	U	120	ug/kg dry
1,2-Dibromoethane	---	U	6.0	ug/kg dry
Chlorobenzene	---	U	6.0	ug/kg dry
Ethylbenzene	---	U	6.0	ug/kg dry
m/p-Xylene	---	U	6.0	ug/kg dry
o-Xylene	---	U	6.0	ug/kg dry
Styrene	---	U	6.0	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

Isopropylbenzene	---	U	6.0	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	6.0	ug/kg dry
1,3-Dichlorobenzene	---	U	6.0	ug/kg dry
1,4-Dichlorobenzene	---	U	6.0	ug/kg dry
1,2-Dichlorobenzene	---	U	6.0	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	6.0	ug/kg dry
1,2,4-Trichlorobenzene	---	U	6.0	ug/kg dry
1,2,3-Trichlorobenzene	---	U	6.0	ug/kg dry
Propene	16			ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	300		108	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

NVOA GCMS

4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	280		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	142		108	ug/kg dry
Acenaphthylene	395		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	902	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	175		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry

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Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

NVOA GCMS

4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	793		108	ug/kg dry
Anthracene	311		108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	2780		108	ug/kg dry
Pyrene	2290		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	2040		108	ug/kg dry
Chrysene	1900		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	2910		108	ug/kg dry
Benzo(K)Fluoranthene	866		108	ug/kg dry
Benzo(A)Pyrene	1500		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1010		108	ug/kg dry
Dibenzo(A,H)Anthracene	277		108	ug/kg dry
Benzo(G,H,I)Perylene	686		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	1020	NJ		ug/kg dry
11H-Benzo[b]fluorene	1230	NJ		ug/kg dry
Heptadecane, 2,6-dimethyl-	2370	NJ		ug/kg dry
Heptadecane, 4-methyl-	710	NJ		ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

NVOA GCMS

Hexadecane, 2,6,10,14-tetra...	1820	NJ		ug/kg dry
Hexanoic acid, 2-ethyl-	2850	NJ		ug/kg dry
Phenanthrene, 2-methyl-	706	NJ		ug/kg dry
Tetrachloroethylene	1760	NJ		ug/kg dry
Triphenylene, 2-methyl-	1010	NJ		ug/kg dry

Metals ICP

Aluminum	5500		8.0	mg/kg dry
Antimony	3.8		1.6	mg/kg dry
Arsenic	6.2		0.64	mg/kg dry
Barium	50		8.0	mg/kg dry
Beryllium	0.29		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	1100		40	mg/kg dry
Chromium	9.6		0.40	mg/kg dry
Cobalt	6.6		1.6	mg/kg dry
Copper	63		0.80	mg/kg dry
Iron	19000		4.0	mg/kg dry
Lead	76		0.64	mg/kg dry
Magnesium	1500		40	mg/kg dry
Manganese	420		0.40	mg/kg dry
Nickel	17		1.6	mg/kg dry
Potassium	320		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	80	mg/kg dry
Thallium	---	U	1.6	mg/kg dry

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NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

Metals ICP

Tin	8.3		0.80	mg/kg dry
Vanadium	10		1.6	mg/kg dry
Zinc	38		1.6	mg/kg dry

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	43		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U J	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L

Benzaldehyde	---	U	5.3	ug/L

Phenol	---	U	5.3	ug/L

Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L

2-Chlorophenol	---	U	5.3	ug/L

2-Methylphenol	---	U	5.3	ug/L

Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L

Acetophenone	---	U	5.3	ug/L

4-Methylphenol	---	U	5.3	ug/L

N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L

Hexachloroethane	---	U	5.3	ug/L

Nitrobenzene	---	U	5.3	ug/L

Isophorone	---	U	5.3	ug/L

2-Nitrophenol	---	U	5.3	ug/L

2,4-Dimethylphenol	---	U	5.3	ug/L

Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L

2,4-Dichlorophenol	---	U	5.3	ug/L

Naphthalene	---	U	5.3	ug/L

4-Chloroaniline	---	U	5.3	ug/L

Hexachlorobutadiene	---	U	5.3	ug/L

Caprolactam	---	U	5.3	ug/L

4-Chloro-3-Methylphenol	---	U	5.3	ug/L

2-Methylnaphthalene	---	U	5.3	ug/L

1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L

Hexachlorocyclopentadiene	---	U	5.3	ug/L

2,4,6-Trichlorophenol	---	U	5.3	ug/L

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

NVOA GCMS

2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	5.3	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

NVOA GCMS

Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Phenol, 2-methoxy-	13	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

Metals ICP

Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	36		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L

DRAFT REPORT

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.2	ug/L
Benzaldehyde	---	U	5.4	ug/L
Phenol	---	U	5.4	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.4	ug/L
2-Chlorophenol	---	U	5.4	ug/L
2-Methylphenol	---	U	5.4	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.4	ug/L
Acetophenone	---	U	5.4	ug/L
4-Methylphenol	---	U	5.4	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.4	ug/L
Hexachloroethane	---	U	5.4	ug/L
Nitrobenzene	---	U	5.4	ug/L
Isophorone	---	U	5.4	ug/L
2-Nitrophenol	---	U	5.4	ug/L
2,4-Dimethylphenol	---	U	5.4	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.4	ug/L
2,4-Dichlorophenol	---	U	5.4	ug/L
Naphthalene	---	U	5.4	ug/L
4-Chloroaniline	---	U	5.4	ug/L
Hexachlorobutadiene	---	U	5.4	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

NVOA GCMS

Caprolactam	---	U	5.4	ug/L
4-Chloro-3-Methylphenol	---	U	5.4	ug/L
2-Methylnaphthalene	---	U	5.4	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.4	ug/L
Hexachlorocyclopentadiene	---	U	5.4	ug/L
2,4,6-Trichlorophenol	---	U	5.4	ug/L
2,4,5-Trichlorophenol	---	U	5.4	ug/L
Biphenyl	---	U	5.4	ug/L
2-Chloronaphthalene	---	U	5.4	ug/L
2-Nitroaniline	---	U	5.4	ug/L
Dimethyl Phthalate	---	U	5.4	ug/L
Acenaphthylene	---	U	5.4	ug/L
2,6-Dinitrotoluene	---	U	5.4	ug/L
3-Nitroaniline	---	U	5.4	ug/L
Acenaphthene	---	U	5.4	ug/L
2,4-Dinitrophenol	---	U	5.4	ug/L
4-Nitrophenol	---	U	5.4	ug/L
Dibenzofuran	---	U	5.4	ug/L
2,4-Dinitrotoluene	---	U	5.4	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.4	ug/L
Fluorene	---	U	5.4	ug/L
Diethylphthalate	---	U	5.4	ug/L
4-Chlorophenyl-Phenylether	---	U	5.4	ug/L
4-Nitroaniline	---	U	5.4	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.4	ug/L
N-Nitrosodiphenylamine	---	U	5.4	ug/L
4-Bromophenyl-Phenylether	---	U	5.4	ug/L
Hexachlorobenzene	---	U	5.4	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

NVOA GCMS

Atrazine	---	U	5.4	ug/L
Pentachlorophenol	---	U	5.4	ug/L
Phenanthrene	---	U	5.4	ug/L
Anthracene	---	U	5.4	ug/L
Carbazole	---	U	5.4	ug/L
Di-N-Butyl Phthalate	---	U	5.4	ug/L
Fluoranthene	---	U	5.4	ug/L
Pyrene	---	U	5.4	ug/L
Butylbenzylphthalate	---	U	5.4	ug/L
3,3'- Dichlorobenzidine	---	U	5.4	ug/L
Benzo(A)Anthracene	---	U	5.4	ug/L
Chrysene	---	U	5.4	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.4	ug/L
Di-N-Octyl Phthalate	---	U	5.4	ug/L
Benzo(B)Fluoranthene	---	U	5.4	ug/L
Benzo(K)Fluoranthene	---	U	5.4	ug/L
Benzo(A)Pyrene	---	U	5.4	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.4	ug/L
Dibenzo(A,H)Anthracene	---	U	5.4	ug/L
Benzo(G,H,I)Perylene	---	U	5.4	ug/L
Phenol, 2-methoxy-	14	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

Metals ICP

Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	24		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	170		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

NVOA GCMS

2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	5.3	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

NVOA GCMS

4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Tetrachloroethylene	34	NJ		ug/L

Metals ICP

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	38000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	4600		500	ug/L
Manganese	27		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3100		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	84000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-01-1

Sample ID: 1606044-03

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

VOA-TRACE GCMS

Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	14		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

VOA-TRACE GCMS

1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	4.2		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

NVOA GCMS

Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U L	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U L	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

NVOA GCMS

2,4-Dinitrophenol	---	U	5.3	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U L	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U L	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U L	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U L	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

NVOA GCMS

Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	43000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	2700		500	ug/L
Manganese	120		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3700		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	88000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

DRAFT REPORT

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	24		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	180		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.0	ug/L
Benzaldehyde	---	U	5.0	ug/L
Phenol	---	U	5.0	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.0	ug/L

DRAFT REPORT

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Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

NVOA GCMS

2-Chlorophenol	---	U	5.0	ug/L
2-Methylphenol	---	U	5.0	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.0	ug/L
Acetophenone	---	U	5.0	ug/L
4-Methylphenol	---	U	5.0	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.0	ug/L
Hexachloroethane	---	U	5.0	ug/L
Nitrobenzene	---	U	5.0	ug/L
Isophorone	---	U	5.0	ug/L
2-Nitrophenol	---	U	5.0	ug/L
2,4-Dimethylphenol	---	U	5.0	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.0	ug/L
2,4-Dichlorophenol	---	U	5.0	ug/L
Naphthalene	---	U	5.0	ug/L
4-Chloroaniline	---	U	5.0	ug/L
Hexachlorobutadiene	---	U	5.0	ug/L
Caprolactam	---	U	5.0	ug/L
4-Chloro-3-Methylphenol	---	U	5.0	ug/L
2-Methylnaphthalene	---	U	5.0	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.0	ug/L
Hexachlorocyclopentadiene	---	U	5.0	ug/L
2,4,6-Trichlorophenol	---	U	5.0	ug/L
2,4,5-Trichlorophenol	---	U	5.0	ug/L
Biphenyl	---	U	5.0	ug/L
2-Chloronaphthalene	---	U	5.0	ug/L
2-Nitroaniline	---	U	5.0	ug/L
Dimethyl Phthalate	---	U	5.0	ug/L
Acenaphthylene	---	U	5.0	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

NVOA GCMS

2,6-Dinitrotoluene	---	U	5.0	ug/L
3-Nitroaniline	---	U	5.0	ug/L
Acenaphthene	---	U	5.0	ug/L
2,4-Dinitrophenol	---	U	5.0	ug/L
4-Nitrophenol	---	U	5.0	ug/L
Dibenzofuran	---	U	5.0	ug/L
2,4-Dinitrotoluene	---	U	5.0	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.0	ug/L
Fluorene	---	U	5.0	ug/L
Diethylphthalate	---	U	5.0	ug/L
4-Chlorophenyl-Phenylether	---	U	5.0	ug/L
4-Nitroaniline	---	U	5.0	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.0	ug/L
N-Nitrosodiphenylamine	---	U	5.0	ug/L
4-Bromophenyl-Phenylether	---	U	5.0	ug/L
Hexachlorobenzene	---	U	5.0	ug/L
Atrazine	---	U	5.0	ug/L
Pentachlorophenol	---	U	5.0	ug/L
Phenanthrene	---	U	5.0	ug/L
Anthracene	---	U	5.0	ug/L
Carbazole	---	U	5.0	ug/L
Di-N-Butyl Phthalate	---	U	5.0	ug/L
Fluoranthene	---	U	5.0	ug/L
Pyrene	---	U	5.0	ug/L
Butylbenzylphthalate	---	U	5.0	ug/L
3,3'- Dichlorobenzidine	---	U	5.0	ug/L
Benzo(A)Anthracene	---	U	5.0	ug/L
Chrysene	---	U	5.0	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	5.0	ug/L
Di-N-Octyl Phthalate	---	U	5.0	ug/L
Benzo(B)Fluoranthene	---	U	5.0	ug/L
Benzo(K)Fluoranthene	---	U	5.0	ug/L
Benzo(A)Pyrene	---	U	5.0	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.0	ug/L
Dibenzo(A,H)Anthracene	---	U	5.0	ug/L
Benzo(G,H,I)Perylene	---	U	5.0	ug/L
Tetrachloroethylene	38	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	39000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	4700		500	ug/L
Manganese	28		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3200		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

Metals ICP

Sodium	84000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-03-1

Sample ID: 1606044-05

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

VOA-TRACE GCMS

Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	23		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	120		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

VOA-TRACE GCMS

1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L

Benzaldehyde	---	U	5.3	ug/L

Phenol	---	U L	5.3	ug/L

Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L

2-Chlorophenol	---	U L	5.3	ug/L

2-Methylphenol	---	U L	5.3	ug/L

Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L

Acetophenone	---	U	5.3	ug/L

4-Methylphenol	---	U L	5.3	ug/L

N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L

Hexachloroethane	---	U	5.3	ug/L

Nitrobenzene	---	U	5.3	ug/L

Isophorone	---	U	5.3	ug/L

2-Nitrophenol	---	U L	5.3	ug/L

2,4-Dimethylphenol	---	U L	5.3	ug/L

Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L

2,4-Dichlorophenol	---	U L	5.3	ug/L

Naphthalene	---	U	5.3	ug/L

4-Chloroaniline	---	U	5.3	ug/L

Hexachlorobutadiene	---	U	5.3	ug/L

Caprolactam	---	U	5.3	ug/L

4-Chloro-3-Methylphenol	---	U L	5.3	ug/L

2-Methylnaphthalene	---	U	5.3	ug/L

1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L

Hexachlorocyclopentadiene	---	U	5.3	ug/L

2,4,6-Trichlorophenol	---	U	5.3	ug/L

DRAFT REPORT

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Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

NVOA GCMS

2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	5.3	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

NVOA GCMS

Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Tetrachloroethylene	14	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	39000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

Metals ICP

Magnesium	3700		500	ug/L
Manganese	60		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3000		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	58000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	36		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

DRAFT REPORT

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Reported: 7/27/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

August 03, 2016

Scott Kirchner
CDM Smith
110 Fieldcrest Avenue, 6th Floor
Edison, NJ 08837

RE: Kingston Rail Yard - 1606029

Enclosed are the results of analyses for samples received by the laboratory between 6/15/2016 and 6/17/2016. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1606029 and contact the laboratory.

Sincerely,

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs), where applicable, for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The Reporting Limits for Bromomethane, cis-1,3-Dichloropropane and 2-Hexanone were raised due to problems associated with the initial calibration curve in all samples.

Semi-Volatile Organic Compounds: The Reporting Limit for 2,4-Dinitrophenol was raised accordingly due to problems associated with the initial calibration curve in all samples.

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
KR-SS-01-A	1606029-01	Solid	06/14/2016 10:40	06/15/2016 11:00
KR-SS-02-A	1606029-02	Solid	06/14/2016 11:00	06/15/2016 11:00
KR-SS-03-A	1606029-03	Solid	06/14/2016 11:15	06/15/2016 11:00
KR-SS-04-A	1606029-04	Solid	06/14/2016 12:00	06/15/2016 11:00
KR-SS-05-A	1606029-05	Solid	06/14/2016 12:15	06/15/2016 11:00
KR-SS-06-A	1606029-06	Solid	06/14/2016 12:20	06/15/2016 11:00
KR-SS-07-A	1606029-07	Solid	06/14/2016 13:40	06/15/2016 11:00
KR-SS-08-A	1606029-08	Solid	06/14/2016 13:45	06/15/2016 11:00
KR-SS-10-A	1606029-09	Solid	06/14/2016 15:20	06/15/2016 11:00
KR-SS-11-A	1606029-10	Solid	06/14/2016 14:30	06/15/2016 11:00
KR-SB-01-A	1606029-11	Solid	06/14/2016 13:45	06/15/2016 11:00
KR-SB-06-A	1606029-12	Solid	06/14/2016 14:40	06/15/2016 11:00
KR-SB-10-A	1606029-13	Solid	06/14/2016 15:40	06/15/2016 11:00
KR-SB-02-A	1606039-01	Solid	06/15/2016 08:15	06/16/2016 11:00
KR-SB-03-A	1606039-02	Solid	06/15/2016 08:45	06/16/2016 11:00
KR-SB-04-A	1606039-03	Solid	06/15/2016 09:20	06/16/2016 11:00
KR-SB-05-A	1606039-04	Solid	06/15/2016 10:15	06/16/2016 11:00
KR-SB-07-A	1606039-05	Solid	06/15/2016 10:45	06/16/2016 11:00
KR-SB-08-A	1606039-06	Solid	06/15/2016 11:20	06/16/2016 11:00
SB-900-A	1606039-07	Solid	06/15/2016 10:50	06/16/2016 11:00
KR-SB-09-A	1606039-08	Solid	06/15/2016 13:10	06/16/2016 11:00
KR-SB-11-A	1606039-09	Solid	06/15/2016 11:55	06/16/2016 11:00
KR-SS-09-A	1606039-10	Solid	06/15/2016 12:50	06/16/2016 11:00
SB-900-B	1606039-11	Solid	06/15/2016 12:00	06/16/2016 11:00
FB-SB-A	1606039-12	Aqueous	06/15/2016 12:30	06/16/2016 11:00
FB-GW-B	1606044-01	Aqueous	06/16/2016 11:05	06/17/2016 10:30
GW-900-1	1606044-02	Aqueous	06/16/2016 12:00	06/17/2016 10:30
KR-GW-01-1	1606044-03	Aqueous	06/16/2016 10:00	06/17/2016 10:30

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
KR-GW-02-1	1606044-04	Aqueous	06/16/2016 12:00	06/17/2016 10:30
KR-GW-03-1	1606044-05	Aqueous	06/16/2016 14:00	06/17/2016 10:30
TB-01	1606044-06	Aqueous	06/16/2016 09:45	06/17/2016 10:30

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Aqueous
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Solid
E-SVOA TCL	EPA 625 SOP C-90 Rev 3.5		Aqueous
E-SVOA TCL	EPA 625 SOP C-90 Rev 3.5		Solid
VOA Low Level Soil	SOM 2.2 SOP C-123 Rev2.5	NELAP	Solid
VOA Trace/SF	EPA DW-1 Rev 2.4	NELAP	Aqueous

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

NVOA GCMS

1,4-Dioxane	---	U	68.0	ug/kg dry
Benzaldehyde	---	U	102	ug/kg dry
Phenol	110		102	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	102	ug/kg dry
2-Chlorophenol	---	U	102	ug/kg dry
2-Methylphenol	---	U	102	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	102	ug/kg dry
Acetophenone	---	U	102	ug/kg dry
4-Methylphenol	117		102	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	102	ug/kg dry
Hexachloroethane	---	U	102	ug/kg dry
Nitrobenzene	---	U	102	ug/kg dry
Isophorone	---	U	102	ug/kg dry
2-Nitrophenol	---	U	102	ug/kg dry
2,4-Dimethylphenol	---	U	102	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	102	ug/kg dry
2,4-Dichlorophenol	---	U	102	ug/kg dry
Naphthalene	856		102	ug/kg dry
4-Chloroaniline	---	U	102	ug/kg dry
Hexachlorobutadiene	---	U	102	ug/kg dry
Caprolactam	---	U	102	ug/kg dry
4-Chloro-3-Methylphenol	---	U	102	ug/kg dry
2-Methylnaphthalene	602		102	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	102	ug/kg dry
Hexachlorocyclopentadiene	---	U	102	ug/kg dry
2,4,6-Trichlorophenol	---	U	102	ug/kg dry
2,4,5-Trichlorophenol	---	U	102	ug/kg dry
Biphenyl	307		102	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

NVOA GCMS

2-Chloronaphthalene	---	U	102	ug/kg dry
2-Nitroaniline	---	U	102	ug/kg dry
Dimethyl Phthalate	---	U	102	ug/kg dry
Acenaphthylene	158		102	ug/kg dry
2,6-Dinitrotoluene	---	U	102	ug/kg dry
3-Nitroaniline	---	U	102	ug/kg dry
Acenaphthene	468		102	ug/kg dry
2,4-Dinitrophenol	---	U J	338	ug/kg dry
4-Nitrophenol	---	U	102	ug/kg dry
Dibenzofuran	1250		102	ug/kg dry
2,4-Dinitrotoluene	---	U	102	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	102	ug/kg dry
Fluorene	367		102	ug/kg dry
Diethylphthalate	---	U	102	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	102	ug/kg dry
4-Nitroaniline	---	U	102	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	102	ug/kg dry
N-Nitrosodiphenylamine	---	U	102	ug/kg dry
4-Bromophenyl-Phenylether	---	U	102	ug/kg dry
Hexachlorobenzene	---	U	102	ug/kg dry
Atrazine	---	U	102	ug/kg dry
Pentachlorophenol	---	U	102	ug/kg dry
Phenanthrene	1890		102	ug/kg dry
Anthracene	350		102	ug/kg dry
Carbazole	228		102	ug/kg dry
Di-N-Butyl Phthalate	---	U	102	ug/kg dry
Fluoranthene	2970		102	ug/kg dry

DRAFT REPORT

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Reported: 8/3/2016

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

NVOA GCMS

Pyrene	1880		102	ug/kg dry
Butylbenzylphthalate	---	U	102	ug/kg dry
3,3'- Dichlorobenzidine	---	U	102	ug/kg dry
Benzo(A)Anthracene	1060		102	ug/kg dry
Chrysene	1160		102	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	102	ug/kg dry
Di-N-Octyl Phthalate	---	U	102	ug/kg dry
Benzo(B)Fluoranthene	2190		102	ug/kg dry
Benzo(K)Fluoranthene	599		102	ug/kg dry
Benzo(A)Pyrene	684		102	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	851		102	ug/kg dry
Dibenzo(A,H)Anthracene	220		102	ug/kg dry
Benzo(G,H,I)Perylene	620		102	ug/kg dry
1,8-Naphthalic anhydride	711	NJ		ug/kg dry
11H-Benzo[a]fluoren-11-one	758	NJ		ug/kg dry
7H-Benz[de]anthracen-7-one	811	NJ		ug/kg dry
9,10-Anthracenedione	649	NJ		ug/kg dry
Acenaphtho(1,2-B)pyridine	869	NJ		ug/kg dry
Cyclopenta(def)phenanthrenone	887	NJ		ug/kg dry
Naphthalene, 1-methyl-	628	NJ		ug/kg dry
Perylene	1040	NJ		ug/kg dry
Phthalic anhydride	779	NJ		ug/kg dry

Metals ICP

Aluminum	2800		17	mg/kg dry
Antimony	12		3.3	mg/kg dry
Arsenic	120		1.3	mg/kg dry

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

Metals ICP

Barium	92		17	mg/kg dry
Beryllium	0.66		0.50	mg/kg dry
Cadmium	5.4		0.50	mg/kg dry
Calcium	2300		83	mg/kg dry
Chromium	190		0.83	mg/kg dry
Cobalt	35		3.3	mg/kg dry
Copper	460		1.7	mg/kg dry
Iron	350000		83	mg/kg dry
Lead	94		1.3	mg/kg dry
Magnesium	350		83	mg/kg dry
Manganese	1300		0.83	mg/kg dry
Nickel	160		3.3	mg/kg dry
Potassium	410		83	mg/kg dry
Selenium	31		3.3	mg/kg dry
Silver	---	U	0.83	mg/kg dry
Sodium	410		170	mg/kg dry
Thallium	---	U	3.3	mg/kg dry
Tin	34		1.7	mg/kg dry
Vanadium	27		3.3	mg/kg dry
Zinc	70		3.3	mg/kg dry

Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

1,4-Dioxane	---	U	73.2	ug/kg dry
Benzaldehyde	---	U	109	ug/kg dry
Phenol	---	U	109	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	109	ug/kg dry

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

2-Chlorophenol	---	U	109	ug/kg dry
2-Methylphenol	---	U	109	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	109	ug/kg dry
Acetophenone	---	U	109	ug/kg dry
4-Methylphenol	---	U	109	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	109	ug/kg dry
Hexachloroethane	---	U	109	ug/kg dry
Nitrobenzene	---	U	109	ug/kg dry
Isophorone	---	U	109	ug/kg dry
2-Nitrophenol	---	U	109	ug/kg dry
2,4-Dimethylphenol	---	U	109	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	109	ug/kg dry
2,4-Dichlorophenol	---	U	109	ug/kg dry
Naphthalene	212		109	ug/kg dry
4-Chloroaniline	---	U	109	ug/kg dry
Hexachlorobutadiene	---	U	109	ug/kg dry
Caprolactam	---	U	109	ug/kg dry
4-Chloro-3-Methylphenol	---	U	109	ug/kg dry
2-Methylnaphthalene	179		109	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	109	ug/kg dry
Hexachlorocyclopentadiene	---	U	109	ug/kg dry
2,4,6-Trichlorophenol	---	U	109	ug/kg dry
2,4,5-Trichlorophenol	---	U	109	ug/kg dry
Biphenyl	---	U	109	ug/kg dry
2-Chloronaphthalene	---	U	109	ug/kg dry
2-Nitroaniline	---	U	109	ug/kg dry
Dimethyl Phthalate	---	U	109	ug/kg dry
Acenaphthylene	850		109	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

2,6-Dinitrotoluene	---	U	109	ug/kg dry
3-Nitroaniline	---	U	109	ug/kg dry
Acenaphthene	---	U	109	ug/kg dry
2,4-Dinitrophenol	---	U J	364	ug/kg dry
4-Nitrophenol	---	U	109	ug/kg dry
Dibenzofuran	154		109	ug/kg dry
2,4-Dinitrotoluene	---	U	109	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	109	ug/kg dry
Fluorene	137		109	ug/kg dry
Diethylphthalate	---	U	109	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	109	ug/kg dry
4-Nitroaniline	---	U	109	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	109	ug/kg dry
N-Nitrosodiphenylamine	---	U	109	ug/kg dry
4-Bromophenyl-Phenylether	---	U	109	ug/kg dry
Hexachlorobenzene	---	U	109	ug/kg dry
Atrazine	---	U	109	ug/kg dry
Pentachlorophenol	---	U	109	ug/kg dry
Phenanthrene	1510		109	ug/kg dry
Anthracene	849		109	ug/kg dry
Carbazole	316		109	ug/kg dry
Di-N-Butyl Phthalate	---	U	109	ug/kg dry
Fluoranthene	5260		546	ug/kg dry
Pyrene	4430		546	ug/kg dry
Butylbenzylphthalate	---	U	109	ug/kg dry
3,3'- Dichlorobenzidine	---	U	109	ug/kg dry
Benzo(A)Anthracene	4470		546	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

Chrysene	4520		546	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	109	ug/kg dry
Di-N-Octyl Phthalate	---	U	109	ug/kg dry
Benzo(B)Fluoranthene	6640		546	ug/kg dry
Benzo(K)Fluoranthene	1590		109	ug/kg dry
Benzo(A)Pyrene	3070		109	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1640		109	ug/kg dry
Dibenzo(A,H)Anthracene	451		109	ug/kg dry
Benzo(G,H,I)Perylene	1170		109	ug/kg dry
11H-Benzo[a]fluoren-11-one (01)	1870	NJ		ug/kg dry
11H-Benzo[a]fluorene	875	NJ		ug/kg dry
Benzo[b]naphtho[2,3-d]thiop...	955	NJ		ug/kg dry
Pyrene, 1-methyl-	1220	NJ		ug/kg dry
Pyrene, 2-methyl- (01)	1220	NJ		ug/kg dry
Tetrachloroethylene	2830	NJ		ug/kg dry
Triphenylene, 2-methyl-	1510	NJ		ug/kg dry

Metals ICP

Aluminum	6000		8.2	mg/kg dry
Antimony	1.7		1.6	mg/kg dry
Arsenic	9.7		0.66	mg/kg dry
Barium	53		8.2	mg/kg dry
Beryllium	0.38		0.25	mg/kg dry
Cadmium	0.68		0.25	mg/kg dry
Calcium	10000		41	mg/kg dry
Chromium	12		0.41	mg/kg dry
Cobalt	7.4		1.6	mg/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 8/3/2016

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-02-A

Sample ID: 1606029-02

Metals ICP

Copper	53		0.82	mg/kg dry
Iron	19000		4.1	mg/kg dry
Lead	130		0.66	mg/kg dry
Magnesium	2000		41	mg/kg dry
Manganese	400		0.41	mg/kg dry
Nickel	16		1.6	mg/kg dry
Potassium	410		41	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	82	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	6.1		0.82	mg/kg dry
Vanadium	14		1.6	mg/kg dry
Zinc	190		1.6	mg/kg dry

Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

1,4-Dioxane	---	U L	130	ug/kg dry
Benzaldehyde	---	U L	195	ug/kg dry
Phenol	---	U L	195	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	195	ug/kg dry
2-Chlorophenol	---	U L	195	ug/kg dry
2-Methylphenol	---	U L	195	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	195	ug/kg dry
Acetophenone	---	U L	195	ug/kg dry
4-Methylphenol	---	U L	195	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	195	ug/kg dry
Hexachloroethane	---	U L	195	ug/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

Nitrobenzene	---	U L	195	ug/kg dry
Isophorone	---	U L	195	ug/kg dry
2-Nitrophenol	---	U L	195	ug/kg dry
2,4-Dimethylphenol	---	U L	195	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	195	ug/kg dry
2,4-Dichlorophenol	---	U L	195	ug/kg dry
Naphthalene	---	U L	195	ug/kg dry
4-Chloroaniline	---	U L	195	ug/kg dry
Hexachlorobutadiene	---	U L	195	ug/kg dry
Caprolactam	---	U L	195	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	195	ug/kg dry
2-Methylnaphthalene	---	U L	195	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U L	195	ug/kg dry
Hexachlorocyclopentadiene	---	U L	195	ug/kg dry
2,4,6-Trichlorophenol	---	U L	195	ug/kg dry
2,4,5-Trichlorophenol	---	U L	195	ug/kg dry
Biphenyl	---	U L	195	ug/kg dry
2-Chloronaphthalene	---	U L	195	ug/kg dry
2-Nitroaniline	---	U L	195	ug/kg dry
Dimethyl Phthalate	---	U L	195	ug/kg dry
Acenaphthylene	---	U L	195	ug/kg dry
2,6-Dinitrotoluene	---	U L	195	ug/kg dry
3-Nitroaniline	---	U L	195	ug/kg dry
Acenaphthene	1190	L	195	ug/kg dry
2,4-Dinitrophenol	---	U J	648	ug/kg dry
4-Nitrophenol	---	U L	195	ug/kg dry
Dibenzofuran	720	L	195	ug/kg dry
2,4-Dinitrotoluene	---	U L	195	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

2,3,4,6-Tetrachlorophenol	---	U L	195	ug/kg dry
Fluorene	1130	L	195	ug/kg dry
Diethylphthalate	---	U L	195	ug/kg dry
4-Chlorophenyl-Phenylether	---	U L	195	ug/kg dry
4-Nitroaniline	---	U L	195	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	195	ug/kg dry
N-Nitrosodiphenylamine	---	U L	195	ug/kg dry
4-Bromophenyl-Phenylether	---	U L	195	ug/kg dry
Hexachlorobenzene	---	U L	195	ug/kg dry
Atrazine	---	U L	195	ug/kg dry
Pentachlorophenol	---	U L	195	ug/kg dry
Phenanthrene	7560	L	1950	ug/kg dry
Anthracene	2240	L	195	ug/kg dry
Carbazole	656	L	195	ug/kg dry
Di-N-Butyl Phthalate	---	U L	195	ug/kg dry
Fluoranthene	23300	L	1950	ug/kg dry
Pyrene	12500	L	1950	ug/kg dry
Butylbenzylphthalate	---	U L	195	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	195	ug/kg dry
Benzo(A)Anthracene	1520	L	195	ug/kg dry
Chrysene	6170	L	195	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	3020	K, L	195	ug/kg dry
Di-N-Octyl Phthalate	---	U L	195	ug/kg dry
Benzo(B)Fluoranthene	---	U L	195	ug/kg dry
Benzo(K)Fluoranthene	---	U L	195	ug/kg dry
Benzo(A)Pyrene	---	U L	195	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	195	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

Dibenzo(A,H)Anthracene	---	U L	195	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	195	ug/kg dry
2-Phenylnaphthalene	1010	NJ		ug/kg dry
9,10-Anthracenedione	2300	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	2310	NJ		ug/kg dry
Pentadecane, 2,6,10-trimethyl-	929	NJ		ug/kg dry

Metals ICP

Aluminum	2000		11	mg/kg dry
Antimony	7.1		2.1	mg/kg dry
Arsenic	30		0.86	mg/kg dry
Barium	45		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Cadmium	7.3		0.32	mg/kg dry
Calcium	7700		54	mg/kg dry
Chromium	220		0.54	mg/kg dry
Cobalt	23		2.1	mg/kg dry
Copper	310		1.1	mg/kg dry
Iron	170000		54	mg/kg dry
Lead	170		0.86	mg/kg dry
Magnesium	770		54	mg/kg dry
Manganese	1100		0.54	mg/kg dry
Nickel	180		2.1	mg/kg dry
Potassium	310		54	mg/kg dry
Selenium	3.5		2.1	mg/kg dry
Silver	---	U	0.54	mg/kg dry
Sodium	150		110	mg/kg dry

DRAFT REPORT

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-03-A

Sample ID: 1606029-03

Metals ICP

Thallium	---	U	2.1	mg/kg dry
Tin	21		1.1	mg/kg dry
Vanadium	30		2.1	mg/kg dry
Zinc	330		2.1	mg/kg dry

Field ID: KR-SS-04-A

Sample ID: 1606029-04

NVOA GCMS

1,4-Dioxane	---	U	73.1	ug/kg dry
Benzaldehyde	---	U L	109	ug/kg dry
Phenol	---	U L	109	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	109	ug/kg dry
2-Chlorophenol	---	U L	109	ug/kg dry
2-Methylphenol	---	U L	109	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	109	ug/kg dry
Acetophenone	---	U L	109	ug/kg dry
4-Methylphenol	---	U L	109	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	109	ug/kg dry
Hexachloroethane	---	U L	109	ug/kg dry
Nitrobenzene	---	U L	109	ug/kg dry
Isophorone	---	U L	109	ug/kg dry
2-Nitrophenol	---	U L	109	ug/kg dry
2,4-Dimethylphenol	---	U L	109	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	109	ug/kg dry
2,4-Dichlorophenol	---	U L	109	ug/kg dry
Naphthalene	232		109	ug/kg dry
4-Chloroaniline	---	U	109	ug/kg dry
Hexachlorobutadiene	---	U	109	ug/kg dry
Caprolactam	---	U	109	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-04-A

Sample ID: 1606029-04

NVOA GCMS

4-Chloro-3-Methylphenol	---	U L	109	ug/kg dry
2-Methylnaphthalene	155		109	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	109	ug/kg dry
Hexachlorocyclopentadiene	---	U	109	ug/kg dry
2,4,6-Trichlorophenol	---	U L	109	ug/kg dry
2,4,5-Trichlorophenol	---	U L	109	ug/kg dry
Biphenyl	---	U	109	ug/kg dry
2-Chloronaphthalene	---	U	109	ug/kg dry
2-Nitroaniline	---	U	109	ug/kg dry
Dimethyl Phthalate	---	U	109	ug/kg dry
Acenaphthylene	155		109	ug/kg dry
2,6-Dinitrotoluene	---	U	109	ug/kg dry
3-Nitroaniline	---	U	109	ug/kg dry
Acenaphthene	---	U	109	ug/kg dry
2,4-Dinitrophenol	---	U J	364	ug/kg dry
4-Nitrophenol	---	U L	109	ug/kg dry
Dibenzofuran	---	U	109	ug/kg dry
2,4-Dinitrotoluene	---	U	109	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	109	ug/kg dry
Fluorene	---	U	109	ug/kg dry
Diethylphthalate	---	U	109	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	109	ug/kg dry
4-Nitroaniline	---	U	109	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	109	ug/kg dry
N-Nitrosodiphenylamine	---	U	109	ug/kg dry
4-Bromophenyl-Phenylether	---	U	109	ug/kg dry
Hexachlorobenzene	---	U	109	ug/kg dry
Atrazine	---	U	109	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-04-A

Sample ID: 1606029-04

NVOA GCMS

Pentachlorophenol	---	U L	109	ug/kg dry
Phenanthrene	488		109	ug/kg dry
Anthracene	154		109	ug/kg dry
Carbazole	---	U L	109	ug/kg dry
Di-N-Butyl Phthalate	---	U L	109	ug/kg dry
Fluoranthene	1260	L	109	ug/kg dry
Pyrene	1070	L	109	ug/kg dry
Butylbenzylphthalate	---	U L	109	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	109	ug/kg dry
Benzo(A)Anthracene	661	L	109	ug/kg dry
Chrysene	739	L	109	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	109	ug/kg dry
Di-N-Octyl Phthalate	---	U L	109	ug/kg dry
Benzo(B)Fluoranthene	1050	L	109	ug/kg dry
Benzo(K)Fluoranthene	355	L	109	ug/kg dry
Benzo(A)Pyrene	613	L	109	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	383	L	109	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	109	ug/kg dry
Benzo(G,H,I)Perylene	289	L	109	ug/kg dry
11H-Benzo[a]fluoren-11-one	394	NJ		ug/kg dry
11H-Benzo[b]fluorene	501	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	536	NJ		ug/kg dry
Tetrachloroethylene	5890	NJ		ug/kg dry

Metals ICP

Aluminum	5400		8.8	mg/kg dry
Antimony	3.7		1.8	mg/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-04-A

Sample ID: 1606029-04

Metals ICP

Arsenic	9.9		0.70	mg/kg dry
Barium	51		8.8	mg/kg dry
Beryllium	0.37		0.26	mg/kg dry
Cadmium	0.30		0.26	mg/kg dry
Calcium	1200		44	mg/kg dry
Chromium	9.9		0.44	mg/kg dry
Cobalt	6.7		1.8	mg/kg dry
Copper	76		0.88	mg/kg dry
Iron	20000		4.4	mg/kg dry
Lead	130		0.70	mg/kg dry
Magnesium	1900		44	mg/kg dry
Manganese	360		0.44	mg/kg dry
Nickel	14		1.8	mg/kg dry
Potassium	400		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	9.7		0.88	mg/kg dry
Vanadium	13		1.8	mg/kg dry
Zinc	61		1.8	mg/kg dry

Field ID: KR-SS-05-A

Sample ID: 1606029-05

NVOA GCMS

1,4-Dioxane	---	U L	70.7	ug/kg dry
Benzaldehyde	---	U L	106	ug/kg dry
Phenol	---	U L	106	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-05-A

Sample ID: 1606029-05

NVOA GCMS

Bis(2-Chloroethyl)Ether	---	U L	106	ug/kg dry
2-Chlorophenol	---	U L	106	ug/kg dry
2-Methylphenol	---	U L	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	106	ug/kg dry
Acetophenone	---	U L	106	ug/kg dry
4-Methylphenol	---	U L	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	106	ug/kg dry
Hexachloroethane	---	U L	106	ug/kg dry
Nitrobenzene	---	U L	106	ug/kg dry
Isophorone	---	U L	106	ug/kg dry
2-Nitrophenol	---	U L	106	ug/kg dry
2,4-Dimethylphenol	---	U L	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	106	ug/kg dry
2,4-Dichlorophenol	---	U L	106	ug/kg dry
Naphthalene	218	L	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry
Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	106	ug/kg dry
2-Methylnaphthalene	192		106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry
Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U L	106	ug/kg dry
2,4,5-Trichlorophenol	---	U L	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	---	U	106	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-05-A

Sample ID: 1606029-05

NVOA GCMS

Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	352	ug/kg dry
4-Nitrophenol	---	U L	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U L	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry
4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry
Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U L	106	ug/kg dry
Phenanthrene	145		106	ug/kg dry
Anthracene	---	U	106	ug/kg dry
Carbazole	---	U L	106	ug/kg dry
Di-N-Butyl Phthalate	---	U L	106	ug/kg dry
Fluoranthene	266	L	106	ug/kg dry
Pyrene	248	L	106	ug/kg dry
Butylbenzylphthalate	---	U L	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	106	ug/kg dry
Benzo(A)Anthracene	126	L	106	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-05-A

Sample ID: 1606029-05

NVOA GCMS

Chrysene	172	L	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	106	ug/kg dry
Di-N-Octyl Phthalate	---	U L	106	ug/kg dry
Benzo(B)Fluoranthene	248	L	106	ug/kg dry
Benzo(K)Fluoranthene	---	U L	106	ug/kg dry
Benzo(A)Pyrene	---	U L	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	106	ug/kg dry
HEPTADECANE	1590	NJ		ug/kg dry
Hexadecane	2820	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1770	NJ		ug/kg dry
Octadecane	1480	NJ		ug/kg dry
Pentadecane	4200	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	2460	NJ		ug/kg dry
Tetrachloroethylene	2170	NJ		ug/kg dry
Tetradecane	1490	NJ		ug/kg dry
Undecane	1670	NJ		ug/kg dry

Metals ICP

Aluminum	5400		8.3	mg/kg dry
Antimony	2.3		1.7	mg/kg dry
Arsenic	8.0		0.66	mg/kg dry
Barium	37		8.3	mg/kg dry
Beryllium	0.27		0.25	mg/kg dry
Cadmium	0.47		0.25	mg/kg dry
Calcium	1300		41	mg/kg dry

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-05-A

Sample ID: 1606029-05

Metals ICP

Chromium	9.7		0.41	mg/kg dry
Cobalt	5.2		1.7	mg/kg dry
Copper	37		0.83	mg/kg dry
Iron	16000		4.1	mg/kg dry
Lead	90		0.66	mg/kg dry
Magnesium	1700		41	mg/kg dry
Manganese	290		0.41	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	340		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	5.3		0.83	mg/kg dry
Vanadium	13		1.7	mg/kg dry
Zinc	140		1.7	mg/kg dry

Field ID: KR-SS-06-A

Sample ID: 1606029-06

NVOA GCMS

1,4-Dioxane	---	U	71.0	ug/kg dry
Benzaldehyde	---	U L	106	ug/kg dry
Phenol	---	U L	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	106	ug/kg dry
2-Chlorophenol	---	U L	106	ug/kg dry
2-Methylphenol	---	U L	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	106	ug/kg dry
Acetophenone	---	U L	106	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-06-A

Sample ID: 1606029-06

NVOA GCMS

4-Methylphenol	---	U L	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	106	ug/kg dry
Hexachloroethane	---	U L	106	ug/kg dry
Nitrobenzene	---	U L	106	ug/kg dry
Isophorone	---	U L	106	ug/kg dry
2-Nitrophenol	---	U L	106	ug/kg dry
2,4-Dimethylphenol	---	U L	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	106	ug/kg dry
2,4-Dichlorophenol	---	U L	106	ug/kg dry
Naphthalene	113	L	106	ug/kg dry
4-Chloroaniline	---	U L	106	ug/kg dry
Hexachlorobutadiene	---	U L	106	ug/kg dry
Caprolactam	---	U L	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	106	ug/kg dry
2-Methylnaphthalene	---	U L	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U L	106	ug/kg dry
Hexachlorocyclopentadiene	---	U L	106	ug/kg dry
2,4,6-Trichlorophenol	---	U L	106	ug/kg dry
2,4,5-Trichlorophenol	---	U L	106	ug/kg dry
Biphenyl	---	U L	106	ug/kg dry
2-Chloronaphthalene	---	U L	106	ug/kg dry
2-Nitroaniline	---	U L	106	ug/kg dry
Dimethyl Phthalate	---	U L	106	ug/kg dry
Acenaphthylene	---	U L	106	ug/kg dry
2,6-Dinitrotoluene	---	U L	106	ug/kg dry
3-Nitroaniline	---	U L	106	ug/kg dry
Acenaphthene	---	U L	106	ug/kg dry
2,4-Dinitrophenol	---	U J	353	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-06-A

Sample ID: 1606029-06

NVOA GCMS

4-Nitrophenol	---	U L	106	ug/kg dry
Dibenzofuran	---	U L	106	ug/kg dry
2,4-Dinitrotoluene	---	U L	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U L	106	ug/kg dry
Fluorene	---	U L	106	ug/kg dry
Diethylphthalate	---	U L	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U L	106	ug/kg dry
4-Nitroaniline	---	U L	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	106	ug/kg dry
N-Nitrosodiphenylamine	---	U L	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U L	106	ug/kg dry
Hexachlorobenzene	---	U L	106	ug/kg dry
Atrazine	---	U L	106	ug/kg dry
Pentachlorophenol	---	U L	106	ug/kg dry
Phenanthrene	---	U L	106	ug/kg dry
Anthracene	---	U L	106	ug/kg dry
Carbazole	---	U L	106	ug/kg dry
Di-N-Butyl Phthalate	---	U L	106	ug/kg dry
Fluoranthene	---	U L	106	ug/kg dry
Pyrene	---	U L	106	ug/kg dry
Butylbenzylphthalate	---	U L	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	106	ug/kg dry
Benzo(A)Anthracene	---	U L	106	ug/kg dry
Chrysene	---	U L	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	106	ug/kg dry
Di-N-Octyl Phthalate	---	U L	106	ug/kg dry
Benzo(B)Fluoranthene	---	U L	106	ug/kg dry
Benzo(K)Fluoranthene	---	U L	106	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-06-A

Sample ID: 1606029-06

NVOA GCMS

Benzo(A)Pyrene	---	U L	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	106	ug/kg dry
Eicosane	454	NJ		ug/kg dry
HEPTADECANE	443	NJ		ug/kg dry
Hexadecane (01)	583	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	604	NJ		ug/kg dry
Pentadecane	904	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	1210	NJ		ug/kg dry
Pentadecane, 2,6,10-trimethyl-	783	NJ		ug/kg dry
Tetrachloroethylene	6930	NJ		ug/kg dry
Tetradecane	487	NJ		ug/kg dry

Metals ICP

Aluminum	5500		8.3	mg/kg dry
Antimony	3.4		1.7	mg/kg dry
Arsenic	9.7		0.66	mg/kg dry
Barium	56		8.3	mg/kg dry
Beryllium	0.31		0.25	mg/kg dry
Cadmium	0.72		0.25	mg/kg dry
Calcium	4300		41	mg/kg dry
Chromium	14		0.41	mg/kg dry
Cobalt	6.4		1.7	mg/kg dry
Copper	72		0.83	mg/kg dry
Iron	22000		4.1	mg/kg dry
Lead	170		0.66	mg/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-06-A

Sample ID: 1606029-06

Metals ICP

Magnesium	1800		41	mg/kg dry
Manganese	380		0.41	mg/kg dry
Nickel	18		1.7	mg/kg dry
Potassium	430		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	8.7		0.83	mg/kg dry
Vanadium	13		1.7	mg/kg dry
Zinc	310		1.7	mg/kg dry

Field ID: KR-SS-07-A

Sample ID: 1606029-07

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	154		108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-07-A

Sample ID: 1606029-07

NVOA GCMS

2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	564		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	548		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	---	U	108	ug/kg dry
Acenaphthylene	1140		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	361	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	290		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-07-A

Sample ID: 1606029-07

NVOA GCMS

4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	1120		108	ug/kg dry
Anthracene	795		108	ug/kg dry
Carbazole	268		108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	4490		541	ug/kg dry
Pyrene	3870		541	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	3380		108	ug/kg dry
Chrysene	3590		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	560		108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	6540		541	ug/kg dry
Benzo(K)Fluoranthene	1470		108	ug/kg dry
Benzo(A)Pyrene	2610		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1350		108	ug/kg dry
Dibenzo(A,H)Anthracene	374		108	ug/kg dry
Benzo(G,H,I)Perylene	969		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	1850	NJ		ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-07-A

Sample ID: 1606029-07

NVOA GCMS

Benz[a]anthracene, 7-methyl-	1420	NJ		ug/kg dry
Benzenesulfonamide, N-butyl-	1330	NJ		ug/kg dry
di-p-Tolylacetylene	1010	NJ		ug/kg dry
HENTRIACONTANE	1020	NJ		ug/kg dry
Naphthalene, 1-methyl-	1000	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	974	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	1210	NJ		ug/kg dry

Metals ICP

Aluminum	5600		8.3	mg/kg dry
Antimony	4.6		1.7	mg/kg dry
Arsenic	10		0.66	mg/kg dry
Barium	59		8.3	mg/kg dry
Beryllium	0.34		0.25	mg/kg dry
Cadmium	0.64		0.25	mg/kg dry
Calcium	3700		41	mg/kg dry
Chromium	15		0.41	mg/kg dry
Cobalt	6.5		1.7	mg/kg dry
Copper	100		0.83	mg/kg dry
Iron	28000		4.1	mg/kg dry
Lead	170		0.66	mg/kg dry
Magnesium	1500		41	mg/kg dry
Manganese	370		0.41	mg/kg dry
Nickel	18		1.7	mg/kg dry
Potassium	410		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-07-A

Sample ID: 1606029-07

Metals ICP

Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	16		0.83	mg/kg dry
Vanadium	16		1.7	mg/kg dry
Zinc	84		1.7	mg/kg dry

Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

1,4-Dioxane	---	U	74.9	ug/kg dry
Benzaldehyde	162		112	ug/kg dry
Phenol	---	U	112	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	112	ug/kg dry
2-Chlorophenol	---	U	112	ug/kg dry
2-Methylphenol	---	U	112	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	112	ug/kg dry
Acetophenone	---	U	112	ug/kg dry
4-Methylphenol	---	U	112	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	112	ug/kg dry
Hexachloroethane	---	U	112	ug/kg dry
Nitrobenzene	---	U	112	ug/kg dry
Isophorone	---	U	112	ug/kg dry
2-Nitrophenol	---	U	112	ug/kg dry
2,4-Dimethylphenol	---	U	112	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	112	ug/kg dry
2,4-Dichlorophenol	---	U	112	ug/kg dry
Naphthalene	333		112	ug/kg dry
4-Chloroaniline	---	U	112	ug/kg dry
Hexachlorobutadiene	---	U	112	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

Caprolactam	---	U	112	ug/kg dry
4-Chloro-3-Methylphenol	---	U	112	ug/kg dry
2-Methylnaphthalene	352		112	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	112	ug/kg dry
Hexachlorocyclopentadiene	---	U L	112	ug/kg dry
2,4,6-Trichlorophenol	---	U	112	ug/kg dry
2,4,5-Trichlorophenol	---	U	112	ug/kg dry
Biphenyl	---	U	112	ug/kg dry
2-Chloronaphthalene	---	U	112	ug/kg dry
2-Nitroaniline	---	U	112	ug/kg dry
Dimethyl Phthalate	---	U	112	ug/kg dry
Acenaphthylene	466		112	ug/kg dry
2,6-Dinitrotoluene	---	U	112	ug/kg dry
3-Nitroaniline	---	U	112	ug/kg dry
Acenaphthene	---	U	112	ug/kg dry
2,4-Dinitrophenol	---	U J	372	ug/kg dry
4-Nitrophenol	---	U	112	ug/kg dry
Dibenzofuran	126		112	ug/kg dry
2,4-Dinitrotoluene	---	U	112	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	112	ug/kg dry
Fluorene	---	U	112	ug/kg dry
Diethylphthalate	---	U	112	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	112	ug/kg dry
4-Nitroaniline	---	U	112	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	112	ug/kg dry
N-Nitrosodiphenylamine	---	U	112	ug/kg dry
4-Bromophenyl-Phenylether	---	U	112	ug/kg dry
Hexachlorobenzene	---	U	112	ug/kg dry

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

Atrazine	---	U	112	ug/kg dry
Pentachlorophenol	---	U	112	ug/kg dry
Phenanthrene	477		112	ug/kg dry
Anthracene	310		112	ug/kg dry
Carbazole	---	U	112	ug/kg dry
Di-N-Butyl Phthalate	---	U	112	ug/kg dry
Fluoranthene	1580		112	ug/kg dry
Pyrene	1410		112	ug/kg dry
Butylbenzylphthalate	---	U	112	ug/kg dry
3,3'- Dichlorobenzidine	---	U	112	ug/kg dry
Benzo(A)Anthracene	1260		112	ug/kg dry
Chrysene	1250		112	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	112	ug/kg dry
Di-N-Octyl Phthalate	---	U	112	ug/kg dry
Benzo(B)Fluoranthene	2050		112	ug/kg dry
Benzo(K)Fluoranthene	759		112	ug/kg dry
Benzo(A)Pyrene	1120		112	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	595		112	ug/kg dry
Dibenzo(A,H)Anthracene	144		112	ug/kg dry
Benzo(G,H,I)Perylene	438		112	ug/kg dry
11H-Benzo[a]fluoren-11-one	704	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	896	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	549	NJ		ug/kg dry
Naphthalene, 2-methyl-	603	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	847	NJ		ug/kg dry
Phenanthrene, 2,5-dimethyl-	567	NJ		ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

Phenanthrene, 2-methyl-	466	NJ		ug/kg dry
Triphenylene, 2-methyl-	472	NJ		ug/kg dry

Metals ICP

Aluminum	4600		8.3	mg/kg dry
Antimony	5.1		1.7	mg/kg dry
Arsenic	13		0.66	mg/kg dry
Barium	62		8.3	mg/kg dry
Beryllium	0.33		0.25	mg/kg dry
Cadmium	0.95		0.25	mg/kg dry
Calcium	4700		41	mg/kg dry
Chromium	17		0.41	mg/kg dry
Cobalt	7.0		1.7	mg/kg dry
Copper	100		0.83	mg/kg dry
Iron	49000		21	mg/kg dry
Lead	180		0.66	mg/kg dry
Magnesium	1400		41	mg/kg dry
Manganese	390		0.41	mg/kg dry
Nickel	21		1.7	mg/kg dry
Potassium	380		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	13		0.83	mg/kg dry
Vanadium	14		1.7	mg/kg dry
Zinc	84		1.7	mg/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

1,4-Dioxane	---	U	68.8	ug/kg dry
Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry
2-Chlorophenol	---	U	103	ug/kg dry
2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U L	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

2-Chloronaphthalene	---	U	103	ug/kg dry
2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	---	U	103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry
2,6-Dinitrotoluene	---	U	103	ug/kg dry
3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	342	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	186		103	ug/kg dry
Pyrene	146		103	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

Butylbenzylphthalate	---	U	103	ug/kg dry
3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	---	U	103	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	1600	K	103	ug/kg dry
Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	---	U	103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry
1-Hexanol, 2-ethyl-	4160	NJ		ug/kg dry

Metals ICP

Aluminum	5700		8.3	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	4.6		0.66	mg/kg dry
Barium	22		8.3	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	17000		41	mg/kg dry
Chromium	8.1		0.41	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	13		0.83	mg/kg dry
Iron	12000		4.1	mg/kg dry
Lead	10		0.66	mg/kg dry
Magnesium	2200		41	mg/kg dry

DRAFT REPORT

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Reported: 8/3/2016



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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-10-A

Sample ID: 1606029-09

Metals ICP

Manganese	330		0.41	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	360		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.83	mg/kg dry
Vanadium	9.1		1.7	mg/kg dry
Zinc	37		1.7	mg/kg dry

Field ID: KR-SS-11-A

Sample ID: 1606029-10

NVOA GCMS

1,4-Dioxane	---	U	71.6	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-11-A

Sample ID: 1606029-10

NVOA GCMS

Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	491		107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	315		107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry

DRAFT REPORT

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-11-A

Sample ID: 1606029-10

NVOA GCMS

4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	656		107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry
Benzenesulfonamide, N-butyl-	2010	NJ		ug/kg dry
Dodecane	2910	NJ		ug/kg dry
Dodecane, 2,6,10-trimethyl-	4130	NJ		ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-11-A

Sample ID: 1606029-10

NVOA GCMS

Dodecane, 4-methyl-	9800	NJ		ug/kg dry
Hexadecane (02)	4080	NJ		ug/kg dry
Octacosane	2120	NJ		ug/kg dry
Pentadecane	2980	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	5890	NJ		ug/kg dry
Tetradecane	2890	NJ		ug/kg dry

Metals ICP

Aluminum	4900		8.4	mg/kg dry
Antimony	4.8		1.7	mg/kg dry
Arsenic	12		0.67	mg/kg dry
Barium	46		8.4	mg/kg dry
Beryllium	0.26		0.25	mg/kg dry
Cadmium	1.3		0.25	mg/kg dry
Calcium	1900		42	mg/kg dry
Chromium	14		0.42	mg/kg dry
Cobalt	6.0		1.7	mg/kg dry
Copper	97		0.84	mg/kg dry
Iron	22000		4.2	mg/kg dry
Lead	140		0.67	mg/kg dry
Magnesium	1400		42	mg/kg dry
Manganese	350		0.42	mg/kg dry
Nickel	14		1.7	mg/kg dry
Potassium	370		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	110		84	mg/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-11-A

Sample ID: 1606029-10

Metals ICP

Thallium	---	U	1.7	mg/kg dry
Tin	11		0.84	mg/kg dry
Vanadium	12		1.7	mg/kg dry
Zinc	75		1.7	mg/kg dry

Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

Dichlorodifluoromethane	---	U	4.9	ug/kg dry
Chloromethane	---	U	4.9	ug/kg dry
Vinyl Chloride	---	U	4.9	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	4.9	ug/kg dry
Trichlorofluoromethane	---	U	4.9	ug/kg dry
1,1-Dichloroethene	---	U	4.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.9	ug/kg dry
Carbon Disulfide	---	U	4.9	ug/kg dry
Acetone	---	U J	9.8	ug/kg dry
Methyl Acetate	5.7	J	4.9	ug/kg dry
Methylene Chloride	---	U	4.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.9	ug/kg dry
1,1-Dichloroethane	---	U	4.9	ug/kg dry
2-Butanone	---	U	9.8	ug/kg dry
Bromochloromethane	---	U	4.9	ug/kg dry
Chloroform	---	U	4.9	ug/kg dry
1,2-Dichloroethane	---	U	4.9	ug/kg dry
1,1,1-Trichloroethane	---	U	4.9	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

Cyclohexane	---	U	4.9	ug/kg dry
Carbon Tetrachloride	---	U	4.9	ug/kg dry
Benzene	---	U	4.9	ug/kg dry
Trichloroethene	---	U	4.9	ug/kg dry
Methylcyclohexane	---	U	4.9	ug/kg dry
1,2-Dichloropropane	---	U J	4.9	ug/kg dry
Bromodichloromethane	---	U	4.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.8	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.9	ug/kg dry
1,1,2-Trichloroethane	---	U	4.9	ug/kg dry
Dibromochloromethane	---	U	4.9	ug/kg dry
Bromoform	---	U	4.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.8	ug/kg dry
Toluene	---	U	4.9	ug/kg dry
Tetrachloroethene	6.5		4.9	ug/kg dry
2-Hexanone	---	U	95	ug/kg dry
1,2-Dibromoethane	---	U	4.9	ug/kg dry
Chlorobenzene	---	U	4.9	ug/kg dry
Ethylbenzene	---	U	4.9	ug/kg dry
m/p-Xylene	---	U	4.9	ug/kg dry
o-Xylene	---	U	4.9	ug/kg dry
Styrene	---	U	4.9	ug/kg dry
Isopropylbenzene	---	U	4.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.9	ug/kg dry
1,3-Dichlorobenzene	---	U	4.9	ug/kg dry
1,4-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.9	ug/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

1,2,4-Trichlorobenzene	---	U	4.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.9	ug/kg dry
Benzene, 1-methyl-2-(1-meth...	250	NJ		ug/kg dry
Dodecane, 6-methyl-	490	NJ		ug/kg dry
Tridecane	430	NJ		ug/kg dry
Undecane (01)	1200	NJ		ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.6	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry
Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry
2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry
Caprolactam	---	U	104	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-01-A

Sample ID: 1606029-11

NVOA GCMS

4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	123		104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry
2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	238		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	347	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry
2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry
Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry
Atrazine	---	U	104	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-01-A

Sample ID: 1606029-11

NVOA GCMS

Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	141		104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	---	U	104	ug/kg dry
Pyrene	---	U	104	ug/kg dry
Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	---	U	104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	---	U	104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry
HEPTADECANE	5690	NJ		ug/kg dry
Hexadecane (01)	4840	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1140	NJ		ug/kg dry
Naphthalene, 1,7-dimethyl-	1250	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	1750	NJ		ug/kg dry
Nonadecane	1580	NJ		ug/kg dry
Pentadecane	7800	NJ		ug/kg dry
Tetradecane	6150	NJ		ug/kg dry

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Project: Kingston Rail Yard - 1606029

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-01-A

Sample ID: 1606029-11

NVOA GCMS

Tridecane	3210	NJ		ug/kg dry

Metals ICP

Aluminum	5800		8.4	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.1		0.67	mg/kg dry
Barium	23		8.4	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	170		42	mg/kg dry
Chromium	7.3		0.42	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	10		0.84	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	6.1		0.67	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	360		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	350		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.84	mg/kg dry
Vanadium	8.5		1.7	mg/kg dry
Zinc	35		1.7	mg/kg dry

Field ID: KR-SB-06-A

Sample ID: 1606029-12

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Dichlorodifluoromethane	---	U	4.9	ug/kg dry
Chloromethane	---	U	4.9	ug/kg dry
Vinyl Chloride	---	U	4.9	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	4.9	ug/kg dry
Trichlorofluoromethane	---	U	4.9	ug/kg dry
1,1-Dichloroethene	---	U	4.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.9	ug/kg dry
Carbon Disulfide	---	U	4.9	ug/kg dry
Acetone	---	U J	9.9	ug/kg dry
Methyl Acetate	---	U J	4.9	ug/kg dry
Methylene Chloride	---	U	4.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.9	ug/kg dry
1,1-Dichloroethane	---	U	4.9	ug/kg dry
2-Butanone	---	U	9.9	ug/kg dry
Bromochloromethane	---	U	4.9	ug/kg dry
Chloroform	---	U	4.9	ug/kg dry
1,2-Dichloroethane	---	U	4.9	ug/kg dry
1,1,1-Trichloroethane	---	U	4.9	ug/kg dry
Cyclohexane	---	U	4.9	ug/kg dry
Carbon Tetrachloride	---	U	4.9	ug/kg dry
Benzene	---	U	4.9	ug/kg dry
Trichloroethene	---	U	4.9	ug/kg dry
Methylcyclohexane	---	U	4.9	ug/kg dry
1,2-Dichloropropane	---	U J	4.9	ug/kg dry
Bromodichloromethane	---	U	4.9	ug/kg dry

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

cis-1,3-Dichloropropene	---	U	9.9	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.9	ug/kg dry
1,1,2-Trichloroethane	---	U	4.9	ug/kg dry
Dibromochloromethane	---	U	4.9	ug/kg dry
Bromoform	---	U	4.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.9	ug/kg dry
Toluene	---	U	4.9	ug/kg dry
Tetrachloroethene	56		4.9	ug/kg dry
2-Hexanone	---	U	96	ug/kg dry
1,2-Dibromoethane	---	U	4.9	ug/kg dry
Chlorobenzene	---	U	4.9	ug/kg dry
Ethylbenzene	---	U	4.9	ug/kg dry
m/p-Xylene	---	U	4.9	ug/kg dry
o-Xylene	---	U	4.9	ug/kg dry
Styrene	---	U	4.9	ug/kg dry
Isopropylbenzene	---	U	4.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.9	ug/kg dry
1,3-Dichlorobenzene	---	U	4.9	ug/kg dry
1,4-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.9	ug/kg dry
Dodecane	19	NJ		ug/kg dry
Dodecane, 2,6,11-trimethyl-	24	NJ		ug/kg dry
Hexadecane	14	NJ		ug/kg dry
Naphthalene, 1,6-dimethyl- (01)	38	NJ		ug/kg dry
Naphthalene, 1,6-dimethyl- (02)	30	NJ		ug/kg dry

DRAFT REPORT

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Naphthalene, 1,7-dimethyl-	14	NJ		ug/kg dry
Naphthalene, 1-methyl-	21	NJ		ug/kg dry
Naphthalene, 2-methyl-	29	NJ		ug/kg dry
Tetradecane	110	NJ		ug/kg dry
Tridecane	82	NJ		ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.8	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry

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NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

NVOA GCMS

2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U L	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	194		107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	357	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

NVOA GCMS

Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry

Metals ICP

Aluminum	5600		8.7	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	2.7		0.69	mg/kg dry
Barium	24		8.7	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	370		43	mg/kg dry
Chromium	7.4		0.43	mg/kg dry
Cobalt	5.4		1.7	mg/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-06-A

Sample ID: 1606029-12

Metals ICP

Copper	9.6		0.87	mg/kg dry
Iron	12000		4.3	mg/kg dry
Lead	5.9		0.69	mg/kg dry
Magnesium	2100		43	mg/kg dry
Manganese	370		0.43	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	400		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	87	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.87	mg/kg dry
Vanadium	8.2		1.7	mg/kg dry
Zinc	34		1.7	mg/kg dry

Field ID: KR-SB-10-A

Sample ID: 1606029-13

VOA GCMS

Dichlorodifluoromethane	---	U	5.1	ug/kg dry
Chloromethane	---	U	5.1	ug/kg dry
Vinyl Chloride	---	U	5.1	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	5.1	ug/kg dry
Trichlorofluoromethane	---	U	5.1	ug/kg dry
1,1-Dichloroethene	---	U	5.1	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.1	ug/kg dry
Carbon Disulfide	---	U	5.1	ug/kg dry
Acetone	13	J	10	ug/kg dry
Methyl Acetate	---	U J	5.1	ug/kg dry

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NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-10-A

Sample ID: 1606029-13

VOA GCMS

Methylene Chloride	---	U	5.1	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.1	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.1	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.1	ug/kg dry
1,1-Dichloroethane	---	U	5.1	ug/kg dry
2-Butanone	---	U	10	ug/kg dry
Bromochloromethane	---	U	5.1	ug/kg dry
Chloroform	---	U	5.1	ug/kg dry
1,2-Dichloroethane	---	U	5.1	ug/kg dry
1,1,1-Trichloroethane	---	U	5.1	ug/kg dry
Cyclohexane	---	U	5.1	ug/kg dry
Carbon Tetrachloride	---	U	5.1	ug/kg dry
Benzene	---	U	5.1	ug/kg dry
Trichloroethene	---	U	5.1	ug/kg dry
Methylcyclohexane	---	U	5.1	ug/kg dry
1,2-Dichloropropane	---	U J	5.1	ug/kg dry
Bromodichloromethane	---	U	5.1	ug/kg dry
cis-1,3-Dichloropropene	---	U	10	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.1	ug/kg dry
1,1,2-Trichloroethane	---	U	5.1	ug/kg dry
Dibromochloromethane	---	U	5.1	ug/kg dry
Bromoform	---	U	5.1	ug/kg dry
4-Methyl-2-Pentanone	---	U	10	ug/kg dry
Toluene	---	U	5.1	ug/kg dry
Tetrachloroethene	5.5		5.1	ug/kg dry
2-Hexanone	---	U	99	ug/kg dry
1,2-Dibromoethane	---	U	5.1	ug/kg dry
Chlorobenzene	---	U	5.1	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-10-A

Sample ID: 1606029-13

VOA GCMS

Ethylbenzene	---	U	5.1	ug/kg dry
m/p-Xylene	---	U	5.1	ug/kg dry
o-Xylene	---	U	5.1	ug/kg dry
Styrene	---	U	5.1	ug/kg dry
Isopropylbenzene	---	U	5.1	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.1	ug/kg dry
1,3-Dichlorobenzene	---	U	5.1	ug/kg dry
1,4-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.1	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.1	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.1	ug/kg dry
Tetradecane	20	NJ		ug/kg dry
Tridecane	22	NJ		ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.1	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry

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NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-10-A

Sample ID: 1606029-13

NVOA GCMS

2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	---	U	108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	---	U	108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U L	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	215		108	ug/kg dry
Acenaphthylene	---	U	108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	359	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	---	U	108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-10-A

Sample ID: 1606029-13

NVOA GCMS

Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	---	U	108	ug/kg dry
Anthracene	---	U	108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	172		108	ug/kg dry
Pyrene	168		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	135		108	ug/kg dry
Chrysene	220		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	471	K	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	298		108	ug/kg dry
Benzo(K)Fluoranthene	117		108	ug/kg dry
Benzo(A)Pyrene	127		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	108	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	108	ug/kg dry
Benzo(G,H,I)Perylene	---	U	108	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-10-A

Sample ID: 1606029-13

NVOA GCMS

1-Hexanol, 2-ethyl-	517	NJ		ug/kg dry

Metals ICP

Aluminum	6000		8.0	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.8		0.64	mg/kg dry
Barium	28		8.0	mg/kg dry
Beryllium	0.25		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	15000		40	mg/kg dry
Chromium	11		0.40	mg/kg dry
Cobalt	4.9		1.6	mg/kg dry
Copper	11		0.80	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	8.4		0.64	mg/kg dry
Magnesium	2200		40	mg/kg dry
Manganese	320		0.40	mg/kg dry
Nickel	13		1.6	mg/kg dry
Potassium	460		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	80	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.80	mg/kg dry
Vanadium	9.5		1.6	mg/kg dry
Zinc	35		1.6	mg/kg dry

Field ID: KR-SB-02-A

Sample ID: 1606039-01

DRAFT REPORT

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

VOA GCMS

Dichlorodifluoromethane	---	U	4.3	ug/kg dry
Chloromethane	---	U	4.3	ug/kg dry
Vinyl Chloride	---	U	4.3	ug/kg dry
Bromomethane	---	U J	110	ug/kg dry
Chloroethane	---	U	4.3	ug/kg dry
Trichlorofluoromethane	---	U	4.3	ug/kg dry
1,1-Dichloroethene	---	U	4.3	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.3	ug/kg dry
Carbon Disulfide	---	U	4.3	ug/kg dry
Acetone	12	J	8.6	ug/kg dry
Methyl Acetate	6.9	J	4.3	ug/kg dry
Methylene Chloride	---	U	4.3	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.3	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.3	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.3	ug/kg dry
1,1-Dichloroethane	---	U	4.3	ug/kg dry
2-Butanone	---	U	8.6	ug/kg dry
Bromochloromethane	---	U	4.3	ug/kg dry
Chloroform	---	U	4.3	ug/kg dry
1,2-Dichloroethane	---	U	4.3	ug/kg dry
1,1,1-Trichloroethane	---	U	4.3	ug/kg dry
Cyclohexane	---	U	4.3	ug/kg dry
Carbon Tetrachloride	---	U	4.3	ug/kg dry
Benzene	---	U	4.3	ug/kg dry
Trichloroethene	---	U	4.3	ug/kg dry
Methylcyclohexane	---	U	4.3	ug/kg dry
1,2-Dichloropropane	---	U J	4.3	ug/kg dry
Bromodichloromethane	---	U	4.3	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

VOA GCMS

cis-1,3-Dichloropropene	---	U	8.6	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.3	ug/kg dry
1,1,2-Trichloroethane	---	U	4.3	ug/kg dry
Dibromochloromethane	---	U	4.3	ug/kg dry
Bromoform	---	U	4.3	ug/kg dry
4-Methyl-2-Pentanone	---	U	8.6	ug/kg dry
Toluene	---	U	4.3	ug/kg dry
Tetrachloroethene	43		4.3	ug/kg dry
2-Hexanone	---	U	84	ug/kg dry
1,2-Dibromoethane	---	U	4.3	ug/kg dry
Chlorobenzene	---	U	4.3	ug/kg dry
Ethylbenzene	---	U	4.3	ug/kg dry
m/p-Xylene	---	U	4.3	ug/kg dry
o-Xylene	---	U	4.3	ug/kg dry
Styrene	---	U	4.3	ug/kg dry
Isopropylbenzene	---	U	4.3	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.3	ug/kg dry
1,3-Dichlorobenzene	---	U	4.3	ug/kg dry
1,4-Dichlorobenzene	---	U	4.3	ug/kg dry
1,2-Dichlorobenzene	---	U	4.3	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.3	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.3	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.3	ug/kg dry
Tridecane	8.7	NJ		ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

NVOA GCMS

1,4-Dioxane	---	U	71.6	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

NVOA GCMS

2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	161		107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	274		107	ug/kg dry
Pyrene	241		107	ug/kg dry

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

NVOA GCMS

Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	122		107	ug/kg dry
Chrysene	140		107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	169		107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	114		107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry
Tetrachloroethylene	391	NJ		ug/kg dry

Metals ICP

Aluminum	6100		7.9	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.8		0.63	mg/kg dry
Barium	30		7.9	mg/kg dry
Beryllium	0.28		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	480		40	mg/kg dry
Chromium	7.2		0.40	mg/kg dry
Cobalt	6.0		1.6	mg/kg dry
Copper	17		0.79	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	17		0.63	mg/kg dry
Magnesium	1800		40	mg/kg dry

DRAFT REPORT

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-02-A

Sample ID: 1606039-01

Metals ICP

Manganese	390		0.40	mg/kg dry
Nickel	12		1.6	mg/kg dry
Potassium	280		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	79	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.79	mg/kg dry
Vanadium	9.3		1.6	mg/kg dry
Zinc	36		1.6	mg/kg dry

Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

Dichlorodifluoromethane	---	U	4.5	ug/kg dry
Chloromethane	6.3		4.5	ug/kg dry
Vinyl Chloride	---	U	4.5	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.5	ug/kg dry
Trichlorofluoromethane	---	U	4.5	ug/kg dry
1,1-Dichloroethene	---	U	4.5	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.5	ug/kg dry
Carbon Disulfide	---	U	4.5	ug/kg dry
Acetone	16	J	9.0	ug/kg dry
Methyl Acetate	5.4	J	4.5	ug/kg dry
Methylene Chloride	---	U	4.5	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.5	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.5	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.5	ug/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

1,1-Dichloroethane	---	U	4.5	ug/kg dry
2-Butanone	---	U	9.0	ug/kg dry
Bromochloromethane	---	U	4.5	ug/kg dry
Chloroform	---	U	4.5	ug/kg dry
1,2-Dichloroethane	---	U	4.5	ug/kg dry
1,1,1-Trichloroethane	---	U	4.5	ug/kg dry
Cyclohexane	---	U	4.5	ug/kg dry
Carbon Tetrachloride	---	U	4.5	ug/kg dry
Benzene	---	U	4.5	ug/kg dry
Trichloroethene	---	U	4.5	ug/kg dry
Methylcyclohexane	---	U	4.5	ug/kg dry
1,2-Dichloropropane	---	U J	4.5	ug/kg dry
Bromodichloromethane	---	U	4.5	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.0	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.5	ug/kg dry
1,1,2-Trichloroethane	---	U	4.5	ug/kg dry
Dibromochloromethane	---	U	4.5	ug/kg dry
Bromoform	---	U	4.5	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.0	ug/kg dry
Toluene	---	U	4.5	ug/kg dry
Tetrachloroethene	260		26	ug/kg dry
2-Hexanone	---	U	88	ug/kg dry
1,2-Dibromoethane	---	U	4.5	ug/kg dry
Chlorobenzene	---	U	4.5	ug/kg dry
Ethylbenzene	---	U	4.5	ug/kg dry
m/p-Xylene	---	U	4.5	ug/kg dry
o-Xylene	---	U	4.5	ug/kg dry
Styrene	---	U L	4.5	ug/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

Isopropylbenzene	---	U	4.5	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.5	ug/kg dry
1,3-Dichlorobenzene	---	U	4.5	ug/kg dry
1,4-Dichlorobenzene	---	U	4.5	ug/kg dry
1,2-Dichlorobenzene	---	U	4.5	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.5	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.5	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.5	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.5	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-03-A

Sample ID: 1606039-02

NVOA GCMS

Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-03-A

Sample ID: 1606039-02

NVOA GCMS

Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry

Metals ICP

Aluminum	7000		7.9	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.1		0.64	mg/kg dry
Barium	20		7.9	mg/kg dry
Beryllium	0.25		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry

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Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-03-A

Sample ID: 1606039-02

Metals ICP

Calcium	320		40	mg/kg dry
Chromium	7.6		0.40	mg/kg dry
Cobalt	5.1		1.6	mg/kg dry
Copper	8.0		0.79	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	5.9		0.64	mg/kg dry
Magnesium	1800		40	mg/kg dry
Manganese	340		0.40	mg/kg dry
Nickel	13		1.6	mg/kg dry
Potassium	250		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	79	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.79	mg/kg dry
Vanadium	10		1.6	mg/kg dry
Zinc	33		1.6	mg/kg dry

Field ID: KR-SB-04-A

Sample ID: 1606039-03

VOA GCMS

Dichlorodifluoromethane	---	U	5.3	ug/kg dry
Chloromethane	---	U	5.3	ug/kg dry
Vinyl Chloride	---	U	5.3	ug/kg dry
Bromomethane	---	U J	140	ug/kg dry
Chloroethane	---	U	5.3	ug/kg dry
Trichlorofluoromethane	---	U	5.3	ug/kg dry
1,1-Dichloroethene	---	U	5.3	ug/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-04-A

Sample ID: 1606039-03

VOA GCMS

1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.3	ug/kg dry
Carbon Disulfide	---	U	5.3	ug/kg dry
Acetone	---	U J	11	ug/kg dry
Methyl Acetate	---	U J	5.3	ug/kg dry
Methylene Chloride	---	U	5.3	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.3	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.3	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.3	ug/kg dry
1,1-Dichloroethane	---	U	5.3	ug/kg dry
2-Butanone	---	U	11	ug/kg dry
Bromochloromethane	---	U	5.3	ug/kg dry
Chloroform	---	U	5.3	ug/kg dry
1,2-Dichloroethane	---	U	5.3	ug/kg dry
1,1,1-Trichloroethane	---	U	5.3	ug/kg dry
Cyclohexane	---	U	5.3	ug/kg dry
Carbon Tetrachloride	---	U	5.3	ug/kg dry
Benzene	---	U	5.3	ug/kg dry
Trichloroethene	---	U	5.3	ug/kg dry
Methylcyclohexane	---	U	5.3	ug/kg dry
1,2-Dichloropropane	---	U J	5.3	ug/kg dry
Bromodichloromethane	---	U	5.3	ug/kg dry
cis-1,3-Dichloropropene	---	U	11	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.3	ug/kg dry
1,1,2-Trichloroethane	---	U	5.3	ug/kg dry
Dibromochloromethane	---	U	5.3	ug/kg dry
Bromoform	---	U	5.3	ug/kg dry
4-Methyl-2-Pentanone	---	U	11	ug/kg dry
Toluene	---	U	5.3	ug/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-04-A

Sample ID: 1606039-03

VOA GCMS

Tetrachloroethene	17		5.3	ug/kg dry
2-Hexanone	---	U	100	ug/kg dry
1,2-Dibromoethane	---	U	5.3	ug/kg dry
Chlorobenzene	---	U	5.3	ug/kg dry
Ethylbenzene	---	U	5.3	ug/kg dry
m/p-Xylene	---	U	5.3	ug/kg dry
o-Xylene	---	U	5.3	ug/kg dry
Styrene	---	U	5.3	ug/kg dry
Isopropylbenzene	---	U	5.3	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.3	ug/kg dry
1,3-Dichlorobenzene	---	U	5.3	ug/kg dry
1,4-Dichlorobenzene	---	U	5.3	ug/kg dry
1,2-Dichlorobenzene	---	U	5.3	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.3	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.3	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.3	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	70.8	ug/kg dry
Benzaldehyde	---	U	106	ug/kg dry
Phenol	---	U	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	106	ug/kg dry
2-Chlorophenol	---	U	106	ug/kg dry
2-Methylphenol	---	U	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	106	ug/kg dry
Acetophenone	---	U	106	ug/kg dry
4-Methylphenol	---	U	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	106	ug/kg dry
Hexachloroethane	---	U	106	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-04-A

Sample ID: 1606039-03

NVOA GCMS

Nitrobenzene	---	U	106	ug/kg dry
Isophorone	---	U	106	ug/kg dry
2-Nitrophenol	---	U	106	ug/kg dry
2,4-Dimethylphenol	---	U	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	106	ug/kg dry
2,4-Dichlorophenol	---	U	106	ug/kg dry
Naphthalene	---	U	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry
Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U	106	ug/kg dry
2-Methylnaphthalene	---	U	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry
Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U	106	ug/kg dry
2,4,5-Trichlorophenol	---	U	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	---	U	106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	352	ug/kg dry
4-Nitrophenol	---	U	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry

DRAFT REPORT

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-04-A

Sample ID: 1606039-03

NVOA GCMS

2,3,4,6-Tetrachlorophenol	---	U	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry
4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry
Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U	106	ug/kg dry
Phenanthrene	---	U	106	ug/kg dry
Anthracene	---	U	106	ug/kg dry
Carbazole	---	U	106	ug/kg dry
Di-N-Butyl Phthalate	---	U	106	ug/kg dry
Fluoranthene	---	U	106	ug/kg dry
Pyrene	---	U	106	ug/kg dry
Butylbenzylphthalate	---	U	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U	106	ug/kg dry
Benzo(A)Anthracene	---	U	106	ug/kg dry
Chrysene	---	U	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	106	ug/kg dry
Di-N-Octyl Phthalate	---	U	106	ug/kg dry
Benzo(B)Fluoranthene	---	U	106	ug/kg dry
Benzo(K)Fluoranthene	---	U	106	ug/kg dry
Benzo(A)Pyrene	---	U	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	106	ug/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-04-A

Sample ID: 1606039-03

NVOA GCMS

Benzo(G,H,I)Perylene	---	U	106	ug/kg dry

Metals ICP

Aluminum	6100		8.6	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.0		0.69	mg/kg dry
Barium	11		8.6	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	230		43	mg/kg dry
Chromium	7.2		0.43	mg/kg dry
Cobalt	5.3		1.7	mg/kg dry
Copper	10		0.86	mg/kg dry
Iron	11000		4.3	mg/kg dry
Lead	7.6		0.69	mg/kg dry
Magnesium	2000		43	mg/kg dry
Manganese	300		0.43	mg/kg dry
Nickel	12		1.7	mg/kg dry
Potassium	290		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	86	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.86	mg/kg dry
Vanadium	8.4		1.7	mg/kg dry
Zinc	30		1.7	mg/kg dry

Field ID: KR-SB-05-A

Sample ID: 1606039-04

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

VOA GCMS

Dichlorodifluoromethane	---	U	5.9	ug/kg dry
Chloromethane	7.0		5.9	ug/kg dry
Vinyl Chloride	---	U	5.9	ug/kg dry
Bromomethane	---	U J	150	ug/kg dry
Chloroethane	---	U	5.9	ug/kg dry
Trichlorofluoromethane	---	U	5.9	ug/kg dry
1,1-Dichloroethene	---	U	5.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.9	ug/kg dry
Carbon Disulfide	---	U	5.9	ug/kg dry
Acetone	36	J	12	ug/kg dry
Methyl Acetate	9.7	J	5.9	ug/kg dry
Methylene Chloride	---	U	5.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.9	ug/kg dry
1,1-Dichloroethane	---	U	5.9	ug/kg dry
2-Butanone	---	U	12	ug/kg dry
Bromochloromethane	---	U	5.9	ug/kg dry
Chloroform	---	U	5.9	ug/kg dry
1,2-Dichloroethane	---	U	5.9	ug/kg dry
1,1,1-Trichloroethane	---	U	5.9	ug/kg dry
Cyclohexane	---	U	5.9	ug/kg dry
Carbon Tetrachloride	---	U	5.9	ug/kg dry
Benzene	---	U	5.9	ug/kg dry
Trichloroethene	---	U	5.9	ug/kg dry
Methylcyclohexane	---	U	5.9	ug/kg dry
1,2-Dichloropropane	---	U J	5.9	ug/kg dry
Bromodichloromethane	---	U	5.9	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

VOA GCMS

cis-1,3-Dichloropropene	---	U	12	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.9	ug/kg dry
1,1,2-Trichloroethane	---	U	5.9	ug/kg dry
Dibromochloromethane	---	U	5.9	ug/kg dry
Bromoform	---	U	5.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	12	ug/kg dry
Toluene	---	U	5.9	ug/kg dry
Tetrachloroethene	82		5.9	ug/kg dry
2-Hexanone	---	U	110	ug/kg dry
1,2-Dibromoethane	---	U	5.9	ug/kg dry
Chlorobenzene	---	U	5.9	ug/kg dry
Ethylbenzene	---	U	5.9	ug/kg dry
m/p-Xylene	---	U	5.9	ug/kg dry
o-Xylene	---	U	5.9	ug/kg dry
Styrene	---	U	5.9	ug/kg dry
Isopropylbenzene	---	U	5.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.9	ug/kg dry
1,3-Dichlorobenzene	---	U	5.9	ug/kg dry
1,4-Dichlorobenzene	---	U	5.9	ug/kg dry
1,2-Dichlorobenzene	---	U	5.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.9	ug/kg dry
HEXANAL	14			ug/kg dry
Propene	14			ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

NVOA GCMS

1,4-Dioxane	---	U	69.3	ug/kg dry
Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry
2-Chlorophenol	---	U	103	ug/kg dry
2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

NVOA GCMS

2-Chloronaphthalene	---	U	103	ug/kg dry
2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	118		103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry
2,6-Dinitrotoluene	---	U	103	ug/kg dry
3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	345	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	186		103	ug/kg dry
Pyrene	144		103	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

NVOA GCMS

Butylbenzylphthalate	---	U	103	ug/kg dry
3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	112		103	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	103	ug/kg dry
Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	158		103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry

Metals ICP

Aluminum	6000		8.5	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.9		0.68	mg/kg dry
Barium	17		8.5	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	170		42	mg/kg dry
Chromium	8.0		0.42	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	12		0.85	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	11		0.68	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	330		0.42	mg/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-05-A

Sample ID: 1606039-04

Metals ICP

Nickel	13		1.7	mg/kg dry
Potassium	340		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	85	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.85	mg/kg dry
Vanadium	8.8		1.7	mg/kg dry
Zinc	44		1.7	mg/kg dry

Field ID: KR-SB-07-A

Sample ID: 1606039-05

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	---	U J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-07-A

Sample ID: 1606039-05

VOA GCMS

2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry
Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	6.4		4.7	ug/kg dry
2-Hexanone	---	U	90	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-07-A

Sample ID: 1606039-05

VOA GCMS

1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.6	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry
Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry
2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-07-A

Sample ID: 1606039-05

NVOA GCMS

Caprolactam	---	U	104	ug/kg dry
4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	---	U	104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry
2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	128		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	346	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry
2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry
Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-07-A

Sample ID: 1606039-05

NVOA GCMS

Atrazine	---	U	104	ug/kg dry
Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	---	U	104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	---	U	104	ug/kg dry
Pyrene	---	U	104	ug/kg dry
Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	---	U	104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	---	U	104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry

Metals ICP

Aluminum	6500		7.5	mg/kg dry
Antimony	---	U	1.5	mg/kg dry
Arsenic	3.4		0.60	mg/kg dry
Barium	11		7.5	mg/kg dry
Beryllium	0.22		0.22	mg/kg dry
Cadmium	---	U	0.22	mg/kg dry
Calcium	250		37	mg/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-07-A

Sample ID: 1606039-05

Metals ICP

Chromium	7.6		0.37	mg/kg dry
Cobalt	5.2		1.5	mg/kg dry
Copper	9.1		0.75	mg/kg dry
Iron	12000		3.7	mg/kg dry
Lead	6.7		0.60	mg/kg dry
Magnesium	2100		37	mg/kg dry
Manganese	270		0.37	mg/kg dry
Nickel	13		1.5	mg/kg dry
Potassium	280		37	mg/kg dry
Selenium	---	U	1.5	mg/kg dry
Silver	---	U	0.37	mg/kg dry
Sodium	---	U	75	mg/kg dry
Thallium	---	U	1.5	mg/kg dry
Tin	---	U	0.75	mg/kg dry
Vanadium	9.6		1.5	mg/kg dry
Zinc	29		1.5	mg/kg dry

Field ID: KR-SB-08-A

Sample ID: 1606039-06

VOA GCMS

Dichlorodifluoromethane	---	U	5.1	ug/kg dry
Chloromethane	---	U	5.1	ug/kg dry
Vinyl Chloride	---	U	5.1	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	5.1	ug/kg dry
Trichlorofluoromethane	---	U	5.1	ug/kg dry
1,1-Dichloroethene	---	U	5.1	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.1	ug/kg dry
Carbon Disulfide	---	U	5.1	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-08-A

Sample ID: 1606039-06

VOA GCMS

Acetone	11	J	10	ug/kg dry
Methyl Acetate	---	U J	5.1	ug/kg dry
Methylene Chloride	---	U	5.1	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.1	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.1	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.1	ug/kg dry
1,1-Dichloroethane	---	U	5.1	ug/kg dry
2-Butanone	---	U	10	ug/kg dry
Bromochloromethane	---	U	5.1	ug/kg dry
Chloroform	---	U	5.1	ug/kg dry
1,2-Dichloroethane	---	U	5.1	ug/kg dry
1,1,1-Trichloroethane	---	U	5.1	ug/kg dry
Cyclohexane	---	U	5.1	ug/kg dry
Carbon Tetrachloride	---	U	5.1	ug/kg dry
Benzene	---	U	5.1	ug/kg dry
Trichloroethene	---	U	5.1	ug/kg dry
Methylcyclohexane	---	U	5.1	ug/kg dry
1,2-Dichloropropane	---	U J	5.1	ug/kg dry
Bromodichloromethane	---	U	5.1	ug/kg dry
cis-1,3-Dichloropropene	---	U	10	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.1	ug/kg dry
1,1,2-Trichloroethane	---	U	5.1	ug/kg dry
Dibromochloromethane	---	U	5.1	ug/kg dry
Bromoform	---	U	5.1	ug/kg dry
4-Methyl-2-Pentanone	---	U	10	ug/kg dry
Toluene	---	U	5.1	ug/kg dry
Tetrachloroethene	9.7		5.1	ug/kg dry
2-Hexanone	---	U	98	ug/kg dry

DRAFT REPORT

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-08-A

Sample ID: 1606039-06

VOA GCMS

1,2-Dibromoethane	---	U	5.1	ug/kg dry
Chlorobenzene	---	U	5.1	ug/kg dry
Ethylbenzene	---	U	5.1	ug/kg dry
m/p-Xylene	---	U	5.1	ug/kg dry
o-Xylene	---	U	5.1	ug/kg dry
Styrene	---	U	5.1	ug/kg dry
Isopropylbenzene	---	U	5.1	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.1	ug/kg dry
1,3-Dichlorobenzene	---	U	5.1	ug/kg dry
1,4-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.1	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.1	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.1	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.8	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry
Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-08-A

Sample ID: 1606039-06

NVOA GCMS

2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry
Caprolactam	---	U	104	ug/kg dry
4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	---	U	104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry
2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	176		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	347	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry
2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-08-A

Sample ID: 1606039-06

NVOA GCMS

Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry
Atrazine	---	U	104	ug/kg dry
Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	123		104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	185		104	ug/kg dry
Pyrene	162		104	ug/kg dry
Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	110		104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	126		104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-08-A

Sample ID: 1606039-06

Metals ICP

Aluminum	6400		8.2	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.2		0.66	mg/kg dry
Barium	25		8.2	mg/kg dry
Beryllium	0.25		0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	290		41	mg/kg dry
Chromium	8.5		0.41	mg/kg dry
Cobalt	6.0		1.6	mg/kg dry
Copper	16		0.82	mg/kg dry
Iron	16000		4.1	mg/kg dry
Lead	15		0.66	mg/kg dry
Magnesium	2000		41	mg/kg dry
Manganese	460		0.41	mg/kg dry
Nickel	15		1.6	mg/kg dry
Potassium	290		41	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	82	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	1.8		0.82	mg/kg dry
Vanadium	9.1		1.6	mg/kg dry
Zinc	32		1.6	mg/kg dry

Field ID: SB-900-A

Sample ID: 1606039-07

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-A

Sample ID: 1606039-07

VOA GCMS

Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	11	J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-A

Sample ID: 1606039-07

VOA GCMS

trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry
Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	---	U	4.7	ug/kg dry
2-Hexanone	---	U	90	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.2	ug/kg dry
Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry
2-Chlorophenol	---	U	103	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-A

Sample ID: 1606039-07

NVOA GCMS

2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry
2-Chloronaphthalene	---	U	103	ug/kg dry
2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	192		103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry
2,6-Dinitrotoluene	---	U	103	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-A

Sample ID: 1606039-07

NVOA GCMS

3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	344	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	---	U	103	ug/kg dry
Pyrene	---	U	103	ug/kg dry
Butylbenzylphthalate	---	U	103	ug/kg dry
3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	---	U	103	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	103	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-A

Sample ID: 1606039-07

NVOA GCMS

Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	---	U	103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry

Metals ICP

Aluminum	6500		8.4	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.7		0.67	mg/kg dry
Barium	12		8.4	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	230		42	mg/kg dry
Chromium	7.9		0.42	mg/kg dry
Cobalt	5.3		1.7	mg/kg dry
Copper	10		0.84	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	6.2		0.67	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	320		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	300		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	84	mg/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-A

Sample ID: 1606039-07

Metals ICP

Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.84	mg/kg dry
Vanadium	9.5		1.7	mg/kg dry
Zinc	31		1.7	mg/kg dry

Field ID: KR-SB-09-A

Sample ID: 1606039-08

VOA GCMS

Dichlorodifluoromethane	---	U	4.4	ug/kg dry
Chloromethane	---	U	4.4	ug/kg dry
Vinyl Chloride	---	U	4.4	ug/kg dry
Bromomethane	---	U J	110	ug/kg dry
Chloroethane	---	U	4.4	ug/kg dry
Trichlorofluoromethane	---	U	4.4	ug/kg dry
1,1-Dichloroethene	---	U	4.4	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.4	ug/kg dry
Carbon Disulfide	---	U	4.4	ug/kg dry
Acetone	18	J	8.9	ug/kg dry
Methyl Acetate	---	U J	4.4	ug/kg dry
Methylene Chloride	---	U	4.4	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.4	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.4	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.4	ug/kg dry
1,1-Dichloroethane	---	U	4.4	ug/kg dry
2-Butanone	---	U	8.9	ug/kg dry
Bromochloromethane	---	U	4.4	ug/kg dry
Chloroform	---	U	4.4	ug/kg dry
1,2-Dichloroethane	---	U	4.4	ug/kg dry
1,1,1-Trichloroethane	---	U	4.4	ug/kg dry
Cyclohexane	---	U	4.4	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

VOA GCMS

Carbon Tetrachloride	---	U	4.4	ug/kg dry
Benzene	---	U	4.4	ug/kg dry
Trichloroethene	---	U	4.4	ug/kg dry
Methylcyclohexane	---	U	4.4	ug/kg dry
1,2-Dichloropropane	---	U J	4.4	ug/kg dry
Bromodichloromethane	---	U	4.4	ug/kg dry
cis-1,3-Dichloropropene	---	U	8.9	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.4	ug/kg dry
1,1,2-Trichloroethane	---	U	4.4	ug/kg dry
Dibromochloromethane	---	U	4.4	ug/kg dry
Bromoform	---	U	4.4	ug/kg dry
4-Methyl-2-Pentanone	---	U	8.9	ug/kg dry
Toluene	---	U	4.4	ug/kg dry
Tetrachloroethene	11		4.4	ug/kg dry
2-Hexanone	---	U	86	ug/kg dry
1,2-Dibromoethane	---	U	4.4	ug/kg dry
Chlorobenzene	---	U	4.4	ug/kg dry
Ethylbenzene	---	U	4.4	ug/kg dry
m/p-Xylene	---	U	4.4	ug/kg dry
o-Xylene	---	U	4.4	ug/kg dry
Styrene	---	U	4.4	ug/kg dry
Isopropylbenzene	---	U	4.4	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.4	ug/kg dry
1,3-Dichlorobenzene	---	U	4.4	ug/kg dry
1,4-Dichlorobenzene	---	U	4.4	ug/kg dry
1,2-Dichlorobenzene	---	U	4.4	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.4	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.4	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

VOA GCMS

1,2,3-Trichlorobenzene	---	U	4.4	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.3	ug/kg dry
Benzaldehyde	---	U	106	ug/kg dry
Phenol	---	U	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	106	ug/kg dry
2-Chlorophenol	---	U	106	ug/kg dry
2-Methylphenol	---	U	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	106	ug/kg dry
Acetophenone	---	U	106	ug/kg dry
4-Methylphenol	---	U	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	106	ug/kg dry
Hexachloroethane	---	U	106	ug/kg dry
Nitrobenzene	---	U	106	ug/kg dry
Isophorone	---	U	106	ug/kg dry
2-Nitrophenol	---	U	106	ug/kg dry
2,4-Dimethylphenol	---	U	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	106	ug/kg dry
2,4-Dichlorophenol	---	U	106	ug/kg dry
Naphthalene	---	U	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry
Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U	106	ug/kg dry
2-Methylnaphthalene	---	U	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry
Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U	106	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

NVOA GCMS

2,4,5-Trichlorophenol	---	U	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	194		106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	887	ug/kg dry
4-Nitrophenol	---	U	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry
4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry
Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U	106	ug/kg dry
Phenanthrene	---	U	106	ug/kg dry
Anthracene	---	U	106	ug/kg dry
Carbazole	---	U	106	ug/kg dry
Di-N-Butyl Phthalate	---	U	106	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

NVOA GCMS

Fluoranthene	---	U	106	ug/kg dry
Pyrene	---	U	106	ug/kg dry
Butylbenzylphthalate	---	U	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U	106	ug/kg dry
Benzo(A)Anthracene	---	U	106	ug/kg dry
Chrysene	---	U	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	106	ug/kg dry
Di-N-Octyl Phthalate	---	U	106	ug/kg dry
Benzo(B)Fluoranthene	---	U	106	ug/kg dry
Benzo(K)Fluoranthene	---	U	106	ug/kg dry
Benzo(A)Pyrene	---	U	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U	106	ug/kg dry

Metals ICP

Aluminum	7200		8.8	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Arsenic	2.9		0.70	mg/kg dry
Barium	43		8.8	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	590		44	mg/kg dry
Chromium	7.5		0.44	mg/kg dry
Cobalt	4.5		1.8	mg/kg dry
Copper	7.8		0.88	mg/kg dry
Iron	11000		4.4	mg/kg dry
Lead	6.7		0.70	mg/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-09-A

Sample ID: 1606039-08

Metals ICP

Magnesium	1500		44	mg/kg dry
Manganese	420		0.44	mg/kg dry
Nickel	10		1.8	mg/kg dry
Potassium	340		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	---	U	0.88	mg/kg dry
Vanadium	10		1.8	mg/kg dry
Zinc	28		1.8	mg/kg dry

Field ID: KR-SB-11-A

Sample ID: 1606039-09

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	22	J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

VOA GCMS

Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry
Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	1600		49	ug/kg dry
2-Hexanone	---	U	91	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

VOA GCMS

Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	406		108	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

NVOA GCMS

4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	414		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	215		108	ug/kg dry
Acenaphthylene	400		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	901	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	203		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

NVOA GCMS

4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	699		108	ug/kg dry
Anthracene	272		108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	2520		108	ug/kg dry
Pyrene	2070		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	1920		108	ug/kg dry
Chrysene	1950		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	2720		108	ug/kg dry
Benzo(K)Fluoranthene	947		108	ug/kg dry
Benzo(A)Pyrene	1510		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1090		108	ug/kg dry
Dibenzo(A,H)Anthracene	297		108	ug/kg dry
Benzo(G,H,I)Perylene	793		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	950	NJ		ug/kg dry
11H-Benzo[b]fluorene	1260	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	922	NJ		ug/kg dry
Heptadecane, 2,6-dimethyl-	1960	NJ		ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

NVOA GCMS

Hexadecane, 2,6,10,14-tetra...	1170	NJ		ug/kg dry
Hexanoic acid, 2-ethyl-	4160	NJ		ug/kg dry
Phenanthrene, 2,5-dimethyl-	743	NJ		ug/kg dry
Phenanthrene, 2-methyl-	762	NJ		ug/kg dry
Tetrachloroethylene	4930	NJ		ug/kg dry

Metals ICP

Aluminum	5400		8.8	mg/kg dry
Antimony	4.1		1.8	mg/kg dry
Arsenic	8.0		0.71	mg/kg dry
Barium	44		8.8	mg/kg dry
Beryllium	0.28		0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	1300		44	mg/kg dry
Chromium	9.6		0.44	mg/kg dry
Cobalt	6.4		1.8	mg/kg dry
Copper	64		0.88	mg/kg dry
Iron	19000		4.4	mg/kg dry
Lead	79		0.71	mg/kg dry
Magnesium	1600		44	mg/kg dry
Manganese	370		0.44	mg/kg dry
Nickel	16		1.8	mg/kg dry
Potassium	320		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SB-11-A

Sample ID: 1606039-09

Metals ICP

Tin	8.8		0.88	mg/kg dry
Vanadium	10		1.8	mg/kg dry
Zinc	38		1.8	mg/kg dry

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

1,4-Dioxane	---	U	70.1	ug/kg dry
Benzaldehyde	---	U	105	ug/kg dry
Phenol	---	U	105	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	105	ug/kg dry
2-Chlorophenol	---	U	105	ug/kg dry
2-Methylphenol	---	U	105	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	105	ug/kg dry
Acetophenone	---	U	105	ug/kg dry
4-Methylphenol	---	U	105	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	105	ug/kg dry
Hexachloroethane	---	U	105	ug/kg dry
Nitrobenzene	---	U	105	ug/kg dry
Isophorone	---	U	105	ug/kg dry
2-Nitrophenol	---	U	105	ug/kg dry
2,4-Dimethylphenol	---	U	105	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	105	ug/kg dry
2,4-Dichlorophenol	---	U	105	ug/kg dry
Naphthalene	---	U	105	ug/kg dry
4-Chloroaniline	---	U	105	ug/kg dry
Hexachlorobutadiene	---	U	105	ug/kg dry
Caprolactam	---	U	105	ug/kg dry
4-Chloro-3-Methylphenol	---	U	105	ug/kg dry
2-Methylnaphthalene	---	U	105	ug/kg dry

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

1,2,4,5-Tetrachlorobenzene	---	U	105	ug/kg dry
Hexachlorocyclopentadiene	---	U	105	ug/kg dry
2,4,6-Trichlorophenol	---	U	105	ug/kg dry
2,4,5-Trichlorophenol	---	U	105	ug/kg dry
Biphenyl	---	U	105	ug/kg dry
2-Chloronaphthalene	---	U	105	ug/kg dry
2-Nitroaniline	---	U	105	ug/kg dry
Dimethyl Phthalate	116		105	ug/kg dry
Acenaphthylene	108		105	ug/kg dry
2,6-Dinitrotoluene	---	U	105	ug/kg dry
3-Nitroaniline	---	U	105	ug/kg dry
Acenaphthene	108		105	ug/kg dry
2,4-Dinitrophenol	---	U J	872	ug/kg dry
4-Nitrophenol	---	U	105	ug/kg dry
Dibenzofuran	---	U	105	ug/kg dry
2,4-Dinitrotoluene	---	U	105	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	105	ug/kg dry
Fluorene	192		105	ug/kg dry
Diethylphthalate	---	U	105	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	105	ug/kg dry
4-Nitroaniline	---	U	105	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	105	ug/kg dry
N-Nitrosodiphenylamine	---	U	105	ug/kg dry
4-Bromophenyl-Phenylether	---	U	105	ug/kg dry
Hexachlorobenzene	---	U	105	ug/kg dry
Atrazine	---	U	105	ug/kg dry
Pentachlorophenol	---	U	105	ug/kg dry
Phenanthrene	2960		105	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

Anthracene	1980		105	ug/kg dry
Carbazole	344		105	ug/kg dry
Di-N-Butyl Phthalate	---	U	105	ug/kg dry
Fluoranthene	8210		523	ug/kg dry
Pyrene	6050		523	ug/kg dry
Butylbenzylphthalate	---	U	105	ug/kg dry
3,3'- Dichlorobenzidine	---	U	105	ug/kg dry
Benzo(A)Anthracene	2950		105	ug/kg dry
Chrysene	3750		523	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	105	ug/kg dry
Di-N-Octyl Phthalate	---	U	105	ug/kg dry
Benzo(B)Fluoranthene	3600		523	ug/kg dry
Benzo(K)Fluoranthene	1220		105	ug/kg dry
Benzo(A)Pyrene	1580		105	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	876		105	ug/kg dry
Dibenzo(A,H)Anthracene	216		105	ug/kg dry
Benzo(G,H,I)Perylene	627		105	ug/kg dry
11H-Benzo[a]fluoren-11-one (01)	1420	NJ		ug/kg dry
11H-Benzo[b]fluorene	1500	NJ		ug/kg dry
4H-Cyclopenta[def]phenanthrene	1340	NJ		ug/kg dry
Benzo[b]naphtho[2,3-d]thiop...	888	NJ		ug/kg dry
Phenanthrene, 2-methyl-	895	NJ		ug/kg dry
Pyrene, 1-methyl-	1060	NJ		ug/kg dry

Metals ICP

Aluminum	5700		8.6	mg/kg dry
Antimony	3.7		1.7	mg/kg dry

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-09-A

Sample ID: 1606039-10

Metals ICP

Arsenic	7.2		0.69	mg/kg dry
Barium	46		8.6	mg/kg dry
Beryllium	0.28		0.26	mg/kg dry
Cadmium	0.36		0.26	mg/kg dry
Calcium	11000		43	mg/kg dry
Chromium	9.4		0.43	mg/kg dry
Cobalt	6.6		1.7	mg/kg dry
Copper	77		0.86	mg/kg dry
Iron	20000		4.3	mg/kg dry
Lead	170		0.69	mg/kg dry
Magnesium	2000		43	mg/kg dry
Manganese	410		0.43	mg/kg dry
Nickel	15		1.7	mg/kg dry
Potassium	390		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	86	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	10		0.86	mg/kg dry
Vanadium	11		1.7	mg/kg dry
Zinc	58		1.7	mg/kg dry

Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

Dichlorodifluoromethane	---	U	6.0	ug/kg dry
Chloromethane	6.3		6.0	ug/kg dry
Vinyl Chloride	---	U	6.0	ug/kg dry

DRAFT REPORT

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

Bromomethane	---	U J	150	ug/kg dry
Chloroethane	---	U	6.0	ug/kg dry
Trichlorofluoromethane	---	U	6.0	ug/kg dry
1,1-Dichloroethene	---	U	6.0	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	6.0	ug/kg dry
Carbon Disulfide	---	U	6.0	ug/kg dry
Acetone	33	J	12	ug/kg dry
Methyl Acetate	6.1	J	6.0	ug/kg dry
Methylene Chloride	---	U	6.0	ug/kg dry
trans-1,2-Dichloroethene	---	U	6.0	ug/kg dry
cis-1,2-Dichloroethene	---	U	6.0	ug/kg dry
Methyl tert-Butyl Ether	---	U L	6.0	ug/kg dry
1,1-Dichloroethane	---	U	6.0	ug/kg dry
2-Butanone	---	U	12	ug/kg dry
Bromochloromethane	---	U	6.0	ug/kg dry
Chloroform	---	U	6.0	ug/kg dry
1,2-Dichloroethane	---	U	6.0	ug/kg dry
1,1,1-Trichloroethane	---	U	6.0	ug/kg dry
Cyclohexane	---	U	6.0	ug/kg dry
Carbon Tetrachloride	---	U	6.0	ug/kg dry
Benzene	---	U	6.0	ug/kg dry
Trichloroethene	11		6.0	ug/kg dry
Methylcyclohexane	---	U	6.0	ug/kg dry
1,2-Dichloropropane	---	U J	6.0	ug/kg dry
Bromodichloromethane	---	U	6.0	ug/kg dry
cis-1,3-Dichloropropene	---	U	12	ug/kg dry
trans-1,3-Dichloropropene	---	U	6.0	ug/kg dry
1,1,2-Trichloroethane	---	U	6.0	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

Dibromochloromethane	---	U	6.0	ug/kg dry
Bromoform	---	U	6.0	ug/kg dry
4-Methyl-2-Pentanone	---	U J	12	ug/kg dry
Toluene	---	U J	6.0	ug/kg dry
Tetrachloroethene	830	K	33	ug/kg dry
2-Hexanone	---	U J	120	ug/kg dry
1,2-Dibromoethane	---	U J	6.0	ug/kg dry
Chlorobenzene	---	U J	6.0	ug/kg dry
Ethylbenzene	---	U J	6.0	ug/kg dry
m/p-Xylene	---	U J	6.0	ug/kg dry
o-Xylene	---	U J	6.0	ug/kg dry
Styrene	---	U J	6.0	ug/kg dry
Isopropylbenzene	---	U J	6.0	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U J	6.0	ug/kg dry
1,3-Dichlorobenzene	---	U J	6.0	ug/kg dry
1,4-Dichlorobenzene	---	U J	6.0	ug/kg dry
1,2-Dichlorobenzene	---	U J	6.0	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U J	6.0	ug/kg dry
1,2,4-Trichlorobenzene	---	U J	6.0	ug/kg dry
1,2,3-Trichlorobenzene	---	U J	6.0	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

NVOA GCMS

Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	300		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	280		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	142		108	ug/kg dry
Acenaphthylene	395		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

NVOA GCMS

2,4-Dinitrophenol	---	U J	902	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	175		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	793		108	ug/kg dry
Anthracene	311		108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	2780		108	ug/kg dry
Pyrene	2290		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	2040		108	ug/kg dry
Chrysene	1900		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	2910		108	ug/kg dry

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

NVOA GCMS

Benzo(K)Fluoranthene	866		108	ug/kg dry
Benzo(A)Pyrene	1500		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1010		108	ug/kg dry
Dibenzo(A,H)Anthracene	277		108	ug/kg dry
Benzo(G,H,I)Perylene	686		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	1020	NJ		ug/kg dry
11H-Benzo[b]fluorene	1230	NJ		ug/kg dry
Heptadecane, 2,6-dimethyl-	2370	NJ		ug/kg dry
Heptadecane, 4-methyl-	710	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1820	NJ		ug/kg dry
Hexanoic acid, 2-ethyl-	2850	NJ		ug/kg dry
Phenanthrene, 2-methyl-	706	NJ		ug/kg dry
Tetrachloroethylene	1760	NJ		ug/kg dry
Triphenylene, 2-methyl-	1010	NJ		ug/kg dry

Metals ICP

Aluminum	5500		8.0	mg/kg dry
Antimony	3.8		1.6	mg/kg dry
Arsenic	6.2		0.64	mg/kg dry
Barium	50		8.0	mg/kg dry
Beryllium	0.29		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	1100		40	mg/kg dry
Chromium	9.6		0.40	mg/kg dry
Cobalt	6.6		1.6	mg/kg dry
Copper	63		0.80	mg/kg dry
Iron	19000		4.0	mg/kg dry

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: SB-900-B

Sample ID: 1606039-11

Metals ICP

Lead	76		0.64	mg/kg dry
Magnesium	1500		40	mg/kg dry
Manganese	420		0.40	mg/kg dry
Nickel	17		1.6	mg/kg dry
Potassium	320		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	80	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	8.3		0.80	mg/kg dry
Vanadium	10		1.6	mg/kg dry
Zinc	38		1.6	mg/kg dry

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	43		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U J	0.50	ug/L
o-Xylene	---	U	0.50	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

NVOA GCMS

Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

NVOA GCMS

N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Phenol, 2-methoxy-	13	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

Metals ICP

Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	36		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.2	ug/L
Benzaldehyde	---	U	5.4	ug/L
Phenol	---	U	5.4	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.4	ug/L
2-Chlorophenol	---	U	5.4	ug/L
2-Methylphenol	---	U	5.4	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.4	ug/L
Acetophenone	---	U	5.4	ug/L
4-Methylphenol	---	U	5.4	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.4	ug/L
Hexachloroethane	---	U	5.4	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

NVOA GCMS

Nitrobenzene	---	U	5.4	ug/L
Isophorone	---	U	5.4	ug/L
2-Nitrophenol	---	U	5.4	ug/L
2,4-Dimethylphenol	---	U	5.4	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.4	ug/L
2,4-Dichlorophenol	---	U	5.4	ug/L
Naphthalene	---	U	5.4	ug/L
4-Chloroaniline	---	U	5.4	ug/L
Hexachlorobutadiene	---	U	5.4	ug/L
Caprolactam	---	U	5.4	ug/L
4-Chloro-3-Methylphenol	---	U	5.4	ug/L
2-Methylnaphthalene	---	U	5.4	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.4	ug/L
Hexachlorocyclopentadiene	---	U	5.4	ug/L
2,4,6-Trichlorophenol	---	U	5.4	ug/L
2,4,5-Trichlorophenol	---	U	5.4	ug/L
Biphenyl	---	U	5.4	ug/L
2-Chloronaphthalene	---	U	5.4	ug/L
2-Nitroaniline	---	U	5.4	ug/L
Dimethyl Phthalate	---	U	5.4	ug/L
Acenaphthylene	---	U	5.4	ug/L
2,6-Dinitrotoluene	---	U	5.4	ug/L
3-Nitroaniline	---	U	5.4	ug/L
Acenaphthene	---	U	5.4	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.4	ug/L
Dibenzofuran	---	U	5.4	ug/L
2,4-Dinitrotoluene	---	U	5.4	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

NVOA GCMS

2,3,4,6-Tetrachlorophenol	---	U	5.4	ug/L
Fluorene	---	U	5.4	ug/L
Diethylphthalate	---	U	5.4	ug/L
4-Chlorophenyl-Phenylether	---	U	5.4	ug/L
4-Nitroaniline	---	U	5.4	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.4	ug/L
N-Nitrosodiphenylamine	---	U	5.4	ug/L
4-Bromophenyl-Phenylether	---	U	5.4	ug/L
Hexachlorobenzene	---	U	5.4	ug/L
Atrazine	---	U	5.4	ug/L
Pentachlorophenol	---	U	5.4	ug/L
Phenanthrene	---	U	5.4	ug/L
Anthracene	---	U	5.4	ug/L
Carbazole	---	U	5.4	ug/L
Di-N-Butyl Phthalate	---	U	5.4	ug/L
Fluoranthene	---	U	5.4	ug/L
Pyrene	---	U	5.4	ug/L
Butylbenzylphthalate	---	U	5.4	ug/L
3,3'- Dichlorobenzidine	---	U	5.4	ug/L
Benzo(A)Anthracene	---	U	5.4	ug/L
Chrysene	---	U	5.4	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.4	ug/L
Di-N-Octyl Phthalate	---	U	5.4	ug/L
Benzo(B)Fluoranthene	---	U	5.4	ug/L
Benzo(K)Fluoranthene	---	U	5.4	ug/L
Benzo(A)Pyrene	---	U	5.4	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.4	ug/L
Dibenzo(A,H)Anthracene	---	U	5.4	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

NVOA GCMS

Benzo(G,H,I)Perylene	---	U	5.4	ug/L
Phenol, 2-methoxy-	14	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	24		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	170		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

NVOA GCMS

2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

NVOA GCMS

3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

NVOA GCMS

Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Tetrachloroethylene	34	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	38000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	4600		500	ug/L
Manganese	27		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3100		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	84000		1000	ug/L

DRAFT REPORT

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: GW-900-1

Sample ID: 1606044-02

Metals ICP

Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-01-1

Sample ID: 1606044-03

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

VOA-TRACE GCMS

1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	14		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	4.2		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U L	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U L	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L

DRAFT REPORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

NVOA GCMS

2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U L	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U L	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U L	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U L	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

NVOA GCMS

Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	43000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	2700		500	ug/L
Manganese	120		5.0	ug/L
Nickel	---	U	20	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

Metals ICP

Potassium	3700		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	88000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	24		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	180		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.0	ug/L
Benzaldehyde	---	U	5.0	ug/L
Phenol	---	U	5.0	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.0	ug/L
2-Chlorophenol	---	U	5.0	ug/L
2-Methylphenol	---	U	5.0	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.0	ug/L
Acetophenone	---	U	5.0	ug/L
4-Methylphenol	---	U	5.0	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.0	ug/L
Hexachloroethane	---	U	5.0	ug/L
Nitrobenzene	---	U	5.0	ug/L
Isophorone	---	U	5.0	ug/L
2-Nitrophenol	---	U	5.0	ug/L
2,4-Dimethylphenol	---	U	5.0	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.0	ug/L
2,4-Dichlorophenol	---	U	5.0	ug/L
Naphthalene	---	U	5.0	ug/L
4-Chloroaniline	---	U	5.0	ug/L
Hexachlorobutadiene	---	U	5.0	ug/L
Caprolactam	---	U	5.0	ug/L
4-Chloro-3-Methylphenol	---	U	5.0	ug/L
2-Methylnaphthalene	---	U	5.0	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

NVOA GCMS

1,2,4,5-Tetrachlorobenzene	---	U	5.0	ug/L
Hexachlorocyclopentadiene	---	U	5.0	ug/L
2,4,6-Trichlorophenol	---	U	5.0	ug/L
2,4,5-Trichlorophenol	---	U	5.0	ug/L
Biphenyl	---	U	5.0	ug/L
2-Chloronaphthalene	---	U	5.0	ug/L
2-Nitroaniline	---	U	5.0	ug/L
Dimethyl Phthalate	---	U	5.0	ug/L
Acenaphthylene	---	U	5.0	ug/L
2,6-Dinitrotoluene	---	U	5.0	ug/L
3-Nitroaniline	---	U	5.0	ug/L
Acenaphthene	---	U	5.0	ug/L
2,4-Dinitrophenol	---	U	25	ug/L
4-Nitrophenol	---	U	5.0	ug/L
Dibenzofuran	---	U	5.0	ug/L
2,4-Dinitrotoluene	---	U	5.0	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.0	ug/L
Fluorene	---	U	5.0	ug/L
Diethylphthalate	---	U	5.0	ug/L
4-Chlorophenyl-Phenylether	---	U	5.0	ug/L
4-Nitroaniline	---	U	5.0	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.0	ug/L
N-Nitrosodiphenylamine	---	U	5.0	ug/L
4-Bromophenyl-Phenylether	---	U	5.0	ug/L
Hexachlorobenzene	---	U	5.0	ug/L
Atrazine	---	U	5.0	ug/L
Pentachlorophenol	---	U	5.0	ug/L
Phenanthrene	---	U	5.0	ug/L

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Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

NVOA GCMS

Anthracene	---	U	5.0	ug/L
Carbazole	---	U	5.0	ug/L
Di-N-Butyl Phthalate	---	U	5.0	ug/L
Fluoranthene	---	U	5.0	ug/L
Pyrene	---	U	5.0	ug/L
Butylbenzylphthalate	---	U	5.0	ug/L
3,3'- Dichlorobenzidine	---	U	5.0	ug/L
Benzo(A)Anthracene	---	U	5.0	ug/L
Chrysene	---	U	5.0	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.0	ug/L
Di-N-Octyl Phthalate	---	U	5.0	ug/L
Benzo(B)Fluoranthene	---	U	5.0	ug/L
Benzo(K)Fluoranthene	---	U	5.0	ug/L
Benzo(A)Pyrene	---	U	5.0	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.0	ug/L
Dibenzo(A,H)Anthracene	---	U	5.0	ug/L
Benzo(G,H,I)Perylene	---	U	5.0	ug/L
Tetrachloroethylene	38	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	39000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L

DRAFT REPORT

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-02-1

Sample ID: 1606044-04

Metals ICP

Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	4700		500	ug/L
Manganese	28		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3200		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	84000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-03-1

Sample ID: 1606044-05

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

VOA-TRACE GCMS

trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	23		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	120		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L

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Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

VOA-TRACE GCMS

o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U L	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U L	5.3	ug/L
2-Methylphenol	---	U L	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U L	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U L	5.3	ug/L
2,4-Dimethylphenol	---	U L	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

NVOA GCMS

2,4-Dichlorophenol	---	U L	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U L	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

NVOA GCMS

4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Tetrachloroethylene	14	NJ		ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L

DRAFT REPORT

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Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-03-1

Sample ID: 1606044-05

Metals ICP

Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	39000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	3700		500	ug/L
Manganese	60		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3000		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	58000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 8/3/2016

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	36		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Reported: 8/3/2016

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

DRAFT REPORT

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 8/3/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

August 18, 2016

Scott Kirchner
CDM Smith
110 Fieldcrest Avenue, 6th Floor
Edison, NJ 08837

RE: Kingston Rail Yard - 1606029

Enclosed are the results of analyses for samples received by the laboratory between 6/15/2016 and 6/17/2016. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1606029 and contact the laboratory.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Bourbon", is located below the "Sincerely," text.

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs), where applicable, for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The Reporting Limits for Bromomethane, cis-1,3-Dichloropropane and 2-Hexanone were raised due to problems associated with the initial calibration curve in all samples.

Semi-Volatile Organic Compounds: The Reporting Limit for 2,4-Dinitrophenol was raised accordingly due to problems associated with the initial calibration curve in all samples.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Kingston Rail Yard - 1606029

Project Number: 1606029



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
KR-SS-01-A	1606029-01	Solid	06/14/2016 10:40	06/15/2016 11:00
KR-SS-02-A	1606029-02	Solid	06/14/2016 11:00	06/15/2016 11:00
KR-SS-03-A	1606029-03	Solid	06/14/2016 11:15	06/15/2016 11:00
KR-SS-04-A	1606029-04	Solid	06/14/2016 12:00	06/15/2016 11:00
KR-SS-05-A	1606029-05	Solid	06/14/2016 12:15	06/15/2016 11:00
KR-SS-06-A	1606029-06	Solid	06/14/2016 12:20	06/15/2016 11:00
KR-SS-07-A	1606029-07	Solid	06/14/2016 13:40	06/15/2016 11:00
KR-SS-08-A	1606029-08	Solid	06/14/2016 13:45	06/15/2016 11:00
KR-SS-10-A	1606029-09	Solid	06/14/2016 15:20	06/15/2016 11:00
KR-SS-11-A	1606029-10	Solid	06/14/2016 14:30	06/15/2016 11:00
KR-SB-01-A	1606029-11	Solid	06/14/2016 13:45	06/15/2016 11:00
KR-SB-06-A	1606029-12	Solid	06/14/2016 14:40	06/15/2016 11:00
KR-SB-10-A	1606029-13	Solid	06/14/2016 15:40	06/15/2016 11:00
KR-SB-02-A	1606039-01	Solid	06/15/2016 08:15	06/16/2016 11:00
KR-SB-03-A	1606039-02	Solid	06/15/2016 08:45	06/16/2016 11:00
KR-SB-04-A	1606039-03	Solid	06/15/2016 09:20	06/16/2016 11:00
KR-SB-05-A	1606039-04	Solid	06/15/2016 10:15	06/16/2016 11:00
KR-SB-07-A	1606039-05	Solid	06/15/2016 10:45	06/16/2016 11:00
KR-SB-08-A	1606039-06	Solid	06/15/2016 11:20	06/16/2016 11:00
SB-900-A	1606039-07	Solid	06/15/2016 10:50	06/16/2016 11:00
KR-SB-09-A	1606039-08	Solid	06/15/2016 13:10	06/16/2016 11:00
KR-SB-11-A	1606039-09	Solid	06/15/2016 11:55	06/16/2016 11:00
KR-SS-09-A	1606039-10	Solid	06/15/2016 12:50	06/16/2016 11:00
SB-900-B	1606039-11	Solid	06/15/2016 12:00	06/16/2016 11:00
FB-SB-A	1606039-12	Aqueous	06/15/2016 12:30	06/16/2016 11:00
FB-GW-B	1606044-01	Aqueous	06/16/2016 11:05	06/17/2016 10:30
GW-900-1	1606044-02	Aqueous	06/16/2016 12:00	06/17/2016 10:30
KR-GW-01-1	1606044-03	Aqueous	06/16/2016 10:00	06/17/2016 10:30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
KR-GW-02-1	1606044-04	Aqueous	06/16/2016 12:00	06/17/2016 10:30
KR-GW-03-1	1606044-05	Aqueous	06/16/2016 14:00	06/17/2016 10:30
TB-01	1606044-06	Aqueous	06/16/2016 09:45	06/17/2016 10:30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Kingston Rail Yard - 1606029

Project Number: 1606029

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Aqueous
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Solid
E-SVOA TCL	EPA 625 SOP C-90 Rev 3.5		Aqueous
E-SVOA TCL	EPA 625 SOP C-90 Rev 3.5		Solid
PCB Aroclors TCL	EPA 608 SOP C-91 Rev4.0		Aqueous
PCB Aroclors TCL	EPA 608 SOP C-91 Rev4.0		Solid
VOA Low Level Soil	SOM 2.2 SOP C-123 Rev2.5	NELAP	Solid
VOA Trace/SF	EPA DW-1 Rev 2.4	NELAP	Aqueous



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report
Project: Kingston Rail Yard - 1606029
Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

NVOA GCMS

1,4-Dioxane	---	U	68.0	ug/kg dry
Benzaldehyde	---	U	102	ug/kg dry
Phenol	110		102	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	102	ug/kg dry
2-Chlorophenol	---	U	102	ug/kg dry
2-Methylphenol	---	U	102	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	102	ug/kg dry
Acetophenone	---	U	102	ug/kg dry
4-Methylphenol	117		102	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	102	ug/kg dry
Hexachloroethane	---	U	102	ug/kg dry
Nitrobenzene	---	U	102	ug/kg dry
Isophorone	---	U	102	ug/kg dry
2-Nitrophenol	---	U	102	ug/kg dry
2,4-Dimethylphenol	---	U	102	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	102	ug/kg dry
2,4-Dichlorophenol	---	U	102	ug/kg dry
Naphthalene	856		102	ug/kg dry
4-Chloroaniline	---	U	102	ug/kg dry
Hexachlorobutadiene	---	U	102	ug/kg dry
Caprolactam	---	U	102	ug/kg dry
4-Chloro-3-Methylphenol	---	U	102	ug/kg dry
2-Methylnaphthalene	602		102	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	102	ug/kg dry
Hexachlorocyclopentadiene	---	U	102	ug/kg dry
2,4,6-Trichlorophenol	---	U	102	ug/kg dry
2,4,5-Trichlorophenol	---	U	102	ug/kg dry
Biphenyl	307		102	ug/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Final Report
Project: Kingston Rail Yard - 1606029
Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

NVOA GCMS

2-Chloronaphthalene	---	U	102	ug/kg dry
2-Nitroaniline	---	U	102	ug/kg dry
Dimethyl Phthalate	---	U	102	ug/kg dry
Acenaphthylene	158		102	ug/kg dry
2,6-Dinitrotoluene	---	U	102	ug/kg dry
3-Nitroaniline	---	U	102	ug/kg dry
Acenaphthene	468		102	ug/kg dry
2,4-Dinitrophenol	---	U J	338	ug/kg dry
4-Nitrophenol	---	U	102	ug/kg dry
Dibenzofuran	1250		102	ug/kg dry
2,4-Dinitrotoluene	---	U	102	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	102	ug/kg dry
Fluorene	367		102	ug/kg dry
Diethylphthalate	---	U	102	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	102	ug/kg dry
4-Nitroaniline	---	U	102	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	102	ug/kg dry
N-Nitrosodiphenylamine	---	U	102	ug/kg dry
4-Bromophenyl-Phenylether	---	U	102	ug/kg dry
Hexachlorobenzene	---	U	102	ug/kg dry
Atrazine	---	U	102	ug/kg dry
Pentachlorophenol	---	U	102	ug/kg dry
Phenanthrene	1890		102	ug/kg dry
Anthracene	350		102	ug/kg dry
Carbazole	228		102	ug/kg dry
Di-N-Butyl Phthalate	---	U	102	ug/kg dry
Fluoranthene	2970		102	ug/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Final Report
Project: Kingston Rail Yard - 1606029
Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

NVOA GCMS

Pyrene	1880		102	ug/kg dry
Butylbenzylphthalate	---	U	102	ug/kg dry
3,3'- Dichlorobenzidine	---	U	102	ug/kg dry
Benzo(A)Anthracene	1060		102	ug/kg dry
Chrysene	1160		102	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	102	ug/kg dry
Di-N-Octyl Phthalate	---	U	102	ug/kg dry
Benzo(B)Fluoranthene	2190		102	ug/kg dry
Benzo(K)Fluoranthene	599		102	ug/kg dry
Benzo(A)Pyrene	684		102	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	851		102	ug/kg dry
Dibenzo(A,H)Anthracene	220		102	ug/kg dry
Benzo(G,H,I)Perylene	620		102	ug/kg dry
1,8-Naphthalic anhydride	711	NJ		ug/kg dry
11H-Benzo[a]fluoren-11-one	758	NJ		ug/kg dry
7H-Benz[de]anthracen-7-one	811	NJ		ug/kg dry
9,10-Anthracenedione	649	NJ		ug/kg dry
Acenaphtho(1,2-B)pyridine	869	NJ		ug/kg dry
Cyclopenta(def)phenanthrenone	887	NJ		ug/kg dry
Naphthalene, 1-methyl-	628	NJ		ug/kg dry
Perylene	1040	NJ		ug/kg dry
Phthalic anhydride	779	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report
Project: Kingston Rail Yard - 1606029
Project Number: 1606029

Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

PCB Aroclors GC

Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	2800		17	mg/kg dry
Antimony	12		3.3	mg/kg dry
Arsenic	120		1.3	mg/kg dry
Barium	92		17	mg/kg dry
Beryllium	0.66		0.50	mg/kg dry
Cadmium	5.4		0.50	mg/kg dry
Calcium	2300		83	mg/kg dry
Chromium	190		0.83	mg/kg dry
Cobalt	35		3.3	mg/kg dry
Copper	460		1.7	mg/kg dry
Iron	350000		83	mg/kg dry
Lead	94		1.3	mg/kg dry
Magnesium	350		83	mg/kg dry
Manganese	1300		0.83	mg/kg dry
Nickel	160		3.3	mg/kg dry
Potassium	410		83	mg/kg dry
Selenium	31		3.3	mg/kg dry
Silver	---	U	0.83	mg/kg dry
Sodium	410		170	mg/kg dry



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Field ID: KR-SS-01-A

Sample ID: 1606029-01

Metals ICP

Thallium	---	U	3.3	mg/kg dry
Tin	34		1.7	mg/kg dry
Vanadium	27		3.3	mg/kg dry
Zinc	70		3.3	mg/kg dry

Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

1,4-Dioxane	---	U	73.2	ug/kg dry
Benzaldehyde	---	U	109	ug/kg dry
Phenol	---	U	109	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	109	ug/kg dry
2-Chlorophenol	---	U	109	ug/kg dry
2-Methylphenol	---	U	109	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	109	ug/kg dry
Acetophenone	---	U	109	ug/kg dry
4-Methylphenol	---	U	109	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	109	ug/kg dry
Hexachloroethane	---	U	109	ug/kg dry
Nitrobenzene	---	U	109	ug/kg dry
Isophorone	---	U	109	ug/kg dry
2-Nitrophenol	---	U	109	ug/kg dry
2,4-Dimethylphenol	---	U	109	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	109	ug/kg dry
2,4-Dichlorophenol	---	U	109	ug/kg dry
Naphthalene	212		109	ug/kg dry
4-Chloroaniline	---	U	109	ug/kg dry
Hexachlorobutadiene	---	U	109	ug/kg dry
Caprolactam	---	U	109	ug/kg dry



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Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

4-Chloro-3-Methylphenol	---	U	109	ug/kg dry
2-Methylnaphthalene	179		109	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	109	ug/kg dry
Hexachlorocyclopentadiene	---	U	109	ug/kg dry
2,4,6-Trichlorophenol	---	U	109	ug/kg dry
2,4,5-Trichlorophenol	---	U	109	ug/kg dry
Biphenyl	---	U	109	ug/kg dry
2-Chloronaphthalene	---	U	109	ug/kg dry
2-Nitroaniline	---	U	109	ug/kg dry
Dimethyl Phthalate	---	U	109	ug/kg dry
Acenaphthylene	850		109	ug/kg dry
2,6-Dinitrotoluene	---	U	109	ug/kg dry
3-Nitroaniline	---	U	109	ug/kg dry
Acenaphthene	---	U	109	ug/kg dry
2,4-Dinitrophenol	---	U J	364	ug/kg dry
4-Nitrophenol	---	U	109	ug/kg dry
Dibenzofuran	154		109	ug/kg dry
2,4-Dinitrotoluene	---	U	109	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	109	ug/kg dry
Fluorene	137		109	ug/kg dry
Diethylphthalate	---	U	109	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	109	ug/kg dry
4-Nitroaniline	---	U	109	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	109	ug/kg dry
N-Nitrosodiphenylamine	---	U	109	ug/kg dry
4-Bromophenyl-Phenylether	---	U	109	ug/kg dry
Hexachlorobenzene	---	U	109	ug/kg dry
Atrazine	---	U	109	ug/kg dry



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NVOA GCMS

Pentachlorophenol	---	U	109	ug/kg dry
Phenanthrene	1510		109	ug/kg dry
Anthracene	849		109	ug/kg dry
Carbazole	316		109	ug/kg dry
Di-N-Butyl Phthalate	---	U	109	ug/kg dry
Fluoranthene	5260		546	ug/kg dry
Pyrene	4430		546	ug/kg dry
Butylbenzylphthalate	---	U	109	ug/kg dry
3,3'- Dichlorobenzidine	---	U	109	ug/kg dry
Benzo(A)Anthracene	4470		546	ug/kg dry
Chrysene	4520		546	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	109	ug/kg dry
Di-N-Octyl Phthalate	---	U	109	ug/kg dry
Benzo(B)Fluoranthene	6640		546	ug/kg dry
Benzo(K)Fluoranthene	1590		109	ug/kg dry
Benzo(A)Pyrene	3070		109	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1640		109	ug/kg dry
Dibenzo(A,H)Anthracene	451		109	ug/kg dry
Benzo(G,H,I)Perylene	1170		109	ug/kg dry
11H-Benzo[a]fluoren-11-one (01)	1870	NJ		ug/kg dry
11H-Benzo[a]fluorene	875	NJ		ug/kg dry
Benzo[b]naphtho[2,3-d]thiop...	955	NJ		ug/kg dry
Pyrene, 1-methyl-	1220	NJ		ug/kg dry
Pyrene, 2-methyl- (01)	1220	NJ		ug/kg dry
Tetrachloroethylene	2830	NJ		ug/kg dry
Triphenylene, 2-methyl-	1510	NJ		ug/kg dry



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Sample ID: 1606029-02

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	6000		8.2	mg/kg dry
Antimony	1.7		1.6	mg/kg dry
Arsenic	9.7		0.66	mg/kg dry
Barium	53		8.2	mg/kg dry
Beryllium	0.38		0.25	mg/kg dry
Cadmium	0.68		0.25	mg/kg dry
Calcium	10000		41	mg/kg dry
Chromium	12		0.41	mg/kg dry
Cobalt	7.4		1.6	mg/kg dry
Copper	53		0.82	mg/kg dry
Iron	19000		4.1	mg/kg dry
Lead	130		0.66	mg/kg dry
Magnesium	2000		41	mg/kg dry
Manganese	400		0.41	mg/kg dry
Nickel	16		1.6	mg/kg dry
Potassium	410		41	mg/kg dry
Selenium	---	U	1.6	mg/kg dry



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Sample ID: 1606029-02

Metals ICP

Silver	---	U	0.41	mg/kg dry
Sodium	---	U	82	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	6.1		0.82	mg/kg dry
Vanadium	14		1.6	mg/kg dry
Zinc	190		1.6	mg/kg dry

Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

1,4-Dioxane	---	U L	130	ug/kg dry
Benzaldehyde	---	U L	195	ug/kg dry
Phenol	---	U L	195	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	195	ug/kg dry
2-Chlorophenol	---	U L	195	ug/kg dry
2-Methylphenol	---	U L	195	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	195	ug/kg dry
Acetophenone	---	U L	195	ug/kg dry
4-Methylphenol	---	U L	195	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	195	ug/kg dry
Hexachloroethane	---	U L	195	ug/kg dry
Nitrobenzene	---	U L	195	ug/kg dry
Isophorone	---	U L	195	ug/kg dry
2-Nitrophenol	---	U L	195	ug/kg dry
2,4-Dimethylphenol	---	U L	195	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	195	ug/kg dry
2,4-Dichlorophenol	---	U L	195	ug/kg dry
Naphthalene	---	U L	195	ug/kg dry
4-Chloroaniline	---	U L	195	ug/kg dry
Hexachlorobutadiene	---	U L	195	ug/kg dry



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Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

Caprolactam	---	U L	195	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	195	ug/kg dry
2-Methylnaphthalene	---	U L	195	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U L	195	ug/kg dry
Hexachlorocyclopentadiene	---	U L	195	ug/kg dry
2,4,6-Trichlorophenol	---	U L	195	ug/kg dry
2,4,5-Trichlorophenol	---	U L	195	ug/kg dry
Biphenyl	---	U L	195	ug/kg dry
2-Chloronaphthalene	---	U L	195	ug/kg dry
2-Nitroaniline	---	U L	195	ug/kg dry
Dimethyl Phthalate	---	U L	195	ug/kg dry
Acenaphthylene	---	U L	195	ug/kg dry
2,6-Dinitrotoluene	---	U L	195	ug/kg dry
3-Nitroaniline	---	U L	195	ug/kg dry
Acenaphthene	1190	L	195	ug/kg dry
2,4-Dinitrophenol	---	U J	648	ug/kg dry
4-Nitrophenol	---	U L	195	ug/kg dry
Dibenzofuran	720	L	195	ug/kg dry
2,4-Dinitrotoluene	---	U L	195	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U L	195	ug/kg dry
Fluorene	1130	L	195	ug/kg dry
Diethylphthalate	---	U L	195	ug/kg dry
4-Chlorophenyl-Phenylether	---	U L	195	ug/kg dry
4-Nitroaniline	---	U L	195	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	195	ug/kg dry
N-Nitrosodiphenylamine	---	U L	195	ug/kg dry
4-Bromophenyl-Phenylether	---	U L	195	ug/kg dry
Hexachlorobenzene	---	U L	195	ug/kg dry



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NVOA GCMS

Atrazine	---	U L	195	ug/kg dry
Pentachlorophenol	---	U L	195	ug/kg dry
Phenanthrene	7560	L	1950	ug/kg dry
Anthracene	2240	L	195	ug/kg dry
Carbazole	656	L	195	ug/kg dry
Di-N-Butyl Phthalate	---	U L	195	ug/kg dry
Fluoranthene	23300	L	1950	ug/kg dry
Pyrene	12500	L	1950	ug/kg dry
Butylbenzylphthalate	---	U L	195	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	195	ug/kg dry
Benzo(A)Anthracene	1520	L	195	ug/kg dry
Chrysene	6170	L	195	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	3020	K, L	195	ug/kg dry
Di-N-Octyl Phthalate	---	U L	195	ug/kg dry
Benzo(B)Fluoranthene	---	U L	195	ug/kg dry
Benzo(K)Fluoranthene	---	U L	195	ug/kg dry
Benzo(A)Pyrene	---	U L	195	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	195	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	195	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	195	ug/kg dry
2-Phenylnaphthalene	1010	NJ		ug/kg dry
9,10-Anthracenedione	2300	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	2310	NJ		ug/kg dry
Pentadecane, 2,6,10-trimethyl-	929	NJ		ug/kg dry



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Field ID: KR-SS-03-A

Sample ID: 1606029-03

PCB Aroclors GC

Aroclor 1016	---	U J	41	ug/kg dry
Aroclor 1221	---	U J	81	ug/kg dry
Aroclor 1232	---	U J	41	ug/kg dry
Aroclor 1242	---	U J	41	ug/kg dry
Aroclor 1248	---	U J	41	ug/kg dry
Aroclor 1254	---	U J	41	ug/kg dry
Aroclor 1260	---	U J	41	ug/kg dry
Aroclor 1262	---	U J	41	ug/kg dry
Aroclor 1268	---	U J	41	ug/kg dry

Metals ICP

Aluminum	2000		11	mg/kg dry
Antimony	7.1		2.1	mg/kg dry
Arsenic	30		0.86	mg/kg dry
Barium	45		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Cadmium	7.3		0.32	mg/kg dry
Calcium	7700		54	mg/kg dry
Chromium	220		0.54	mg/kg dry
Cobalt	23		2.1	mg/kg dry
Copper	310		1.1	mg/kg dry
Iron	170000		54	mg/kg dry
Lead	170		0.86	mg/kg dry
Magnesium	770		54	mg/kg dry
Manganese	1100		0.54	mg/kg dry
Nickel	180		2.1	mg/kg dry
Potassium	310		54	mg/kg dry
Selenium	3.5		2.1	mg/kg dry



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Sample ID: 1606029-03

Metals ICP

Silver	---	U	0.54	mg/kg dry
Sodium	150		110	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Tin	21		1.1	mg/kg dry
Vanadium	30		2.1	mg/kg dry
Zinc	330		2.1	mg/kg dry

Field ID: KR-SS-04-A

Sample ID: 1606029-04

NVOA GCMS

1,4-Dioxane	---	U	73.1	ug/kg dry
Benzaldehyde	---	U L	109	ug/kg dry
Phenol	---	U L	109	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	109	ug/kg dry
2-Chlorophenol	---	U L	109	ug/kg dry
2-Methylphenol	---	U L	109	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	109	ug/kg dry
Acetophenone	---	U L	109	ug/kg dry
4-Methylphenol	---	U L	109	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	109	ug/kg dry
Hexachloroethane	---	U L	109	ug/kg dry
Nitrobenzene	---	U L	109	ug/kg dry
Isophorone	---	U L	109	ug/kg dry
2-Nitrophenol	---	U L	109	ug/kg dry
2,4-Dimethylphenol	---	U L	109	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	109	ug/kg dry
2,4-Dichlorophenol	---	U L	109	ug/kg dry
Naphthalene	232		109	ug/kg dry
4-Chloroaniline	---	U	109	ug/kg dry



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Sample ID: 1606029-04

NVOA GCMS

Hexachlorobutadiene	---	U	109	ug/kg dry
Caprolactam	---	U	109	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	109	ug/kg dry
2-Methylnaphthalene	155		109	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	109	ug/kg dry
Hexachlorocyclopentadiene	---	U	109	ug/kg dry
2,4,6-Trichlorophenol	---	U L	109	ug/kg dry
2,4,5-Trichlorophenol	---	U L	109	ug/kg dry
Biphenyl	---	U	109	ug/kg dry
2-Chloronaphthalene	---	U	109	ug/kg dry
2-Nitroaniline	---	U	109	ug/kg dry
Dimethyl Phthalate	---	U	109	ug/kg dry
Acenaphthylene	155		109	ug/kg dry
2,6-Dinitrotoluene	---	U	109	ug/kg dry
3-Nitroaniline	---	U	109	ug/kg dry
Acenaphthene	---	U	109	ug/kg dry
2,4-Dinitrophenol	---	U J	364	ug/kg dry
4-Nitrophenol	---	U L	109	ug/kg dry
Dibenzofuran	---	U	109	ug/kg dry
2,4-Dinitrotoluene	---	U	109	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	109	ug/kg dry
Fluorene	---	U	109	ug/kg dry
Diethylphthalate	---	U	109	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	109	ug/kg dry
4-Nitroaniline	---	U	109	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	109	ug/kg dry
N-Nitrosodiphenylamine	---	U	109	ug/kg dry
4-Bromophenyl-Phenylether	---	U	109	ug/kg dry



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NVOA GCMS

Hexachlorobenzene	---	U	109	ug/kg dry
Atrazine	---	U	109	ug/kg dry
Pentachlorophenol	---	U L	109	ug/kg dry
Phenanthrene	488		109	ug/kg dry
Anthracene	154		109	ug/kg dry
Carbazole	---	U L	109	ug/kg dry
Di-N-Butyl Phthalate	---	U L	109	ug/kg dry
Fluoranthene	1260	L	109	ug/kg dry
Pyrene	1070	L	109	ug/kg dry
Butylbenzylphthalate	---	U L	109	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	109	ug/kg dry
Benzo(A)Anthracene	661	L	109	ug/kg dry
Chrysene	739	L	109	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	109	ug/kg dry
Di-N-Octyl Phthalate	---	U L	109	ug/kg dry
Benzo(B)Fluoranthene	1050	L	109	ug/kg dry
Benzo(K)Fluoranthene	355	L	109	ug/kg dry
Benzo(A)Pyrene	613	L	109	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	383	L	109	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	109	ug/kg dry
Benzo(G,H,I)Perylene	289	L	109	ug/kg dry
11H-Benzo[a]fluoren-11-one	394	NJ		ug/kg dry
11H-Benzo[b]fluorene	501	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	536	NJ		ug/kg dry
Tetrachloroethylene	5890	NJ		ug/kg dry



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Sample ID: 1606029-04

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	68	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5400		8.8	mg/kg dry
Antimony	3.7		1.8	mg/kg dry
Arsenic	9.9		0.70	mg/kg dry
Barium	51		8.8	mg/kg dry
Beryllium	0.37		0.26	mg/kg dry
Cadmium	0.30		0.26	mg/kg dry
Calcium	1200		44	mg/kg dry
Chromium	9.9		0.44	mg/kg dry
Cobalt	6.7		1.8	mg/kg dry
Copper	76		0.88	mg/kg dry
Iron	20000		4.4	mg/kg dry
Lead	130		0.70	mg/kg dry
Magnesium	1900		44	mg/kg dry
Manganese	360		0.44	mg/kg dry
Nickel	14		1.8	mg/kg dry
Potassium	400		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry



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Field ID: KR-SS-04-A

Sample ID: 1606029-04

Metals ICP

Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	9.7		0.88	mg/kg dry
Vanadium	13		1.8	mg/kg dry
Zinc	61		1.8	mg/kg dry

Field ID: KR-SS-05-A

Sample ID: 1606029-05

NVOA GCMS

1,4-Dioxane	---	U L	70.7	ug/kg dry
Benzaldehyde	---	U L	106	ug/kg dry
Phenol	---	U L	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	106	ug/kg dry
2-Chlorophenol	---	U L	106	ug/kg dry
2-Methylphenol	---	U L	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	106	ug/kg dry
Acetophenone	---	U L	106	ug/kg dry
4-Methylphenol	---	U L	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	106	ug/kg dry
Hexachloroethane	---	U L	106	ug/kg dry
Nitrobenzene	---	U L	106	ug/kg dry
Isophorone	---	U L	106	ug/kg dry
2-Nitrophenol	---	U L	106	ug/kg dry
2,4-Dimethylphenol	---	U L	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	106	ug/kg dry
2,4-Dichlorophenol	---	U L	106	ug/kg dry
Naphthalene	218	L	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry



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NVOA GCMS

Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	106	ug/kg dry
2-Methylnaphthalene	192		106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry
Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U L	106	ug/kg dry
2,4,5-Trichlorophenol	---	U L	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	---	U	106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	352	ug/kg dry
4-Nitrophenol	---	U L	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U L	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry
4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry



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NVOA GCMS

Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U L	106	ug/kg dry
Phenanthrene	145		106	ug/kg dry
Anthracene	---	U	106	ug/kg dry
Carbazole	---	U L	106	ug/kg dry
Di-N-Butyl Phthalate	---	U L	106	ug/kg dry
Fluoranthene	266	L	106	ug/kg dry
Pyrene	248	L	106	ug/kg dry
Butylbenzylphthalate	---	U L	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	106	ug/kg dry
Benzo(A)Anthracene	126	L	106	ug/kg dry
Chrysene	172	L	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	106	ug/kg dry
Di-N-Octyl Phthalate	---	U L	106	ug/kg dry
Benzo(B)Fluoranthene	248	L	106	ug/kg dry
Benzo(K)Fluoranthene	---	U L	106	ug/kg dry
Benzo(A)Pyrene	---	U L	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	106	ug/kg dry
HEPTADECANE	1590	NJ		ug/kg dry
Hexadecane	2820	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1770	NJ		ug/kg dry
Octadecane	1480	NJ		ug/kg dry
Pentadecane	4200	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	2460	NJ		ug/kg dry



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NVOA GCMS

Tetrachloroethylene	2170	NJ		ug/kg dry
Tetradecane	1490	NJ		ug/kg dry
Undecane	1670	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	5400		8.3	mg/kg dry
Antimony	2.3		1.7	mg/kg dry
Arsenic	8.0		0.66	mg/kg dry
Barium	37		8.3	mg/kg dry
Beryllium	0.27		0.25	mg/kg dry
Cadmium	0.47		0.25	mg/kg dry
Calcium	1300		41	mg/kg dry
Chromium	9.7		0.41	mg/kg dry
Cobalt	5.2		1.7	mg/kg dry
Copper	37		0.83	mg/kg dry
Iron	16000		4.1	mg/kg dry
Lead	90		0.66	mg/kg dry



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Metals ICP

Magnesium	1700		41	mg/kg dry
Manganese	290		0.41	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	340		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	5.3		0.83	mg/kg dry
Vanadium	13		1.7	mg/kg dry
Zinc	140		1.7	mg/kg dry

Field ID: KR-SS-06-A

Sample ID: 1606029-06

NVOA GCMS

1,4-Dioxane	---	U	71.0	ug/kg dry
Benzaldehyde	---	U L	106	ug/kg dry
Phenol	---	U L	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	106	ug/kg dry
2-Chlorophenol	---	U L	106	ug/kg dry
2-Methylphenol	---	U L	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	106	ug/kg dry
Acetophenone	---	U L	106	ug/kg dry
4-Methylphenol	---	U L	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	106	ug/kg dry
Hexachloroethane	---	U L	106	ug/kg dry
Nitrobenzene	---	U L	106	ug/kg dry
Isophorone	---	U L	106	ug/kg dry
2-Nitrophenol	---	U L	106	ug/kg dry



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NVOA GCMS

2,4-Dimethylphenol	---	U L	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	106	ug/kg dry
2,4-Dichlorophenol	---	U L	106	ug/kg dry
Naphthalene	113	L	106	ug/kg dry
4-Chloroaniline	---	U L	106	ug/kg dry
Hexachlorobutadiene	---	U L	106	ug/kg dry
Caprolactam	---	U L	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	106	ug/kg dry
2-Methylnaphthalene	---	U L	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U L	106	ug/kg dry
Hexachlorocyclopentadiene	---	U L	106	ug/kg dry
2,4,6-Trichlorophenol	---	U L	106	ug/kg dry
2,4,5-Trichlorophenol	---	U L	106	ug/kg dry
Biphenyl	---	U L	106	ug/kg dry
2-Chloronaphthalene	---	U L	106	ug/kg dry
2-Nitroaniline	---	U L	106	ug/kg dry
Dimethyl Phthalate	---	U L	106	ug/kg dry
Acenaphthylene	---	U L	106	ug/kg dry
2,6-Dinitrotoluene	---	U L	106	ug/kg dry
3-Nitroaniline	---	U L	106	ug/kg dry
Acenaphthene	---	U L	106	ug/kg dry
2,4-Dinitrophenol	---	U J	353	ug/kg dry
4-Nitrophenol	---	U L	106	ug/kg dry
Dibenzofuran	---	U L	106	ug/kg dry
2,4-Dinitrotoluene	---	U L	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U L	106	ug/kg dry
Fluorene	---	U L	106	ug/kg dry
Diethylphthalate	---	U L	106	ug/kg dry



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NVOA GCMS

4-Chlorophenyl-Phenylether	---	U L	106	ug/kg dry
4-Nitroaniline	---	U L	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	106	ug/kg dry
N-Nitrosodiphenylamine	---	U L	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U L	106	ug/kg dry
Hexachlorobenzene	---	U L	106	ug/kg dry
Atrazine	---	U L	106	ug/kg dry
Pentachlorophenol	---	U L	106	ug/kg dry
Phenanthrene	---	U L	106	ug/kg dry
Anthracene	---	U L	106	ug/kg dry
Carbazole	---	U L	106	ug/kg dry
Di-N-Butyl Phthalate	---	U L	106	ug/kg dry
Fluoranthene	---	U L	106	ug/kg dry
Pyrene	---	U L	106	ug/kg dry
Butylbenzylphthalate	---	U L	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	106	ug/kg dry
Benzo(A)Anthracene	---	U L	106	ug/kg dry
Chrysene	---	U L	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	106	ug/kg dry
Di-N-Octyl Phthalate	---	U L	106	ug/kg dry
Benzo(B)Fluoranthene	---	U L	106	ug/kg dry
Benzo(K)Fluoranthene	---	U L	106	ug/kg dry
Benzo(A)Pyrene	---	U L	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	106	ug/kg dry
Eicosane	454	NJ		ug/kg dry
HEPTADECANE	443	NJ		ug/kg dry



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NVOA GCMS

Hexadecane (01)	583	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	604	NJ		ug/kg dry
Pentadecane	904	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	1210	NJ		ug/kg dry
Pentadecane, 2,6,10-trimethyl-	783	NJ		ug/kg dry
Tetrachloroethylene	6930	NJ		ug/kg dry
Tetradecane	487	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	5500		8.3	mg/kg dry
Antimony	3.4		1.7	mg/kg dry
Arsenic	9.7		0.66	mg/kg dry
Barium	56		8.3	mg/kg dry
Beryllium	0.31		0.25	mg/kg dry
Cadmium	0.72		0.25	mg/kg dry
Calcium	4300		41	mg/kg dry
Chromium	14		0.41	mg/kg dry



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Metals ICP

Cobalt	6.4		1.7	mg/kg dry
Copper	72		0.83	mg/kg dry
Iron	22000		4.1	mg/kg dry
Lead	170		0.66	mg/kg dry
Magnesium	1800		41	mg/kg dry
Manganese	380		0.41	mg/kg dry
Nickel	18		1.7	mg/kg dry
Potassium	430		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	8.7		0.83	mg/kg dry
Vanadium	13		1.7	mg/kg dry
Zinc	310		1.7	mg/kg dry

Field ID: KR-SS-07-A

Sample ID: 1606029-07

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	154		108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry



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NVOA GCMS

N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	564		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	548		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	---	U	108	ug/kg dry
Acenaphthylene	1140		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	361	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry



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NVOA GCMS

Dibenzofuran	290		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	1120		108	ug/kg dry
Anthracene	795		108	ug/kg dry
Carbazole	268		108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	4490		541	ug/kg dry
Pyrene	3870		541	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	3380		108	ug/kg dry
Chrysene	3590		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	560		108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	6540		541	ug/kg dry
Benzo(K)Fluoranthene	1470		108	ug/kg dry



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NVOA GCMS

Benzo(A)Pyrene	2610		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1350		108	ug/kg dry
Dibenzo(A,H)Anthracene	374		108	ug/kg dry
Benzo(G,H,I)Perylene	969		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	1850	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	1420	NJ		ug/kg dry
Benzenesulfonamide, N-butyl-	1330	NJ		ug/kg dry
di-p-Tolylacetylene	1010	NJ		ug/kg dry
HENTRIACONTANE	1020	NJ		ug/kg dry
Naphthalene, 1-methyl-	1000	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	974	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	1210	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5600		8.3	mg/kg dry
Antimony	4.6		1.7	mg/kg dry
Arsenic	10		0.66	mg/kg dry



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Metals ICP

Barium	59		8.3	mg/kg dry
Beryllium	0.34		0.25	mg/kg dry
Cadmium	0.64		0.25	mg/kg dry
Calcium	3700		41	mg/kg dry
Chromium	15		0.41	mg/kg dry
Cobalt	6.5		1.7	mg/kg dry
Copper	100		0.83	mg/kg dry
Iron	28000		4.1	mg/kg dry
Lead	170		0.66	mg/kg dry
Magnesium	1500		41	mg/kg dry
Manganese	370		0.41	mg/kg dry
Nickel	18		1.7	mg/kg dry
Potassium	410		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	16		0.83	mg/kg dry
Vanadium	16		1.7	mg/kg dry
Zinc	84		1.7	mg/kg dry

Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

1,4-Dioxane	---	U	74.9	ug/kg dry
Benzaldehyde	162		112	ug/kg dry
Phenol	---	U	112	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	112	ug/kg dry



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Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

2-Chlorophenol	---	U	112	ug/kg dry
2-Methylphenol	---	U	112	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	112	ug/kg dry
Acetophenone	---	U	112	ug/kg dry
4-Methylphenol	---	U	112	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	112	ug/kg dry
Hexachloroethane	---	U	112	ug/kg dry
Nitrobenzene	---	U	112	ug/kg dry
Isophorone	---	U	112	ug/kg dry
2-Nitrophenol	---	U	112	ug/kg dry
2,4-Dimethylphenol	---	U	112	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	112	ug/kg dry
2,4-Dichlorophenol	---	U	112	ug/kg dry
Naphthalene	333		112	ug/kg dry
4-Chloroaniline	---	U	112	ug/kg dry
Hexachlorobutadiene	---	U	112	ug/kg dry
Caprolactam	---	U	112	ug/kg dry
4-Chloro-3-Methylphenol	---	U	112	ug/kg dry
2-Methylnaphthalene	352		112	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	112	ug/kg dry
Hexachlorocyclopentadiene	---	U L	112	ug/kg dry
2,4,6-Trichlorophenol	---	U	112	ug/kg dry
2,4,5-Trichlorophenol	---	U	112	ug/kg dry
Biphenyl	---	U	112	ug/kg dry
2-Chloronaphthalene	---	U	112	ug/kg dry
2-Nitroaniline	---	U	112	ug/kg dry
Dimethyl Phthalate	---	U	112	ug/kg dry
Acenaphthylene	466		112	ug/kg dry



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Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

2,6-Dinitrotoluene	---	U	112	ug/kg dry
3-Nitroaniline	---	U	112	ug/kg dry
Acenaphthene	---	U	112	ug/kg dry
2,4-Dinitrophenol	---	U J	372	ug/kg dry
4-Nitrophenol	---	U	112	ug/kg dry
Dibenzofuran	126		112	ug/kg dry
2,4-Dinitrotoluene	---	U	112	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	112	ug/kg dry
Fluorene	---	U	112	ug/kg dry
Diethylphthalate	---	U	112	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	112	ug/kg dry
4-Nitroaniline	---	U	112	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	112	ug/kg dry
N-Nitrosodiphenylamine	---	U	112	ug/kg dry
4-Bromophenyl-Phenylether	---	U	112	ug/kg dry
Hexachlorobenzene	---	U	112	ug/kg dry
Atrazine	---	U	112	ug/kg dry
Pentachlorophenol	---	U	112	ug/kg dry
Phenanthrene	477		112	ug/kg dry
Anthracene	310		112	ug/kg dry
Carbazole	---	U	112	ug/kg dry
Di-N-Butyl Phthalate	---	U	112	ug/kg dry
Fluoranthene	1580		112	ug/kg dry
Pyrene	1410		112	ug/kg dry
Butylbenzylphthalate	---	U	112	ug/kg dry
3,3'- Dichlorobenzidine	---	U	112	ug/kg dry
Benzo(A)Anthracene	1260		112	ug/kg dry
Chrysene	1250		112	ug/kg dry



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NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	112	ug/kg dry
Di-N-Octyl Phthalate	---	U	112	ug/kg dry
Benzo(B)Fluoranthene	2050		112	ug/kg dry
Benzo(K)Fluoranthene	759		112	ug/kg dry
Benzo(A)Pyrene	1120		112	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	595		112	ug/kg dry
Dibenzo(A,H)Anthracene	144		112	ug/kg dry
Benzo(G,H,I)Perylene	438		112	ug/kg dry
11H-Benzo[a]fluoren-11-one	704	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	896	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	549	NJ		ug/kg dry
Naphthalene, 2-methyl-	603	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	847	NJ		ug/kg dry
Phenanthrene, 2,5-dimethyl-	567	NJ		ug/kg dry
Phenanthrene, 2-methyl-	466	NJ		ug/kg dry
Triphenylene, 2-methyl-	472	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	35	ug/kg dry
Aroclor 1221	---	U J	69	ug/kg dry
Aroclor 1232	---	U J	35	ug/kg dry
Aroclor 1242	---	U J	35	ug/kg dry
Aroclor 1248	---	U J	35	ug/kg dry
Aroclor 1254	---	U J	35	ug/kg dry
Aroclor 1260	---	U J	35	ug/kg dry
Aroclor 1262	---	U J	35	ug/kg dry
Aroclor 1268	---	U J	35	ug/kg dry



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Field ID: KR-SS-08-A

Sample ID: 1606029-08

Metals ICP

Aluminum	4600		8.3	mg/kg dry
Antimony	5.1		1.7	mg/kg dry
Arsenic	13		0.66	mg/kg dry
Barium	62		8.3	mg/kg dry
Beryllium	0.33		0.25	mg/kg dry
Cadmium	0.95		0.25	mg/kg dry
Calcium	4700		41	mg/kg dry
Chromium	17		0.41	mg/kg dry
Cobalt	7.0		1.7	mg/kg dry
Copper	100		0.83	mg/kg dry
Iron	49000		21	mg/kg dry
Lead	180		0.66	mg/kg dry
Magnesium	1400		41	mg/kg dry
Manganese	390		0.41	mg/kg dry
Nickel	21		1.7	mg/kg dry
Potassium	380		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	13		0.83	mg/kg dry
Vanadium	14		1.7	mg/kg dry
Zinc	84		1.7	mg/kg dry

Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

1,4-Dioxane	---	U	68.8	ug/kg dry



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Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry
2-Chlorophenol	---	U	103	ug/kg dry
2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U L	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry
2-Chloronaphthalene	---	U	103	ug/kg dry



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NVOA GCMS

2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	---	U	103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry
2,6-Dinitrotoluene	---	U	103	ug/kg dry
3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	342	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	186		103	ug/kg dry
Pyrene	146		103	ug/kg dry
Butylbenzylphthalate	---	U	103	ug/kg dry



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NVOA GCMS

3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	---	U	103	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	1600	K	103	ug/kg dry
Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	---	U	103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry
1-Hexanol, 2-ethyl-	4160	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	5700		8.3	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	4.6		0.66	mg/kg dry
Barium	22		8.3	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry



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Metals ICP

Cadmium	---	U	0.25	mg/kg dry
Calcium	17000		41	mg/kg dry
Chromium	8.1		0.41	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	13		0.83	mg/kg dry
Iron	12000		4.1	mg/kg dry
Lead	10		0.66	mg/kg dry
Magnesium	2200		41	mg/kg dry
Manganese	330		0.41	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	360		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.83	mg/kg dry
Vanadium	9.1		1.7	mg/kg dry
Zinc	37		1.7	mg/kg dry

Field ID: KR-SS-11-A

Sample ID: 1606029-10

NVOA GCMS

1,4-Dioxane	---	U	71.6	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry



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Sample ID: 1606029-10

NVOA GCMS

Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	491		107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	315		107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry



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NVOA GCMS

Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	656		107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry



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NVOA GCMS

Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry
Benzenesulfonamide, N-butyl-	2010	NJ		ug/kg dry
Dodecane	2910	NJ		ug/kg dry
Dodecane, 2,6,10-trimethyl-	4130	NJ		ug/kg dry
Dodecane, 4-methyl-	9800	NJ		ug/kg dry
Hexadecane (02)	4080	NJ		ug/kg dry
Octacosane	2120	NJ		ug/kg dry
Pentadecane	2980	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	5890	NJ		ug/kg dry
Tetradecane	2890	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	68	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry



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Metals ICP

Aluminum	4900		8.4	mg/kg dry
Antimony	4.8		1.7	mg/kg dry
Arsenic	12		0.67	mg/kg dry
Barium	46		8.4	mg/kg dry
Beryllium	0.26		0.25	mg/kg dry
Cadmium	1.3		0.25	mg/kg dry
Calcium	1900		42	mg/kg dry
Chromium	14		0.42	mg/kg dry
Cobalt	6.0		1.7	mg/kg dry
Copper	97		0.84	mg/kg dry
Iron	22000		4.2	mg/kg dry
Lead	140		0.67	mg/kg dry
Magnesium	1400		42	mg/kg dry
Manganese	350		0.42	mg/kg dry
Nickel	14		1.7	mg/kg dry
Potassium	370		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	110		84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	11		0.84	mg/kg dry
Vanadium	12		1.7	mg/kg dry
Zinc	75		1.7	mg/kg dry

Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

Dichlorodifluoromethane	---	U	4.9	ug/kg dry



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Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

Chloromethane	---	U	4.9	ug/kg dry
Vinyl Chloride	---	U	4.9	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	4.9	ug/kg dry
Trichlorofluoromethane	---	U	4.9	ug/kg dry
1,1-Dichloroethene	---	U	4.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.9	ug/kg dry
Carbon Disulfide	---	U	4.9	ug/kg dry
Acetone	---	U J	9.8	ug/kg dry
Methyl Acetate	5.7	J	4.9	ug/kg dry
Methylene Chloride	---	U	4.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.9	ug/kg dry
1,1-Dichloroethane	---	U	4.9	ug/kg dry
2-Butanone	---	U	9.8	ug/kg dry
Bromochloromethane	---	U	4.9	ug/kg dry
Chloroform	---	U	4.9	ug/kg dry
1,2-Dichloroethane	---	U	4.9	ug/kg dry
1,1,1-Trichloroethane	---	U	4.9	ug/kg dry
Cyclohexane	---	U	4.9	ug/kg dry
Carbon Tetrachloride	---	U	4.9	ug/kg dry
Benzene	---	U	4.9	ug/kg dry
Trichloroethene	---	U	4.9	ug/kg dry
Methylcyclohexane	---	U	4.9	ug/kg dry
1,2-Dichloropropane	---	U J	4.9	ug/kg dry
Bromodichloromethane	---	U	4.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.8	ug/kg dry



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VOA GCMS

trans-1,3-Dichloropropene	---	U	4.9	ug/kg dry
1,1,2-Trichloroethane	---	U	4.9	ug/kg dry
Dibromochloromethane	---	U	4.9	ug/kg dry
Bromoform	---	U	4.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.8	ug/kg dry
Toluene	---	U	4.9	ug/kg dry
Tetrachloroethene	6.5		4.9	ug/kg dry
2-Hexanone	---	U	95	ug/kg dry
1,2-Dibromoethane	---	U	4.9	ug/kg dry
Chlorobenzene	---	U	4.9	ug/kg dry
Ethylbenzene	---	U	4.9	ug/kg dry
m/p-Xylene	---	U	4.9	ug/kg dry
o-Xylene	---	U	4.9	ug/kg dry
Styrene	---	U	4.9	ug/kg dry
Isopropylbenzene	---	U	4.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.9	ug/kg dry
1,3-Dichlorobenzene	---	U	4.9	ug/kg dry
1,4-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.9	ug/kg dry
Benzene, 1-methyl-2-(1-meth...	250	NJ		ug/kg dry
Dodecane, 6-methyl-	490	NJ		ug/kg dry
Tridecane	430	NJ		ug/kg dry
Undecane (01)	1200	NJ		ug/kg dry



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Sample ID: 1606029-11

NVOA GCMS

1,4-Dioxane	---	U	69.6	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry
Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry
2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry
Caprolactam	---	U	104	ug/kg dry
4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	123		104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry



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NVOA GCMS

2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	238		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	347	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry
2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry
Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry
Atrazine	---	U	104	ug/kg dry
Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	141		104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	---	U	104	ug/kg dry
Pyrene	---	U	104	ug/kg dry



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NVOA GCMS

Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	---	U	104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	---	U	104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry
HEPTADECANE	5690	NJ		ug/kg dry
Hexadecane (01)	4840	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1140	NJ		ug/kg dry
Naphthalene, 1,7-dimethyl-	1250	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	1750	NJ		ug/kg dry
Nonadecane	1580	NJ		ug/kg dry
Pentadecane	7800	NJ		ug/kg dry
Tetradecane	6150	NJ		ug/kg dry
Tridecane	3210	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry



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PCB Aroclors GC

Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	5800		8.4	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.1		0.67	mg/kg dry
Barium	23		8.4	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	170		42	mg/kg dry
Chromium	7.3		0.42	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	10		0.84	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	6.1		0.67	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	360		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	350		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.84	mg/kg dry
Vanadium	8.5		1.7	mg/kg dry



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Field ID: KR-SB-01-A

Sample ID: 1606029-11

Metals ICP

Zinc	35		1.7	mg/kg dry	

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Dichlorodifluoromethane	---	U	4.9	ug/kg dry	
Chloromethane	---	U	4.9	ug/kg dry	
Vinyl Chloride	---	U	4.9	ug/kg dry	
Bromomethane	---	U J	130	ug/kg dry	
Chloroethane	---	U	4.9	ug/kg dry	
Trichlorofluoromethane	---	U	4.9	ug/kg dry	
1,1-Dichloroethene	---	U	4.9	ug/kg dry	
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.9	ug/kg dry	
Carbon Disulfide	---	U	4.9	ug/kg dry	
Acetone	---	U J	9.9	ug/kg dry	
Methyl Acetate	---	U J	4.9	ug/kg dry	
Methylene Chloride	---	U	4.9	ug/kg dry	
trans-1,2-Dichloroethene	---	U	4.9	ug/kg dry	
cis-1,2-Dichloroethene	---	U	4.9	ug/kg dry	
Methyl tert-Butyl Ether	---	U L	4.9	ug/kg dry	
1,1-Dichloroethane	---	U	4.9	ug/kg dry	
2-Butanone	---	U	9.9	ug/kg dry	
Bromochloromethane	---	U	4.9	ug/kg dry	
Chloroform	---	U	4.9	ug/kg dry	
1,2-Dichloroethane	---	U	4.9	ug/kg dry	
1,1,1-Trichloroethane	---	U	4.9	ug/kg dry	
Cyclohexane	---	U	4.9	ug/kg dry	
Carbon Tetrachloride	---	U	4.9	ug/kg dry	
Benzene	---	U	4.9	ug/kg dry	
Trichloroethene	---	U	4.9	ug/kg dry	



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Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Methylcyclohexane	---	U	4.9	ug/kg dry
1,2-Dichloropropane	---	U J	4.9	ug/kg dry
Bromodichloromethane	---	U	4.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.9	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.9	ug/kg dry
1,1,2-Trichloroethane	---	U	4.9	ug/kg dry
Dibromochloromethane	---	U	4.9	ug/kg dry
Bromoform	---	U	4.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.9	ug/kg dry
Toluene	---	U	4.9	ug/kg dry
Tetrachloroethene	56		4.9	ug/kg dry
2-Hexanone	---	U	96	ug/kg dry
1,2-Dibromoethane	---	U	4.9	ug/kg dry
Chlorobenzene	---	U	4.9	ug/kg dry
Ethylbenzene	---	U	4.9	ug/kg dry
m/p-Xylene	---	U	4.9	ug/kg dry
o-Xylene	---	U	4.9	ug/kg dry
Styrene	---	U	4.9	ug/kg dry
Isopropylbenzene	---	U	4.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.9	ug/kg dry
1,3-Dichlorobenzene	---	U	4.9	ug/kg dry
1,4-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.9	ug/kg dry
Dodecane	19	NJ		ug/kg dry
Dodecane, 2,6,11-trimethyl-	24	NJ		ug/kg dry



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VOA GCMS

Hexadecane	14	NJ		ug/kg dry
Naphthalene, 1,6-dimethyl- (01)	38	NJ		ug/kg dry
Naphthalene, 1,6-dimethyl- (02)	30	NJ		ug/kg dry
Naphthalene, 1,7-dimethyl-	14	NJ		ug/kg dry
Naphthalene, 1-methyl-	21	NJ		ug/kg dry
Naphthalene, 2-methyl-	29	NJ		ug/kg dry
Tetradecane	110	NJ		ug/kg dry
Tridecane	82	NJ		ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.8	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry



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NVOA GCMS

4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U L	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	194		107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	357	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry



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NVOA GCMS

4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	120	J	34	ug/kg dry



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PCB Aroclors GC

Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5600		8.7	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	2.7		0.69	mg/kg dry
Barium	24		8.7	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	370		43	mg/kg dry
Chromium	7.4		0.43	mg/kg dry
Cobalt	5.4		1.7	mg/kg dry
Copper	9.6		0.87	mg/kg dry
Iron	12000		4.3	mg/kg dry
Lead	5.9		0.69	mg/kg dry
Magnesium	2100		43	mg/kg dry
Manganese	370		0.43	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	400		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	87	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.87	mg/kg dry
Vanadium	8.2		1.7	mg/kg dry



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Sample ID: 1606029-12

Metals ICP

Zinc	34		1.7	mg/kg dry	

Field ID: KR-SB-10-A

Sample ID: 1606029-13

VOA GCMS

Dichlorodifluoromethane	---	U	5.1	ug/kg dry	
Chloromethane	---	U	5.1	ug/kg dry	
Vinyl Chloride	---	U	5.1	ug/kg dry	
Bromomethane	---	U J	130	ug/kg dry	
Chloroethane	---	U	5.1	ug/kg dry	
Trichlorofluoromethane	---	U	5.1	ug/kg dry	
1,1-Dichloroethene	---	U	5.1	ug/kg dry	
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.1	ug/kg dry	
Carbon Disulfide	---	U	5.1	ug/kg dry	
Acetone	13	J	10	ug/kg dry	
Methyl Acetate	---	U J	5.1	ug/kg dry	
Methylene Chloride	---	U	5.1	ug/kg dry	
trans-1,2-Dichloroethene	---	U	5.1	ug/kg dry	
cis-1,2-Dichloroethene	---	U	5.1	ug/kg dry	
Methyl tert-Butyl Ether	---	U L	5.1	ug/kg dry	
1,1-Dichloroethane	---	U	5.1	ug/kg dry	
2-Butanone	---	U	10	ug/kg dry	
Bromochloromethane	---	U	5.1	ug/kg dry	
Chloroform	---	U	5.1	ug/kg dry	
1,2-Dichloroethane	---	U	5.1	ug/kg dry	
1,1,1-Trichloroethane	---	U	5.1	ug/kg dry	
Cyclohexane	---	U	5.1	ug/kg dry	
Carbon Tetrachloride	---	U	5.1	ug/kg dry	
Benzene	---	U	5.1	ug/kg dry	
Trichloroethene	---	U	5.1	ug/kg dry	



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Sample ID: 1606029-13

VOA GCMS

Methylcyclohexane	---	U	5.1	ug/kg dry
1,2-Dichloropropane	---	U J	5.1	ug/kg dry
Bromodichloromethane	---	U	5.1	ug/kg dry
cis-1,3-Dichloropropene	---	U	10	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.1	ug/kg dry
1,1,2-Trichloroethane	---	U	5.1	ug/kg dry
Dibromochloromethane	---	U	5.1	ug/kg dry
Bromoform	---	U	5.1	ug/kg dry
4-Methyl-2-Pentanone	---	U	10	ug/kg dry
Toluene	---	U	5.1	ug/kg dry
Tetrachloroethene	5.5		5.1	ug/kg dry
2-Hexanone	---	U	99	ug/kg dry
1,2-Dibromoethane	---	U	5.1	ug/kg dry
Chlorobenzene	---	U	5.1	ug/kg dry
Ethylbenzene	---	U	5.1	ug/kg dry
m/p-Xylene	---	U	5.1	ug/kg dry
o-Xylene	---	U	5.1	ug/kg dry
Styrene	---	U	5.1	ug/kg dry
Isopropylbenzene	---	U	5.1	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.1	ug/kg dry
1,3-Dichlorobenzene	---	U	5.1	ug/kg dry
1,4-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.1	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.1	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.1	ug/kg dry
Tetradecane	20	NJ		ug/kg dry
Tridecane	22	NJ		ug/kg dry



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Field ID: KR-SB-10-A

Sample ID: 1606029-13

NVOA GCMS

1,4-Dioxane	---	U	72.1	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	---	U	108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	---	U	108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U L	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry



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Field ID: KR-SB-10-A

Sample ID: 1606029-13

NVOA GCMS

2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	215		108	ug/kg dry
Acenaphthylene	---	U	108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	359	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	---	U	108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	---	U	108	ug/kg dry
Anthracene	---	U	108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	172		108	ug/kg dry
Pyrene	168		108	ug/kg dry



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NVOA GCMS

Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	135		108	ug/kg dry
Chrysene	220		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	471	K	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	298		108	ug/kg dry
Benzo(K)Fluoranthene	117		108	ug/kg dry
Benzo(A)Pyrene	127		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	108	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	108	ug/kg dry
Benzo(G,H,I)Perylene	---	U	108	ug/kg dry
1-Hexanol, 2-ethyl-	517	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry



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Field ID: KR-SB-10-A

Sample ID: 1606029-13

Metals ICP

Aluminum	6000		8.0	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.8		0.64	mg/kg dry
Barium	28		8.0	mg/kg dry
Beryllium	0.25		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	15000		40	mg/kg dry
Chromium	11		0.40	mg/kg dry
Cobalt	4.9		1.6	mg/kg dry
Copper	11		0.80	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	8.4		0.64	mg/kg dry
Magnesium	2200		40	mg/kg dry
Manganese	320		0.40	mg/kg dry
Nickel	13		1.6	mg/kg dry
Potassium	460		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	80	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.80	mg/kg dry
Vanadium	9.5		1.6	mg/kg dry
Zinc	35		1.6	mg/kg dry

Field ID: KR-SB-02-A

Sample ID: 1606039-01

VOA GCMS

Dichlorodifluoromethane	---	U	4.3	ug/kg dry



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Field ID: KR-SB-02-A

Sample ID: 1606039-01

VOA GCMS

Chloromethane	---	U	4.3	ug/kg dry
Vinyl Chloride	---	U	4.3	ug/kg dry
Bromomethane	---	U J	110	ug/kg dry
Chloroethane	---	U	4.3	ug/kg dry
Trichlorofluoromethane	---	U	4.3	ug/kg dry
1,1-Dichloroethene	---	U	4.3	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.3	ug/kg dry
Carbon Disulfide	---	U	4.3	ug/kg dry
Acetone	12	J	8.6	ug/kg dry
Methyl Acetate	6.9	J	4.3	ug/kg dry
Methylene Chloride	---	U	4.3	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.3	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.3	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.3	ug/kg dry
1,1-Dichloroethane	---	U	4.3	ug/kg dry
2-Butanone	---	U	8.6	ug/kg dry
Bromochloromethane	---	U	4.3	ug/kg dry
Chloroform	---	U	4.3	ug/kg dry
1,2-Dichloroethane	---	U	4.3	ug/kg dry
1,1,1-Trichloroethane	---	U	4.3	ug/kg dry
Cyclohexane	---	U	4.3	ug/kg dry
Carbon Tetrachloride	---	U	4.3	ug/kg dry
Benzene	---	U	4.3	ug/kg dry
Trichloroethene	---	U	4.3	ug/kg dry
Methylcyclohexane	---	U	4.3	ug/kg dry
1,2-Dichloropropane	---	U J	4.3	ug/kg dry
Bromodichloromethane	---	U	4.3	ug/kg dry
cis-1,3-Dichloropropene	---	U	8.6	ug/kg dry



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VOA GCMS

trans-1,3-Dichloropropene	---	U	4.3	ug/kg dry
1,1,2-Trichloroethane	---	U	4.3	ug/kg dry
Dibromochloromethane	---	U	4.3	ug/kg dry
Bromoform	---	U	4.3	ug/kg dry
4-Methyl-2-Pentanone	---	U	8.6	ug/kg dry
Toluene	---	U	4.3	ug/kg dry
Tetrachloroethene	43		4.3	ug/kg dry
2-Hexanone	---	U	84	ug/kg dry
1,2-Dibromoethane	---	U	4.3	ug/kg dry
Chlorobenzene	---	U	4.3	ug/kg dry
Ethylbenzene	---	U	4.3	ug/kg dry
m/p-Xylene	---	U	4.3	ug/kg dry
o-Xylene	---	U	4.3	ug/kg dry
Styrene	---	U	4.3	ug/kg dry
Isopropylbenzene	---	U	4.3	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.3	ug/kg dry
1,3-Dichlorobenzene	---	U	4.3	ug/kg dry
1,4-Dichlorobenzene	---	U	4.3	ug/kg dry
1,2-Dichlorobenzene	---	U	4.3	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.3	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.3	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.3	ug/kg dry
Tridecane	8.7	NJ		ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.6	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry



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NVOA GCMS

2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry



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NVOA GCMS

2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	161		107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	274		107	ug/kg dry
Pyrene	241		107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	122		107	ug/kg dry
Chrysene	140		107	ug/kg dry



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NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	169		107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	114		107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry
Tetrachloroethylene	391	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	6100		7.9	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.8		0.63	mg/kg dry
Barium	30		7.9	mg/kg dry
Beryllium	0.28		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	480		40	mg/kg dry



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Metals ICP

Chromium	7.2		0.40	mg/kg dry
Cobalt	6.0		1.6	mg/kg dry
Copper	17		0.79	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	17		0.63	mg/kg dry
Magnesium	1800		40	mg/kg dry
Manganese	390		0.40	mg/kg dry
Nickel	12		1.6	mg/kg dry
Potassium	280		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	79	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.79	mg/kg dry
Vanadium	9.3		1.6	mg/kg dry
Zinc	36		1.6	mg/kg dry

Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

Dichlorodifluoromethane	---	U	4.5	ug/kg dry
Chloromethane	6.3		4.5	ug/kg dry
Vinyl Chloride	---	U	4.5	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.5	ug/kg dry
Trichlorofluoromethane	---	U	4.5	ug/kg dry
1,1-Dichloroethene	---	U	4.5	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.5	ug/kg dry



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Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

Carbon Disulfide	---	U	4.5	ug/kg dry
Acetone	16	J	9.0	ug/kg dry
Methyl Acetate	5.4	J	4.5	ug/kg dry
Methylene Chloride	---	U	4.5	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.5	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.5	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.5	ug/kg dry
1,1-Dichloroethane	---	U	4.5	ug/kg dry
2-Butanone	---	U	9.0	ug/kg dry
Bromochloromethane	---	U	4.5	ug/kg dry
Chloroform	---	U	4.5	ug/kg dry
1,2-Dichloroethane	---	U	4.5	ug/kg dry
1,1,1-Trichloroethane	---	U	4.5	ug/kg dry
Cyclohexane	---	U	4.5	ug/kg dry
Carbon Tetrachloride	---	U	4.5	ug/kg dry
Benzene	---	U	4.5	ug/kg dry
Trichloroethene	---	U	4.5	ug/kg dry
Methylcyclohexane	---	U	4.5	ug/kg dry
1,2-Dichloropropane	---	U J	4.5	ug/kg dry
Bromodichloromethane	---	U	4.5	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.0	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.5	ug/kg dry
1,1,2-Trichloroethane	---	U	4.5	ug/kg dry
Dibromochloromethane	---	U	4.5	ug/kg dry
Bromoform	---	U	4.5	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.0	ug/kg dry
Toluene	---	U	4.5	ug/kg dry
Tetrachloroethene	260		26	ug/kg dry



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Sample ID: 1606039-02

VOA GCMS

2-Hexanone	---	U	88	ug/kg dry
1,2-Dibromoethane	---	U	4.5	ug/kg dry
Chlorobenzene	---	U	4.5	ug/kg dry
Ethylbenzene	---	U	4.5	ug/kg dry
m/p-Xylene	---	U	4.5	ug/kg dry
o-Xylene	---	U	4.5	ug/kg dry
Styrene	---	U L	4.5	ug/kg dry
Isopropylbenzene	---	U	4.5	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.5	ug/kg dry
1,3-Dichlorobenzene	---	U	4.5	ug/kg dry
1,4-Dichlorobenzene	---	U	4.5	ug/kg dry
1,2-Dichlorobenzene	---	U	4.5	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.5	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.5	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.5	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.5	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry



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Field ID: KR-SB-03-A

Sample ID: 1606039-02

NVOA GCMS

Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry



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Field ID: KR-SB-03-A

Sample ID: 1606039-02

NVOA GCMS

Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry



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Sample ID: 1606039-02

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	270	J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	7000		7.9	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.1		0.64	mg/kg dry
Barium	20		7.9	mg/kg dry
Beryllium	0.25		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	320		40	mg/kg dry
Chromium	7.6		0.40	mg/kg dry
Cobalt	5.1		1.6	mg/kg dry
Copper	8.0		0.79	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	5.9		0.64	mg/kg dry
Magnesium	1800		40	mg/kg dry
Manganese	340		0.40	mg/kg dry
Nickel	13		1.6	mg/kg dry
Potassium	250		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry



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Metals ICP

Silver	---	U	0.40	mg/kg dry
Sodium	---	U	79	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.79	mg/kg dry
Vanadium	10		1.6	mg/kg dry
Zinc	33		1.6	mg/kg dry

Field ID: KR-SB-04-A

Sample ID: 1606039-03

VOA GCMS

Dichlorodifluoromethane	---	U	5.3	ug/kg dry
Chloromethane	---	U	5.3	ug/kg dry
Vinyl Chloride	---	U	5.3	ug/kg dry
Bromomethane	---	U J	140	ug/kg dry
Chloroethane	---	U	5.3	ug/kg dry
Trichlorofluoromethane	---	U	5.3	ug/kg dry
1,1-Dichloroethene	---	U	5.3	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.3	ug/kg dry
Carbon Disulfide	---	U	5.3	ug/kg dry
Acetone	---	U J	11	ug/kg dry
Methyl Acetate	---	U J	5.3	ug/kg dry
Methylene Chloride	---	U	5.3	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.3	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.3	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.3	ug/kg dry
1,1-Dichloroethane	---	U	5.3	ug/kg dry
2-Butanone	---	U	11	ug/kg dry
Bromochloromethane	---	U	5.3	ug/kg dry
Chloroform	---	U	5.3	ug/kg dry
1,2-Dichloroethane	---	U	5.3	ug/kg dry



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Sample ID: 1606039-03

VOA GCMS

1,1,1-Trichloroethane	---	U	5.3	ug/kg dry
Cyclohexane	---	U	5.3	ug/kg dry
Carbon Tetrachloride	---	U	5.3	ug/kg dry
Benzene	---	U	5.3	ug/kg dry
Trichloroethene	---	U	5.3	ug/kg dry
Methylcyclohexane	---	U	5.3	ug/kg dry
1,2-Dichloropropane	---	U J	5.3	ug/kg dry
Bromodichloromethane	---	U	5.3	ug/kg dry
cis-1,3-Dichloropropene	---	U	11	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.3	ug/kg dry
1,1,2-Trichloroethane	---	U	5.3	ug/kg dry
Dibromochloromethane	---	U	5.3	ug/kg dry
Bromoform	---	U	5.3	ug/kg dry
4-Methyl-2-Pentanone	---	U	11	ug/kg dry
Toluene	---	U	5.3	ug/kg dry
Tetrachloroethene	17		5.3	ug/kg dry
2-Hexanone	---	U	100	ug/kg dry
1,2-Dibromoethane	---	U	5.3	ug/kg dry
Chlorobenzene	---	U	5.3	ug/kg dry
Ethylbenzene	---	U	5.3	ug/kg dry
m/p-Xylene	---	U	5.3	ug/kg dry
o-Xylene	---	U	5.3	ug/kg dry
Styrene	---	U	5.3	ug/kg dry
Isopropylbenzene	---	U	5.3	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.3	ug/kg dry
1,3-Dichlorobenzene	---	U	5.3	ug/kg dry
1,4-Dichlorobenzene	---	U	5.3	ug/kg dry
1,2-Dichlorobenzene	---	U	5.3	ug/kg dry



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VOA GCMS

1,2-Dibromo-3-Chloropropane	---	U	5.3	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.3	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.3	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	70.8	ug/kg dry
Benzaldehyde	---	U	106	ug/kg dry
Phenol	---	U	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	106	ug/kg dry
2-Chlorophenol	---	U	106	ug/kg dry
2-Methylphenol	---	U	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	106	ug/kg dry
Acetophenone	---	U	106	ug/kg dry
4-Methylphenol	---	U	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	106	ug/kg dry
Hexachloroethane	---	U	106	ug/kg dry
Nitrobenzene	---	U	106	ug/kg dry
Isophorone	---	U	106	ug/kg dry
2-Nitrophenol	---	U	106	ug/kg dry
2,4-Dimethylphenol	---	U	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	106	ug/kg dry
2,4-Dichlorophenol	---	U	106	ug/kg dry
Naphthalene	---	U	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry
Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U	106	ug/kg dry
2-Methylnaphthalene	---	U	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry



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NVOA GCMS

Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U	106	ug/kg dry
2,4,5-Trichlorophenol	---	U	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	---	U	106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	352	ug/kg dry
4-Nitrophenol	---	U	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry
4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry
Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U	106	ug/kg dry
Phenanthrene	---	U	106	ug/kg dry
Anthracene	---	U	106	ug/kg dry



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NVOA GCMS

Carbazole	---	U	106	ug/kg dry
Di-N-Butyl Phthalate	---	U	106	ug/kg dry
Fluoranthene	---	U	106	ug/kg dry
Pyrene	---	U	106	ug/kg dry
Butylbenzylphthalate	---	U	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U	106	ug/kg dry
Benzo(A)Anthracene	---	U	106	ug/kg dry
Chrysene	---	U	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	106	ug/kg dry
Di-N-Octyl Phthalate	---	U	106	ug/kg dry
Benzo(B)Fluoranthene	---	U	106	ug/kg dry
Benzo(K)Fluoranthene	---	U	106	ug/kg dry
Benzo(A)Pyrene	---	U	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U	106	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry



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Metals ICP

Aluminum	6100		8.6	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.0		0.69	mg/kg dry
Barium	11		8.6	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	230		43	mg/kg dry
Chromium	7.2		0.43	mg/kg dry
Cobalt	5.3		1.7	mg/kg dry
Copper	10		0.86	mg/kg dry
Iron	11000		4.3	mg/kg dry
Lead	7.6		0.69	mg/kg dry
Magnesium	2000		43	mg/kg dry
Manganese	300		0.43	mg/kg dry
Nickel	12		1.7	mg/kg dry
Potassium	290		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	86	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.86	mg/kg dry
Vanadium	8.4		1.7	mg/kg dry
Zinc	30		1.7	mg/kg dry

Field ID: KR-SB-05-A

Sample ID: 1606039-04

VOA GCMS

Dichlorodifluoromethane	---	U	5.9	ug/kg dry



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VOA GCMS

Chloromethane	7.0		5.9	ug/kg dry
Vinyl Chloride	---	U	5.9	ug/kg dry
Bromomethane	---	U J	150	ug/kg dry
Chloroethane	---	U	5.9	ug/kg dry
Trichlorofluoromethane	---	U	5.9	ug/kg dry
1,1-Dichloroethene	---	U	5.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.9	ug/kg dry
Carbon Disulfide	---	U	5.9	ug/kg dry
Acetone	36	J	12	ug/kg dry
Methyl Acetate	9.7	J	5.9	ug/kg dry
Methylene Chloride	---	U	5.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.9	ug/kg dry
1,1-Dichloroethane	---	U	5.9	ug/kg dry
2-Butanone	---	U	12	ug/kg dry
Bromochloromethane	---	U	5.9	ug/kg dry
Chloroform	---	U	5.9	ug/kg dry
1,2-Dichloroethane	---	U	5.9	ug/kg dry
1,1,1-Trichloroethane	---	U	5.9	ug/kg dry
Cyclohexane	---	U	5.9	ug/kg dry
Carbon Tetrachloride	---	U	5.9	ug/kg dry
Benzene	---	U	5.9	ug/kg dry
Trichloroethene	---	U	5.9	ug/kg dry
Methylcyclohexane	---	U	5.9	ug/kg dry
1,2-Dichloropropane	---	U J	5.9	ug/kg dry
Bromodichloromethane	---	U	5.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	12	ug/kg dry



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VOA GCMS

trans-1,3-Dichloropropene	---	U	5.9	ug/kg dry
1,1,2-Trichloroethane	---	U	5.9	ug/kg dry
Dibromochloromethane	---	U	5.9	ug/kg dry
Bromoform	---	U	5.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	12	ug/kg dry
Toluene	---	U	5.9	ug/kg dry
Tetrachloroethene	82		5.9	ug/kg dry
2-Hexanone	---	U	110	ug/kg dry
1,2-Dibromoethane	---	U	5.9	ug/kg dry
Chlorobenzene	---	U	5.9	ug/kg dry
Ethylbenzene	---	U	5.9	ug/kg dry
m/p-Xylene	---	U	5.9	ug/kg dry
o-Xylene	---	U	5.9	ug/kg dry
Styrene	---	U	5.9	ug/kg dry
Isopropylbenzene	---	U	5.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.9	ug/kg dry
1,3-Dichlorobenzene	---	U	5.9	ug/kg dry
1,4-Dichlorobenzene	---	U	5.9	ug/kg dry
1,2-Dichlorobenzene	---	U	5.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.9	ug/kg dry
HEXANAL	14			ug/kg dry
Propene	14			ug/kg dry



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NVOA GCMS

1,4-Dioxane	---	U	69.3	ug/kg dry
Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry
2-Chlorophenol	---	U	103	ug/kg dry
2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry



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NVOA GCMS

2-Chloronaphthalene	---	U	103	ug/kg dry
2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	118		103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry
2,6-Dinitrotoluene	---	U	103	ug/kg dry
3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	345	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	186		103	ug/kg dry
Pyrene	144		103	ug/kg dry



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NVOA GCMS

Butylbenzylphthalate	---	U	103	ug/kg dry
3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	112		103	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	103	ug/kg dry
Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	158		103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	6000		8.5	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.9		0.68	mg/kg dry
Barium	17		8.5	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry



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Sample ID: 1606039-04

Metals ICP

Cadmium	---	U	0.25	mg/kg dry
Calcium	170		42	mg/kg dry
Chromium	8.0		0.42	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	12		0.85	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	11		0.68	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	330		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	340		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	85	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.85	mg/kg dry
Vanadium	8.8		1.7	mg/kg dry
Zinc	44		1.7	mg/kg dry

Field ID: KR-SB-07-A

Sample ID: 1606039-05

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry



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VOA GCMS

1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	---	U J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry



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VOA GCMS

Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	6.4		4.7	ug/kg dry
2-Hexanone	---	U	90	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.6	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry



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NVOA GCMS

Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry
2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry
Caprolactam	---	U	104	ug/kg dry
4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	---	U	104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry
2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	128		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	346	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry



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NVOA GCMS

2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry
Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry
Atrazine	---	U	104	ug/kg dry
Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	---	U	104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	---	U	104	ug/kg dry
Pyrene	---	U	104	ug/kg dry
Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	---	U	104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	---	U	104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry



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NVOA GCMS

Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	6500		7.5	mg/kg dry
Antimony	---	U	1.5	mg/kg dry
Arsenic	3.4		0.60	mg/kg dry
Barium	11		7.5	mg/kg dry
Beryllium	0.22		0.22	mg/kg dry
Cadmium	---	U	0.22	mg/kg dry
Calcium	250		37	mg/kg dry
Chromium	7.6		0.37	mg/kg dry
Cobalt	5.2		1.5	mg/kg dry
Copper	9.1		0.75	mg/kg dry
Iron	12000		3.7	mg/kg dry
Lead	6.7		0.60	mg/kg dry
Magnesium	2100		37	mg/kg dry
Manganese	270		0.37	mg/kg dry



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Metals ICP

Nickel	13		1.5	mg/kg dry
Potassium	280		37	mg/kg dry
Selenium	---	U	1.5	mg/kg dry
Silver	---	U	0.37	mg/kg dry
Sodium	---	U	75	mg/kg dry
Thallium	---	U	1.5	mg/kg dry
Tin	---	U	0.75	mg/kg dry
Vanadium	9.6		1.5	mg/kg dry
Zinc	29		1.5	mg/kg dry

Field ID: KR-SB-08-A

Sample ID: 1606039-06

VOA GCMS

Dichlorodifluoromethane	---	U	5.1	ug/kg dry
Chloromethane	---	U	5.1	ug/kg dry
Vinyl Chloride	---	U	5.1	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	5.1	ug/kg dry
Trichlorofluoromethane	---	U	5.1	ug/kg dry
1,1-Dichloroethene	---	U	5.1	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.1	ug/kg dry
Carbon Disulfide	---	U	5.1	ug/kg dry
Acetone	11	J	10	ug/kg dry
Methyl Acetate	---	U J	5.1	ug/kg dry
Methylene Chloride	---	U	5.1	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.1	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.1	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.1	ug/kg dry
1,1-Dichloroethane	---	U	5.1	ug/kg dry



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VOA GCMS

2-Butanone	---	U	10	ug/kg dry
Bromochloromethane	---	U	5.1	ug/kg dry
Chloroform	---	U	5.1	ug/kg dry
1,2-Dichloroethane	---	U	5.1	ug/kg dry
1,1,1-Trichloroethane	---	U	5.1	ug/kg dry
Cyclohexane	---	U	5.1	ug/kg dry
Carbon Tetrachloride	---	U	5.1	ug/kg dry
Benzene	---	U	5.1	ug/kg dry
Trichloroethene	---	U	5.1	ug/kg dry
Methylcyclohexane	---	U	5.1	ug/kg dry
1,2-Dichloropropane	---	U J	5.1	ug/kg dry
Bromodichloromethane	---	U	5.1	ug/kg dry
cis-1,3-Dichloropropene	---	U	10	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.1	ug/kg dry
1,1,2-Trichloroethane	---	U	5.1	ug/kg dry
Dibromochloromethane	---	U	5.1	ug/kg dry
Bromoform	---	U	5.1	ug/kg dry
4-Methyl-2-Pentanone	---	U	10	ug/kg dry
Toluene	---	U	5.1	ug/kg dry
Tetrachloroethene	9.7		5.1	ug/kg dry
2-Hexanone	---	U	98	ug/kg dry
1,2-Dibromoethane	---	U	5.1	ug/kg dry
Chlorobenzene	---	U	5.1	ug/kg dry
Ethylbenzene	---	U	5.1	ug/kg dry
m/p-Xylene	---	U	5.1	ug/kg dry
o-Xylene	---	U	5.1	ug/kg dry
Styrene	---	U	5.1	ug/kg dry
Isopropylbenzene	---	U	5.1	ug/kg dry



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VOA GCMS

1,1,2,2-Tetrachloroethane	---	U	5.1	ug/kg dry
1,3-Dichlorobenzene	---	U	5.1	ug/kg dry
1,4-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.1	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.1	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.1	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.8	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry
Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry
2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry



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NVOA GCMS

Caprolactam	---	U	104	ug/kg dry
4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	---	U	104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry
2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	176		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	347	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry
2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry
Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry



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NVOA GCMS

Atrazine	---	U	104	ug/kg dry
Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	123		104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	185		104	ug/kg dry
Pyrene	162		104	ug/kg dry
Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	110		104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	126		104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	65	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry



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Sample ID: 1606039-06

PCB Aroclors GC

Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	6400		8.2	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.2		0.66	mg/kg dry
Barium	25		8.2	mg/kg dry
Beryllium	0.25		0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	290		41	mg/kg dry
Chromium	8.5		0.41	mg/kg dry
Cobalt	6.0		1.6	mg/kg dry
Copper	16		0.82	mg/kg dry
Iron	16000		4.1	mg/kg dry
Lead	15		0.66	mg/kg dry
Magnesium	2000		41	mg/kg dry
Manganese	460		0.41	mg/kg dry
Nickel	15		1.6	mg/kg dry
Potassium	290		41	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	82	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	1.8		0.82	mg/kg dry
Vanadium	9.1		1.6	mg/kg dry
Zinc	32		1.6	mg/kg dry



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Field ID: SB-900-A

Sample ID: 1606039-07

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	11	J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry



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VOA GCMS

cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry
Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	---	U	4.7	ug/kg dry
2-Hexanone	---	U	90	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.2	ug/kg dry
Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry



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NVOA GCMS

2-Chlorophenol	---	U	103	ug/kg dry
2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry
2-Chloronaphthalene	---	U	103	ug/kg dry
2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	192		103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry



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NVOA GCMS

2,6-Dinitrotoluene	---	U	103	ug/kg dry
3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	344	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	---	U	103	ug/kg dry
Pyrene	---	U	103	ug/kg dry
Butylbenzylphthalate	---	U	103	ug/kg dry
3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	---	U	103	ug/kg dry



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NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	103	ug/kg dry
Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	---	U	103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	6500		8.4	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.7		0.67	mg/kg dry
Barium	12		8.4	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	230		42	mg/kg dry
Chromium	7.9		0.42	mg/kg dry
Cobalt	5.3		1.7	mg/kg dry



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Metals ICP

Copper	10		0.84	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	6.2		0.67	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	320		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	300		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.84	mg/kg dry
Vanadium	9.5		1.7	mg/kg dry
Zinc	31		1.7	mg/kg dry

Field ID: KR-SB-09-A

Sample ID: 1606039-08

VOA GCMS

Dichlorodifluoromethane	---	U	4.4	ug/kg dry
Chloromethane	---	U	4.4	ug/kg dry
Vinyl Chloride	---	U	4.4	ug/kg dry
Bromomethane	---	U J	110	ug/kg dry
Chloroethane	---	U	4.4	ug/kg dry
Trichlorofluoromethane	---	U	4.4	ug/kg dry
1,1-Dichloroethene	---	U	4.4	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.4	ug/kg dry
Carbon Disulfide	---	U	4.4	ug/kg dry
Acetone	18	J	8.9	ug/kg dry
Methyl Acetate	---	U J	4.4	ug/kg dry



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Sample ID: 1606039-08

VOA GCMS

Methylene Chloride	---	U	4.4	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.4	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.4	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.4	ug/kg dry
1,1-Dichloroethane	---	U	4.4	ug/kg dry
2-Butanone	---	U	8.9	ug/kg dry
Bromochloromethane	---	U	4.4	ug/kg dry
Chloroform	---	U	4.4	ug/kg dry
1,2-Dichloroethane	---	U	4.4	ug/kg dry
1,1,1-Trichloroethane	---	U	4.4	ug/kg dry
Cyclohexane	---	U	4.4	ug/kg dry
Carbon Tetrachloride	---	U	4.4	ug/kg dry
Benzene	---	U	4.4	ug/kg dry
Trichloroethene	---	U	4.4	ug/kg dry
Methylcyclohexane	---	U	4.4	ug/kg dry
1,2-Dichloropropane	---	U J	4.4	ug/kg dry
Bromodichloromethane	---	U	4.4	ug/kg dry
cis-1,3-Dichloropropene	---	U	8.9	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.4	ug/kg dry
1,1,2-Trichloroethane	---	U	4.4	ug/kg dry
Dibromochloromethane	---	U	4.4	ug/kg dry
Bromoform	---	U	4.4	ug/kg dry
4-Methyl-2-Pentanone	---	U	8.9	ug/kg dry
Toluene	---	U	4.4	ug/kg dry
Tetrachloroethene	11		4.4	ug/kg dry
2-Hexanone	---	U	86	ug/kg dry
1,2-Dibromoethane	---	U	4.4	ug/kg dry
Chlorobenzene	---	U	4.4	ug/kg dry



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VOA GCMS

Ethylbenzene	---	U	4.4	ug/kg dry
m/p-Xylene	---	U	4.4	ug/kg dry
o-Xylene	---	U	4.4	ug/kg dry
Styrene	---	U	4.4	ug/kg dry
Isopropylbenzene	---	U	4.4	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.4	ug/kg dry
1,3-Dichlorobenzene	---	U	4.4	ug/kg dry
1,4-Dichlorobenzene	---	U	4.4	ug/kg dry
1,2-Dichlorobenzene	---	U	4.4	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.4	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.4	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.4	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.3	ug/kg dry
Benzaldehyde	---	U	106	ug/kg dry
Phenol	---	U	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	106	ug/kg dry
2-Chlorophenol	---	U	106	ug/kg dry
2-Methylphenol	---	U	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	106	ug/kg dry
Acetophenone	---	U	106	ug/kg dry
4-Methylphenol	---	U	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	106	ug/kg dry
Hexachloroethane	---	U	106	ug/kg dry
Nitrobenzene	---	U	106	ug/kg dry
Isophorone	---	U	106	ug/kg dry
2-Nitrophenol	---	U	106	ug/kg dry
2,4-Dimethylphenol	---	U	106	ug/kg dry



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NVOA GCMS

Bis(-2-Chloroethoxy)Methane	---	U	106	ug/kg dry
2,4-Dichlorophenol	---	U	106	ug/kg dry
Naphthalene	---	U	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry
Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U	106	ug/kg dry
2-Methylnaphthalene	---	U	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry
Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U	106	ug/kg dry
2,4,5-Trichlorophenol	---	U	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	194		106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	887	ug/kg dry
4-Nitrophenol	---	U	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry



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NVOA GCMS

4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry
Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U	106	ug/kg dry
Phenanthrene	---	U	106	ug/kg dry
Anthracene	---	U	106	ug/kg dry
Carbazole	---	U	106	ug/kg dry
Di-N-Butyl Phthalate	---	U	106	ug/kg dry
Fluoranthene	---	U	106	ug/kg dry
Pyrene	---	U	106	ug/kg dry
Butylbenzylphthalate	---	U	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U	106	ug/kg dry
Benzo(A)Anthracene	---	U	106	ug/kg dry
Chrysene	---	U	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	106	ug/kg dry
Di-N-Octyl Phthalate	---	U	106	ug/kg dry
Benzo(B)Fluoranthene	---	U	106	ug/kg dry
Benzo(K)Fluoranthene	---	U	106	ug/kg dry
Benzo(A)Pyrene	---	U	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U	106	ug/kg dry



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PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	7200		8.8	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Arsenic	2.9		0.70	mg/kg dry
Barium	43		8.8	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	590		44	mg/kg dry
Chromium	7.5		0.44	mg/kg dry
Cobalt	4.5		1.8	mg/kg dry
Copper	7.8		0.88	mg/kg dry
Iron	11000		4.4	mg/kg dry
Lead	6.7		0.70	mg/kg dry
Magnesium	1500		44	mg/kg dry
Manganese	420		0.44	mg/kg dry
Nickel	10		1.8	mg/kg dry
Potassium	340		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry



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Metals ICP

Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	---	U	0.88	mg/kg dry
Vanadium	10		1.8	mg/kg dry
Zinc	28		1.8	mg/kg dry

Field ID: KR-SB-11-A

Sample ID: 1606039-09

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	22	J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry



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Field ID: KR-SB-11-A

Sample ID: 1606039-09

VOA GCMS

1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry
Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	1600		49	ug/kg dry
2-Hexanone	---	U	91	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry



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VOA GCMS

1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	406		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	414		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry



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NVOA GCMS

Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	215		108	ug/kg dry
Acenaphthylene	400		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	901	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	203		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	699		108	ug/kg dry
Anthracene	272		108	ug/kg dry



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NVOA GCMS

Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	2520		108	ug/kg dry
Pyrene	2070		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	1920		108	ug/kg dry
Chrysene	1950		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	2720		108	ug/kg dry
Benzo(K)Fluoranthene	947		108	ug/kg dry
Benzo(A)Pyrene	1510		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1090		108	ug/kg dry
Dibenzo(A,H)Anthracene	297		108	ug/kg dry
Benzo(G,H,I)Perylene	793		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	950	NJ		ug/kg dry
11H-Benzo[b]fluorene	1260	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	922	NJ		ug/kg dry
Heptadecane, 2,6-dimethyl-	1960	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1170	NJ		ug/kg dry
Hexanoic acid, 2-ethyl-	4160	NJ		ug/kg dry
Phenanthrene, 2,5-dimethyl-	743	NJ		ug/kg dry
Phenanthrene, 2-methyl-	762	NJ		ug/kg dry
Tetrachloroethylene	4930	NJ		ug/kg dry



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PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5400		8.8	mg/kg dry
Antimony	4.1		1.8	mg/kg dry
Arsenic	8.0		0.71	mg/kg dry
Barium	44		8.8	mg/kg dry
Beryllium	0.28		0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	1300		44	mg/kg dry
Chromium	9.6		0.44	mg/kg dry
Cobalt	6.4		1.8	mg/kg dry
Copper	64		0.88	mg/kg dry
Iron	19000		4.4	mg/kg dry
Lead	79		0.71	mg/kg dry
Magnesium	1600		44	mg/kg dry
Manganese	370		0.44	mg/kg dry
Nickel	16		1.8	mg/kg dry
Potassium	320		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry



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Metals ICP

Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	8.8		0.88	mg/kg dry
Vanadium	10		1.8	mg/kg dry
Zinc	38		1.8	mg/kg dry

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

1,4-Dioxane	---	U	70.1	ug/kg dry
Benzaldehyde	---	U	105	ug/kg dry
Phenol	---	U	105	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	105	ug/kg dry
2-Chlorophenol	---	U	105	ug/kg dry
2-Methylphenol	---	U	105	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	105	ug/kg dry
Acetophenone	---	U	105	ug/kg dry
4-Methylphenol	---	U	105	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	105	ug/kg dry
Hexachloroethane	---	U	105	ug/kg dry
Nitrobenzene	---	U	105	ug/kg dry
Isophorone	---	U	105	ug/kg dry
2-Nitrophenol	---	U	105	ug/kg dry
2,4-Dimethylphenol	---	U	105	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	105	ug/kg dry
2,4-Dichlorophenol	---	U	105	ug/kg dry
Naphthalene	---	U	105	ug/kg dry
4-Chloroaniline	---	U	105	ug/kg dry
Hexachlorobutadiene	---	U	105	ug/kg dry



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NVOA GCMS

Caprolactam	---	U	105	ug/kg dry
4-Chloro-3-Methylphenol	---	U	105	ug/kg dry
2-Methylnaphthalene	---	U	105	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	105	ug/kg dry
Hexachlorocyclopentadiene	---	U	105	ug/kg dry
2,4,6-Trichlorophenol	---	U	105	ug/kg dry
2,4,5-Trichlorophenol	---	U	105	ug/kg dry
Biphenyl	---	U	105	ug/kg dry
2-Chloronaphthalene	---	U	105	ug/kg dry
2-Nitroaniline	---	U	105	ug/kg dry
Dimethyl Phthalate	116		105	ug/kg dry
Acenaphthylene	108		105	ug/kg dry
2,6-Dinitrotoluene	---	U	105	ug/kg dry
3-Nitroaniline	---	U	105	ug/kg dry
Acenaphthene	108		105	ug/kg dry
2,4-Dinitrophenol	---	U J	872	ug/kg dry
4-Nitrophenol	---	U	105	ug/kg dry
Dibenzofuran	---	U	105	ug/kg dry
2,4-Dinitrotoluene	---	U	105	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	105	ug/kg dry
Fluorene	192		105	ug/kg dry
Diethylphthalate	---	U	105	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	105	ug/kg dry
4-Nitroaniline	---	U	105	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	105	ug/kg dry
N-Nitrosodiphenylamine	---	U	105	ug/kg dry
4-Bromophenyl-Phenylether	---	U	105	ug/kg dry
Hexachlorobenzene	---	U	105	ug/kg dry



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NVOA GCMS

Atrazine	---	U	105	ug/kg dry
Pentachlorophenol	---	U	105	ug/kg dry
Phenanthrene	2960		105	ug/kg dry
Anthracene	1980		105	ug/kg dry
Carbazole	344		105	ug/kg dry
Di-N-Butyl Phthalate	---	U	105	ug/kg dry
Fluoranthene	8210		523	ug/kg dry
Pyrene	6050		523	ug/kg dry
Butylbenzylphthalate	---	U	105	ug/kg dry
3,3'- Dichlorobenzidine	---	U	105	ug/kg dry
Benzo(A)Anthracene	2950		105	ug/kg dry
Chrysene	3750		523	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	105	ug/kg dry
Di-N-Octyl Phthalate	---	U	105	ug/kg dry
Benzo(B)Fluoranthene	3600		523	ug/kg dry
Benzo(K)Fluoranthene	1220		105	ug/kg dry
Benzo(A)Pyrene	1580		105	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	876		105	ug/kg dry
Dibenzo(A,H)Anthracene	216		105	ug/kg dry
Benzo(G,H,I)Perylene	627		105	ug/kg dry
11H-Benzo[a]fluoren-11-one (01)	1420	NJ		ug/kg dry
11H-Benzo[b]fluorene	1500	NJ		ug/kg dry
4H-Cyclopenta[def]phenanthrene	1340	NJ		ug/kg dry
Benzo[b]naphtho[2,3-d]thiop...	888	NJ		ug/kg dry
Phenanthrene, 2-methyl-	895	NJ		ug/kg dry
Pyrene, 1-methyl-	1060	NJ		ug/kg dry



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Sample ID: 1606039-10

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	65	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	5700		8.6	mg/kg dry
Antimony	3.7		1.7	mg/kg dry
Arsenic	7.2		0.69	mg/kg dry
Barium	46		8.6	mg/kg dry
Beryllium	0.28		0.26	mg/kg dry
Cadmium	0.36		0.26	mg/kg dry
Calcium	11000		43	mg/kg dry
Chromium	9.4		0.43	mg/kg dry
Cobalt	6.6		1.7	mg/kg dry
Copper	77		0.86	mg/kg dry
Iron	20000		4.3	mg/kg dry
Lead	170		0.69	mg/kg dry
Magnesium	2000		43	mg/kg dry
Manganese	410		0.43	mg/kg dry
Nickel	15		1.7	mg/kg dry
Potassium	390		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry



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Metals ICP

Silver	---	U	0.43	mg/kg dry
Sodium	---	U	86	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	10		0.86	mg/kg dry
Vanadium	11		1.7	mg/kg dry
Zinc	58		1.7	mg/kg dry

Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

Dichlorodifluoromethane	---	U	6.0	ug/kg dry
Chloromethane	6.3		6.0	ug/kg dry
Vinyl Chloride	---	U	6.0	ug/kg dry
Bromomethane	---	U J	150	ug/kg dry
Chloroethane	---	U	6.0	ug/kg dry
Trichlorofluoromethane	---	U	6.0	ug/kg dry
1,1-Dichloroethene	---	U	6.0	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	6.0	ug/kg dry
Carbon Disulfide	---	U	6.0	ug/kg dry
Acetone	33	J	12	ug/kg dry
Methyl Acetate	6.1	J	6.0	ug/kg dry
Methylene Chloride	---	U	6.0	ug/kg dry
trans-1,2-Dichloroethene	---	U	6.0	ug/kg dry
cis-1,2-Dichloroethene	---	U	6.0	ug/kg dry
Methyl tert-Butyl Ether	---	U L	6.0	ug/kg dry
1,1-Dichloroethane	---	U	6.0	ug/kg dry
2-Butanone	---	U	12	ug/kg dry
Bromochloromethane	---	U	6.0	ug/kg dry
Chloroform	---	U	6.0	ug/kg dry



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VOA GCMS

1,2-Dichloroethane	---	U	6.0	ug/kg dry
1,1,1-Trichloroethane	---	U	6.0	ug/kg dry
Cyclohexane	---	U	6.0	ug/kg dry
Carbon Tetrachloride	---	U	6.0	ug/kg dry
Benzene	---	U	6.0	ug/kg dry
Trichloroethene	11		6.0	ug/kg dry
Methylcyclohexane	---	U	6.0	ug/kg dry
1,2-Dichloropropane	---	U J	6.0	ug/kg dry
Bromodichloromethane	---	U	6.0	ug/kg dry
cis-1,3-Dichloropropene	---	U	12	ug/kg dry
trans-1,3-Dichloropropene	---	U	6.0	ug/kg dry
1,1,2-Trichloroethane	---	U	6.0	ug/kg dry
Dibromochloromethane	---	U	6.0	ug/kg dry
Bromoform	---	U	6.0	ug/kg dry
4-Methyl-2-Pentanone	---	U J	12	ug/kg dry
Toluene	---	U J	6.0	ug/kg dry
Tetrachloroethene	830	K	33	ug/kg dry
2-Hexanone	---	U J	120	ug/kg dry
1,2-Dibromoethane	---	U J	6.0	ug/kg dry
Chlorobenzene	---	U J	6.0	ug/kg dry
Ethylbenzene	---	U J	6.0	ug/kg dry
m/p-Xylene	---	U J	6.0	ug/kg dry
o-Xylene	---	U J	6.0	ug/kg dry
Styrene	---	U J	6.0	ug/kg dry
Isopropylbenzene	---	U J	6.0	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U J	6.0	ug/kg dry
1,3-Dichlorobenzene	---	U J	6.0	ug/kg dry
1,4-Dichlorobenzene	---	U J	6.0	ug/kg dry



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VOA GCMS

1,2-Dichlorobenzene	---	U J	6.0	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U J	6.0	ug/kg dry
1,2,4-Trichlorobenzene	---	U J	6.0	ug/kg dry
1,2,3-Trichlorobenzene	---	U J	6.0	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	300		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	280		108	ug/kg dry



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NVOA GCMS

1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	142		108	ug/kg dry
Acenaphthylene	395		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	902	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	175		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	793		108	ug/kg dry



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Sample ID: 1606039-11

NVOA GCMS

Anthracene	311		108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	2780		108	ug/kg dry
Pyrene	2290		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	2040		108	ug/kg dry
Chrysene	1900		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	2910		108	ug/kg dry
Benzo(K)Fluoranthene	866		108	ug/kg dry
Benzo(A)Pyrene	1500		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1010		108	ug/kg dry
Dibenzo(A,H)Anthracene	277		108	ug/kg dry
Benzo(G,H,I)Perylene	686		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	1020	NJ		ug/kg dry
11H-Benzo[b]fluorene	1230	NJ		ug/kg dry
Heptadecane, 2,6-dimethyl-	2370	NJ		ug/kg dry
Heptadecane, 4-methyl-	710	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1820	NJ		ug/kg dry
Hexanoic acid, 2-ethyl-	2850	NJ		ug/kg dry
Phenanthrene, 2-methyl-	706	NJ		ug/kg dry
Tetrachloroethylene	1760	NJ		ug/kg dry
Triphenylene, 2-methyl-	1010	NJ		ug/kg dry



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Field ID: SB-900-B

Sample ID: 1606039-11

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5500		8.0	mg/kg dry
Antimony	3.8		1.6	mg/kg dry
Arsenic	6.2		0.64	mg/kg dry
Barium	50		8.0	mg/kg dry
Beryllium	0.29		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	1100		40	mg/kg dry
Chromium	9.6		0.40	mg/kg dry
Cobalt	6.6		1.6	mg/kg dry
Copper	63		0.80	mg/kg dry
Iron	19000		4.0	mg/kg dry
Lead	76		0.64	mg/kg dry
Magnesium	1500		40	mg/kg dry
Manganese	420		0.40	mg/kg dry
Nickel	17		1.6	mg/kg dry
Potassium	320		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry



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Field ID: SB-900-B

Sample ID: 1606039-11

Metals ICP

Silver	---	U	0.40	mg/kg dry
Sodium	---	U	80	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	8.3		0.80	mg/kg dry
Vanadium	10		1.6	mg/kg dry
Zinc	38		1.6	mg/kg dry

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	43		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U J	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L



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Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L



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Field ID: FB-SB-A

Sample ID: 1606039-12

NVOA GCMS

1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L



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Sample ID: 1606039-12

NVOA GCMS

Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Phenol, 2-methoxy-	13	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L



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Field ID: FB-SB-A

Sample ID: 1606039-12

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	36		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L



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Field ID: FB-GW-B

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VOA-TRACE GCMS

Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.2	ug/L
Benzaldehyde	---	U	5.4	ug/L
Phenol	---	U	5.4	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.4	ug/L
2-Chlorophenol	---	U	5.4	ug/L
2-Methylphenol	---	U	5.4	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.4	ug/L
Acetophenone	---	U	5.4	ug/L



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Sample ID: 1606044-01

NVOA GCMS

4-Methylphenol	---	U	5.4	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.4	ug/L
Hexachloroethane	---	U	5.4	ug/L
Nitrobenzene	---	U	5.4	ug/L
Isophorone	---	U	5.4	ug/L
2-Nitrophenol	---	U	5.4	ug/L
2,4-Dimethylphenol	---	U	5.4	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.4	ug/L
2,4-Dichlorophenol	---	U	5.4	ug/L
Naphthalene	---	U	5.4	ug/L
4-Chloroaniline	---	U	5.4	ug/L
Hexachlorobutadiene	---	U	5.4	ug/L
Caprolactam	---	U	5.4	ug/L
4-Chloro-3-Methylphenol	---	U	5.4	ug/L
2-Methylnaphthalene	---	U	5.4	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.4	ug/L
Hexachlorocyclopentadiene	---	U	5.4	ug/L
2,4,6-Trichlorophenol	---	U	5.4	ug/L
2,4,5-Trichlorophenol	---	U	5.4	ug/L
Biphenyl	---	U	5.4	ug/L
2-Chloronaphthalene	---	U	5.4	ug/L
2-Nitroaniline	---	U	5.4	ug/L
Dimethyl Phthalate	---	U	5.4	ug/L
Acenaphthylene	---	U	5.4	ug/L
2,6-Dinitrotoluene	---	U	5.4	ug/L
3-Nitroaniline	---	U	5.4	ug/L
Acenaphthene	---	U	5.4	ug/L
2,4-Dinitrophenol	---	U	27	ug/L



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Sample ID: 1606044-01

NVOA GCMS

4-Nitrophenol	---	U	5.4	ug/L
Dibenzofuran	---	U	5.4	ug/L
2,4-Dinitrotoluene	---	U	5.4	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.4	ug/L
Fluorene	---	U	5.4	ug/L
Diethylphthalate	---	U	5.4	ug/L
4-Chlorophenyl-Phenylether	---	U	5.4	ug/L
4-Nitroaniline	---	U	5.4	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.4	ug/L
N-Nitrosodiphenylamine	---	U	5.4	ug/L
4-Bromophenyl-Phenylether	---	U	5.4	ug/L
Hexachlorobenzene	---	U	5.4	ug/L
Atrazine	---	U	5.4	ug/L
Pentachlorophenol	---	U	5.4	ug/L
Phenanthrene	---	U	5.4	ug/L
Anthracene	---	U	5.4	ug/L
Carbazole	---	U	5.4	ug/L
Di-N-Butyl Phthalate	---	U	5.4	ug/L
Fluoranthene	---	U	5.4	ug/L
Pyrene	---	U	5.4	ug/L
Butylbenzylphthalate	---	U	5.4	ug/L
3,3'- Dichlorobenzidine	---	U	5.4	ug/L
Benzo(A)Anthracene	---	U	5.4	ug/L
Chrysene	---	U	5.4	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.4	ug/L
Di-N-Octyl Phthalate	---	U	5.4	ug/L
Benzo(B)Fluoranthene	---	U	5.4	ug/L
Benzo(K)Fluoranthene	---	U	5.4	ug/L



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Field ID: FB-GW-B

Sample ID: 1606044-01

NVOA GCMS

Benzo(A)Pyrene	---	U	5.4	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.4	ug/L
Dibenzo(A,H)Anthracene	---	U	5.4	ug/L
Benzo(G,H,I)Perylene	---	U	5.4	ug/L
Phenol, 2-methoxy-	14	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L



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Field ID: FB-GW-B

Sample ID: 1606044-01

Metals ICP

Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L



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Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	24		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	170		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L



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Sample ID: 1606044-02

VOA-TRACE GCMS

1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L



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NVOA GCMS

Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L



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NVOA GCMS

Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Tetrachloroethylene	34	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L



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PCB Aroclors GC

Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	38000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	4600		500	ug/L
Manganese	27		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3100		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	84000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-01-1

Sample ID: 1606044-03



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-GW-01-1

Sample ID: 1606044-03

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	14		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L



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VOA-TRACE GCMS

4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	4.2		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L



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NVOA GCMS

2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U L	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U L	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L



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Sample ID: 1606044-03

NVOA GCMS

2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U L	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U L	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U L	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U L	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L



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Sample ID: 1606044-03

NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	43000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L



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Sample ID: 1606044-03

Metals ICP

Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	2700		500	ug/L
Manganese	120		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3700		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	88000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L



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Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	24		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	180		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L



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Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.0	ug/L
Benzaldehyde	---	U	5.0	ug/L
Phenol	---	U	5.0	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.0	ug/L
2-Chlorophenol	---	U	5.0	ug/L
2-Methylphenol	---	U	5.0	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.0	ug/L
Acetophenone	---	U	5.0	ug/L
4-Methylphenol	---	U	5.0	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.0	ug/L
Hexachloroethane	---	U	5.0	ug/L
Nitrobenzene	---	U	5.0	ug/L
Isophorone	---	U	5.0	ug/L
2-Nitrophenol	---	U	5.0	ug/L
2,4-Dimethylphenol	---	U	5.0	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.0	ug/L



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Sample ID: 1606044-04

NVOA GCMS

2,4-Dichlorophenol	---	U	5.0	ug/L
Naphthalene	---	U	5.0	ug/L
4-Chloroaniline	---	U	5.0	ug/L
Hexachlorobutadiene	---	U	5.0	ug/L
Caprolactam	---	U	5.0	ug/L
4-Chloro-3-Methylphenol	---	U	5.0	ug/L
2-Methylnaphthalene	---	U	5.0	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.0	ug/L
Hexachlorocyclopentadiene	---	U	5.0	ug/L
2,4,6-Trichlorophenol	---	U	5.0	ug/L
2,4,5-Trichlorophenol	---	U	5.0	ug/L
Biphenyl	---	U	5.0	ug/L
2-Chloronaphthalene	---	U	5.0	ug/L
2-Nitroaniline	---	U	5.0	ug/L
Dimethyl Phthalate	---	U	5.0	ug/L
Acenaphthylene	---	U	5.0	ug/L
2,6-Dinitrotoluene	---	U	5.0	ug/L
3-Nitroaniline	---	U	5.0	ug/L
Acenaphthene	---	U	5.0	ug/L
2,4-Dinitrophenol	---	U	25	ug/L
4-Nitrophenol	---	U	5.0	ug/L
Dibenzofuran	---	U	5.0	ug/L
2,4-Dinitrotoluene	---	U	5.0	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.0	ug/L
Fluorene	---	U	5.0	ug/L
Diethylphthalate	---	U	5.0	ug/L
4-Chlorophenyl-Phenylether	---	U	5.0	ug/L
4-Nitroaniline	---	U	5.0	ug/L



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NVOA GCMS

4,6-Dinitro-2-Methylphenol	---	U	5.0	ug/L
N-Nitrosodiphenylamine	---	U	5.0	ug/L
4-Bromophenyl-Phenylether	---	U	5.0	ug/L
Hexachlorobenzene	---	U	5.0	ug/L
Atrazine	---	U	5.0	ug/L
Pentachlorophenol	---	U	5.0	ug/L
Phenanthrene	---	U	5.0	ug/L
Anthracene	---	U	5.0	ug/L
Carbazole	---	U	5.0	ug/L
Di-N-Butyl Phthalate	---	U	5.0	ug/L
Fluoranthene	---	U	5.0	ug/L
Pyrene	---	U	5.0	ug/L
Butylbenzylphthalate	---	U	5.0	ug/L
3,3'- Dichlorobenzidine	---	U	5.0	ug/L
Benzo(A)Anthracene	---	U	5.0	ug/L
Chrysene	---	U	5.0	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.0	ug/L
Di-N-Octyl Phthalate	---	U	5.0	ug/L
Benzo(B)Fluoranthene	---	U	5.0	ug/L
Benzo(K)Fluoranthene	---	U	5.0	ug/L
Benzo(A)Pyrene	---	U	5.0	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.0	ug/L
Dibenzo(A,H)Anthracene	---	U	5.0	ug/L
Benzo(G,H,I)Perylene	---	U	5.0	ug/L
Tetrachloroethylene	38	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L



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Sample ID: 1606044-04

PCB Aroclors GC

Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	39000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	4700		500	ug/L
Manganese	28		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3200		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	84000		1000	ug/L
Thallium	---	U	20	ug/L



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Field ID: KR-GW-02-1

Sample ID: 1606044-04

Metals ICP

Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-03-1

Sample ID: 1606044-05

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L



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VOA-TRACE GCMS

Trichloroethene	23		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	120		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS



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Sample ID: 1606044-05

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U L	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U L	5.3	ug/L
2-Methylphenol	---	U L	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U L	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U L	5.3	ug/L
2,4-Dimethylphenol	---	U L	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U L	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U L	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L



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Sample ID: 1606044-05

NVOA GCMS

2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L



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Sample ID: 1606044-05

NVOA GCMS

Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Tetrachloroethylene	14	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L



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Sample ID: 1606044-05

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	39000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	3700		500	ug/L
Manganese	60		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3000		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	58000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L



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Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	36		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L



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Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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September 01, 2016

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CDM Smith
110 Fieldcrest Avenue, 6th Floor
Edison, NJ 08837

RE: Kingston Rail Yard - 1606029

Enclosed are the results of analyses for samples received by the laboratory between 6/15/2016 and 6/17/2016. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1606029 and contact the laboratory.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Bourbon", is located below the "Sincerely," text.

John R. Bourbon
Chief, DESA/LB



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Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

SVOA - The Bis-(2-Ethylhexyl)Phthalate on sample 1606029-03 (Field ID #KR-SS-03-A) was qualified with "J". This compound was previously qualified from a report dated August 18, 2016 with "K" and "L" due to non-conformance of QC check (all surrogates had low recoveries and the continuing verification for this specific compound has a high bias result). The appropriate qualifier "J" was applied.

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs), where applicable, for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The Reporting Limits for Bromomethane, cis-1,3-Dichloropropane and 2-Hexanone were raised due to problems associated with the initial calibration curve in all samples.



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Semi-Volatile Organic Compounds: The Reporting Limit for 2,4-Dinitrophenol was raised accordingly due to problems associated with the initial calibration curve in all samples.



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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
KR-SS-01-A	1606029-01	Solid	06/14/2016 10:40	06/15/2016 11:00
KR-SS-02-A	1606029-02	Solid	06/14/2016 11:00	06/15/2016 11:00
KR-SS-03-A	1606029-03	Solid	06/14/2016 11:15	06/15/2016 11:00
KR-SS-04-A	1606029-04	Solid	06/14/2016 12:00	06/15/2016 11:00
KR-SS-05-A	1606029-05	Solid	06/14/2016 12:15	06/15/2016 11:00
KR-SS-06-A	1606029-06	Solid	06/14/2016 12:20	06/15/2016 11:00
KR-SS-07-A	1606029-07	Solid	06/14/2016 13:40	06/15/2016 11:00
KR-SS-08-A	1606029-08	Solid	06/14/2016 13:45	06/15/2016 11:00
KR-SS-10-A	1606029-09	Solid	06/14/2016 15:20	06/15/2016 11:00
KR-SS-11-A	1606029-10	Solid	06/14/2016 14:30	06/15/2016 11:00
KR-SB-01-A	1606029-11	Solid	06/14/2016 13:45	06/15/2016 11:00
KR-SB-06-A	1606029-12	Solid	06/14/2016 14:40	06/15/2016 11:00
KR-SB-10-A	1606029-13	Solid	06/14/2016 15:40	06/15/2016 11:00
KR-SB-02-A	1606039-01	Solid	06/15/2016 08:15	06/16/2016 11:00
KR-SB-03-A	1606039-02	Solid	06/15/2016 08:45	06/16/2016 11:00
KR-SB-04-A	1606039-03	Solid	06/15/2016 09:20	06/16/2016 11:00
KR-SB-05-A	1606039-04	Solid	06/15/2016 10:15	06/16/2016 11:00
KR-SB-07-A	1606039-05	Solid	06/15/2016 10:45	06/16/2016 11:00
KR-SB-08-A	1606039-06	Solid	06/15/2016 11:20	06/16/2016 11:00
SB-900-A	1606039-07	Solid	06/15/2016 10:50	06/16/2016 11:00
KR-SB-09-A	1606039-08	Solid	06/15/2016 13:10	06/16/2016 11:00
KR-SB-11-A	1606039-09	Solid	06/15/2016 11:55	06/16/2016 11:00
KR-SS-09-A	1606039-10	Solid	06/15/2016 12:50	06/16/2016 11:00
SB-900-B	1606039-11	Solid	06/15/2016 12:00	06/16/2016 11:00
FB-SB-A	1606039-12	Aqueous	06/15/2016 12:30	06/16/2016 11:00
FB-GW-B	1606044-01	Aqueous	06/16/2016 11:05	06/17/2016 10:30
GW-900-1	1606044-02	Aqueous	06/16/2016 12:00	06/17/2016 10:30
KR-GW-01-1	1606044-03	Aqueous	06/16/2016 10:00	06/17/2016 10:30



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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
KR-GW-02-1	1606044-04	Aqueous	06/16/2016 12:00	06/17/2016 10:30
KR-GW-03-1	1606044-05	Aqueous	06/16/2016 14:00	06/17/2016 10:30
TB-01	1606044-06	Aqueous	06/16/2016 09:45	06/17/2016 10:30



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SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Aqueous
E-Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.3	NELAP	Solid
E-SVOA TCL	EPA 625 SOP C-90 Rev 3.5		Aqueous
E-SVOA TCL	EPA 625 SOP C-90 Rev 3.5		Solid
PCB Aroclors TCL	EPA 608 SOP C-91 Rev4.0		Aqueous
PCB Aroclors TCL	EPA 608 SOP C-91 Rev4.0		Solid
VOA Low Level Soil	SOM 2.2 SOP C-123 Rev2.5	NELAP	Solid
VOA Trace/SF	EPA DW-1 Rev 2.4	NELAP	Aqueous



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

NVOA GCMS

1,4-Dioxane	---	U	68.0	ug/kg dry
Benzaldehyde	---	U	102	ug/kg dry
Phenol	110		102	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	102	ug/kg dry
2-Chlorophenol	---	U	102	ug/kg dry
2-Methylphenol	---	U	102	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	102	ug/kg dry
Acetophenone	---	U	102	ug/kg dry
4-Methylphenol	117		102	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	102	ug/kg dry
Hexachloroethane	---	U	102	ug/kg dry
Nitrobenzene	---	U	102	ug/kg dry
Isophorone	---	U	102	ug/kg dry
2-Nitrophenol	---	U	102	ug/kg dry
2,4-Dimethylphenol	---	U	102	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	102	ug/kg dry
2,4-Dichlorophenol	---	U	102	ug/kg dry
Naphthalene	856		102	ug/kg dry
4-Chloroaniline	---	U	102	ug/kg dry
Hexachlorobutadiene	---	U	102	ug/kg dry
Caprolactam	---	U	102	ug/kg dry
4-Chloro-3-Methylphenol	---	U	102	ug/kg dry
2-Methylnaphthalene	602		102	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	102	ug/kg dry
Hexachlorocyclopentadiene	---	U	102	ug/kg dry
2,4,6-Trichlorophenol	---	U	102	ug/kg dry
2,4,5-Trichlorophenol	---	U	102	ug/kg dry
Biphenyl	307		102	ug/kg dry



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Sample ID: 1606029-01

NVOA GCMS

2-Chloronaphthalene	---	U	102	ug/kg dry
2-Nitroaniline	---	U	102	ug/kg dry
Dimethyl Phthalate	---	U	102	ug/kg dry
Acenaphthylene	158		102	ug/kg dry
2,6-Dinitrotoluene	---	U	102	ug/kg dry
3-Nitroaniline	---	U	102	ug/kg dry
Acenaphthene	468		102	ug/kg dry
2,4-Dinitrophenol	---	U J	338	ug/kg dry
4-Nitrophenol	---	U	102	ug/kg dry
Dibenzofuran	1250		102	ug/kg dry
2,4-Dinitrotoluene	---	U	102	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	102	ug/kg dry
Fluorene	367		102	ug/kg dry
Diethylphthalate	---	U	102	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	102	ug/kg dry
4-Nitroaniline	---	U	102	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	102	ug/kg dry
N-Nitrosodiphenylamine	---	U	102	ug/kg dry
4-Bromophenyl-Phenylether	---	U	102	ug/kg dry
Hexachlorobenzene	---	U	102	ug/kg dry
Atrazine	---	U	102	ug/kg dry
Pentachlorophenol	---	U	102	ug/kg dry
Phenanthrene	1890		102	ug/kg dry
Anthracene	350		102	ug/kg dry
Carbazole	228		102	ug/kg dry
Di-N-Butyl Phthalate	---	U	102	ug/kg dry
Fluoranthene	2970		102	ug/kg dry



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Field ID: KR-SS-01-A

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NVOA GCMS

Pyrene	1880		102	ug/kg dry
Butylbenzylphthalate	---	U	102	ug/kg dry
3,3'- Dichlorobenzidine	---	U	102	ug/kg dry
Benzo(A)Anthracene	1060		102	ug/kg dry
Chrysene	1160		102	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	102	ug/kg dry
Di-N-Octyl Phthalate	---	U	102	ug/kg dry
Benzo(B)Fluoranthene	2190		102	ug/kg dry
Benzo(K)Fluoranthene	599		102	ug/kg dry
Benzo(A)Pyrene	684		102	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	851		102	ug/kg dry
Dibenzo(A,H)Anthracene	220		102	ug/kg dry
Benzo(G,H,I)Perylene	620		102	ug/kg dry
1,8-Naphthalic anhydride	711	NJ		ug/kg dry
11H-Benzo[a]fluoren-11-one	758	NJ		ug/kg dry
7H-Benz[de]anthracen-7-one	811	NJ		ug/kg dry
9,10-Anthracenedione	649	NJ		ug/kg dry
Acenaphtho(1,2-B)pyridine	869	NJ		ug/kg dry
Cyclopenta(def)phenanthrenone	887	NJ		ug/kg dry
Naphthalene, 1-methyl-	628	NJ		ug/kg dry
Perylene	1040	NJ		ug/kg dry
Phthalic anhydride	779	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry



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Field ID: KR-SS-01-A

Sample ID: 1606029-01

PCB Aroclors GC

Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	2800		17	mg/kg dry
Antimony	12		3.3	mg/kg dry
Arsenic	120		1.3	mg/kg dry
Barium	92		17	mg/kg dry
Beryllium	0.66		0.50	mg/kg dry
Cadmium	5.4		0.50	mg/kg dry
Calcium	2300		83	mg/kg dry
Chromium	190		0.83	mg/kg dry
Cobalt	35		3.3	mg/kg dry
Copper	460		1.7	mg/kg dry
Iron	350000		83	mg/kg dry
Lead	94		1.3	mg/kg dry
Magnesium	350		83	mg/kg dry
Manganese	1300		0.83	mg/kg dry
Nickel	160		3.3	mg/kg dry
Potassium	410		83	mg/kg dry
Selenium	31		3.3	mg/kg dry
Silver	---	U	0.83	mg/kg dry
Sodium	410		170	mg/kg dry



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-01-A

Sample ID: 1606029-01

Metals ICP

Thallium	---	U	3.3	mg/kg dry
Tin	34		1.7	mg/kg dry
Vanadium	27		3.3	mg/kg dry
Zinc	70		3.3	mg/kg dry

Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

1,4-Dioxane	---	U	73.2	ug/kg dry
Benzaldehyde	---	U	109	ug/kg dry
Phenol	---	U	109	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	109	ug/kg dry
2-Chlorophenol	---	U	109	ug/kg dry
2-Methylphenol	---	U	109	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	109	ug/kg dry
Acetophenone	---	U	109	ug/kg dry
4-Methylphenol	---	U	109	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	109	ug/kg dry
Hexachloroethane	---	U	109	ug/kg dry
Nitrobenzene	---	U	109	ug/kg dry
Isophorone	---	U	109	ug/kg dry
2-Nitrophenol	---	U	109	ug/kg dry
2,4-Dimethylphenol	---	U	109	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	109	ug/kg dry
2,4-Dichlorophenol	---	U	109	ug/kg dry
Naphthalene	212		109	ug/kg dry
4-Chloroaniline	---	U	109	ug/kg dry
Hexachlorobutadiene	---	U	109	ug/kg dry
Caprolactam	---	U	109	ug/kg dry



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

4-Chloro-3-Methylphenol	---	U	109	ug/kg dry
2-Methylnaphthalene	179		109	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	109	ug/kg dry
Hexachlorocyclopentadiene	---	U	109	ug/kg dry
2,4,6-Trichlorophenol	---	U	109	ug/kg dry
2,4,5-Trichlorophenol	---	U	109	ug/kg dry
Biphenyl	---	U	109	ug/kg dry
2-Chloronaphthalene	---	U	109	ug/kg dry
2-Nitroaniline	---	U	109	ug/kg dry
Dimethyl Phthalate	---	U	109	ug/kg dry
Acenaphthylene	850		109	ug/kg dry
2,6-Dinitrotoluene	---	U	109	ug/kg dry
3-Nitroaniline	---	U	109	ug/kg dry
Acenaphthene	---	U	109	ug/kg dry
2,4-Dinitrophenol	---	U J	364	ug/kg dry
4-Nitrophenol	---	U	109	ug/kg dry
Dibenzofuran	154		109	ug/kg dry
2,4-Dinitrotoluene	---	U	109	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	109	ug/kg dry
Fluorene	137		109	ug/kg dry
Diethylphthalate	---	U	109	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	109	ug/kg dry
4-Nitroaniline	---	U	109	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	109	ug/kg dry
N-Nitrosodiphenylamine	---	U	109	ug/kg dry
4-Bromophenyl-Phenylether	---	U	109	ug/kg dry
Hexachlorobenzene	---	U	109	ug/kg dry
Atrazine	---	U	109	ug/kg dry



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Field ID: KR-SS-02-A

Sample ID: 1606029-02

NVOA GCMS

Pentachlorophenol	---	U	109	ug/kg dry
Phenanthrene	1510		109	ug/kg dry
Anthracene	849		109	ug/kg dry
Carbazole	316		109	ug/kg dry
Di-N-Butyl Phthalate	---	U	109	ug/kg dry
Fluoranthene	5260		546	ug/kg dry
Pyrene	4430		546	ug/kg dry
Butylbenzylphthalate	---	U	109	ug/kg dry
3,3'- Dichlorobenzidine	---	U	109	ug/kg dry
Benzo(A)Anthracene	4470		546	ug/kg dry
Chrysene	4520		546	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	109	ug/kg dry
Di-N-Octyl Phthalate	---	U	109	ug/kg dry
Benzo(B)Fluoranthene	6640		546	ug/kg dry
Benzo(K)Fluoranthene	1590		109	ug/kg dry
Benzo(A)Pyrene	3070		109	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1640		109	ug/kg dry
Dibenzo(A,H)Anthracene	451		109	ug/kg dry
Benzo(G,H,I)Perylene	1170		109	ug/kg dry
11H-Benzo[a]fluoren-11-one (01)	1870	NJ		ug/kg dry
11H-Benzo[a]fluorene	875	NJ		ug/kg dry
Benzo[b]naphtho[2,3-d]thiop...	955	NJ		ug/kg dry
Pyrene, 1-methyl-	1220	NJ		ug/kg dry
Pyrene, 2-methyl- (01)	1220	NJ		ug/kg dry
Tetrachloroethylene	2830	NJ		ug/kg dry
Triphenylene, 2-methyl-	1510	NJ		ug/kg dry



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-02-A

Sample ID: 1606029-02

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	6000		8.2	mg/kg dry
Antimony	1.7		1.6	mg/kg dry
Arsenic	9.7		0.66	mg/kg dry
Barium	53		8.2	mg/kg dry
Beryllium	0.38		0.25	mg/kg dry
Cadmium	0.68		0.25	mg/kg dry
Calcium	10000		41	mg/kg dry
Chromium	12		0.41	mg/kg dry
Cobalt	7.4		1.6	mg/kg dry
Copper	53		0.82	mg/kg dry
Iron	19000		4.1	mg/kg dry
Lead	130		0.66	mg/kg dry
Magnesium	2000		41	mg/kg dry
Manganese	400		0.41	mg/kg dry
Nickel	16		1.6	mg/kg dry
Potassium	410		41	mg/kg dry
Selenium	---	U	1.6	mg/kg dry



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-02-A

Sample ID: 1606029-02

Metals ICP

Silver	---	U	0.41	mg/kg dry
Sodium	---	U	82	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	6.1		0.82	mg/kg dry
Vanadium	14		1.6	mg/kg dry
Zinc	190		1.6	mg/kg dry

Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

1,4-Dioxane	---	U L	130	ug/kg dry
Benzaldehyde	---	U L	195	ug/kg dry
Phenol	---	U L	195	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	195	ug/kg dry
2-Chlorophenol	---	U L	195	ug/kg dry
2-Methylphenol	---	U L	195	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	195	ug/kg dry
Acetophenone	---	U L	195	ug/kg dry
4-Methylphenol	---	U L	195	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	195	ug/kg dry
Hexachloroethane	---	U L	195	ug/kg dry
Nitrobenzene	---	U L	195	ug/kg dry
Isophorone	---	U L	195	ug/kg dry
2-Nitrophenol	---	U L	195	ug/kg dry
2,4-Dimethylphenol	---	U L	195	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	195	ug/kg dry
2,4-Dichlorophenol	---	U L	195	ug/kg dry
Naphthalene	---	U L	195	ug/kg dry
4-Chloroaniline	---	U L	195	ug/kg dry
Hexachlorobutadiene	---	U L	195	ug/kg dry



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

Caprolactam	---	U L	195	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	195	ug/kg dry
2-Methylnaphthalene	---	U L	195	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U L	195	ug/kg dry
Hexachlorocyclopentadiene	---	U L	195	ug/kg dry
2,4,6-Trichlorophenol	---	U L	195	ug/kg dry
2,4,5-Trichlorophenol	---	U L	195	ug/kg dry
Biphenyl	---	U L	195	ug/kg dry
2-Chloronaphthalene	---	U L	195	ug/kg dry
2-Nitroaniline	---	U L	195	ug/kg dry
Dimethyl Phthalate	---	U L	195	ug/kg dry
Acenaphthylene	---	U L	195	ug/kg dry
2,6-Dinitrotoluene	---	U L	195	ug/kg dry
3-Nitroaniline	---	U L	195	ug/kg dry
Acenaphthene	1190	L	195	ug/kg dry
2,4-Dinitrophenol	---	U J	648	ug/kg dry
4-Nitrophenol	---	U L	195	ug/kg dry
Dibenzofuran	720	L	195	ug/kg dry
2,4-Dinitrotoluene	---	U L	195	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U L	195	ug/kg dry
Fluorene	1130	L	195	ug/kg dry
Diethylphthalate	---	U L	195	ug/kg dry
4-Chlorophenyl-Phenylether	---	U L	195	ug/kg dry
4-Nitroaniline	---	U L	195	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	195	ug/kg dry
N-Nitrosodiphenylamine	---	U L	195	ug/kg dry
4-Bromophenyl-Phenylether	---	U L	195	ug/kg dry
Hexachlorobenzene	---	U L	195	ug/kg dry



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Field ID: KR-SS-03-A

Sample ID: 1606029-03

NVOA GCMS

Atrazine	---	U L	195	ug/kg dry
Pentachlorophenol	---	U L	195	ug/kg dry
Phenanthrene	7560	L	1950	ug/kg dry
Anthracene	2240	L	195	ug/kg dry
Carbazole	656	L	195	ug/kg dry
Di-N-Butyl Phthalate	---	U L	195	ug/kg dry
Fluoranthene	23300	L	1950	ug/kg dry
Pyrene	12500	L	1950	ug/kg dry
Butylbenzylphthalate	---	U L	195	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	195	ug/kg dry
Benzo(A)Anthracene	1520	L	195	ug/kg dry
Chrysene	6170	L	195	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	3020	J	195	ug/kg dry
Di-N-Octyl Phthalate	---	U L	195	ug/kg dry
Benzo(B)Fluoranthene	---	U L	195	ug/kg dry
Benzo(K)Fluoranthene	---	U L	195	ug/kg dry
Benzo(A)Pyrene	---	U L	195	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	195	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	195	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	195	ug/kg dry
2-Phenylnaphthalene	1010	NJ		ug/kg dry
9,10-Anthracenedione	2300	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	2310	NJ		ug/kg dry
Pentadecane, 2,6,10-trimethyl-	929	NJ		ug/kg dry



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Field ID: KR-SS-03-A

Sample ID: 1606029-03

PCB Aroclors GC

Aroclor 1016	---	U J	41	ug/kg dry
Aroclor 1221	---	U J	81	ug/kg dry
Aroclor 1232	---	U J	41	ug/kg dry
Aroclor 1242	---	U J	41	ug/kg dry
Aroclor 1248	---	U J	41	ug/kg dry
Aroclor 1254	---	U J	41	ug/kg dry
Aroclor 1260	---	U J	41	ug/kg dry
Aroclor 1262	---	U J	41	ug/kg dry
Aroclor 1268	---	U J	41	ug/kg dry

Metals ICP

Aluminum	2000		11	mg/kg dry
Antimony	7.1		2.1	mg/kg dry
Arsenic	30		0.86	mg/kg dry
Barium	45		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Cadmium	7.3		0.32	mg/kg dry
Calcium	7700		54	mg/kg dry
Chromium	220		0.54	mg/kg dry
Cobalt	23		2.1	mg/kg dry
Copper	310		1.1	mg/kg dry
Iron	170000		54	mg/kg dry
Lead	170		0.86	mg/kg dry
Magnesium	770		54	mg/kg dry
Manganese	1100		0.54	mg/kg dry
Nickel	180		2.1	mg/kg dry
Potassium	310		54	mg/kg dry
Selenium	3.5		2.1	mg/kg dry



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Sample ID: 1606029-03

Metals ICP

Silver	---	U	0.54	mg/kg dry
Sodium	150		110	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Tin	21		1.1	mg/kg dry
Vanadium	30		2.1	mg/kg dry
Zinc	330		2.1	mg/kg dry

Field ID: KR-SS-04-A

Sample ID: 1606029-04

NVOA GCMS

1,4-Dioxane	---	U	73.1	ug/kg dry
Benzaldehyde	---	U L	109	ug/kg dry
Phenol	---	U L	109	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	109	ug/kg dry
2-Chlorophenol	---	U L	109	ug/kg dry
2-Methylphenol	---	U L	109	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	109	ug/kg dry
Acetophenone	---	U L	109	ug/kg dry
4-Methylphenol	---	U L	109	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	109	ug/kg dry
Hexachloroethane	---	U L	109	ug/kg dry
Nitrobenzene	---	U L	109	ug/kg dry
Isophorone	---	U L	109	ug/kg dry
2-Nitrophenol	---	U L	109	ug/kg dry
2,4-Dimethylphenol	---	U L	109	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	109	ug/kg dry
2,4-Dichlorophenol	---	U L	109	ug/kg dry
Naphthalene	232		109	ug/kg dry
4-Chloroaniline	---	U	109	ug/kg dry



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Sample ID: 1606029-04

NVOA GCMS

Hexachlorobutadiene	---	U	109	ug/kg dry
Caprolactam	---	U	109	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	109	ug/kg dry
2-Methylnaphthalene	155		109	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	109	ug/kg dry
Hexachlorocyclopentadiene	---	U	109	ug/kg dry
2,4,6-Trichlorophenol	---	U L	109	ug/kg dry
2,4,5-Trichlorophenol	---	U L	109	ug/kg dry
Biphenyl	---	U	109	ug/kg dry
2-Chloronaphthalene	---	U	109	ug/kg dry
2-Nitroaniline	---	U	109	ug/kg dry
Dimethyl Phthalate	---	U	109	ug/kg dry
Acenaphthylene	155		109	ug/kg dry
2,6-Dinitrotoluene	---	U	109	ug/kg dry
3-Nitroaniline	---	U	109	ug/kg dry
Acenaphthene	---	U	109	ug/kg dry
2,4-Dinitrophenol	---	U J	364	ug/kg dry
4-Nitrophenol	---	U L	109	ug/kg dry
Dibenzofuran	---	U	109	ug/kg dry
2,4-Dinitrotoluene	---	U	109	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	109	ug/kg dry
Fluorene	---	U	109	ug/kg dry
Diethylphthalate	---	U	109	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	109	ug/kg dry
4-Nitroaniline	---	U	109	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	109	ug/kg dry
N-Nitrosodiphenylamine	---	U	109	ug/kg dry
4-Bromophenyl-Phenylether	---	U	109	ug/kg dry



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NVOA GCMS

Hexachlorobenzene	---	U	109	ug/kg dry
Atrazine	---	U	109	ug/kg dry
Pentachlorophenol	---	U L	109	ug/kg dry
Phenanthrene	488		109	ug/kg dry
Anthracene	154		109	ug/kg dry
Carbazole	---	U L	109	ug/kg dry
Di-N-Butyl Phthalate	---	U L	109	ug/kg dry
Fluoranthene	1260	L	109	ug/kg dry
Pyrene	1070	L	109	ug/kg dry
Butylbenzylphthalate	---	U L	109	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	109	ug/kg dry
Benzo(A)Anthracene	661	L	109	ug/kg dry
Chrysene	739	L	109	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	109	ug/kg dry
Di-N-Octyl Phthalate	---	U L	109	ug/kg dry
Benzo(B)Fluoranthene	1050	L	109	ug/kg dry
Benzo(K)Fluoranthene	355	L	109	ug/kg dry
Benzo(A)Pyrene	613	L	109	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	383	L	109	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	109	ug/kg dry
Benzo(G,H,I)Perylene	289	L	109	ug/kg dry
11H-Benzo[a]fluoren-11-one	394	NJ		ug/kg dry
11H-Benzo[b]fluorene	501	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	536	NJ		ug/kg dry
Tetrachloroethylene	5890	NJ		ug/kg dry



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Sample ID: 1606029-04

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	68	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5400		8.8	mg/kg dry
Antimony	3.7		1.8	mg/kg dry
Arsenic	9.9		0.70	mg/kg dry
Barium	51		8.8	mg/kg dry
Beryllium	0.37		0.26	mg/kg dry
Cadmium	0.30		0.26	mg/kg dry
Calcium	1200		44	mg/kg dry
Chromium	9.9		0.44	mg/kg dry
Cobalt	6.7		1.8	mg/kg dry
Copper	76		0.88	mg/kg dry
Iron	20000		4.4	mg/kg dry
Lead	130		0.70	mg/kg dry
Magnesium	1900		44	mg/kg dry
Manganese	360		0.44	mg/kg dry
Nickel	14		1.8	mg/kg dry
Potassium	400		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry



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Metals ICP

Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	9.7		0.88	mg/kg dry
Vanadium	13		1.8	mg/kg dry
Zinc	61		1.8	mg/kg dry

Field ID: KR-SS-05-A

Sample ID: 1606029-05

NVOA GCMS

1,4-Dioxane	---	U L	70.7	ug/kg dry
Benzaldehyde	---	U L	106	ug/kg dry
Phenol	---	U L	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U L	106	ug/kg dry
2-Chlorophenol	---	U L	106	ug/kg dry
2-Methylphenol	---	U L	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U L	106	ug/kg dry
Acetophenone	---	U L	106	ug/kg dry
4-Methylphenol	---	U L	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U L	106	ug/kg dry
Hexachloroethane	---	U L	106	ug/kg dry
Nitrobenzene	---	U L	106	ug/kg dry
Isophorone	---	U L	106	ug/kg dry
2-Nitrophenol	---	U L	106	ug/kg dry
2,4-Dimethylphenol	---	U L	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	106	ug/kg dry
2,4-Dichlorophenol	---	U L	106	ug/kg dry
Naphthalene	218	L	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry



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NVOA GCMS

Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	106	ug/kg dry
2-Methylnaphthalene	192		106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry
Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U L	106	ug/kg dry
2,4,5-Trichlorophenol	---	U L	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	---	U	106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	352	ug/kg dry
4-Nitrophenol	---	U L	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U L	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry
4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry



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NVOA GCMS

Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U L	106	ug/kg dry
Phenanthrene	145		106	ug/kg dry
Anthracene	---	U	106	ug/kg dry
Carbazole	---	U L	106	ug/kg dry
Di-N-Butyl Phthalate	---	U L	106	ug/kg dry
Fluoranthene	266	L	106	ug/kg dry
Pyrene	248	L	106	ug/kg dry
Butylbenzylphthalate	---	U L	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	106	ug/kg dry
Benzo(A)Anthracene	126	L	106	ug/kg dry
Chrysene	172	L	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	106	ug/kg dry
Di-N-Octyl Phthalate	---	U L	106	ug/kg dry
Benzo(B)Fluoranthene	248	L	106	ug/kg dry
Benzo(K)Fluoranthene	---	U L	106	ug/kg dry
Benzo(A)Pyrene	---	U L	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	106	ug/kg dry
HEPTADECANE	1590	NJ		ug/kg dry
Hexadecane	2820	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1770	NJ		ug/kg dry
Octadecane	1480	NJ		ug/kg dry
Pentadecane	4200	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	2460	NJ		ug/kg dry



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NVOA GCMS

Tetrachloroethylene	2170	NJ		ug/kg dry
Tetradecane	1490	NJ		ug/kg dry
Undecane	1670	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	5400		8.3	mg/kg dry
Antimony	2.3		1.7	mg/kg dry
Arsenic	8.0		0.66	mg/kg dry
Barium	37		8.3	mg/kg dry
Beryllium	0.27		0.25	mg/kg dry
Cadmium	0.47		0.25	mg/kg dry
Calcium	1300		41	mg/kg dry
Chromium	9.7		0.41	mg/kg dry
Cobalt	5.2		1.7	mg/kg dry
Copper	37		0.83	mg/kg dry
Iron	16000		4.1	mg/kg dry
Lead	90		0.66	mg/kg dry



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Sample ID: 1606029-05

Metals ICP

Magnesium	1700		41	mg/kg dry	
Manganese	290		0.41	mg/kg dry	
Nickel	13		1.7	mg/kg dry	
Potassium	340		41	mg/kg dry	
Selenium	---	U	1.7	mg/kg dry	
Silver	---	U	0.41	mg/kg dry	
Sodium	---	U	83	mg/kg dry	
Thallium	---	U	1.7	mg/kg dry	
Tin	5.3		0.83	mg/kg dry	
Vanadium	13		1.7	mg/kg dry	
Zinc	140		1.7	mg/kg dry	

Field ID: KR-SS-06-A

Sample ID: 1606029-06

NVOA GCMS

1,4-Dioxane	---	U	71.0	ug/kg dry	
Benzaldehyde	---	U L	106	ug/kg dry	
Phenol	---	U L	106	ug/kg dry	
Bis(2-Chloroethyl)Ether	---	U L	106	ug/kg dry	
2-Chlorophenol	---	U L	106	ug/kg dry	
2-Methylphenol	---	U L	106	ug/kg dry	
Bis(2-Chloroisopropyl)Ether	---	U L	106	ug/kg dry	
Acetophenone	---	U L	106	ug/kg dry	
4-Methylphenol	---	U L	106	ug/kg dry	
N-Nitroso-Di-N-Propylamine	---	U L	106	ug/kg dry	
Hexachloroethane	---	U L	106	ug/kg dry	
Nitrobenzene	---	U L	106	ug/kg dry	
Isophorone	---	U L	106	ug/kg dry	
2-Nitrophenol	---	U L	106	ug/kg dry	



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Field ID: KR-SS-06-A

Sample ID: 1606029-06

NVOA GCMS

2,4-Dimethylphenol	---	U L	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U L	106	ug/kg dry
2,4-Dichlorophenol	---	U L	106	ug/kg dry
Naphthalene	113	L	106	ug/kg dry
4-Chloroaniline	---	U L	106	ug/kg dry
Hexachlorobutadiene	---	U L	106	ug/kg dry
Caprolactam	---	U L	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U L	106	ug/kg dry
2-Methylnaphthalene	---	U L	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U L	106	ug/kg dry
Hexachlorocyclopentadiene	---	U L	106	ug/kg dry
2,4,6-Trichlorophenol	---	U L	106	ug/kg dry
2,4,5-Trichlorophenol	---	U L	106	ug/kg dry
Biphenyl	---	U L	106	ug/kg dry
2-Chloronaphthalene	---	U L	106	ug/kg dry
2-Nitroaniline	---	U L	106	ug/kg dry
Dimethyl Phthalate	---	U L	106	ug/kg dry
Acenaphthylene	---	U L	106	ug/kg dry
2,6-Dinitrotoluene	---	U L	106	ug/kg dry
3-Nitroaniline	---	U L	106	ug/kg dry
Acenaphthene	---	U L	106	ug/kg dry
2,4-Dinitrophenol	---	U J	353	ug/kg dry
4-Nitrophenol	---	U L	106	ug/kg dry
Dibenzofuran	---	U L	106	ug/kg dry
2,4-Dinitrotoluene	---	U L	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U L	106	ug/kg dry
Fluorene	---	U L	106	ug/kg dry
Diethylphthalate	---	U L	106	ug/kg dry



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Sample ID: 1606029-06

NVOA GCMS

4-Chlorophenyl-Phenylether	---	U L	106	ug/kg dry
4-Nitroaniline	---	U L	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	106	ug/kg dry
N-Nitrosodiphenylamine	---	U L	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U L	106	ug/kg dry
Hexachlorobenzene	---	U L	106	ug/kg dry
Atrazine	---	U L	106	ug/kg dry
Pentachlorophenol	---	U L	106	ug/kg dry
Phenanthrene	---	U L	106	ug/kg dry
Anthracene	---	U L	106	ug/kg dry
Carbazole	---	U L	106	ug/kg dry
Di-N-Butyl Phthalate	---	U L	106	ug/kg dry
Fluoranthene	---	U L	106	ug/kg dry
Pyrene	---	U L	106	ug/kg dry
Butylbenzylphthalate	---	U L	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U L	106	ug/kg dry
Benzo(A)Anthracene	---	U L	106	ug/kg dry
Chrysene	---	U L	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U L	106	ug/kg dry
Di-N-Octyl Phthalate	---	U L	106	ug/kg dry
Benzo(B)Fluoranthene	---	U L	106	ug/kg dry
Benzo(K)Fluoranthene	---	U L	106	ug/kg dry
Benzo(A)Pyrene	---	U L	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U L	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U L	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U L	106	ug/kg dry
Eicosane	454	NJ		ug/kg dry
HEPTADECANE	443	NJ		ug/kg dry



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Field ID: KR-SS-06-A

Sample ID: 1606029-06

NVOA GCMS

Hexadecane (01)	583	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	604	NJ		ug/kg dry
Pentadecane	904	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	1210	NJ		ug/kg dry
Pentadecane, 2,6,10-trimethyl-	783	NJ		ug/kg dry
Tetrachloroethylene	6930	NJ		ug/kg dry
Tetradecane	487	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	5500		8.3	mg/kg dry
Antimony	3.4		1.7	mg/kg dry
Arsenic	9.7		0.66	mg/kg dry
Barium	56		8.3	mg/kg dry
Beryllium	0.31		0.25	mg/kg dry
Cadmium	0.72		0.25	mg/kg dry
Calcium	4300		41	mg/kg dry
Chromium	14		0.41	mg/kg dry



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Field ID: KR-SS-06-A

Sample ID: 1606029-06

Metals ICP

Cobalt	6.4		1.7	mg/kg dry
Copper	72		0.83	mg/kg dry
Iron	22000		4.1	mg/kg dry
Lead	170		0.66	mg/kg dry
Magnesium	1800		41	mg/kg dry
Manganese	380		0.41	mg/kg dry
Nickel	18		1.7	mg/kg dry
Potassium	430		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	8.7		0.83	mg/kg dry
Vanadium	13		1.7	mg/kg dry
Zinc	310		1.7	mg/kg dry

Field ID: KR-SS-07-A

Sample ID: 1606029-07

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	154		108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry



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Field ID: KR-SS-07-A

Sample ID: 1606029-07

NVOA GCMS

N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	564		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	548		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	---	U	108	ug/kg dry
Acenaphthylene	1140		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	361	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry



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Sample ID: 1606029-07

NVOA GCMS

Dibenzofuran	290		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	1120		108	ug/kg dry
Anthracene	795		108	ug/kg dry
Carbazole	268		108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	4490		541	ug/kg dry
Pyrene	3870		541	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	3380		108	ug/kg dry
Chrysene	3590		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	560		108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	6540		541	ug/kg dry
Benzo(K)Fluoranthene	1470		108	ug/kg dry



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NVOA GCMS

Benzo(A)Pyrene	2610		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1350		108	ug/kg dry
Dibenzo(A,H)Anthracene	374		108	ug/kg dry
Benzo(G,H,I)Perylene	969		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	1850	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	1420	NJ		ug/kg dry
Benzenesulfonamide, N-butyl-	1330	NJ		ug/kg dry
di-p-Tolylacetylene	1010	NJ		ug/kg dry
HENTRIACONTANE	1020	NJ		ug/kg dry
Naphthalene, 1-methyl-	1000	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	974	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	1210	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5600		8.3	mg/kg dry
Antimony	4.6		1.7	mg/kg dry
Arsenic	10		0.66	mg/kg dry



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Metals ICP

Barium	59		8.3	mg/kg dry
Beryllium	0.34		0.25	mg/kg dry
Cadmium	0.64		0.25	mg/kg dry
Calcium	3700		41	mg/kg dry
Chromium	15		0.41	mg/kg dry
Cobalt	6.5		1.7	mg/kg dry
Copper	100		0.83	mg/kg dry
Iron	28000		4.1	mg/kg dry
Lead	170		0.66	mg/kg dry
Magnesium	1500		41	mg/kg dry
Manganese	370		0.41	mg/kg dry
Nickel	18		1.7	mg/kg dry
Potassium	410		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	16		0.83	mg/kg dry
Vanadium	16		1.7	mg/kg dry
Zinc	84		1.7	mg/kg dry

Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

1,4-Dioxane	---	U	74.9	ug/kg dry
Benzaldehyde	162		112	ug/kg dry
Phenol	---	U	112	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	112	ug/kg dry



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Field ID: KR-SS-08-A

Sample ID: 1606029-08

NVOA GCMS

2-Chlorophenol	---	U	112	ug/kg dry
2-Methylphenol	---	U	112	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	112	ug/kg dry
Acetophenone	---	U	112	ug/kg dry
4-Methylphenol	---	U	112	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	112	ug/kg dry
Hexachloroethane	---	U	112	ug/kg dry
Nitrobenzene	---	U	112	ug/kg dry
Isophorone	---	U	112	ug/kg dry
2-Nitrophenol	---	U	112	ug/kg dry
2,4-Dimethylphenol	---	U	112	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	112	ug/kg dry
2,4-Dichlorophenol	---	U	112	ug/kg dry
Naphthalene	333		112	ug/kg dry
4-Chloroaniline	---	U	112	ug/kg dry
Hexachlorobutadiene	---	U	112	ug/kg dry
Caprolactam	---	U	112	ug/kg dry
4-Chloro-3-Methylphenol	---	U	112	ug/kg dry
2-Methylnaphthalene	352		112	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	112	ug/kg dry
Hexachlorocyclopentadiene	---	U L	112	ug/kg dry
2,4,6-Trichlorophenol	---	U	112	ug/kg dry
2,4,5-Trichlorophenol	---	U	112	ug/kg dry
Biphenyl	---	U	112	ug/kg dry
2-Chloronaphthalene	---	U	112	ug/kg dry
2-Nitroaniline	---	U	112	ug/kg dry
Dimethyl Phthalate	---	U	112	ug/kg dry
Acenaphthylene	466		112	ug/kg dry



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NVOA GCMS

2,6-Dinitrotoluene	---	U	112	ug/kg dry
3-Nitroaniline	---	U	112	ug/kg dry
Acenaphthene	---	U	112	ug/kg dry
2,4-Dinitrophenol	---	U J	372	ug/kg dry
4-Nitrophenol	---	U	112	ug/kg dry
Dibenzofuran	126		112	ug/kg dry
2,4-Dinitrotoluene	---	U	112	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	112	ug/kg dry
Fluorene	---	U	112	ug/kg dry
Diethylphthalate	---	U	112	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	112	ug/kg dry
4-Nitroaniline	---	U	112	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	112	ug/kg dry
N-Nitrosodiphenylamine	---	U	112	ug/kg dry
4-Bromophenyl-Phenylether	---	U	112	ug/kg dry
Hexachlorobenzene	---	U	112	ug/kg dry
Atrazine	---	U	112	ug/kg dry
Pentachlorophenol	---	U	112	ug/kg dry
Phenanthrene	477		112	ug/kg dry
Anthracene	310		112	ug/kg dry
Carbazole	---	U	112	ug/kg dry
Di-N-Butyl Phthalate	---	U	112	ug/kg dry
Fluoranthene	1580		112	ug/kg dry
Pyrene	1410		112	ug/kg dry
Butylbenzylphthalate	---	U	112	ug/kg dry
3,3'- Dichlorobenzidine	---	U	112	ug/kg dry
Benzo(A)Anthracene	1260		112	ug/kg dry
Chrysene	1250		112	ug/kg dry



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NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	112	ug/kg dry
Di-N-Octyl Phthalate	---	U	112	ug/kg dry
Benzo(B)Fluoranthene	2050		112	ug/kg dry
Benzo(K)Fluoranthene	759		112	ug/kg dry
Benzo(A)Pyrene	1120		112	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	595		112	ug/kg dry
Dibenzo(A,H)Anthracene	144		112	ug/kg dry
Benzo(G,H,I)Perylene	438		112	ug/kg dry
11H-Benzo[a]fluoren-11-one	704	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	896	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	549	NJ		ug/kg dry
Naphthalene, 2-methyl-	603	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	847	NJ		ug/kg dry
Phenanthrene, 2,5-dimethyl-	567	NJ		ug/kg dry
Phenanthrene, 2-methyl-	466	NJ		ug/kg dry
Triphenylene, 2-methyl-	472	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	35	ug/kg dry
Aroclor 1221	---	U J	69	ug/kg dry
Aroclor 1232	---	U J	35	ug/kg dry
Aroclor 1242	---	U J	35	ug/kg dry
Aroclor 1248	---	U J	35	ug/kg dry
Aroclor 1254	---	U J	35	ug/kg dry
Aroclor 1260	---	U J	35	ug/kg dry
Aroclor 1262	---	U J	35	ug/kg dry
Aroclor 1268	---	U J	35	ug/kg dry



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Metals ICP

Aluminum	4600		8.3	mg/kg dry
Antimony	5.1		1.7	mg/kg dry
Arsenic	13		0.66	mg/kg dry
Barium	62		8.3	mg/kg dry
Beryllium	0.33		0.25	mg/kg dry
Cadmium	0.95		0.25	mg/kg dry
Calcium	4700		41	mg/kg dry
Chromium	17		0.41	mg/kg dry
Cobalt	7.0		1.7	mg/kg dry
Copper	100		0.83	mg/kg dry
Iron	49000		21	mg/kg dry
Lead	180		0.66	mg/kg dry
Magnesium	1400		41	mg/kg dry
Manganese	390		0.41	mg/kg dry
Nickel	21		1.7	mg/kg dry
Potassium	380		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	13		0.83	mg/kg dry
Vanadium	14		1.7	mg/kg dry
Zinc	84		1.7	mg/kg dry

Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

1,4-Dioxane	---	U	68.8	ug/kg dry



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Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry
2-Chlorophenol	---	U	103	ug/kg dry
2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U L	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry
2-Chloronaphthalene	---	U	103	ug/kg dry



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Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	---	U	103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry
2,6-Dinitrotoluene	---	U	103	ug/kg dry
3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	342	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	186		103	ug/kg dry
Pyrene	146		103	ug/kg dry
Butylbenzylphthalate	---	U	103	ug/kg dry



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Field ID: KR-SS-10-A

Sample ID: 1606029-09

NVOA GCMS

3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	---	U	103	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	1600	K	103	ug/kg dry
Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	---	U	103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry
1-Hexanol, 2-ethyl-	4160	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	5700		8.3	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	4.6		0.66	mg/kg dry
Barium	22		8.3	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry



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Sample ID: 1606029-09

Metals ICP

Cadmium	---	U	0.25	mg/kg dry
Calcium	17000		41	mg/kg dry
Chromium	8.1		0.41	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	13		0.83	mg/kg dry
Iron	12000		4.1	mg/kg dry
Lead	10		0.66	mg/kg dry
Magnesium	2200		41	mg/kg dry
Manganese	330		0.41	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	360		41	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	83	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.83	mg/kg dry
Vanadium	9.1		1.7	mg/kg dry
Zinc	37		1.7	mg/kg dry

Field ID: KR-SS-11-A

Sample ID: 1606029-10

NVOA GCMS

1,4-Dioxane	---	U	71.6	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry



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Sample ID: 1606029-10

NVOA GCMS

Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	491		107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	315		107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry



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NVOA GCMS

Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	656		107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry



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NVOA GCMS

Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry
Benzenesulfonamide, N-butyl-	2010	NJ		ug/kg dry
Dodecane	2910	NJ		ug/kg dry
Dodecane, 2,6,10-trimethyl-	4130	NJ		ug/kg dry
Dodecane, 4-methyl-	9800	NJ		ug/kg dry
Hexadecane (02)	4080	NJ		ug/kg dry
Octacosane	2120	NJ		ug/kg dry
Pentadecane	2980	NJ		ug/kg dry
Pentadecane, 2,6,10,14-tetr...	5890	NJ		ug/kg dry
Tetradecane	2890	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	68	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry



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Metals ICP

Aluminum	4900		8.4	mg/kg dry
Antimony	4.8		1.7	mg/kg dry
Arsenic	12		0.67	mg/kg dry
Barium	46		8.4	mg/kg dry
Beryllium	0.26		0.25	mg/kg dry
Cadmium	1.3		0.25	mg/kg dry
Calcium	1900		42	mg/kg dry
Chromium	14		0.42	mg/kg dry
Cobalt	6.0		1.7	mg/kg dry
Copper	97		0.84	mg/kg dry
Iron	22000		4.2	mg/kg dry
Lead	140		0.67	mg/kg dry
Magnesium	1400		42	mg/kg dry
Manganese	350		0.42	mg/kg dry
Nickel	14		1.7	mg/kg dry
Potassium	370		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	110		84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	11		0.84	mg/kg dry
Vanadium	12		1.7	mg/kg dry
Zinc	75		1.7	mg/kg dry

Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

Dichlorodifluoromethane	---	U	4.9	ug/kg dry



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Field ID: KR-SB-01-A

Sample ID: 1606029-11

VOA GCMS

Chloromethane	---	U	4.9	ug/kg dry
Vinyl Chloride	---	U	4.9	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	4.9	ug/kg dry
Trichlorofluoromethane	---	U	4.9	ug/kg dry
1,1-Dichloroethene	---	U	4.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.9	ug/kg dry
Carbon Disulfide	---	U	4.9	ug/kg dry
Acetone	---	U J	9.8	ug/kg dry
Methyl Acetate	5.7	J	4.9	ug/kg dry
Methylene Chloride	---	U	4.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.9	ug/kg dry
1,1-Dichloroethane	---	U	4.9	ug/kg dry
2-Butanone	---	U	9.8	ug/kg dry
Bromochloromethane	---	U	4.9	ug/kg dry
Chloroform	---	U	4.9	ug/kg dry
1,2-Dichloroethane	---	U	4.9	ug/kg dry
1,1,1-Trichloroethane	---	U	4.9	ug/kg dry
Cyclohexane	---	U	4.9	ug/kg dry
Carbon Tetrachloride	---	U	4.9	ug/kg dry
Benzene	---	U	4.9	ug/kg dry
Trichloroethene	---	U	4.9	ug/kg dry
Methylcyclohexane	---	U	4.9	ug/kg dry
1,2-Dichloropropane	---	U J	4.9	ug/kg dry
Bromodichloromethane	---	U	4.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.8	ug/kg dry



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VOA GCMS

trans-1,3-Dichloropropene	---	U	4.9	ug/kg dry
1,1,2-Trichloroethane	---	U	4.9	ug/kg dry
Dibromochloromethane	---	U	4.9	ug/kg dry
Bromoform	---	U	4.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.8	ug/kg dry
Toluene	---	U	4.9	ug/kg dry
Tetrachloroethene	6.5		4.9	ug/kg dry
2-Hexanone	---	U	95	ug/kg dry
1,2-Dibromoethane	---	U	4.9	ug/kg dry
Chlorobenzene	---	U	4.9	ug/kg dry
Ethylbenzene	---	U	4.9	ug/kg dry
m/p-Xylene	---	U	4.9	ug/kg dry
o-Xylene	---	U	4.9	ug/kg dry
Styrene	---	U	4.9	ug/kg dry
Isopropylbenzene	---	U	4.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.9	ug/kg dry
1,3-Dichlorobenzene	---	U	4.9	ug/kg dry
1,4-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.9	ug/kg dry
Benzene, 1-methyl-2-(1-meth...	250	NJ		ug/kg dry
Dodecane, 6-methyl-	490	NJ		ug/kg dry
Tridecane	430	NJ		ug/kg dry
Undecane (01)	1200	NJ		ug/kg dry



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Sample ID: 1606029-11

NVOA GCMS

1,4-Dioxane	---	U	69.6	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry
Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry
2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry
Caprolactam	---	U	104	ug/kg dry
4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	123		104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry



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NVOA GCMS

2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	238		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	347	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry
2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry
Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry
Atrazine	---	U	104	ug/kg dry
Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	141		104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	---	U	104	ug/kg dry
Pyrene	---	U	104	ug/kg dry



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NVOA GCMS

Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	---	U	104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	---	U	104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry
HEPTADECANE	5690	NJ		ug/kg dry
Hexadecane (01)	4840	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1140	NJ		ug/kg dry
Naphthalene, 1,7-dimethyl-	1250	NJ		ug/kg dry
Naphthalene, 2,3-dimethyl-	1750	NJ		ug/kg dry
Nonadecane	1580	NJ		ug/kg dry
Pentadecane	7800	NJ		ug/kg dry
Tetradecane	6150	NJ		ug/kg dry
Tridecane	3210	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry



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PCB Aroclors GC

Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	5800		8.4	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.1		0.67	mg/kg dry
Barium	23		8.4	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	170		42	mg/kg dry
Chromium	7.3		0.42	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	10		0.84	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	6.1		0.67	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	360		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	350		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.84	mg/kg dry
Vanadium	8.5		1.7	mg/kg dry



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Field ID: KR-SB-01-A

Sample ID: 1606029-11

Metals ICP

Zinc	35		1.7	mg/kg dry	

Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Dichlorodifluoromethane	---	U	4.9	ug/kg dry	
Chloromethane	---	U	4.9	ug/kg dry	
Vinyl Chloride	---	U	4.9	ug/kg dry	
Bromomethane	---	U J	130	ug/kg dry	
Chloroethane	---	U	4.9	ug/kg dry	
Trichlorofluoromethane	---	U	4.9	ug/kg dry	
1,1-Dichloroethene	---	U	4.9	ug/kg dry	
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.9	ug/kg dry	
Carbon Disulfide	---	U	4.9	ug/kg dry	
Acetone	---	U J	9.9	ug/kg dry	
Methyl Acetate	---	U J	4.9	ug/kg dry	
Methylene Chloride	---	U	4.9	ug/kg dry	
trans-1,2-Dichloroethene	---	U	4.9	ug/kg dry	
cis-1,2-Dichloroethene	---	U	4.9	ug/kg dry	
Methyl tert-Butyl Ether	---	U L	4.9	ug/kg dry	
1,1-Dichloroethane	---	U	4.9	ug/kg dry	
2-Butanone	---	U	9.9	ug/kg dry	
Bromochloromethane	---	U	4.9	ug/kg dry	
Chloroform	---	U	4.9	ug/kg dry	
1,2-Dichloroethane	---	U	4.9	ug/kg dry	
1,1,1-Trichloroethane	---	U	4.9	ug/kg dry	
Cyclohexane	---	U	4.9	ug/kg dry	
Carbon Tetrachloride	---	U	4.9	ug/kg dry	
Benzene	---	U	4.9	ug/kg dry	
Trichloroethene	---	U	4.9	ug/kg dry	



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Field ID: KR-SB-06-A

Sample ID: 1606029-12

VOA GCMS

Methylcyclohexane	---	U	4.9	ug/kg dry
1,2-Dichloropropane	---	U J	4.9	ug/kg dry
Bromodichloromethane	---	U	4.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.9	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.9	ug/kg dry
1,1,2-Trichloroethane	---	U	4.9	ug/kg dry
Dibromochloromethane	---	U	4.9	ug/kg dry
Bromoform	---	U	4.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.9	ug/kg dry
Toluene	---	U	4.9	ug/kg dry
Tetrachloroethene	56		4.9	ug/kg dry
2-Hexanone	---	U	96	ug/kg dry
1,2-Dibromoethane	---	U	4.9	ug/kg dry
Chlorobenzene	---	U	4.9	ug/kg dry
Ethylbenzene	---	U	4.9	ug/kg dry
m/p-Xylene	---	U	4.9	ug/kg dry
o-Xylene	---	U	4.9	ug/kg dry
Styrene	---	U	4.9	ug/kg dry
Isopropylbenzene	---	U	4.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.9	ug/kg dry
1,3-Dichlorobenzene	---	U	4.9	ug/kg dry
1,4-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dichlorobenzene	---	U	4.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.9	ug/kg dry
Dodecane	19	NJ		ug/kg dry
Dodecane, 2,6,11-trimethyl-	24	NJ		ug/kg dry



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Field ID: KR-SB-06-A

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VOA GCMS

Hexadecane	14	NJ		ug/kg dry
Naphthalene, 1,6-dimethyl- (01)	38	NJ		ug/kg dry
Naphthalene, 1,6-dimethyl- (02)	30	NJ		ug/kg dry
Naphthalene, 1,7-dimethyl-	14	NJ		ug/kg dry
Naphthalene, 1-methyl-	21	NJ		ug/kg dry
Naphthalene, 2-methyl-	29	NJ		ug/kg dry
Tetradecane	110	NJ		ug/kg dry
Tridecane	82	NJ		ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.8	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry



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Field ID: KR-SB-06-A

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NVOA GCMS

4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U L	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	194		107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	357	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry



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NVOA GCMS

4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	120	J	34	ug/kg dry



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PCB Aroclors GC

Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5600		8.7	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	2.7		0.69	mg/kg dry
Barium	24		8.7	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	370		43	mg/kg dry
Chromium	7.4		0.43	mg/kg dry
Cobalt	5.4		1.7	mg/kg dry
Copper	9.6		0.87	mg/kg dry
Iron	12000		4.3	mg/kg dry
Lead	5.9		0.69	mg/kg dry
Magnesium	2100		43	mg/kg dry
Manganese	370		0.43	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	400		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	87	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.87	mg/kg dry
Vanadium	8.2		1.7	mg/kg dry



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Sample ID: 1606029-12

Metals ICP

Zinc	34		1.7	mg/kg dry	

Field ID: KR-SB-10-A

Sample ID: 1606029-13

VOA GCMS

Dichlorodifluoromethane	---	U	5.1	ug/kg dry	
Chloromethane	---	U	5.1	ug/kg dry	
Vinyl Chloride	---	U	5.1	ug/kg dry	
Bromomethane	---	U J	130	ug/kg dry	
Chloroethane	---	U	5.1	ug/kg dry	
Trichlorofluoromethane	---	U	5.1	ug/kg dry	
1,1-Dichloroethene	---	U	5.1	ug/kg dry	
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.1	ug/kg dry	
Carbon Disulfide	---	U	5.1	ug/kg dry	
Acetone	13	J	10	ug/kg dry	
Methyl Acetate	---	U J	5.1	ug/kg dry	
Methylene Chloride	---	U	5.1	ug/kg dry	
trans-1,2-Dichloroethene	---	U	5.1	ug/kg dry	
cis-1,2-Dichloroethene	---	U	5.1	ug/kg dry	
Methyl tert-Butyl Ether	---	U L	5.1	ug/kg dry	
1,1-Dichloroethane	---	U	5.1	ug/kg dry	
2-Butanone	---	U	10	ug/kg dry	
Bromochloromethane	---	U	5.1	ug/kg dry	
Chloroform	---	U	5.1	ug/kg dry	
1,2-Dichloroethane	---	U	5.1	ug/kg dry	
1,1,1-Trichloroethane	---	U	5.1	ug/kg dry	
Cyclohexane	---	U	5.1	ug/kg dry	
Carbon Tetrachloride	---	U	5.1	ug/kg dry	
Benzene	---	U	5.1	ug/kg dry	
Trichloroethene	---	U	5.1	ug/kg dry	



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VOA GCMS

Methylcyclohexane	---	U	5.1	ug/kg dry
1,2-Dichloropropane	---	U J	5.1	ug/kg dry
Bromodichloromethane	---	U	5.1	ug/kg dry
cis-1,3-Dichloropropene	---	U	10	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.1	ug/kg dry
1,1,2-Trichloroethane	---	U	5.1	ug/kg dry
Dibromochloromethane	---	U	5.1	ug/kg dry
Bromoform	---	U	5.1	ug/kg dry
4-Methyl-2-Pentanone	---	U	10	ug/kg dry
Toluene	---	U	5.1	ug/kg dry
Tetrachloroethene	5.5		5.1	ug/kg dry
2-Hexanone	---	U	99	ug/kg dry
1,2-Dibromoethane	---	U	5.1	ug/kg dry
Chlorobenzene	---	U	5.1	ug/kg dry
Ethylbenzene	---	U	5.1	ug/kg dry
m/p-Xylene	---	U	5.1	ug/kg dry
o-Xylene	---	U	5.1	ug/kg dry
Styrene	---	U	5.1	ug/kg dry
Isopropylbenzene	---	U	5.1	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.1	ug/kg dry
1,3-Dichlorobenzene	---	U	5.1	ug/kg dry
1,4-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.1	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.1	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.1	ug/kg dry
Tetradecane	20	NJ		ug/kg dry
Tridecane	22	NJ		ug/kg dry



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NVOA GCMS

1,4-Dioxane	---	U	72.1	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	---	U	108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	---	U	108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U L	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry



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NVOA GCMS

2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	215		108	ug/kg dry
Acenaphthylene	---	U	108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	359	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	---	U	108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U L	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	---	U	108	ug/kg dry
Anthracene	---	U	108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	172		108	ug/kg dry
Pyrene	168		108	ug/kg dry



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NVOA GCMS

Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	135		108	ug/kg dry
Chrysene	220		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	471	K	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	298		108	ug/kg dry
Benzo(K)Fluoranthene	117		108	ug/kg dry
Benzo(A)Pyrene	127		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	108	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	108	ug/kg dry
Benzo(G,H,I)Perylene	---	U	108	ug/kg dry
1-Hexanol, 2-ethyl-	517	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry



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Metals ICP

Aluminum	6000		8.0	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.8		0.64	mg/kg dry
Barium	28		8.0	mg/kg dry
Beryllium	0.25		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	15000		40	mg/kg dry
Chromium	11		0.40	mg/kg dry
Cobalt	4.9		1.6	mg/kg dry
Copper	11		0.80	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	8.4		0.64	mg/kg dry
Magnesium	2200		40	mg/kg dry
Manganese	320		0.40	mg/kg dry
Nickel	13		1.6	mg/kg dry
Potassium	460		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	80	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.80	mg/kg dry
Vanadium	9.5		1.6	mg/kg dry
Zinc	35		1.6	mg/kg dry

Field ID: KR-SB-02-A

Sample ID: 1606039-01

VOA GCMS

Dichlorodifluoromethane	---	U	4.3	ug/kg dry



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Field ID: KR-SB-02-A

Sample ID: 1606039-01

VOA GCMS

Chloromethane	---	U	4.3	ug/kg dry
Vinyl Chloride	---	U	4.3	ug/kg dry
Bromomethane	---	U J	110	ug/kg dry
Chloroethane	---	U	4.3	ug/kg dry
Trichlorofluoromethane	---	U	4.3	ug/kg dry
1,1-Dichloroethene	---	U	4.3	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.3	ug/kg dry
Carbon Disulfide	---	U	4.3	ug/kg dry
Acetone	12	J	8.6	ug/kg dry
Methyl Acetate	6.9	J	4.3	ug/kg dry
Methylene Chloride	---	U	4.3	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.3	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.3	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.3	ug/kg dry
1,1-Dichloroethane	---	U	4.3	ug/kg dry
2-Butanone	---	U	8.6	ug/kg dry
Bromochloromethane	---	U	4.3	ug/kg dry
Chloroform	---	U	4.3	ug/kg dry
1,2-Dichloroethane	---	U	4.3	ug/kg dry
1,1,1-Trichloroethane	---	U	4.3	ug/kg dry
Cyclohexane	---	U	4.3	ug/kg dry
Carbon Tetrachloride	---	U	4.3	ug/kg dry
Benzene	---	U	4.3	ug/kg dry
Trichloroethene	---	U	4.3	ug/kg dry
Methylcyclohexane	---	U	4.3	ug/kg dry
1,2-Dichloropropane	---	U J	4.3	ug/kg dry
Bromodichloromethane	---	U	4.3	ug/kg dry
cis-1,3-Dichloropropene	---	U	8.6	ug/kg dry



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Sample ID: 1606039-01

VOA GCMS

trans-1,3-Dichloropropene	---	U	4.3	ug/kg dry
1,1,2-Trichloroethane	---	U	4.3	ug/kg dry
Dibromochloromethane	---	U	4.3	ug/kg dry
Bromoform	---	U	4.3	ug/kg dry
4-Methyl-2-Pentanone	---	U	8.6	ug/kg dry
Toluene	---	U	4.3	ug/kg dry
Tetrachloroethene	43		4.3	ug/kg dry
2-Hexanone	---	U	84	ug/kg dry
1,2-Dibromoethane	---	U	4.3	ug/kg dry
Chlorobenzene	---	U	4.3	ug/kg dry
Ethylbenzene	---	U	4.3	ug/kg dry
m/p-Xylene	---	U	4.3	ug/kg dry
o-Xylene	---	U	4.3	ug/kg dry
Styrene	---	U	4.3	ug/kg dry
Isopropylbenzene	---	U	4.3	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.3	ug/kg dry
1,3-Dichlorobenzene	---	U	4.3	ug/kg dry
1,4-Dichlorobenzene	---	U	4.3	ug/kg dry
1,2-Dichlorobenzene	---	U	4.3	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.3	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.3	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.3	ug/kg dry
Tridecane	8.7	NJ		ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.6	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry



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NVOA GCMS

2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry
Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry



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NVOA GCMS

2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry
Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	161		107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	274		107	ug/kg dry
Pyrene	241		107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	122		107	ug/kg dry
Chrysene	140		107	ug/kg dry



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NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	169		107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	114		107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry
Tetrachloroethylene	391	NJ		ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	6100		7.9	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.8		0.63	mg/kg dry
Barium	30		7.9	mg/kg dry
Beryllium	0.28		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	480		40	mg/kg dry



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Metals ICP

Chromium	7.2		0.40	mg/kg dry
Cobalt	6.0		1.6	mg/kg dry
Copper	17		0.79	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	17		0.63	mg/kg dry
Magnesium	1800		40	mg/kg dry
Manganese	390		0.40	mg/kg dry
Nickel	12		1.6	mg/kg dry
Potassium	280		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.40	mg/kg dry
Sodium	---	U	79	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.79	mg/kg dry
Vanadium	9.3		1.6	mg/kg dry
Zinc	36		1.6	mg/kg dry

Field ID: KR-SB-03-A

Sample ID: 1606039-02

VOA GCMS

Dichlorodifluoromethane	---	U	4.5	ug/kg dry
Chloromethane	6.3		4.5	ug/kg dry
Vinyl Chloride	---	U	4.5	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.5	ug/kg dry
Trichlorofluoromethane	---	U	4.5	ug/kg dry
1,1-Dichloroethene	---	U	4.5	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.5	ug/kg dry



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VOA GCMS

Carbon Disulfide	---	U	4.5	ug/kg dry
Acetone	16	J	9.0	ug/kg dry
Methyl Acetate	5.4	J	4.5	ug/kg dry
Methylene Chloride	---	U	4.5	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.5	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.5	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.5	ug/kg dry
1,1-Dichloroethane	---	U	4.5	ug/kg dry
2-Butanone	---	U	9.0	ug/kg dry
Bromochloromethane	---	U	4.5	ug/kg dry
Chloroform	---	U	4.5	ug/kg dry
1,2-Dichloroethane	---	U	4.5	ug/kg dry
1,1,1-Trichloroethane	---	U	4.5	ug/kg dry
Cyclohexane	---	U	4.5	ug/kg dry
Carbon Tetrachloride	---	U	4.5	ug/kg dry
Benzene	---	U	4.5	ug/kg dry
Trichloroethene	---	U	4.5	ug/kg dry
Methylcyclohexane	---	U	4.5	ug/kg dry
1,2-Dichloropropane	---	U J	4.5	ug/kg dry
Bromodichloromethane	---	U	4.5	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.0	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.5	ug/kg dry
1,1,2-Trichloroethane	---	U	4.5	ug/kg dry
Dibromochloromethane	---	U	4.5	ug/kg dry
Bromoform	---	U	4.5	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.0	ug/kg dry
Toluene	---	U	4.5	ug/kg dry
Tetrachloroethene	260		26	ug/kg dry



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VOA GCMS

2-Hexanone	---	U	88	ug/kg dry
1,2-Dibromoethane	---	U	4.5	ug/kg dry
Chlorobenzene	---	U	4.5	ug/kg dry
Ethylbenzene	---	U	4.5	ug/kg dry
m/p-Xylene	---	U	4.5	ug/kg dry
o-Xylene	---	U	4.5	ug/kg dry
Styrene	---	U L	4.5	ug/kg dry
Isopropylbenzene	---	U	4.5	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.5	ug/kg dry
1,3-Dichlorobenzene	---	U	4.5	ug/kg dry
1,4-Dichlorobenzene	---	U	4.5	ug/kg dry
1,2-Dichlorobenzene	---	U	4.5	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.5	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.5	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.5	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.5	ug/kg dry
Benzaldehyde	---	U	107	ug/kg dry
Phenol	---	U	107	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	107	ug/kg dry
2-Chlorophenol	---	U	107	ug/kg dry
2-Methylphenol	---	U	107	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	107	ug/kg dry
Acetophenone	---	U	107	ug/kg dry
4-Methylphenol	---	U	107	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	107	ug/kg dry
Hexachloroethane	---	U	107	ug/kg dry
Nitrobenzene	---	U	107	ug/kg dry



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NVOA GCMS

Isophorone	---	U	107	ug/kg dry
2-Nitrophenol	---	U	107	ug/kg dry
2,4-Dimethylphenol	---	U	107	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	107	ug/kg dry
2,4-Dichlorophenol	---	U	107	ug/kg dry
Naphthalene	---	U	107	ug/kg dry
4-Chloroaniline	---	U	107	ug/kg dry
Hexachlorobutadiene	---	U	107	ug/kg dry
Caprolactam	---	U	107	ug/kg dry
4-Chloro-3-Methylphenol	---	U	107	ug/kg dry
2-Methylnaphthalene	---	U	107	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	107	ug/kg dry
Hexachlorocyclopentadiene	---	U	107	ug/kg dry
2,4,6-Trichlorophenol	---	U	107	ug/kg dry
2,4,5-Trichlorophenol	---	U	107	ug/kg dry
Biphenyl	---	U	107	ug/kg dry
2-Chloronaphthalene	---	U	107	ug/kg dry
2-Nitroaniline	---	U	107	ug/kg dry
Dimethyl Phthalate	---	U	107	ug/kg dry
Acenaphthylene	---	U	107	ug/kg dry
2,6-Dinitrotoluene	---	U	107	ug/kg dry
3-Nitroaniline	---	U	107	ug/kg dry
Acenaphthene	---	U	107	ug/kg dry
2,4-Dinitrophenol	---	U J	356	ug/kg dry
4-Nitrophenol	---	U	107	ug/kg dry
Dibenzofuran	---	U	107	ug/kg dry
2,4-Dinitrotoluene	---	U	107	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	107	ug/kg dry



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NVOA GCMS

Fluorene	---	U	107	ug/kg dry
Diethylphthalate	---	U	107	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	107	ug/kg dry
4-Nitroaniline	---	U	107	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	107	ug/kg dry
N-Nitrosodiphenylamine	---	U	107	ug/kg dry
4-Bromophenyl-Phenylether	---	U	107	ug/kg dry
Hexachlorobenzene	---	U	107	ug/kg dry
Atrazine	---	U	107	ug/kg dry
Pentachlorophenol	---	U	107	ug/kg dry
Phenanthrene	---	U	107	ug/kg dry
Anthracene	---	U	107	ug/kg dry
Carbazole	---	U	107	ug/kg dry
Di-N-Butyl Phthalate	---	U	107	ug/kg dry
Fluoranthene	---	U	107	ug/kg dry
Pyrene	---	U	107	ug/kg dry
Butylbenzylphthalate	---	U	107	ug/kg dry
3,3'- Dichlorobenzidine	---	U	107	ug/kg dry
Benzo(A)Anthracene	---	U	107	ug/kg dry
Chrysene	---	U	107	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	107	ug/kg dry
Di-N-Octyl Phthalate	---	U	107	ug/kg dry
Benzo(B)Fluoranthene	---	U	107	ug/kg dry
Benzo(K)Fluoranthene	---	U	107	ug/kg dry
Benzo(A)Pyrene	---	U	107	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	107	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	107	ug/kg dry
Benzo(G,H,I)Perylene	---	U	107	ug/kg dry



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PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	270	J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	7000		7.9	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.1		0.64	mg/kg dry
Barium	20		7.9	mg/kg dry
Beryllium	0.25		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	320		40	mg/kg dry
Chromium	7.6		0.40	mg/kg dry
Cobalt	5.1		1.6	mg/kg dry
Copper	8.0		0.79	mg/kg dry
Iron	12000		4.0	mg/kg dry
Lead	5.9		0.64	mg/kg dry
Magnesium	1800		40	mg/kg dry
Manganese	340		0.40	mg/kg dry
Nickel	13		1.6	mg/kg dry
Potassium	250		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry



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Metals ICP

Silver	---	U	0.40	mg/kg dry
Sodium	---	U	79	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	---	U	0.79	mg/kg dry
Vanadium	10		1.6	mg/kg dry
Zinc	33		1.6	mg/kg dry

Field ID: KR-SB-04-A

Sample ID: 1606039-03

VOA GCMS

Dichlorodifluoromethane	---	U	5.3	ug/kg dry
Chloromethane	---	U	5.3	ug/kg dry
Vinyl Chloride	---	U	5.3	ug/kg dry
Bromomethane	---	U J	140	ug/kg dry
Chloroethane	---	U	5.3	ug/kg dry
Trichlorofluoromethane	---	U	5.3	ug/kg dry
1,1-Dichloroethene	---	U	5.3	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.3	ug/kg dry
Carbon Disulfide	---	U	5.3	ug/kg dry
Acetone	---	U J	11	ug/kg dry
Methyl Acetate	---	U J	5.3	ug/kg dry
Methylene Chloride	---	U	5.3	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.3	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.3	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.3	ug/kg dry
1,1-Dichloroethane	---	U	5.3	ug/kg dry
2-Butanone	---	U	11	ug/kg dry
Bromochloromethane	---	U	5.3	ug/kg dry
Chloroform	---	U	5.3	ug/kg dry
1,2-Dichloroethane	---	U	5.3	ug/kg dry



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Sample ID: 1606039-03

VOA GCMS

1,1,1-Trichloroethane	---	U	5.3	ug/kg dry
Cyclohexane	---	U	5.3	ug/kg dry
Carbon Tetrachloride	---	U	5.3	ug/kg dry
Benzene	---	U	5.3	ug/kg dry
Trichloroethene	---	U	5.3	ug/kg dry
Methylcyclohexane	---	U	5.3	ug/kg dry
1,2-Dichloropropane	---	U J	5.3	ug/kg dry
Bromodichloromethane	---	U	5.3	ug/kg dry
cis-1,3-Dichloropropene	---	U	11	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.3	ug/kg dry
1,1,2-Trichloroethane	---	U	5.3	ug/kg dry
Dibromochloromethane	---	U	5.3	ug/kg dry
Bromoform	---	U	5.3	ug/kg dry
4-Methyl-2-Pentanone	---	U	11	ug/kg dry
Toluene	---	U	5.3	ug/kg dry
Tetrachloroethene	17		5.3	ug/kg dry
2-Hexanone	---	U	100	ug/kg dry
1,2-Dibromoethane	---	U	5.3	ug/kg dry
Chlorobenzene	---	U	5.3	ug/kg dry
Ethylbenzene	---	U	5.3	ug/kg dry
m/p-Xylene	---	U	5.3	ug/kg dry
o-Xylene	---	U	5.3	ug/kg dry
Styrene	---	U	5.3	ug/kg dry
Isopropylbenzene	---	U	5.3	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.3	ug/kg dry
1,3-Dichlorobenzene	---	U	5.3	ug/kg dry
1,4-Dichlorobenzene	---	U	5.3	ug/kg dry
1,2-Dichlorobenzene	---	U	5.3	ug/kg dry



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VOA GCMS

1,2-Dibromo-3-Chloropropane	---	U	5.3	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.3	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.3	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	70.8	ug/kg dry
Benzaldehyde	---	U	106	ug/kg dry
Phenol	---	U	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	106	ug/kg dry
2-Chlorophenol	---	U	106	ug/kg dry
2-Methylphenol	---	U	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	106	ug/kg dry
Acetophenone	---	U	106	ug/kg dry
4-Methylphenol	---	U	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	106	ug/kg dry
Hexachloroethane	---	U	106	ug/kg dry
Nitrobenzene	---	U	106	ug/kg dry
Isophorone	---	U	106	ug/kg dry
2-Nitrophenol	---	U	106	ug/kg dry
2,4-Dimethylphenol	---	U	106	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	106	ug/kg dry
2,4-Dichlorophenol	---	U	106	ug/kg dry
Naphthalene	---	U	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry
Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U	106	ug/kg dry
2-Methylnaphthalene	---	U	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry



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NVOA GCMS

Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U	106	ug/kg dry
2,4,5-Trichlorophenol	---	U	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	---	U	106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	352	ug/kg dry
4-Nitrophenol	---	U	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry
4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry
Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U	106	ug/kg dry
Phenanthrene	---	U	106	ug/kg dry
Anthracene	---	U	106	ug/kg dry



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NVOA GCMS

Carbazole	---	U	106	ug/kg dry
Di-N-Butyl Phthalate	---	U	106	ug/kg dry
Fluoranthene	---	U	106	ug/kg dry
Pyrene	---	U	106	ug/kg dry
Butylbenzylphthalate	---	U	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U	106	ug/kg dry
Benzo(A)Anthracene	---	U	106	ug/kg dry
Chrysene	---	U	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	106	ug/kg dry
Di-N-Octyl Phthalate	---	U	106	ug/kg dry
Benzo(B)Fluoranthene	---	U	106	ug/kg dry
Benzo(K)Fluoranthene	---	U	106	ug/kg dry
Benzo(A)Pyrene	---	U	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U	106	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry



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Sample ID: 1606039-03

Metals ICP

Aluminum	6100		8.6	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.0		0.69	mg/kg dry
Barium	11		8.6	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	230		43	mg/kg dry
Chromium	7.2		0.43	mg/kg dry
Cobalt	5.3		1.7	mg/kg dry
Copper	10		0.86	mg/kg dry
Iron	11000		4.3	mg/kg dry
Lead	7.6		0.69	mg/kg dry
Magnesium	2000		43	mg/kg dry
Manganese	300		0.43	mg/kg dry
Nickel	12		1.7	mg/kg dry
Potassium	290		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.43	mg/kg dry
Sodium	---	U	86	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.86	mg/kg dry
Vanadium	8.4		1.7	mg/kg dry
Zinc	30		1.7	mg/kg dry

Field ID: KR-SB-05-A

Sample ID: 1606039-04

VOA GCMS

Dichlorodifluoromethane	---	U	5.9	ug/kg dry



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Sample ID: 1606039-04

VOA GCMS

Chloromethane	7.0		5.9	ug/kg dry
Vinyl Chloride	---	U	5.9	ug/kg dry
Bromomethane	---	U J	150	ug/kg dry
Chloroethane	---	U	5.9	ug/kg dry
Trichlorofluoromethane	---	U	5.9	ug/kg dry
1,1-Dichloroethene	---	U	5.9	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.9	ug/kg dry
Carbon Disulfide	---	U	5.9	ug/kg dry
Acetone	36	J	12	ug/kg dry
Methyl Acetate	9.7	J	5.9	ug/kg dry
Methylene Chloride	---	U	5.9	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.9	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.9	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.9	ug/kg dry
1,1-Dichloroethane	---	U	5.9	ug/kg dry
2-Butanone	---	U	12	ug/kg dry
Bromochloromethane	---	U	5.9	ug/kg dry
Chloroform	---	U	5.9	ug/kg dry
1,2-Dichloroethane	---	U	5.9	ug/kg dry
1,1,1-Trichloroethane	---	U	5.9	ug/kg dry
Cyclohexane	---	U	5.9	ug/kg dry
Carbon Tetrachloride	---	U	5.9	ug/kg dry
Benzene	---	U	5.9	ug/kg dry
Trichloroethene	---	U	5.9	ug/kg dry
Methylcyclohexane	---	U	5.9	ug/kg dry
1,2-Dichloropropane	---	U J	5.9	ug/kg dry
Bromodichloromethane	---	U	5.9	ug/kg dry
cis-1,3-Dichloropropene	---	U	12	ug/kg dry



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VOA GCMS

trans-1,3-Dichloropropene	---	U	5.9	ug/kg dry
1,1,2-Trichloroethane	---	U	5.9	ug/kg dry
Dibromochloromethane	---	U	5.9	ug/kg dry
Bromoform	---	U	5.9	ug/kg dry
4-Methyl-2-Pentanone	---	U	12	ug/kg dry
Toluene	---	U	5.9	ug/kg dry
Tetrachloroethene	82		5.9	ug/kg dry
2-Hexanone	---	U	110	ug/kg dry
1,2-Dibromoethane	---	U	5.9	ug/kg dry
Chlorobenzene	---	U	5.9	ug/kg dry
Ethylbenzene	---	U	5.9	ug/kg dry
m/p-Xylene	---	U	5.9	ug/kg dry
o-Xylene	---	U	5.9	ug/kg dry
Styrene	---	U	5.9	ug/kg dry
Isopropylbenzene	---	U	5.9	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	5.9	ug/kg dry
1,3-Dichlorobenzene	---	U	5.9	ug/kg dry
1,4-Dichlorobenzene	---	U	5.9	ug/kg dry
1,2-Dichlorobenzene	---	U	5.9	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.9	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.9	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.9	ug/kg dry
HEXANAL	14			ug/kg dry
Propene	14			ug/kg dry



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Sample ID: 1606039-04

NVOA GCMS

1,4-Dioxane	---	U	69.3	ug/kg dry
Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry
2-Chlorophenol	---	U	103	ug/kg dry
2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry



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NVOA GCMS

2-Chloronaphthalene	---	U	103	ug/kg dry
2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	118		103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry
2,6-Dinitrotoluene	---	U	103	ug/kg dry
3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	345	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	186		103	ug/kg dry
Pyrene	144		103	ug/kg dry



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NVOA GCMS

Butylbenzylphthalate	---	U	103	ug/kg dry
3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	112		103	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	103	ug/kg dry
Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	158		103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	6000		8.5	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.9		0.68	mg/kg dry
Barium	17		8.5	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry



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Metals ICP

Cadmium	---	U	0.25	mg/kg dry
Calcium	170		42	mg/kg dry
Chromium	8.0		0.42	mg/kg dry
Cobalt	5.1		1.7	mg/kg dry
Copper	12		0.85	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	11		0.68	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	330		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	340		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	85	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.85	mg/kg dry
Vanadium	8.8		1.7	mg/kg dry
Zinc	44		1.7	mg/kg dry

Field ID: KR-SB-07-A

Sample ID: 1606039-05

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry



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Sample ID: 1606039-05

VOA GCMS

1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	---	U J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry



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VOA GCMS

Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	6.4		4.7	ug/kg dry
2-Hexanone	---	U	90	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.6	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry



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NVOA GCMS

Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry
2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry
Caprolactam	---	U	104	ug/kg dry
4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	---	U	104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry
2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	128		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	346	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry



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Sample ID: 1606039-05

NVOA GCMS

2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry
Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry
Atrazine	---	U	104	ug/kg dry
Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	---	U	104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	---	U	104	ug/kg dry
Pyrene	---	U	104	ug/kg dry
Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	---	U	104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	---	U	104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry



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Sample ID: 1606039-05

NVOA GCMS

Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	6500		7.5	mg/kg dry
Antimony	---	U	1.5	mg/kg dry
Arsenic	3.4		0.60	mg/kg dry
Barium	11		7.5	mg/kg dry
Beryllium	0.22		0.22	mg/kg dry
Cadmium	---	U	0.22	mg/kg dry
Calcium	250		37	mg/kg dry
Chromium	7.6		0.37	mg/kg dry
Cobalt	5.2		1.5	mg/kg dry
Copper	9.1		0.75	mg/kg dry
Iron	12000		3.7	mg/kg dry
Lead	6.7		0.60	mg/kg dry
Magnesium	2100		37	mg/kg dry
Manganese	270		0.37	mg/kg dry



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Metals ICP

Nickel	13		1.5	mg/kg dry
Potassium	280		37	mg/kg dry
Selenium	---	U	1.5	mg/kg dry
Silver	---	U	0.37	mg/kg dry
Sodium	---	U	75	mg/kg dry
Thallium	---	U	1.5	mg/kg dry
Tin	---	U	0.75	mg/kg dry
Vanadium	9.6		1.5	mg/kg dry
Zinc	29		1.5	mg/kg dry

Field ID: KR-SB-08-A

Sample ID: 1606039-06

VOA GCMS

Dichlorodifluoromethane	---	U	5.1	ug/kg dry
Chloromethane	---	U	5.1	ug/kg dry
Vinyl Chloride	---	U	5.1	ug/kg dry
Bromomethane	---	U J	130	ug/kg dry
Chloroethane	---	U	5.1	ug/kg dry
Trichlorofluoromethane	---	U	5.1	ug/kg dry
1,1-Dichloroethene	---	U	5.1	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.1	ug/kg dry
Carbon Disulfide	---	U	5.1	ug/kg dry
Acetone	11	J	10	ug/kg dry
Methyl Acetate	---	U J	5.1	ug/kg dry
Methylene Chloride	---	U	5.1	ug/kg dry
trans-1,2-Dichloroethene	---	U	5.1	ug/kg dry
cis-1,2-Dichloroethene	---	U	5.1	ug/kg dry
Methyl tert-Butyl Ether	---	U L	5.1	ug/kg dry
1,1-Dichloroethane	---	U	5.1	ug/kg dry



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VOA GCMS

2-Butanone	---	U	10	ug/kg dry
Bromochloromethane	---	U	5.1	ug/kg dry
Chloroform	---	U	5.1	ug/kg dry
1,2-Dichloroethane	---	U	5.1	ug/kg dry
1,1,1-Trichloroethane	---	U	5.1	ug/kg dry
Cyclohexane	---	U	5.1	ug/kg dry
Carbon Tetrachloride	---	U	5.1	ug/kg dry
Benzene	---	U	5.1	ug/kg dry
Trichloroethene	---	U	5.1	ug/kg dry
Methylcyclohexane	---	U	5.1	ug/kg dry
1,2-Dichloropropane	---	U J	5.1	ug/kg dry
Bromodichloromethane	---	U	5.1	ug/kg dry
cis-1,3-Dichloropropene	---	U	10	ug/kg dry
trans-1,3-Dichloropropene	---	U	5.1	ug/kg dry
1,1,2-Trichloroethane	---	U	5.1	ug/kg dry
Dibromochloromethane	---	U	5.1	ug/kg dry
Bromoform	---	U	5.1	ug/kg dry
4-Methyl-2-Pentanone	---	U	10	ug/kg dry
Toluene	---	U	5.1	ug/kg dry
Tetrachloroethene	9.7		5.1	ug/kg dry
2-Hexanone	---	U	98	ug/kg dry
1,2-Dibromoethane	---	U	5.1	ug/kg dry
Chlorobenzene	---	U	5.1	ug/kg dry
Ethylbenzene	---	U	5.1	ug/kg dry
m/p-Xylene	---	U	5.1	ug/kg dry
o-Xylene	---	U	5.1	ug/kg dry
Styrene	---	U	5.1	ug/kg dry
Isopropylbenzene	---	U	5.1	ug/kg dry



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Sample ID: 1606039-06

VOA GCMS

1,1,2,2-Tetrachloroethane	---	U	5.1	ug/kg dry
1,3-Dichlorobenzene	---	U	5.1	ug/kg dry
1,4-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dichlorobenzene	---	U	5.1	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	5.1	ug/kg dry
1,2,4-Trichlorobenzene	---	U	5.1	ug/kg dry
1,2,3-Trichlorobenzene	---	U	5.1	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.8	ug/kg dry
Benzaldehyde	---	U	104	ug/kg dry
Phenol	---	U	104	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	104	ug/kg dry
2-Chlorophenol	---	U	104	ug/kg dry
2-Methylphenol	---	U	104	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	104	ug/kg dry
Acetophenone	---	U	104	ug/kg dry
4-Methylphenol	---	U	104	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	104	ug/kg dry
Hexachloroethane	---	U	104	ug/kg dry
Nitrobenzene	---	U	104	ug/kg dry
Isophorone	---	U	104	ug/kg dry
2-Nitrophenol	---	U	104	ug/kg dry
2,4-Dimethylphenol	---	U	104	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	104	ug/kg dry
2,4-Dichlorophenol	---	U	104	ug/kg dry
Naphthalene	---	U	104	ug/kg dry
4-Chloroaniline	---	U	104	ug/kg dry
Hexachlorobutadiene	---	U	104	ug/kg dry



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NVOA GCMS

Caprolactam	---	U	104	ug/kg dry
4-Chloro-3-Methylphenol	---	U	104	ug/kg dry
2-Methylnaphthalene	---	U	104	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	104	ug/kg dry
Hexachlorocyclopentadiene	---	U	104	ug/kg dry
2,4,6-Trichlorophenol	---	U	104	ug/kg dry
2,4,5-Trichlorophenol	---	U	104	ug/kg dry
Biphenyl	---	U	104	ug/kg dry
2-Chloronaphthalene	---	U	104	ug/kg dry
2-Nitroaniline	---	U	104	ug/kg dry
Dimethyl Phthalate	176		104	ug/kg dry
Acenaphthylene	---	U	104	ug/kg dry
2,6-Dinitrotoluene	---	U	104	ug/kg dry
3-Nitroaniline	---	U	104	ug/kg dry
Acenaphthene	---	U	104	ug/kg dry
2,4-Dinitrophenol	---	U J	347	ug/kg dry
4-Nitrophenol	---	U	104	ug/kg dry
Dibenzofuran	---	U	104	ug/kg dry
2,4-Dinitrotoluene	---	U	104	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	104	ug/kg dry
Fluorene	---	U	104	ug/kg dry
Diethylphthalate	---	U	104	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	104	ug/kg dry
4-Nitroaniline	---	U	104	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	104	ug/kg dry
N-Nitrosodiphenylamine	---	U	104	ug/kg dry
4-Bromophenyl-Phenylether	---	U	104	ug/kg dry
Hexachlorobenzene	---	U	104	ug/kg dry



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NVOA GCMS

Atrazine	---	U	104	ug/kg dry
Pentachlorophenol	---	U	104	ug/kg dry
Phenanthrene	123		104	ug/kg dry
Anthracene	---	U	104	ug/kg dry
Carbazole	---	U	104	ug/kg dry
Di-N-Butyl Phthalate	---	U	104	ug/kg dry
Fluoranthene	185		104	ug/kg dry
Pyrene	162		104	ug/kg dry
Butylbenzylphthalate	---	U	104	ug/kg dry
3,3'- Dichlorobenzidine	---	U	104	ug/kg dry
Benzo(A)Anthracene	---	U	104	ug/kg dry
Chrysene	110		104	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	104	ug/kg dry
Di-N-Octyl Phthalate	---	U	104	ug/kg dry
Benzo(B)Fluoranthene	126		104	ug/kg dry
Benzo(K)Fluoranthene	---	U	104	ug/kg dry
Benzo(A)Pyrene	---	U	104	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	104	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	104	ug/kg dry
Benzo(G,H,I)Perylene	---	U	104	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	65	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry



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PCB Aroclors GC

Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	6400		8.2	mg/kg dry
Antimony	---	U	1.6	mg/kg dry
Arsenic	3.2		0.66	mg/kg dry
Barium	25		8.2	mg/kg dry
Beryllium	0.25		0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	290		41	mg/kg dry
Chromium	8.5		0.41	mg/kg dry
Cobalt	6.0		1.6	mg/kg dry
Copper	16		0.82	mg/kg dry
Iron	16000		4.1	mg/kg dry
Lead	15		0.66	mg/kg dry
Magnesium	2000		41	mg/kg dry
Manganese	460		0.41	mg/kg dry
Nickel	15		1.6	mg/kg dry
Potassium	290		41	mg/kg dry
Selenium	---	U	1.6	mg/kg dry
Silver	---	U	0.41	mg/kg dry
Sodium	---	U	82	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	1.8		0.82	mg/kg dry
Vanadium	9.1		1.6	mg/kg dry
Zinc	32		1.6	mg/kg dry



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Field ID: SB-900-A

Sample ID: 1606039-07

VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	11	J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry
1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry



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VOA GCMS

cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry
Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	---	U	4.7	ug/kg dry
2-Hexanone	---	U	90	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	69.2	ug/kg dry
Benzaldehyde	---	U	103	ug/kg dry
Phenol	---	U	103	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	103	ug/kg dry



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NVOA GCMS

2-Chlorophenol	---	U	103	ug/kg dry
2-Methylphenol	---	U	103	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	103	ug/kg dry
Acetophenone	---	U	103	ug/kg dry
4-Methylphenol	---	U	103	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	103	ug/kg dry
Hexachloroethane	---	U	103	ug/kg dry
Nitrobenzene	---	U	103	ug/kg dry
Isophorone	---	U	103	ug/kg dry
2-Nitrophenol	---	U	103	ug/kg dry
2,4-Dimethylphenol	---	U	103	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	103	ug/kg dry
2,4-Dichlorophenol	---	U	103	ug/kg dry
Naphthalene	---	U	103	ug/kg dry
4-Chloroaniline	---	U	103	ug/kg dry
Hexachlorobutadiene	---	U	103	ug/kg dry
Caprolactam	---	U	103	ug/kg dry
4-Chloro-3-Methylphenol	---	U	103	ug/kg dry
2-Methylnaphthalene	---	U	103	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	103	ug/kg dry
Hexachlorocyclopentadiene	---	U	103	ug/kg dry
2,4,6-Trichlorophenol	---	U	103	ug/kg dry
2,4,5-Trichlorophenol	---	U	103	ug/kg dry
Biphenyl	---	U	103	ug/kg dry
2-Chloronaphthalene	---	U	103	ug/kg dry
2-Nitroaniline	---	U	103	ug/kg dry
Dimethyl Phthalate	192		103	ug/kg dry
Acenaphthylene	---	U	103	ug/kg dry



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NVOA GCMS

2,6-Dinitrotoluene	---	U	103	ug/kg dry
3-Nitroaniline	---	U	103	ug/kg dry
Acenaphthene	---	U	103	ug/kg dry
2,4-Dinitrophenol	---	U J	344	ug/kg dry
4-Nitrophenol	---	U	103	ug/kg dry
Dibenzofuran	---	U	103	ug/kg dry
2,4-Dinitrotoluene	---	U	103	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	103	ug/kg dry
Fluorene	---	U	103	ug/kg dry
Diethylphthalate	---	U	103	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	103	ug/kg dry
4-Nitroaniline	---	U	103	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	103	ug/kg dry
N-Nitrosodiphenylamine	---	U	103	ug/kg dry
4-Bromophenyl-Phenylether	---	U	103	ug/kg dry
Hexachlorobenzene	---	U	103	ug/kg dry
Atrazine	---	U	103	ug/kg dry
Pentachlorophenol	---	U	103	ug/kg dry
Phenanthrene	---	U	103	ug/kg dry
Anthracene	---	U	103	ug/kg dry
Carbazole	---	U	103	ug/kg dry
Di-N-Butyl Phthalate	---	U	103	ug/kg dry
Fluoranthene	---	U	103	ug/kg dry
Pyrene	---	U	103	ug/kg dry
Butylbenzylphthalate	---	U	103	ug/kg dry
3,3'- Dichlorobenzidine	---	U	103	ug/kg dry
Benzo(A)Anthracene	---	U	103	ug/kg dry
Chrysene	---	U	103	ug/kg dry



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NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	103	ug/kg dry
Di-N-Octyl Phthalate	---	U	103	ug/kg dry
Benzo(B)Fluoranthene	---	U	103	ug/kg dry
Benzo(K)Fluoranthene	---	U	103	ug/kg dry
Benzo(A)Pyrene	---	U	103	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	103	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	103	ug/kg dry
Benzo(G,H,I)Perylene	---	U	103	ug/kg dry

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	64	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	6500		8.4	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Arsenic	3.7		0.67	mg/kg dry
Barium	12		8.4	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Calcium	230		42	mg/kg dry
Chromium	7.9		0.42	mg/kg dry
Cobalt	5.3		1.7	mg/kg dry



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Metals ICP

Copper	10		0.84	mg/kg dry
Iron	12000		4.2	mg/kg dry
Lead	6.2		0.67	mg/kg dry
Magnesium	2100		42	mg/kg dry
Manganese	320		0.42	mg/kg dry
Nickel	13		1.7	mg/kg dry
Potassium	300		42	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Silver	---	U	0.42	mg/kg dry
Sodium	---	U	84	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	---	U	0.84	mg/kg dry
Vanadium	9.5		1.7	mg/kg dry
Zinc	31		1.7	mg/kg dry

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VOA GCMS

Dichlorodifluoromethane	---	U	4.4	ug/kg dry
Chloromethane	---	U	4.4	ug/kg dry
Vinyl Chloride	---	U	4.4	ug/kg dry
Bromomethane	---	U J	110	ug/kg dry
Chloroethane	---	U	4.4	ug/kg dry
Trichlorofluoromethane	---	U	4.4	ug/kg dry
1,1-Dichloroethene	---	U	4.4	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.4	ug/kg dry
Carbon Disulfide	---	U	4.4	ug/kg dry
Acetone	18	J	8.9	ug/kg dry
Methyl Acetate	---	U J	4.4	ug/kg dry



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VOA GCMS

Methylene Chloride	---	U	4.4	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.4	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.4	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.4	ug/kg dry
1,1-Dichloroethane	---	U	4.4	ug/kg dry
2-Butanone	---	U	8.9	ug/kg dry
Bromochloromethane	---	U	4.4	ug/kg dry
Chloroform	---	U	4.4	ug/kg dry
1,2-Dichloroethane	---	U	4.4	ug/kg dry
1,1,1-Trichloroethane	---	U	4.4	ug/kg dry
Cyclohexane	---	U	4.4	ug/kg dry
Carbon Tetrachloride	---	U	4.4	ug/kg dry
Benzene	---	U	4.4	ug/kg dry
Trichloroethene	---	U	4.4	ug/kg dry
Methylcyclohexane	---	U	4.4	ug/kg dry
1,2-Dichloropropane	---	U J	4.4	ug/kg dry
Bromodichloromethane	---	U	4.4	ug/kg dry
cis-1,3-Dichloropropene	---	U	8.9	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.4	ug/kg dry
1,1,2-Trichloroethane	---	U	4.4	ug/kg dry
Dibromochloromethane	---	U	4.4	ug/kg dry
Bromoform	---	U	4.4	ug/kg dry
4-Methyl-2-Pentanone	---	U	8.9	ug/kg dry
Toluene	---	U	4.4	ug/kg dry
Tetrachloroethene	11		4.4	ug/kg dry
2-Hexanone	---	U	86	ug/kg dry
1,2-Dibromoethane	---	U	4.4	ug/kg dry
Chlorobenzene	---	U	4.4	ug/kg dry



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VOA GCMS

Ethylbenzene	---	U	4.4	ug/kg dry
m/p-Xylene	---	U	4.4	ug/kg dry
o-Xylene	---	U	4.4	ug/kg dry
Styrene	---	U	4.4	ug/kg dry
Isopropylbenzene	---	U	4.4	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.4	ug/kg dry
1,3-Dichlorobenzene	---	U	4.4	ug/kg dry
1,4-Dichlorobenzene	---	U	4.4	ug/kg dry
1,2-Dichlorobenzene	---	U	4.4	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U	4.4	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.4	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.4	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	71.3	ug/kg dry
Benzaldehyde	---	U	106	ug/kg dry
Phenol	---	U	106	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	106	ug/kg dry
2-Chlorophenol	---	U	106	ug/kg dry
2-Methylphenol	---	U	106	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	106	ug/kg dry
Acetophenone	---	U	106	ug/kg dry
4-Methylphenol	---	U	106	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	106	ug/kg dry
Hexachloroethane	---	U	106	ug/kg dry
Nitrobenzene	---	U	106	ug/kg dry
Isophorone	---	U	106	ug/kg dry
2-Nitrophenol	---	U	106	ug/kg dry
2,4-Dimethylphenol	---	U	106	ug/kg dry



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NVOA GCMS

Bis(-2-Chloroethoxy)Methane	---	U	106	ug/kg dry
2,4-Dichlorophenol	---	U	106	ug/kg dry
Naphthalene	---	U	106	ug/kg dry
4-Chloroaniline	---	U	106	ug/kg dry
Hexachlorobutadiene	---	U	106	ug/kg dry
Caprolactam	---	U	106	ug/kg dry
4-Chloro-3-Methylphenol	---	U	106	ug/kg dry
2-Methylnaphthalene	---	U	106	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	106	ug/kg dry
Hexachlorocyclopentadiene	---	U	106	ug/kg dry
2,4,6-Trichlorophenol	---	U	106	ug/kg dry
2,4,5-Trichlorophenol	---	U	106	ug/kg dry
Biphenyl	---	U	106	ug/kg dry
2-Chloronaphthalene	---	U	106	ug/kg dry
2-Nitroaniline	---	U	106	ug/kg dry
Dimethyl Phthalate	194		106	ug/kg dry
Acenaphthylene	---	U	106	ug/kg dry
2,6-Dinitrotoluene	---	U	106	ug/kg dry
3-Nitroaniline	---	U	106	ug/kg dry
Acenaphthene	---	U	106	ug/kg dry
2,4-Dinitrophenol	---	U J	887	ug/kg dry
4-Nitrophenol	---	U	106	ug/kg dry
Dibenzofuran	---	U	106	ug/kg dry
2,4-Dinitrotoluene	---	U	106	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	106	ug/kg dry
Fluorene	---	U	106	ug/kg dry
Diethylphthalate	---	U	106	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	106	ug/kg dry



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NVOA GCMS

4-Nitroaniline	---	U	106	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	106	ug/kg dry
N-Nitrosodiphenylamine	---	U	106	ug/kg dry
4-Bromophenyl-Phenylether	---	U	106	ug/kg dry
Hexachlorobenzene	---	U	106	ug/kg dry
Atrazine	---	U	106	ug/kg dry
Pentachlorophenol	---	U	106	ug/kg dry
Phenanthrene	---	U	106	ug/kg dry
Anthracene	---	U	106	ug/kg dry
Carbazole	---	U	106	ug/kg dry
Di-N-Butyl Phthalate	---	U	106	ug/kg dry
Fluoranthene	---	U	106	ug/kg dry
Pyrene	---	U	106	ug/kg dry
Butylbenzylphthalate	---	U	106	ug/kg dry
3,3'- Dichlorobenzidine	---	U	106	ug/kg dry
Benzo(A)Anthracene	---	U	106	ug/kg dry
Chrysene	---	U	106	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	106	ug/kg dry
Di-N-Octyl Phthalate	---	U	106	ug/kg dry
Benzo(B)Fluoranthene	---	U	106	ug/kg dry
Benzo(K)Fluoranthene	---	U	106	ug/kg dry
Benzo(A)Pyrene	---	U	106	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	---	U	106	ug/kg dry
Dibenzo(A,H)Anthracene	---	U	106	ug/kg dry
Benzo(G,H,I)Perylene	---	U	106	ug/kg dry



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PCB Aroclors GC

Aroclor 1016	---	U J	33	ug/kg dry
Aroclor 1221	---	U J	66	ug/kg dry
Aroclor 1232	---	U J	33	ug/kg dry
Aroclor 1242	---	U J	33	ug/kg dry
Aroclor 1248	---	U J	33	ug/kg dry
Aroclor 1254	---	U J	33	ug/kg dry
Aroclor 1260	---	U J	33	ug/kg dry
Aroclor 1262	---	U J	33	ug/kg dry
Aroclor 1268	---	U J	33	ug/kg dry

Metals ICP

Aluminum	7200		8.8	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Arsenic	2.9		0.70	mg/kg dry
Barium	43		8.8	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	590		44	mg/kg dry
Chromium	7.5		0.44	mg/kg dry
Cobalt	4.5		1.8	mg/kg dry
Copper	7.8		0.88	mg/kg dry
Iron	11000		4.4	mg/kg dry
Lead	6.7		0.70	mg/kg dry
Magnesium	1500		44	mg/kg dry
Manganese	420		0.44	mg/kg dry
Nickel	10		1.8	mg/kg dry
Potassium	340		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry



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Metals ICP

Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	---	U	0.88	mg/kg dry
Vanadium	10		1.8	mg/kg dry
Zinc	28		1.8	mg/kg dry

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VOA GCMS

Dichlorodifluoromethane	---	U	4.7	ug/kg dry
Chloromethane	---	U	4.7	ug/kg dry
Vinyl Chloride	---	U	4.7	ug/kg dry
Bromomethane	---	U J	120	ug/kg dry
Chloroethane	---	U	4.7	ug/kg dry
Trichlorofluoromethane	---	U	4.7	ug/kg dry
1,1-Dichloroethene	---	U	4.7	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	4.7	ug/kg dry
Carbon Disulfide	---	U	4.7	ug/kg dry
Acetone	22	J	9.3	ug/kg dry
Methyl Acetate	---	U J	4.7	ug/kg dry
Methylene Chloride	---	U	4.7	ug/kg dry
trans-1,2-Dichloroethene	---	U	4.7	ug/kg dry
cis-1,2-Dichloroethene	---	U	4.7	ug/kg dry
Methyl tert-Butyl Ether	---	U L	4.7	ug/kg dry
1,1-Dichloroethane	---	U	4.7	ug/kg dry
2-Butanone	---	U	9.3	ug/kg dry
Bromochloromethane	---	U	4.7	ug/kg dry
Chloroform	---	U	4.7	ug/kg dry
1,2-Dichloroethane	---	U	4.7	ug/kg dry



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VOA GCMS

1,1,1-Trichloroethane	---	U	4.7	ug/kg dry
Cyclohexane	---	U	4.7	ug/kg dry
Carbon Tetrachloride	---	U	4.7	ug/kg dry
Benzene	---	U	4.7	ug/kg dry
Trichloroethene	---	U	4.7	ug/kg dry
Methylcyclohexane	---	U	4.7	ug/kg dry
1,2-Dichloropropane	---	U J	4.7	ug/kg dry
Bromodichloromethane	---	U	4.7	ug/kg dry
cis-1,3-Dichloropropene	---	U	9.3	ug/kg dry
trans-1,3-Dichloropropene	---	U	4.7	ug/kg dry
1,1,2-Trichloroethane	---	U	4.7	ug/kg dry
Dibromochloromethane	---	U	4.7	ug/kg dry
Bromoform	---	U	4.7	ug/kg dry
4-Methyl-2-Pentanone	---	U	9.3	ug/kg dry
Toluene	---	U	4.7	ug/kg dry
Tetrachloroethene	1600		49	ug/kg dry
2-Hexanone	---	U	91	ug/kg dry
1,2-Dibromoethane	---	U	4.7	ug/kg dry
Chlorobenzene	---	U	4.7	ug/kg dry
Ethylbenzene	---	U	4.7	ug/kg dry
m/p-Xylene	---	U	4.7	ug/kg dry
o-Xylene	---	U	4.7	ug/kg dry
Styrene	---	U	4.7	ug/kg dry
Isopropylbenzene	---	U	4.7	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U	4.7	ug/kg dry
1,3-Dichlorobenzene	---	U	4.7	ug/kg dry
1,4-Dichlorobenzene	---	U	4.7	ug/kg dry
1,2-Dichlorobenzene	---	U	4.7	ug/kg dry



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VOA GCMS

1,2-Dibromo-3-Chloropropane	---	U	4.7	ug/kg dry
1,2,4-Trichlorobenzene	---	U	4.7	ug/kg dry
1,2,3-Trichlorobenzene	---	U	4.7	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	406		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	414		108	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry



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NVOA GCMS

Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	215		108	ug/kg dry
Acenaphthylene	400		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	901	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	203		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	699		108	ug/kg dry
Anthracene	272		108	ug/kg dry



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NVOA GCMS

Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	2520		108	ug/kg dry
Pyrene	2070		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	1920		108	ug/kg dry
Chrysene	1950		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	2720		108	ug/kg dry
Benzo(K)Fluoranthene	947		108	ug/kg dry
Benzo(A)Pyrene	1510		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1090		108	ug/kg dry
Dibenzo(A,H)Anthracene	297		108	ug/kg dry
Benzo(G,H,I)Perylene	793		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	950	NJ		ug/kg dry
11H-Benzo[b]fluorene	1260	NJ		ug/kg dry
Benz[a]anthracene, 7-methyl-	922	NJ		ug/kg dry
Heptadecane, 2,6-dimethyl-	1960	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1170	NJ		ug/kg dry
Hexanoic acid, 2-ethyl-	4160	NJ		ug/kg dry
Phenanthrene, 2,5-dimethyl-	743	NJ		ug/kg dry
Phenanthrene, 2-methyl-	762	NJ		ug/kg dry
Tetrachloroethylene	4930	NJ		ug/kg dry



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Sample ID: 1606039-09

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5400		8.8	mg/kg dry
Antimony	4.1		1.8	mg/kg dry
Arsenic	8.0		0.71	mg/kg dry
Barium	44		8.8	mg/kg dry
Beryllium	0.28		0.26	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Calcium	1300		44	mg/kg dry
Chromium	9.6		0.44	mg/kg dry
Cobalt	6.4		1.8	mg/kg dry
Copper	64		0.88	mg/kg dry
Iron	19000		4.4	mg/kg dry
Lead	79		0.71	mg/kg dry
Magnesium	1600		44	mg/kg dry
Manganese	370		0.44	mg/kg dry
Nickel	16		1.8	mg/kg dry
Potassium	320		44	mg/kg dry
Selenium	---	U	1.8	mg/kg dry



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Sample ID: 1606039-09

Metals ICP

Silver	---	U	0.44	mg/kg dry
Sodium	---	U	88	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Tin	8.8		0.88	mg/kg dry
Vanadium	10		1.8	mg/kg dry
Zinc	38		1.8	mg/kg dry

Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

1,4-Dioxane	---	U	70.1	ug/kg dry
Benzaldehyde	---	U	105	ug/kg dry
Phenol	---	U	105	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	105	ug/kg dry
2-Chlorophenol	---	U	105	ug/kg dry
2-Methylphenol	---	U	105	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	105	ug/kg dry
Acetophenone	---	U	105	ug/kg dry
4-Methylphenol	---	U	105	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	105	ug/kg dry
Hexachloroethane	---	U	105	ug/kg dry
Nitrobenzene	---	U	105	ug/kg dry
Isophorone	---	U	105	ug/kg dry
2-Nitrophenol	---	U	105	ug/kg dry
2,4-Dimethylphenol	---	U	105	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	105	ug/kg dry
2,4-Dichlorophenol	---	U	105	ug/kg dry
Naphthalene	---	U	105	ug/kg dry
4-Chloroaniline	---	U	105	ug/kg dry
Hexachlorobutadiene	---	U	105	ug/kg dry



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Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

Caprolactam	---	U	105	ug/kg dry
4-Chloro-3-Methylphenol	---	U	105	ug/kg dry
2-Methylnaphthalene	---	U	105	ug/kg dry
1,2,4,5-Tetrachlorobenzene	---	U	105	ug/kg dry
Hexachlorocyclopentadiene	---	U	105	ug/kg dry
2,4,6-Trichlorophenol	---	U	105	ug/kg dry
2,4,5-Trichlorophenol	---	U	105	ug/kg dry
Biphenyl	---	U	105	ug/kg dry
2-Chloronaphthalene	---	U	105	ug/kg dry
2-Nitroaniline	---	U	105	ug/kg dry
Dimethyl Phthalate	116		105	ug/kg dry
Acenaphthylene	108		105	ug/kg dry
2,6-Dinitrotoluene	---	U	105	ug/kg dry
3-Nitroaniline	---	U	105	ug/kg dry
Acenaphthene	108		105	ug/kg dry
2,4-Dinitrophenol	---	U J	872	ug/kg dry
4-Nitrophenol	---	U	105	ug/kg dry
Dibenzofuran	---	U	105	ug/kg dry
2,4-Dinitrotoluene	---	U	105	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	105	ug/kg dry
Fluorene	192		105	ug/kg dry
Diethylphthalate	---	U	105	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	105	ug/kg dry
4-Nitroaniline	---	U	105	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	105	ug/kg dry
N-Nitrosodiphenylamine	---	U	105	ug/kg dry
4-Bromophenyl-Phenylether	---	U	105	ug/kg dry
Hexachlorobenzene	---	U	105	ug/kg dry



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Field ID: KR-SS-09-A

Sample ID: 1606039-10

NVOA GCMS

Atrazine	---	U	105	ug/kg dry
Pentachlorophenol	---	U	105	ug/kg dry
Phenanthrene	2960		105	ug/kg dry
Anthracene	1980		105	ug/kg dry
Carbazole	344		105	ug/kg dry
Di-N-Butyl Phthalate	---	U	105	ug/kg dry
Fluoranthene	8210		523	ug/kg dry
Pyrene	6050		523	ug/kg dry
Butylbenzylphthalate	---	U	105	ug/kg dry
3,3'- Dichlorobenzidine	---	U	105	ug/kg dry
Benzo(A)Anthracene	2950		105	ug/kg dry
Chrysene	3750		523	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	105	ug/kg dry
Di-N-Octyl Phthalate	---	U	105	ug/kg dry
Benzo(B)Fluoranthene	3600		523	ug/kg dry
Benzo(K)Fluoranthene	1220		105	ug/kg dry
Benzo(A)Pyrene	1580		105	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	876		105	ug/kg dry
Dibenzo(A,H)Anthracene	216		105	ug/kg dry
Benzo(G,H,I)Perylene	627		105	ug/kg dry
11H-Benzo[a]fluoren-11-one (01)	1420	NJ		ug/kg dry
11H-Benzo[b]fluorene	1500	NJ		ug/kg dry
4H-Cyclopenta[def]phenanthrene	1340	NJ		ug/kg dry
Benzo[b]naphtho[2,3-d]thiop...	888	NJ		ug/kg dry
Phenanthrene, 2-methyl-	895	NJ		ug/kg dry
Pyrene, 1-methyl-	1060	NJ		ug/kg dry



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Sample ID: 1606039-10

PCB Aroclors GC

Aroclor 1016	---	U J	32	ug/kg dry
Aroclor 1221	---	U J	65	ug/kg dry
Aroclor 1232	---	U J	32	ug/kg dry
Aroclor 1242	---	U J	32	ug/kg dry
Aroclor 1248	---	U J	32	ug/kg dry
Aroclor 1254	---	U J	32	ug/kg dry
Aroclor 1260	---	U J	32	ug/kg dry
Aroclor 1262	---	U J	32	ug/kg dry
Aroclor 1268	---	U J	32	ug/kg dry

Metals ICP

Aluminum	5700		8.6	mg/kg dry
Antimony	3.7		1.7	mg/kg dry
Arsenic	7.2		0.69	mg/kg dry
Barium	46		8.6	mg/kg dry
Beryllium	0.28		0.26	mg/kg dry
Cadmium	0.36		0.26	mg/kg dry
Calcium	11000		43	mg/kg dry
Chromium	9.4		0.43	mg/kg dry
Cobalt	6.6		1.7	mg/kg dry
Copper	77		0.86	mg/kg dry
Iron	20000		4.3	mg/kg dry
Lead	170		0.69	mg/kg dry
Magnesium	2000		43	mg/kg dry
Manganese	410		0.43	mg/kg dry
Nickel	15		1.7	mg/kg dry
Potassium	390		43	mg/kg dry
Selenium	---	U	1.7	mg/kg dry



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Field ID: KR-SS-09-A

Sample ID: 1606039-10

Metals ICP

Silver	---	U	0.43	mg/kg dry
Sodium	---	U	86	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Tin	10		0.86	mg/kg dry
Vanadium	11		1.7	mg/kg dry
Zinc	58		1.7	mg/kg dry

Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

Dichlorodifluoromethane	---	U	6.0	ug/kg dry
Chloromethane	6.3		6.0	ug/kg dry
Vinyl Chloride	---	U	6.0	ug/kg dry
Bromomethane	---	U J	150	ug/kg dry
Chloroethane	---	U	6.0	ug/kg dry
Trichlorofluoromethane	---	U	6.0	ug/kg dry
1,1-Dichloroethene	---	U	6.0	ug/kg dry
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	6.0	ug/kg dry
Carbon Disulfide	---	U	6.0	ug/kg dry
Acetone	33	J	12	ug/kg dry
Methyl Acetate	6.1	J	6.0	ug/kg dry
Methylene Chloride	---	U	6.0	ug/kg dry
trans-1,2-Dichloroethene	---	U	6.0	ug/kg dry
cis-1,2-Dichloroethene	---	U	6.0	ug/kg dry
Methyl tert-Butyl Ether	---	U L	6.0	ug/kg dry
1,1-Dichloroethane	---	U	6.0	ug/kg dry
2-Butanone	---	U	12	ug/kg dry
Bromochloromethane	---	U	6.0	ug/kg dry
Chloroform	---	U	6.0	ug/kg dry



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Field ID: SB-900-B

Sample ID: 1606039-11

VOA GCMS

1,2-Dichloroethane	---	U	6.0	ug/kg dry
1,1,1-Trichloroethane	---	U	6.0	ug/kg dry
Cyclohexane	---	U	6.0	ug/kg dry
Carbon Tetrachloride	---	U	6.0	ug/kg dry
Benzene	---	U	6.0	ug/kg dry
Trichloroethene	11		6.0	ug/kg dry
Methylcyclohexane	---	U	6.0	ug/kg dry
1,2-Dichloropropane	---	U J	6.0	ug/kg dry
Bromodichloromethane	---	U	6.0	ug/kg dry
cis-1,3-Dichloropropene	---	U	12	ug/kg dry
trans-1,3-Dichloropropene	---	U	6.0	ug/kg dry
1,1,2-Trichloroethane	---	U	6.0	ug/kg dry
Dibromochloromethane	---	U	6.0	ug/kg dry
Bromoform	---	U	6.0	ug/kg dry
4-Methyl-2-Pentanone	---	U J	12	ug/kg dry
Toluene	---	U J	6.0	ug/kg dry
Tetrachloroethene	830	K	33	ug/kg dry
2-Hexanone	---	U J	120	ug/kg dry
1,2-Dibromoethane	---	U J	6.0	ug/kg dry
Chlorobenzene	---	U J	6.0	ug/kg dry
Ethylbenzene	---	U J	6.0	ug/kg dry
m/p-Xylene	---	U J	6.0	ug/kg dry
o-Xylene	---	U J	6.0	ug/kg dry
Styrene	---	U J	6.0	ug/kg dry
Isopropylbenzene	---	U J	6.0	ug/kg dry
1,1,2,2-Tetrachloroethane	---	U J	6.0	ug/kg dry
1,3-Dichlorobenzene	---	U J	6.0	ug/kg dry
1,4-Dichlorobenzene	---	U J	6.0	ug/kg dry



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VOA GCMS

1,2-Dichlorobenzene	---	U J	6.0	ug/kg dry
1,2-Dibromo-3-Chloropropane	---	U J	6.0	ug/kg dry
1,2,4-Trichlorobenzene	---	U J	6.0	ug/kg dry
1,2,3-Trichlorobenzene	---	U J	6.0	ug/kg dry

NVOA GCMS

1,4-Dioxane	---	U	72.5	ug/kg dry
Benzaldehyde	---	U	108	ug/kg dry
Phenol	---	U	108	ug/kg dry
Bis(2-Chloroethyl)Ether	---	U	108	ug/kg dry
2-Chlorophenol	---	U	108	ug/kg dry
2-Methylphenol	---	U	108	ug/kg dry
Bis(2-Chloroisopropyl)Ether	---	U	108	ug/kg dry
Acetophenone	---	U	108	ug/kg dry
4-Methylphenol	---	U	108	ug/kg dry
N-Nitroso-Di-N-Propylamine	---	U	108	ug/kg dry
Hexachloroethane	---	U	108	ug/kg dry
Nitrobenzene	---	U	108	ug/kg dry
Isophorone	---	U	108	ug/kg dry
2-Nitrophenol	---	U	108	ug/kg dry
2,4-Dimethylphenol	---	U	108	ug/kg dry
Bis(-2-Chloroethoxy)Methane	---	U	108	ug/kg dry
2,4-Dichlorophenol	---	U	108	ug/kg dry
Naphthalene	300		108	ug/kg dry
4-Chloroaniline	---	U	108	ug/kg dry
Hexachlorobutadiene	---	U	108	ug/kg dry
Caprolactam	---	U	108	ug/kg dry
4-Chloro-3-Methylphenol	---	U	108	ug/kg dry
2-Methylnaphthalene	280		108	ug/kg dry



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NVOA GCMS

1,2,4,5-Tetrachlorobenzene	---	U	108	ug/kg dry
Hexachlorocyclopentadiene	---	U	108	ug/kg dry
2,4,6-Trichlorophenol	---	U	108	ug/kg dry
2,4,5-Trichlorophenol	---	U	108	ug/kg dry
Biphenyl	---	U	108	ug/kg dry
2-Chloronaphthalene	---	U	108	ug/kg dry
2-Nitroaniline	---	U	108	ug/kg dry
Dimethyl Phthalate	142		108	ug/kg dry
Acenaphthylene	395		108	ug/kg dry
2,6-Dinitrotoluene	---	U	108	ug/kg dry
3-Nitroaniline	---	U	108	ug/kg dry
Acenaphthene	---	U	108	ug/kg dry
2,4-Dinitrophenol	---	U J	902	ug/kg dry
4-Nitrophenol	---	U	108	ug/kg dry
Dibenzofuran	175		108	ug/kg dry
2,4-Dinitrotoluene	---	U	108	ug/kg dry
2,3,4,6-Tetrachlorophenol	---	U	108	ug/kg dry
Fluorene	---	U	108	ug/kg dry
Diethylphthalate	---	U	108	ug/kg dry
4-Chlorophenyl-Phenylether	---	U	108	ug/kg dry
4-Nitroaniline	---	U	108	ug/kg dry
4,6-Dinitro-2-Methylphenol	---	U	108	ug/kg dry
N-Nitrosodiphenylamine	---	U	108	ug/kg dry
4-Bromophenyl-Phenylether	---	U	108	ug/kg dry
Hexachlorobenzene	---	U	108	ug/kg dry
Atrazine	---	U	108	ug/kg dry
Pentachlorophenol	---	U	108	ug/kg dry
Phenanthrene	793		108	ug/kg dry



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NVOA GCMS

Anthracene	311		108	ug/kg dry
Carbazole	---	U	108	ug/kg dry
Di-N-Butyl Phthalate	---	U	108	ug/kg dry
Fluoranthene	2780		108	ug/kg dry
Pyrene	2290		108	ug/kg dry
Butylbenzylphthalate	---	U	108	ug/kg dry
3,3'- Dichlorobenzidine	---	U	108	ug/kg dry
Benzo(A)Anthracene	2040		108	ug/kg dry
Chrysene	1900		108	ug/kg dry
Bis(2-Ethylhexyl)Phthalate	---	U	108	ug/kg dry
Di-N-Octyl Phthalate	---	U	108	ug/kg dry
Benzo(B)Fluoranthene	2910		108	ug/kg dry
Benzo(K)Fluoranthene	866		108	ug/kg dry
Benzo(A)Pyrene	1500		108	ug/kg dry
Indeno(1,2,3-Cd)Pyrene	1010		108	ug/kg dry
Dibenzo(A,H)Anthracene	277		108	ug/kg dry
Benzo(G,H,I)Perylene	686		108	ug/kg dry
11H-Benzo[a]fluoren-11-one	1020	NJ		ug/kg dry
11H-Benzo[b]fluorene	1230	NJ		ug/kg dry
Heptadecane, 2,6-dimethyl-	2370	NJ		ug/kg dry
Heptadecane, 4-methyl-	710	NJ		ug/kg dry
Hexadecane, 2,6,10,14-tetra...	1820	NJ		ug/kg dry
Hexanoic acid, 2-ethyl-	2850	NJ		ug/kg dry
Phenanthrene, 2-methyl-	706	NJ		ug/kg dry
Tetrachloroethylene	1760	NJ		ug/kg dry
Triphenylene, 2-methyl-	1010	NJ		ug/kg dry



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Sample ID: 1606039-11

PCB Aroclors GC

Aroclor 1016	---	U J	34	ug/kg dry
Aroclor 1221	---	U J	67	ug/kg dry
Aroclor 1232	---	U J	34	ug/kg dry
Aroclor 1242	---	U J	34	ug/kg dry
Aroclor 1248	---	U J	34	ug/kg dry
Aroclor 1254	---	U J	34	ug/kg dry
Aroclor 1260	---	U J	34	ug/kg dry
Aroclor 1262	---	U J	34	ug/kg dry
Aroclor 1268	---	U J	34	ug/kg dry

Metals ICP

Aluminum	5500		8.0	mg/kg dry
Antimony	3.8		1.6	mg/kg dry
Arsenic	6.2		0.64	mg/kg dry
Barium	50		8.0	mg/kg dry
Beryllium	0.29		0.24	mg/kg dry
Cadmium	---	U	0.24	mg/kg dry
Calcium	1100		40	mg/kg dry
Chromium	9.6		0.40	mg/kg dry
Cobalt	6.6		1.6	mg/kg dry
Copper	63		0.80	mg/kg dry
Iron	19000		4.0	mg/kg dry
Lead	76		0.64	mg/kg dry
Magnesium	1500		40	mg/kg dry
Manganese	420		0.40	mg/kg dry
Nickel	17		1.6	mg/kg dry
Potassium	320		40	mg/kg dry
Selenium	---	U	1.6	mg/kg dry



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Metals ICP

Silver	---	U	0.40	mg/kg dry
Sodium	---	U	80	mg/kg dry
Thallium	---	U	1.6	mg/kg dry
Tin	8.3		0.80	mg/kg dry
Vanadium	10		1.6	mg/kg dry
Zinc	38		1.6	mg/kg dry

Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	43		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L



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Field ID: FB-SB-A

Sample ID: 1606039-12

VOA-TRACE GCMS

1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U J	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L



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Sample ID: 1606039-12

VOA-TRACE GCMS

1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L



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Field ID: FB-SB-A

Sample ID: 1606039-12

NVOA GCMS

1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L



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Field ID: FB-SB-A

Sample ID: 1606039-12

NVOA GCMS

Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Phenol, 2-methoxy-	13	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L



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Field ID: FB-SB-A

Sample ID: 1606039-12

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L



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Analyte	Result	Qualifier	Reporting Limit	Units	Date and Time of Analysis*

Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	36		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L



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Field ID: FB-GW-B

Sample ID: 1606044-01

VOA-TRACE GCMS

Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,1,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.2	ug/L
Benzaldehyde	---	U	5.4	ug/L
Phenol	---	U	5.4	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.4	ug/L
2-Chlorophenol	---	U	5.4	ug/L
2-Methylphenol	---	U	5.4	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.4	ug/L
Acetophenone	---	U	5.4	ug/L



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Sample ID: 1606044-01

NVOA GCMS

4-Methylphenol	---	U	5.4	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.4	ug/L
Hexachloroethane	---	U	5.4	ug/L
Nitrobenzene	---	U	5.4	ug/L
Isophorone	---	U	5.4	ug/L
2-Nitrophenol	---	U	5.4	ug/L
2,4-Dimethylphenol	---	U	5.4	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.4	ug/L
2,4-Dichlorophenol	---	U	5.4	ug/L
Naphthalene	---	U	5.4	ug/L
4-Chloroaniline	---	U	5.4	ug/L
Hexachlorobutadiene	---	U	5.4	ug/L
Caprolactam	---	U	5.4	ug/L
4-Chloro-3-Methylphenol	---	U	5.4	ug/L
2-Methylnaphthalene	---	U	5.4	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.4	ug/L
Hexachlorocyclopentadiene	---	U	5.4	ug/L
2,4,6-Trichlorophenol	---	U	5.4	ug/L
2,4,5-Trichlorophenol	---	U	5.4	ug/L
Biphenyl	---	U	5.4	ug/L
2-Chloronaphthalene	---	U	5.4	ug/L
2-Nitroaniline	---	U	5.4	ug/L
Dimethyl Phthalate	---	U	5.4	ug/L
Acenaphthylene	---	U	5.4	ug/L
2,6-Dinitrotoluene	---	U	5.4	ug/L
3-Nitroaniline	---	U	5.4	ug/L
Acenaphthene	---	U	5.4	ug/L
2,4-Dinitrophenol	---	U	27	ug/L



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NVOA GCMS

4-Nitrophenol	---	U	5.4	ug/L
Dibenzofuran	---	U	5.4	ug/L
2,4-Dinitrotoluene	---	U	5.4	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.4	ug/L
Fluorene	---	U	5.4	ug/L
Diethylphthalate	---	U	5.4	ug/L
4-Chlorophenyl-Phenylether	---	U	5.4	ug/L
4-Nitroaniline	---	U	5.4	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.4	ug/L
N-Nitrosodiphenylamine	---	U	5.4	ug/L
4-Bromophenyl-Phenylether	---	U	5.4	ug/L
Hexachlorobenzene	---	U	5.4	ug/L
Atrazine	---	U	5.4	ug/L
Pentachlorophenol	---	U	5.4	ug/L
Phenanthrene	---	U	5.4	ug/L
Anthracene	---	U	5.4	ug/L
Carbazole	---	U	5.4	ug/L
Di-N-Butyl Phthalate	---	U	5.4	ug/L
Fluoranthene	---	U	5.4	ug/L
Pyrene	---	U	5.4	ug/L
Butylbenzylphthalate	---	U	5.4	ug/L
3,3'- Dichlorobenzidine	---	U	5.4	ug/L
Benzo(A)Anthracene	---	U	5.4	ug/L
Chrysene	---	U	5.4	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.4	ug/L
Di-N-Octyl Phthalate	---	U	5.4	ug/L
Benzo(B)Fluoranthene	---	U	5.4	ug/L
Benzo(K)Fluoranthene	---	U	5.4	ug/L



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Sample ID: 1606044-01

NVOA GCMS

Benzo(A)Pyrene	---	U	5.4	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.4	ug/L
Dibenzo(A,H)Anthracene	---	U	5.4	ug/L
Benzo(G,H,I)Perylene	---	U	5.4	ug/L
Phenol, 2-methoxy-	14	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L



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Field ID: FB-GW-B

Sample ID: 1606044-01

Metals ICP

Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L



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Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	24		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	170		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L



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Field ID: GW-900-1

Sample ID: 1606044-02

VOA-TRACE GCMS

1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L



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Field ID: GW-900-1

Sample ID: 1606044-02

NVOA GCMS

Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L



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Field ID: GW-900-1

Sample ID: 1606044-02

NVOA GCMS

Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Tetrachloroethylene	34	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L



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Field ID: GW-900-1

Sample ID: 1606044-02

PCB Aroclors GC

Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	38000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	4600		500	ug/L
Manganese	27		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3100		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	84000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-01-1

Sample ID: 1606044-03



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Field ID: KR-GW-01-1

Sample ID: 1606044-03

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	14		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L



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Field ID: KR-GW-01-1

Sample ID: 1606044-03

VOA-TRACE GCMS

4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	4.2		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L



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Field ID: KR-GW-01-1

Sample ID: 1606044-03

NVOA GCMS

2-Chlorophenol	---	U	5.3	ug/L
2-Methylphenol	---	U	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U L	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U	5.3	ug/L
2,4-Dimethylphenol	---	U	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U L	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L
2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L



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Sample ID: 1606044-03

NVOA GCMS

2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U L	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U L	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U L	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U L	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L
Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L



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NVOA GCMS

Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	43000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L



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Metals ICP

Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	2700		500	ug/L
Manganese	120		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3700		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	88000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L



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Field ID: KR-GW-02-1

Sample ID: 1606044-04

VOA-TRACE GCMS

trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	24		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	180		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L



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VOA-TRACE GCMS

o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS

1,4-Dioxane	---	U	2.0	ug/L
Benzaldehyde	---	U	5.0	ug/L
Phenol	---	U	5.0	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.0	ug/L
2-Chlorophenol	---	U	5.0	ug/L
2-Methylphenol	---	U	5.0	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.0	ug/L
Acetophenone	---	U	5.0	ug/L
4-Methylphenol	---	U	5.0	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.0	ug/L
Hexachloroethane	---	U	5.0	ug/L
Nitrobenzene	---	U	5.0	ug/L
Isophorone	---	U	5.0	ug/L
2-Nitrophenol	---	U	5.0	ug/L
2,4-Dimethylphenol	---	U	5.0	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.0	ug/L



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Sample ID: 1606044-04

NVOA GCMS

2,4-Dichlorophenol	---	U	5.0	ug/L
Naphthalene	---	U	5.0	ug/L
4-Chloroaniline	---	U	5.0	ug/L
Hexachlorobutadiene	---	U	5.0	ug/L
Caprolactam	---	U	5.0	ug/L
4-Chloro-3-Methylphenol	---	U	5.0	ug/L
2-Methylnaphthalene	---	U	5.0	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.0	ug/L
Hexachlorocyclopentadiene	---	U	5.0	ug/L
2,4,6-Trichlorophenol	---	U	5.0	ug/L
2,4,5-Trichlorophenol	---	U	5.0	ug/L
Biphenyl	---	U	5.0	ug/L
2-Chloronaphthalene	---	U	5.0	ug/L
2-Nitroaniline	---	U	5.0	ug/L
Dimethyl Phthalate	---	U	5.0	ug/L
Acenaphthylene	---	U	5.0	ug/L
2,6-Dinitrotoluene	---	U	5.0	ug/L
3-Nitroaniline	---	U	5.0	ug/L
Acenaphthene	---	U	5.0	ug/L
2,4-Dinitrophenol	---	U	25	ug/L
4-Nitrophenol	---	U	5.0	ug/L
Dibenzofuran	---	U	5.0	ug/L
2,4-Dinitrotoluene	---	U	5.0	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.0	ug/L
Fluorene	---	U	5.0	ug/L
Diethylphthalate	---	U	5.0	ug/L
4-Chlorophenyl-Phenylether	---	U	5.0	ug/L
4-Nitroaniline	---	U	5.0	ug/L



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Sample ID: 1606044-04

NVOA GCMS

4,6-Dinitro-2-Methylphenol	---	U	5.0	ug/L
N-Nitrosodiphenylamine	---	U	5.0	ug/L
4-Bromophenyl-Phenylether	---	U	5.0	ug/L
Hexachlorobenzene	---	U	5.0	ug/L
Atrazine	---	U	5.0	ug/L
Pentachlorophenol	---	U	5.0	ug/L
Phenanthrene	---	U	5.0	ug/L
Anthracene	---	U	5.0	ug/L
Carbazole	---	U	5.0	ug/L
Di-N-Butyl Phthalate	---	U	5.0	ug/L
Fluoranthene	---	U	5.0	ug/L
Pyrene	---	U	5.0	ug/L
Butylbenzylphthalate	---	U	5.0	ug/L
3,3'- Dichlorobenzidine	---	U	5.0	ug/L
Benzo(A)Anthracene	---	U	5.0	ug/L
Chrysene	---	U	5.0	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.0	ug/L
Di-N-Octyl Phthalate	---	U	5.0	ug/L
Benzo(B)Fluoranthene	---	U	5.0	ug/L
Benzo(K)Fluoranthene	---	U	5.0	ug/L
Benzo(A)Pyrene	---	U	5.0	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.0	ug/L
Dibenzo(A,H)Anthracene	---	U	5.0	ug/L
Benzo(G,H,I)Perylene	---	U	5.0	ug/L
Tetrachloroethylene	38	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L



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Sample ID: 1606044-04

PCB Aroclors GC

Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	39000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	4700		500	ug/L
Manganese	28		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3200		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	84000		1000	ug/L
Thallium	---	U	20	ug/L



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Field ID: KR-GW-02-1

Sample ID: 1606044-04

Metals ICP

Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: KR-GW-03-1

Sample ID: 1606044-05

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L



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Sample ID: 1606044-05

VOA-TRACE GCMS

Trichloroethene	23		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	120		10	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

NVOA GCMS



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NVOA GCMS

1,4-Dioxane	---	U	2.1	ug/L
Benzaldehyde	---	U	5.3	ug/L
Phenol	---	U L	5.3	ug/L
Bis(2-Chloroethyl)Ether	---	U	5.3	ug/L
2-Chlorophenol	---	U L	5.3	ug/L
2-Methylphenol	---	U L	5.3	ug/L
Bis(2-Chloroisopropyl)Ether	---	U	5.3	ug/L
Acetophenone	---	U	5.3	ug/L
4-Methylphenol	---	U L	5.3	ug/L
N-Nitroso-Di-N-Propylamine	---	U	5.3	ug/L
Hexachloroethane	---	U	5.3	ug/L
Nitrobenzene	---	U	5.3	ug/L
Isophorone	---	U	5.3	ug/L
2-Nitrophenol	---	U L	5.3	ug/L
2,4-Dimethylphenol	---	U L	5.3	ug/L
Bis(-2-Chloroethoxy)Methane	---	U	5.3	ug/L
2,4-Dichlorophenol	---	U L	5.3	ug/L
Naphthalene	---	U	5.3	ug/L
4-Chloroaniline	---	U	5.3	ug/L
Hexachlorobutadiene	---	U	5.3	ug/L
Caprolactam	---	U	5.3	ug/L
4-Chloro-3-Methylphenol	---	U L	5.3	ug/L
2-Methylnaphthalene	---	U	5.3	ug/L
1,2,4,5-Tetrachlorobenzene	---	U	5.3	ug/L
Hexachlorocyclopentadiene	---	U	5.3	ug/L
2,4,6-Trichlorophenol	---	U	5.3	ug/L
2,4,5-Trichlorophenol	---	U	5.3	ug/L
Biphenyl	---	U	5.3	ug/L



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NVOA GCMS

2-Chloronaphthalene	---	U	5.3	ug/L
2-Nitroaniline	---	U	5.3	ug/L
Dimethyl Phthalate	---	U	5.3	ug/L
Acenaphthylene	---	U	5.3	ug/L
2,6-Dinitrotoluene	---	U	5.3	ug/L
3-Nitroaniline	---	U	5.3	ug/L
Acenaphthene	---	U	5.3	ug/L
2,4-Dinitrophenol	---	U	27	ug/L
4-Nitrophenol	---	U	5.3	ug/L
Dibenzofuran	---	U	5.3	ug/L
2,4-Dinitrotoluene	---	U	5.3	ug/L
2,3,4,6-Tetrachlorophenol	---	U	5.3	ug/L
Fluorene	---	U	5.3	ug/L
Diethylphthalate	---	U	5.3	ug/L
4-Chlorophenyl-Phenylether	---	U	5.3	ug/L
4-Nitroaniline	---	U	5.3	ug/L
4,6-Dinitro-2-Methylphenol	---	U	5.3	ug/L
N-Nitrosodiphenylamine	---	U	5.3	ug/L
4-Bromophenyl-Phenylether	---	U	5.3	ug/L
Hexachlorobenzene	---	U	5.3	ug/L
Atrazine	---	U	5.3	ug/L
Pentachlorophenol	---	U	5.3	ug/L
Phenanthrene	---	U	5.3	ug/L
Anthracene	---	U	5.3	ug/L
Carbazole	---	U	5.3	ug/L
Di-N-Butyl Phthalate	---	U	5.3	ug/L
Fluoranthene	---	U	5.3	ug/L
Pyrene	---	U	5.3	ug/L



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NVOA GCMS

Butylbenzylphthalate	---	U	5.3	ug/L
3,3'- Dichlorobenzidine	---	U	5.3	ug/L
Benzo(A)Anthracene	---	U	5.3	ug/L
Chrysene	---	U	5.3	ug/L
Bis(2-Ethylhexyl)Phthalate	---	U	5.3	ug/L
Di-N-Octyl Phthalate	---	U	5.3	ug/L
Benzo(B)Fluoranthene	---	U	5.3	ug/L
Benzo(K)Fluoranthene	---	U	5.3	ug/L
Benzo(A)Pyrene	---	U	5.3	ug/L
Indeno(1,2,3-Cd)Pyrene	---	U	5.3	ug/L
Dibenzo(A,H)Anthracene	---	U	5.3	ug/L
Benzo(G,H,I)Perylene	---	U	5.3	ug/L
Tetrachloroethylene	14	NJ		ug/L

PCB Aroclors GC

Aroclor 1016	---	U J	0.062	ug/L
Aroclor 1221	---	U J	0.12	ug/L
Aroclor 1232	---	U J	0.062	ug/L
Aroclor 1242	---	U J	0.062	ug/L
Aroclor 1248	---	U J	0.062	ug/L
Aroclor 1254	---	U J	0.062	ug/L
Aroclor 1260	---	U J	0.062	ug/L
Aroclor 1262	---	U J	0.062	ug/L
Aroclor 1268	---	U J	0.062	ug/L



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Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	39000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	3700		500	ug/L
Manganese	60		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3000		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	58000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L



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Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	36		5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L



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Field ID: TB-01

Sample ID: 1606044-06

VOA-TRACE GCMS

1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L