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PRE-DESIGN INVESTIGATION SUMMARY REPORT

North Albany Former Manufactured Gas Plant Site
NYSDEC Site No. 4-01-040

March 2018

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NYSDEC Site No. 4-01-040

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National Grid

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1 INTRODUCTION

This *Pre-Design Investigation Summary Report* (PDI Summary Report) has been prepared on behalf of National Grid to document the completed PDI activities and results for the North Albany Former Manufactured Gas Plant (MGP) site (the site) located at 1125 Broadway in Albany, New York.

1.1 Objective

The overall objective of the PDI was to obtain data to support the remedial design for the New York State Department of Environmental Conservation- (NYSDEC-) selected site remedy, as presented in the March 2016 *Record of Decision* (ROD) (NYSDEC 2016). The purpose of individual PDI tasks are discussed in Section 2.

1.2 Report Organization

This PDI Summary Report is organized as follows:

- Section 1 – Introduction, objective, and summary of site remedy.
- Section 2 – PDI activities and results
- Section 3 – Path forward and project schedule update
- Section 4 – References

1.3 Site Remedy

As outlined in the NYSDEC ROD, the selected site remedy is a combination of ISS, focused excavation, capping, passive NAPL collection via wells and barrier walls, and institutional controls. A site plan which shows the layout of the North Albany Former MGP site is presented on Figure 1. Components of the selected site remedy for the former MGP Area (FMA) are depicted on Figure 2. The primary components of the selected remedy consist of the following:

- Removing approximately 12,600 cubic-yards (cy) of surface material and shallow subsurface soil during pre-ISS excavation activities.
- Stabilizing approximately 36,200 cy of in-situ subsurface soil containing significant visual evidence of non-aqueous phase liquid (NAPL) and/or polycyclic aromatic hydrocarbons (PAHs) at concentrations greater than 1,000 milligrams per kilogram (mg/kg).
- Excavating approximately 17,400 cy of highly viscous NAPL, heavily NAPL-impacted soil, and NAPL-coated wood chips located to the area east of Building 2 and extending north along the eastern property boundary to the Vehicle Maintenance Building (hereinafter referred to as the purifier waste area).
- Placing clean imported fill material within the purifier waste excavation area.

- Constructing (i.e., excavating and installing materials for) passive NAPL barrier walls east of the Genesee Street Substation (located in the northwest corner of the site) and along the eastern property boundary hydraulically downgradient from the FMA to: (1) facilitate NAPL collection and recovery; and (2) prevent further migration of NAPL beyond the FMA.
- Installing new NAPL recovery wells in the FMA and the Hazardous Waste Storage Tank Area (HWSTA) to facilitate collection and passive recovery of light non-aqueous phase liquid (LNAPL) and dense non-aqueous phase liquid (DNAPL). Additionally, new upgradient "sentinel" NAPL monitoring wells will be installed west of Broadway.
- Installing up to eight new NAPL recovery wells in the Off-Site Downgradient Area (OSDA) to facilitate collection and passive recovery of DNAPL.
- Removing approximately 6,600 cy of surface material (i.e., asphalt and gravel subbase at locations not subject to ISS treatment or excavation) to facilitate installation of a new asphalt cap.
- Constructing a new asphalt cap in the FMA to prevent potential future exposures to remaining impacted media.
- Treating (via low-temperature thermal desorption [LTTD]) and disposing of approximately 8,700 CY of material (50% of material excavated from the purifier waste area) that is assumed to be characteristically hazardous for benzene.
- Disposing approximately 21,200 tons of surface material and other debris as a non-hazardous waste at a construction and demolition (C&D) landfill.
- Disposing approximately 20,600 cy of material as a non-hazardous waste at a solid waste landfill. The Material will be excavated from: (1) the purifier waste area; (2) the ISS treatment area (surface and shallow subsurface soil to facilitate ISS); and (3) the location where the passive NAPL barrier wall will be installed.
- Conducting quarterly NAPL monitoring in the FMA and OSDA to passively recover LNAPL and DNAPL that may accumulate in new and existing NAPL recovery wells.
- Conducting annual groundwater monitoring in the OSDA to evaluate the dissolved-phase concentrations of COCs in OSDA groundwater.
- Conducting annual inspections of the asphalt cap (to identify cracks, deterioration, etc.) and implementing repairs to the cap, as necessary.

Establishing institutional controls for the FMA and OSDA to prohibit use of groundwater and limit the future development and use of these areas. The institutional controls will include a provision for evaluation of the potential for soil vapor intrusion for any buildings developed at the site in the future, and in any currently unoccupied on-site buildings upon occupancy or when site-related chemicals of concern are no longer in use in areas inside the on-site buildings.

2 PDI ACTIVITIES AND RESULTS

PDI field activities were primarily implemented by Arcadis from August 22 through September 21, 2017. PDI field activities were completed as part of the following tasks which were described in the February 2017 *Remedial Design Work Plan* (RDWP) (Arcadis 2017):

- PDI Task 1 – Subsurface Structure/Utility Mapping
- PDI Task 2 – Subsurface Soil Sampling
- PDI Task 3 – Bench-Scale ISS Treatability Study
- PDI Task 4 – Structural Inspection
- PDI Task 5 – Groundwater Investigation
- PDI Task 6 – Site Survey

Although not included as a component of the PDI activities presented in the RDWP, existing onsite groundwater monitoring wells, groundwater piezometers, ozone injection points, and soil vapor monitoring points were also decommissioned in conjunction with the PDI field efforts.

The PDI field activities were conducted in accordance with the *Field Sampling Plan* (FSP) that was included as Appendix A to the RDWP. Laboratory analysis of samples that were collected for the PDI was completed in accordance with the analytical procedures and requirements presented in the *Quality Assurance Project Plan* (QAPP) that was included as Appendix B the RDWP. Arcadis collected the following samples during the PDI activities:

Samples	Soil Samples	Water Samples
Geotechnical	42	0
Groundwater	0	8
Waste Characterization	19	1

During the completion of intrusive subsurface PDI activities (including completion of soil borings and well decommissioning activities), community air monitoring for particulates and volatile organic compounds (VOCs) was completed in accordance with DER-10 Appendix 1A – New York State Department of Health, Generic Community Air Monitoring Plan (NYSDEC 2010) (included as Appendix C to the RDWP). No exceedances of response/action levels occurred during intrusive activities.

PDI activities conducted as part of each PDI task are detailed below.

2.1 PDI Task 1 – Subsurface Structure / Utility Mapping

Prior to implementing intrusive PDI activities, Arcadis conducted the following activities to identify subsurface structures and verify utility locations:

- Reviewing historical mapping of the former MGP and utility plans for the site.

- Contacting Dig Safely New York to identify and mark the location of underground utilities at and in the immediate vicinity of the proposed remedial limits.
- Performing a geophysical survey using electromagnetic (EM) and ground penetrating radar (GPR) techniques to identify and mark the location of subsurface structures (mostly concrete) at depths up to 12 feet below grade at and in the immediate vicinity of the proposed remedial limits. Arcadis subcontracted with National GPR Services, Inc. to complete the geophysical survey.
- Obtaining and reviewing utility providers' utility location figures.

The location of identified subsurface structures and utilities was surveyed by a Arcadis' surveying subcontractor (CT Male Associates) (as discussed in Section 2.6). The PDI utility survey will be used to update the site base map, which will be used to support the Remedial Design. The results of the utility survey/subsurface structure mapping completed by National GPR are included as Appendix A. Updated utility survey information is presented in Figures 1 and 2.

2.2 PDI Task 2 – Subsurface Soil Sampling

Following the utility clearance and geophysical survey activities described above, subsurface soil sampling was completed to achieve the following:

- Obtain geotechnical data to support the design of NAPL barrier walls.
- Obtain geotechnical data to support the design of excavation support systems.
- Delineate/confirm the anticipated horizontal limits of soil excavation.
- Pre-characterize soil to be excavated and transported off-site for treatment/disposal.

The location of soil borings completed during the PDI are shown on Figure 3.

Soil borings were completed by Arcadis' drilling subcontractor, Parratt-Wolff, Inc. (Parratt-Wolff) using hollow-stem auger (HSA) drilling methods. Prior to drilling the borings, the boring locations were hand-cleared (or air-knifed/vacuumed) to an approximate depth of 5 feet below grade. Standard penetration test (SPT) data was obtained at selected soil boring locations in accordance with American Society for Testing and Materials (ASTM) D1586. Soil recovered from each sample interval during drilling was described and logged by field personnel for color, texture, moisture content, and presence/absence of NAPL. Following completion, the soil borings were tremie-grouted to the surface using a cement-bentonite grout. Select soil samples collected from the borings were submitted for geotechnical and analytical testing, as described in the following subsections.

2.2.1 PDI Task 2a – NAPL Barrier Wall Geotechnical Sampling

Soil borings were completed in the northwestern corner of the site (GT-1 through GT-4) and along the eastern portion of the site (GT-5 through GT-13) to facilitate the collection of soil samples for geotechnical analysis along the alignment of NAPL barrier walls to be constructed at the site. As indicated above, borings were completed using HAS drilling methods. At select locations, rock coring was completed approximately 5 feet into competent bedrock to evaluate the weathering and fracturing of the rock.

Soil boring logs are included as Appendix B. 39 Geotechnical soil samples were submitted to PW Laboratories, Inc., (PW Laboratories) located in East Syracuse, New York, for the following analyses:

Analysis	Test Method
Grain-size analysis with hydrometer	ASTM D422
Moisture content as a percentage of dry weight	ASTM D2216
Atterberg limits	ASTM D4318

Geotechnical laboratory reports are included as Appendix C. The collected geotechnical data will be evaluated during preparation of the remedial design.

2.2.2 PDI Task 2b – Excavation Support Geotechnical Sampling

As a portion of the eastern NAPL barrier wall coincides with the location of purifier waste excavation, soil borings GT-8 through GT-12 were also used to obtain geotechnical data that would support the evaluation and design of an excavation support system to facilitate excavation activities in this portion of the site. Additionally, soil borings GT-14 through GT-16 were complete to facilitate collection of geotechnical data along the western limits of the purifier waste excavation area (adjacent to Building 2). Consistent with the NAPL barrier wall geotechnical sampling, rock coring was completed, at select locations, approximately 5 feet into competent bedrock to evaluate the weathering and fracturing of the rock. using Shelby tubes at four locations.

As indicated above, soil boring logs are included as Appendix B. Shelby Tube samples were collected at boring locations GT-8, GT-12 and GT-15 where cohesive materials were encountered (consisting of interbedded clay and silt). The Shelby Tube samplers were submitted to PW Laboratories for the following analyses:

Analysis	Test Method
Grain-size analysis with #200 wash	ASTM D422 and ASTM D1140
Moisture content as a percentage of dry weight	ASTM D2216
Atterberg limits	ASTM D4318
Specific gravity	ASTM D4767
Flex-wall permeability, if applicable	ASTM D5084
Tri-axial shear test, if applicable	ASTM D4767 or ASTM D2850
Direct-shear test, if applicable	ASTM D3080

Geotechnical laboratory reports are included as Appendix C. The collected geotechnical data will be evaluated during preparation of the remedial design.

2.2.3 PDI Task 2c – Excavation Limits Delineation Sampling

Soil borings GT-14 through GT-16 were also used to gather additional delineation information regarding the horizontal limits of the purifier waste excavation. As indicated above, soil boring logs are included as Appendix B. Key observations from soil samples collected from the borings consist of:

- GT-14 – free of visual impacts
- GT-15 – woodchips with a black coal tar-like coating were observed at approximately 9 feet below grade
- GT-16 – trace sheen and strong odors were noted from 9 to 11 feet below grade

Although purifier waste was observed at soil boring GT-15, additional step-out borings were not completed in this area, based on the proximity of Building 2 and subsurface gas, electric, and communication utilities near the northeast corner of Building 2. National Grid does not anticipate altering the soil excavation limits in this portion of the site at this time.

2.2.4 PDI Task 2d – Waste Characterization Sampling

Waste characterization soil borings (WC-1 through WC-11) were completed in the purifier waste area, ISS area, and along barrier wall alignments to facilitate soil sample collection/analysis in support of direct-loading and transporting excavated material off-site for disposal/treatment. Waste characterization soil boring locations are shown on Figure 3. Note that at select locations, borings were completed to obtain both geotechnical and waste characterization samples. Soil samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) located in Amherst, New York for analysis for waste characterization parameters typically required for landfill disposal and low-temperature thermal desorption (LTTD) treatment. Five soil samples were submitted for analysis of the Landfill Characterization List and fourteen soil samples were submitted for analysis of the LTTD Characterization List as summarized below.

Landfill Characterization Analyte List	LTTD Characterization Analyte List
• Toxicity Characteristic Leaching Procedure (TCLP[1]) volatile organic compounds (VOCs) (USEPA Method 8260) • TCLP semi-volatile organic compounds (SVOCs) (USEPA Method 8270) • TCLP metals (USEPA Method 6010 and 7470 [mercury]) • TCLP pesticides and herbicides (USEPA Method 8081 and 8151) • PCBs (USEPA Method 8082) • Ignitability (USEPA Method 1030) • Corrosivity (pH) (USEPA Method 9045C)	• Total petroleum hydrocarbons (USEPA Method 8015 GRO/DRO) • Total VOCs (USEPA Method 8260B) • Total SVOCs (USEPA Method 8270C) • PCBs (USEPA Method 8082 [if sample is not analyzed for landfill characterization]) • Total metals[2] (USEPA Method 6010B and 7470 [mercury]) • Total cyanide (USEPA Method 9010) • Percent sulfur (USEPA Method D129-64) • British thermal units (USEPA Method D240-87)

[1] TCLP analysis preparation and extraction is performed by United States Environmental Protection Agency (USEPA) Method 1311.
[2] Total metals include antimony, arsenic, barium, beryllium, cadmium, chromium (total), lead, mercury, selenium, silver, thallium, vanadium, zinc

Landfill Characterization Analyte List	LTTD Characterization Analyte List
• Reactive sulfide (USEPA Method 7.3.3 and 9034) • Reactive cyanide (USEPA Method 7.3.4 and 9012) • Paint filter (USEPA Method 9095A)	

Waste characterization samples results are presented in Table 1. A summary of the visual observations and analytical results associated with the waste characterization sampling is presented as Table 2. Analytical laboratory reports are included as Appendix D.

Table 2 also presents the anticipated end use/disposal methods associated with soil to be excavated during remedial construction activities. Waste characterization analytical results will be further evaluated during preparation of the remedial design to identify the off-site treatment/disposal requirements for the material to be excavated during remedial construction activities. Final treatment/disposal methods will be determined during the remedial design, dependent on treatment/disposal facility approval.

2.3 PDI Task 3 – Bench-Scale ISS Treatability Study

As indicated in the RDWP, to support the development of the Feasibility Study, a bench-scale treatability study was completed 2012. Details of the bench-scale testing, as completed by Arcadis' geotechnical laboratory subcontractor, Geo-Solutions Inc.(Geo-Con), are presented in the *In-Situ Soil Solidification Bench-Scale Treatability Study Summary Report* included as Appendix E.

Representative soil samples were collected from the central portion of the site (typical NAPL-impacted soil) and east of Building 2 (to evaluate the effectiveness of ISS treatment on soils containing purifier waste) and submitted to the treatability laboratory for use in bench-scale testing. The objective of the bench-scale testing is to identify reagent mix designs for ISS that will successfully immobilize site-related constituents in impacted materials. Specifically, the mix designs were evaluated against the following criteria:

- Strength – The minimum 28-day unconfined compressive strength (UCS) of the treated soil matrix will be 50 pounds per square inch (psi). The minimum strength goal was selected to adequately bind constituents in the monolith and support replacement parking lots/driveways to be constructed following the ISS treatment.
- Hydraulic Conductivity – The maximum hydraulic conductivity of the treated soil matrix following addition of mixing reagents will be $1x10^{-6}$ centimeters per second (cm/sec). The reduced pore space and corresponding reduced hydraulic conductivity of the treated soil matrix will result in lower mobility of pore-filling liquids (water, DNAPL) and reduced potential for leaching.
- Leaching – A reduction in the potential for soil to contribute BTEX and PAHs to groundwater and is demonstrated by results from sequential monolith leaching.

A total of six mix designs, each consisting of various amounts of Portland Cement (PC), blast furnace slag (BFS), and bentonite, were used to evaluate the two different soil types (12 mixes total). Each of the 12 mixes were tested for UCS after 7 and 28 days of curing. Mixes achieving the 50 psi target USC were

selected for hydraulic conductivity testing (three mixes for each soil type, six mixes total). Each of the six tested mixes achieved a maximum hydraulic conductivity of $1x10^{-6}$ cm/sec. Each of the six mixes was then subjected to monolith leaching analysis. In general, mixes for the NAPL-impacted soil demonstrated a greater reduction in the leachability of treated material than the mixes that contained purifier waste.

Based on the results of the bench-scale treatability study, grout mixes SM4 (2% PC and 6% BFS) and SM6 (2% PC, 1% bentonite, and 6% BFS) are capable of achieving the required criteria when used to treat soils in the central portion of the site.

ISS bench-scale treatability study results indicated that soils containing purifier wastes (from the area east of Building 2) did not demonstrate a significant reduction in leachability following ISS treatment/mixing. ISS activities are not anticipated to be completed in this portion of the site; purifier waste impacted soils will be excavated and transported off-site for treatment/disposal during remedial construction activities.

2.4 PDI Task 4 – Structural Inspection

Arcadis conducted a structural review of Building #2 and the Vehicle Maintenance Building to identify information relative to the building structures (including the building structural components and foundation system) to support the design of excavation support systems for removal areas in close proximity to the buildings. An Arcadis structural engineer reviewed building construction drawings and completed an on-site visual review of accessible portions of the buildings on December 8, 2017 to develop an understanding of structural components and foundation systems.

In general, many modifications have been made to Building #2 since it was constructed, while the Vehicle Maintenance Building remains relatively consistent with its original construction. Cracking was observed in several interior and exterior masonry walls of Building #2. The Vehicle Maintenance Building appears to be in good condition. Both building foundations, entirely or in part, include a pile support system. However, the details of the pile support systems (e.g., size, depth, etc.) are not known. Recommendations for soil excavation activities (e.g., structural monitoring) are provided in the memorandum included as Appendix F. Additionally, test pits are recommended on the east side of Building #2 to assess the construction details of the loading dock.

2.5 PDI Task 5 – Groundwater Investigation

Groundwater investigation activities were conducted as part of the PDI to achieve the following:

- Support the design of a temporary groundwater treatment system.
- Facilitate an evaluation of dewatering that will be required during excavation.

A description of each of the groundwater investigation activities is presented below.

2.5.1 Groundwater Treatment System Sampling

Groundwater samples were collected and submitted for laboratory analysis to support the design of a temporary water treatment system, which is anticipated to be required to support soil excavation activities. Eight groundwater samples were collected from overburden and shallow bedrock monitoring wells within

and near the proposed excavation limits to characterize groundwater quality within the excavation area. Groundwater samples were submitted to TestAmerica for laboratory analysis of the following parameters:

Groundwater Monitoring Well Analyte List
• Total Toxic Organics [VOCs, SVOCs, and PCBs] • TAL inorganics and cyanide (filtered and unfiltered samples) • Oil and grease • Five-day biological oxygen demand • Chemical oxygen demand • Total kjeldahl nitrogen • Total suspended solids (TSS) • Total dissolved solids (TDS) • Hardness • pH • Bioactivity [iron-reducing, sulfate-reducing, and slime-forming bacteria]

Groundwater analytical results are presented in Table 3 and laboratory reports are included in Appendix G. Analytical results will be used to evaluate and select components of a temporary water treatment system that will treat groundwater removed from the excavation area.

2.5.2 Hydraulic Testing

Hydraulic testing was completed in support of evaluating potential dewatering rates during soil excavation activities. In general, the hydraulic testing activities consisted of measuring groundwater levels at each existing accessible site monitoring well and conducting specific capacity testing to estimate hydraulic conductivity of saturated soil at wells located near the excavation area. Specific capacity testing consisted of pumping groundwater from wells at a constant rate and quantifying the pumping rate and measuring the magnitude of drawdown inside the tested well after a known duration of pumping. The hydraulic conductivity was then calculated based on the pumping rate and drawdown measured inside the well and using a time-drawdown analysis. For reference, hydraulic conductivities were compared to those previously calculated based on slug testing completed by Foster Wheeler as part of the 1995 PSA / IRM Study.

Calculated hydraulic conductivities are presented in Table 4. In general, shallow and deep overburden hydraulic conductivities were calculated to be 0.1 to 37 feet per day (ft/day), which are notably less than those previously calculated for the shallow and deep overburdens (i.e., 22 and 79 ft/day, respectively). The hydraulic conductivity of the shale/bedrock was calculated to be 3.1 to 7.9 ft/day, which is greater than that previously calculated for the shale/bedrock (i.e., 0.12 ft/day).

2.6 PDI Task 6 – Site Survey

Arcadis' survey subcontractor (CT Male Associates) performed the following survey activities in support of the PDI activities:

- Documenting elevations and locations of subsurface utilities that are verified through intrusive field verification techniques (hand excavation, test pits, vacuum excavation, etc.).
- Documenting locations of subsurface structures/anomalies as identified by the geophysical survey (for later use during the utility location efforts and inclusion on Contract Drawings, as needed).
- Establishing grids needed for conducting the geophysical survey.
- Documenting locations of overhead and subsurface utilities (in and around the proposed soil remedial activities), as identified and marked in the field by the utility locators and personnel performing a geophysical survey (for later use during the utility location efforts and inclusion on Contract Drawings to be prepared as part of the Remedial Design).
- Locating and staking property boundaries near the remedial areas, as appropriate.
- Marking the proposed horizontal limits of the ISS treatment area, NAPL barrier wall alignment, and excavation area (for visual reference during implementation of the PDI field investigation activities).
- Field-identifying and marking PDI soil boring locations based on coordinates obtained from mapping (to allow soil borings to be positioned in relation to the anticipated remedial limits).
- Preparing topographic mapping to show ground surface elevation contours (1-foot contours) in and around the proposed remedial limits. This will also include verifying the locations for fence lines, roadways/sidewalks, and other site features.

A copy of the new site map developed by CT Males is included as Appendix H. The information obtained from the survey efforts will be used to update the site base map and other drawings for use during preparation of the Remedial Design.

2.7 Monitoring Well Decommissioning

In conjunction with the PDI activities described above, 24 groundwater monitoring wells, 3 groundwater piezometers, 14 ozone injection sparge points, and 6 soil vapor monitoring points were decommissioned during September 2017. Arcadis requested permission to complete the decommissioning activities via an August 9, 2017 email to NYSDEC; NYSDEC approved the well decommissioning in during an August 18, 2017 telephone conversation with Arcadis. In general, monitoring wells, piezometers, and remaining ozone injection and soil vapor monitoring points were decommissioned via tremie grouting and/over over-drilling the well casings. Concrete pads (and curb boxes for flush-mount wells) were removed and the ground surface was restored to match the surrounding materials. Monitoring well decommissioning logs are provided as Appendix I. The locations of decommissioned wells are shown on Figure 4.

2.8 IDW Management

Soil cuttings and other investigation-derived wastes (IDW) (e.g., plastic sheeting, decontamination wash waters, etc.) were containerized in 55-gallon drums for off-site disposal based on the waste characterization sampling described in Section 2.2.4. Each drum/container was appropriately labeled (i.e., with the contents, generator, location, and date). All IDW generated by the PDI activities was transported for off-site treatment/disposal by Capitol Environmental Services, under contract to National Grid.

3 PATH FORWARD

As indicated in Section 2, test pits are recommended to further assess the construction details of the loading dock on the east side of Building #2. Test pitting is anticipated to be conducted in Spring 2018. National Grid will provide NYSDEC with details regarding the testing pitting activities, a minimum of two weeks before field work commences.

Based on the results of the completed PDI activities, the site remedy is anticipated to be constructed in accordance with the ROD. As presented in the RDWP, a *Preliminary Remedial Design Report* will serve as the initial remedial design submittal. Arcadis will begin preparation of the remedial design in Q1 2018 and anticipates submitting the *Preliminary Remedial Design Report* to NYSDEC for review in mid-2018. Following receipt of the NYSDEC comments, Arcadis will prepare a *Draft Final Remedial Design Report* for NYSDEC review. This schedule for preparing remedial design documents is dependent on several factors, including timely receipt of NYSDEC comments on project submittals.

Remedial construction activities are anticipated to commence in 2019 or 2020 and will be completed over multiple construction seasons. A more detailed schedule for the remedial construction activities will be developed during preparation of the remedial design.

4 REFERENCES

Arcadis 2017. *Remedial Design Work Plan*, North Albany Former Manufactured Gas Plant Site. February 2017.

NYSDEC 2010. DER-10/Technical Guidance for Site Investigation and Remediation. May 3, 2010.

NYSDEC 2016. Record of Decision, NM - North Albany State Superfund Project, RCRA Corrective Action Program, March 2016.

TABLES

Table 1
Soil Waste Characterization Sample Analytical Results
PDI Summary Report

National Grid
North Albany Former MGP Site

Location ID:		WC-1	WC-2	WC-3	WC-4	WC-5	WC-5	WC-6	WC-6
Sample Depth (feet):		0 - 6	0 - 6	0 - 6	1 - 6	0.5 - 9	9 - 16	0.5 - 11	11 - 16
Date Collected:		8/22/2017	8/22/2017	8/22/2017	8/23/2017	9/14/2017	9/14/2017	9/14/2017	9/14/2017
Sample Name:	Units	WC-1	WC-2	WC-3	WC-4	WC-5 (0.5-9)	WC-5 (9-16)	WC-6 (0.5-11)	WC-6 (11-16)
Volatile Organic Compounds									
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,1-Dichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,1-Dichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,2-Dibromo-3-chloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,2-Dibromoethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,2-Dichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	67 U
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	67 U
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	67 U
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	67 U
Benzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	76
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Bromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Carbon Tetrachloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Chlorodibromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Chloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
cis-1,2-Dichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Ethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	130
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Methyl Acetate	mg/kg	NA	NA	NA	NA	NA	NA	NA	67 U

Table 1
Soil Waste Characterization Sample Analytical Results
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Location ID: Sample Depth (feet): Date Collected: Sample Name:	Units	WC-1 0 - 6 8/22/2017 WC-1	WC-2 0 - 6 8/22/2017 WC-2	WC-3 0 - 6 8/22/2017 WC-3	WC-4 1 - 6 8/23/2017 WC-4	WC-5 0.5 - 9 9/14/2017 WC-5 (0.5-9)	WC-5 9 - 16 9/14/2017 WC-5 (9-16)	WC-6 0.5 - 11 9/14/2017 WC-6 (0.5-11)	WC-6 11 - 16 9/14/2017 WC-6 (11-16)
Methyl tert-butyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Methylcyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Toluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	49
Total Xylenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	41
trans-1,2-Dichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Vinyl Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	13 U
Volatile Organic Compounds - TCLP									
1,1-Dichloroethene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
1,2-Dichloroethane	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
2-Butanone	mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	NA
Benzene	mg/L	0.046	0.041	0.010 U	0.045	0.033	0.59	0.010 U	NA
Carbon Tetrachloride	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Chlorobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Chloroform	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Tetrachloroethene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Trichloroethene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Vinyl Chloride	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Semivolatile Organic Compounds									
1,1'-Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	190
2,2'-oxybis(dichloropropane)	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	40 U
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	300
2-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U

Table 1
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Location ID: Sample Depth (feet): Date Collected: Sample Name:	Units	WC-1 0 - 6 8/22/2017 WC-1	WC-2 0 - 6 8/22/2017 WC-2	WC-3 0 - 6 8/22/2017 WC-3	WC-4 1 - 6 8/23/2017 WC-4	WC-5 0.5 - 9 9/14/2017 WC-5 (0.5-9)	WC-5 9 - 16 9/14/2017 WC-5 (9-16)	WC-6 0.5 - 11 9/14/2017 WC-6 (0.5-11)	WC-6 11 - 16 9/14/2017 WC-6 (11-16)
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	8.1 U
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA	8.1 U
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	8.1 U
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	8.1 U
4-Bromophenyl phenyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
4-Chlorophenyl phenyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	8.1 U
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	8.1 U
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	8.1 U
Acenaphthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	300
Acenaphthylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	96
Acetophenone	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	180
Atrazine	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Benzaldehyde	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Benzo(a)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	170
Benzo(a)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	210
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	170
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	170
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	84
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
bis(2-Chloroethyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Bis(2-ethylhexyl) phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Butyl benzyl phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Caprolactam	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.0 J
Chrysene	mg/kg	NA	NA	NA	NA	NA	NA	NA	170
Dibenz(a,h)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA	7.3
Diethyl phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Dimethyl phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Di-n-butyl phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Di-n-octyl phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	570

Table 1
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Location ID: Sample Depth (feet): Date Collected: Sample Name:	Units	WC-1 0 - 6 8/22/2017 WC-1	WC-2 0 - 6 8/22/2017 WC-2	WC-3 0 - 6 8/22/2017 WC-3	WC-4 1 - 6 8/23/2017 WC-4	WC-5 0.5 - 9 9/14/2017 WC-5 (0.5-9)	WC-5 9 - 16 9/14/2017 WC-5 (9-16)	WC-6 0.5 - 11 9/14/2017 WC-6 (0.5-11)	WC-6 11 - 16 9/14/2017 WC-6 (11-16)
Fluorene	mg/kg	NA	NA	NA	NA	NA	NA	NA	210
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Hexachlorobutadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	98
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	2,700
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
N-Nitroso-di-N-propylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	8.1 U
Phenanthrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	1,200
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	4.1 U
Pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	770
Semivolatile Organic Compounds - TCLP									
1,4-Dichlorobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
2,4,5-Trichlorophenol	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA
2,4,6-Trichlorophenol	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA
2,4-Dinitrotoluene	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA
2-Methylphenol	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA
3-Methylphenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0021 J	0.010 U	NA
4-Methylphenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0021 J	0.010 U	NA
Hexachlorobenzene	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA
Hexachlorobutadiene	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA
Hexachloroethane	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA
Nitrobenzene	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA
Pentachlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Pyridine, TCLP	mg/L	0.025 U	0.025 U	0.025 U	0.0020 J	0.025 U	0.025 U	0.025 U	NA
Polychlorinated Biphenyls									
Aroclor-1016	mg/kg	0.25 U	0.24 U	0.22 U	0.19 U	0.27 U	0.26 U	0.24 U	0.26 U
Aroclor-1221	mg/kg	0.25 U	0.24 U	0.22 U	0.19 U	0.27 U	0.26 U	0.24 U	0.26 U
Aroclor-1232	mg/kg	0.25 U	0.24 U	0.22 U	0.19 U	0.27 U	0.26 U	0.24 U	0.26 U
Aroclor-1242	mg/kg	0.25 U	0.24 U	0.22 U	0.19 U	0.27 U	0.26 U	0.24 U	0.26 U
Aroclor-1248	mg/kg	0.25 U	0.24 U	0.22 U	0.19 U	0.27 U	0.26 U	0.24 U	0.26 U
Aroclor-1254	mg/kg	0.25 U	0.24 U	0.22 U	0.19 U	0.27 U	0.26 U	0.24 U	0.26 U
Aroclor-1260	mg/kg	0.42	0.48	0.22 U	0.21	0.76	0.26 U	2.5	0.26 U

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PCB-1262	mg/kg	0.25 U	0.24 U	0.22 U	0.19 U	NA	NA	NA	NA
PCB-1268	mg/kg	0.25 U	0.24 U	0.22 U	0.19 U	NA	NA	NA	NA
Pesticides-TCLP									
Chlordane (technical)	mg/L	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	NA
Endrin	mg/L	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	NA
gamma-BHC (Lindane)	mg/L	0.000068 J	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	NA
Heptachlor	mg/L	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	NA
Heptachlor epoxide	mg/L	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	NA
Methoxychlor	mg/L	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	NA
Toxaphene	mg/L	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	NA
Herbicides-TCLP									
2,4-D	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA
Silvex (2,4,5-TP)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA
Inorganics									
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA	18,300
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	18.8 U
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	7.00
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	161
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.960
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.180 J
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA	3,390 B
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	23.1 B
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	13.1
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	26.5
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	NA	1.20 U
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA	26,500 B
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	34.6
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA	4,740
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	974 B
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.260
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	30.5
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA	3,210
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.720 J
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.750 U
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA	180
Sulfur	mg/kg	NA	NA	NA	NA	NA	NA	NA	1,300
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	7.50 U

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Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	35.6
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	71.7
Inorganics-TCLP									
Arsenic	mg/L	0.0130 JB	0.0150 U	0.00700 J	0.0110 J	0.0110 JB	0.00740 JB	0.0160 B	NA
Barium	mg/L	0.670 J	0.460 J	1.20	1.20	0.480 J	1.10	0.200 J	NA
Cadmium	mg/L	0.000890 J	0.00410	0.00850	0.00350	0.00180 J	0.000680 J	0.00100 J	NA
Chromium	mg/L	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	NA
Lead	mg/L	0.110	0.980	3.00	0.910	0.0940 B	0.0220 B	0.00620 JB	NA
Mercury	mg/L	0.000200 U	0.000200 U	0.000200 U	0.000200 U	0.000200 U	0.000200 U	0.000200 U	NA
Selenium	mg/L	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	NA
Silver	mg/L	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	NA
TPH									
Diesel Range Organics (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	7,800
Gasoline Range Organics (GRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	200 B
Miscellaneous									
BTU	btu/lb	NA	NA	NA	NA	NA	NA	NA	2 U
Free Liquid	mL/100g	NA	NA	NA	NA	NA	NA	NA	NA
Ignitability	°F	50 U	50 U	50 U	50 U	50 U	50 U	50 U	NA
pH	pH Units	8.5 HF	8.2 HF	8.2 HF	8.6 HF	7.7 HF	7.2 HF	7.4 HF	NA
Reactivity, Cyanide	mg/kg	10 U	10 U	10 U	10 U	9.9 U	10 U	10 U	NA
Reactivity, Sulfide	mg/kg	10 U	10 U	10 U	10 U	9.9 U	10 U	10 U	NA
Temperature at Analysis	°C	21.1 HF	21.8 HF	21.1 HF	20.6 HF	21.1 HF	20.9 HF	21.3 HF	NA

Table 1
Soil Waste Characterization Sample Analytical Results
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Location ID:	WC-7	WC-7	WC-8	WC-8	WC-9	WC-9	WC-10
Sample Depth (feet):	0.5 - 7	7 - 16	0.5 - 8	8 - 16	0.5 - 9	10.5 - 26.4	0.5 - 11
Date Collected:	9/13/2017	9/13/2017	9/12/2017	9/12/2017	9/8/2017	9/8/2017	9/5/2017
Sample Name:	WC-7 (0.5-7)	WC-7 (7-16)	WC-8 (0.5-8)	WC-8 (8-16)	WC-9 (0.5-9.0)	WC-9 (10.5-26.4)	WC-10 (0.5'-11')
Volatile Organic Compounds							
1,1,1-Trichloroethane	NA	15 U	NA	5.4 U	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	15 U	NA	5.4 U	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	15 U	NA	5.4 U	NA	NA	NA
1,1,2-Trichloroethane	NA	15 U	NA	5.4 U	NA	NA	NA
1,1-Dichloroethane	NA	15 U	NA	5.4 U	NA	NA	NA
1,1-Dichloroethene	NA	15 U	NA	5.4 U	NA	NA	NA
1,2,4-Trichlorobenzene	NA	15 U	NA	5.4 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	15 U	NA	5.4 U	NA	NA	NA
1,2-Dibromoethane	NA	15 U	NA	5.4 U	NA	NA	NA
1,2-Dichlorobenzene	NA	15 U	NA	5.4 U	NA	NA	NA
1,2-Dichloroethane	NA	15 U	NA	5.4 U	NA	NA	NA
1,2-Dichloropropane	NA	15 U	NA	5.4 U	NA	NA	NA
1,3-Dichlorobenzene	NA	15 U	NA	5.4 U	NA	NA	NA
1,4-Dichlorobenzene	NA	15 U	NA	5.4 U	NA	NA	NA
2-Butanone	NA	73 U	NA	27 U	NA	NA	NA
2-Hexanone	NA	73 U	NA	27 U	NA	NA	NA
4-Methyl-2-pentanone	NA	73 U	NA	27 U	NA	NA	NA
Acetone	NA	73 U	NA	27 U	NA	NA	NA
Benzene	NA	820	NA	270	NA	NA	NA
Bromodichloromethane	NA	15 U	NA	5.4 U	NA	NA	NA
Bromoform	NA	15 U	NA	5.4 U	NA	NA	NA
Bromomethane	NA	15 U	NA	5.4 U	NA	NA	NA
Carbon Disulfide	NA	15 U	NA	5.4 U	NA	NA	NA
Carbon Tetrachloride	NA	15 U	NA	5.4 U	NA	NA	NA
Chlorobenzene	NA	15 U	NA	5.4 U	NA	NA	NA
Chlorodibromomethane	NA	15 U	NA	5.4 U	NA	NA	NA
Chloroethane	NA	15 U	NA	5.4 U	NA	NA	NA
Chloroform	NA	15 U*	NA	5.4 U	NA	NA	NA
Chloromethane	NA	15 U	NA	5.4 U	NA	NA	NA
cis-1,2-Dichloroethene	NA	15 U*	NA	5.4 U	NA	NA	NA
cis-1,3-Dichloropropene	NA	15 U	NA	5.4 U	NA	NA	NA
Cyclohexane	NA	15 U	NA	5.4 U	NA	NA	NA
Dichlorodifluoromethane	NA	15 U	NA	5.4 U	NA	NA	NA
Ethylbenzene	NA	1,200	NA	490	NA	NA	NA
Isopropylbenzene	NA	15	NA	4.5 J	NA	NA	NA
Methyl Acetate	NA	73 U	NA	27 U	NA	NA	NA

Table 1
Soil Waste Characterization Sample Analytical Results
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Location ID: Sample Depth (feet): Date Collected: Sample Name:	WC-7 0.5 - 7 9/13/2017 WC-7 (0.5-7)	WC-7 7 - 16 9/13/2017 WC-7 (7-16)	WC-8 0.5 - 8 9/12/2017 WC-8 (0.5-8)	WC-8 8 - 16 9/12/2017 WC-8 (8-16)	WC-9 0.5 - 9 9/8/2017 WC-9 (0.5-9.0)	WC-9 10.5 - 26.4 9/8/2017 WC-9 (10.5-26.4)	WC-10 0.5 - 11 9/5/2017 WC-10 (0.5'-11')
Methyl tert-butyl ether	NA	15 U	NA	5.4 U	NA	NA	NA
Methylcyclohexane	NA	15 U*	NA	5.4 U	NA	NA	NA
Methylene Chloride	NA	6.1 JB	NA	5.4 U	NA	NA	NA
Styrene	NA	15 U	NA	5.4 U	NA	NA	NA
Tetrachloroethene	NA	15 U*	NA	5.4 U	NA	NA	NA
Toluene	NA	480	NA	210	NA	NA	NA
Total Xylenes	NA	430	NA	190	NA	NA	NA
trans-1,2-Dichloroethene	NA	15 U	NA	5.4 U	NA	NA	NA
trans-1,3-Dichloropropene	NA	15 U	NA	5.4 U	NA	NA	NA
Trichloroethene	NA	15 U	NA	5.4 U	NA	NA	NA
Trichlorofluoromethane	NA	15 U	NA	5.4 U	NA	NA	NA
Vinyl Chloride	NA	15 U	NA	5.4 U	NA	NA	NA
Volatile Organic Compounds - TCLP							
1,1-Dichloroethene	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
1,2-Dichloroethane	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
2-Butanone	0.050 U	NA	0.050 U	NA	0.050 U	0.050 U	0.050 U
Benzene	0.0082 J	NA	0.0076 J	NA	0.010 U	0.056	0.010 U
Carbon Tetrachloride	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
Chlorobenzene	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
Chloroform	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
Tetrachloroethene	0.010 U	NA	0.0037 J	NA	0.010 U	0.010 U	0.010 U
Trichloroethene	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
Vinyl Chloride	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
Semivolatile Organic Compounds							
1,1'-Biphenyl	NA	620	NA	400	NA	NA	NA
2,2'-oxybis(dichloropropane)	NA	13 U	NA	12 U	NA	NA	NA
2,4,5-Trichlorophenol	NA	13 U	NA	12 U	NA	NA	NA
2,4,6-Trichlorophenol	NA	13 U	NA	12 U	NA	NA	NA
2,4-Dichlorophenol	NA	13 U	NA	12 U	NA	NA	NA
2,4-Dimethylphenol	NA	13 U	NA	12 U	NA	NA	NA
2,4-Dinitrophenol	NA	130 U	NA	110 U	NA	NA	NA
2,4-Dinitrotoluene	NA	13 U	NA	12 U	NA	NA	NA
2,6-Dinitrotoluene	NA	13 U	NA	12 U	NA	NA	NA
2-Chloronaphthalene	NA	13 U	NA	12 U	NA	NA	NA
2-Chlorophenol	NA	13 U	NA	12 U	NA	NA	NA
2-Methylnaphthalene	NA	1,200	NA	860	NA	NA	NA
2-Methylphenol	NA	13 U	NA	12 U	NA	NA	NA

Table 1
Soil Waste Characterization Sample Analytical Results
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Location ID: Sample Depth (feet): Date Collected: Sample Name:	WC-7 0.5 - 7 9/13/2017 WC-7 (0.5-7)	WC-7 7 - 16 9/13/2017 WC-7 (7-16)	WC-8 0.5 - 8 9/12/2017 WC-8 (0.5-8)	WC-8 8 - 16 9/12/2017 WC-8 (8-16)	WC-9 0.5 - 9 9/8/2017 WC-9 (0.5-9.0)	WC-9 10.5 - 26.4 9/8/2017 WC-9 (10.5-26.4)	WC-10 0.5 - 11 9/5/2017 WC-10 (0.5'-11')
2-Nitroaniline	NA	26 U	NA	23 U	NA	NA	NA
2-Nitrophenol	NA	13 U	NA	12 U	NA	NA	NA
3,3'-Dichlorobenzidine	NA	26 U	NA	23 U	NA	NA	NA
3-Nitroaniline	NA	26 U	NA	23 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	26 U	NA	23 U	NA	NA	NA
4-Bromophenyl phenyl ether	NA	13 U	NA	12 U	NA	NA	NA
4-Chloro-3-methylphenol	NA	13 U	NA	12 U	NA	NA	NA
4-Chloroaniline	NA	13 U	NA	12 U	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	13 U	NA	12 U	NA	NA	NA
4-Methylphenol	NA	26 U	NA	23 U	NA	NA	NA
4-Nitroaniline	NA	26 U	NA	23 U	NA	NA	NA
4-Nitrophenol	NA	26 U	NA	23 U	NA	NA	NA
Acenaphthene	NA	1,700	NA	610	NA	NA	NA
Acenaphthylene	NA	420	NA	850	NA	NA	NA
Acetophenone	NA	13 U	NA	12 U	NA	NA	NA
Anthracene	NA	690	NA	630	NA	NA	NA
Atrazine	NA	13 U	NA	12 U	NA	NA	NA
Benzaldehyde	NA	13 U	NA	12 U	NA	NA	NA
Benzo(a)anthracene	NA	620	NA	420	NA	NA	NA
Benzo(a)pyrene	NA	760	NA	510	NA	NA	NA
Benzo(b)fluoranthene	NA	590	NA	390	NA	NA	NA
Benzo(g,h,i)perylene	NA	570	NA	360	NA	NA	NA
Benzo(k)fluoranthene	NA	290	NA	240	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	13 U	NA	12 U	NA	NA	NA
bis(2-Chloroethyl)ether	NA	13 U	NA	12 U	NA	NA	NA
Bis(2-ethylhexyl) phthalate	NA	13 U	NA	12 U	NA	NA	NA
Butyl benzyl phthalate	NA	13 U	NA	12 U	NA	NA	NA
Caprolactam	NA	13 U	NA	12 U	NA	NA	NA
Carbazole	NA	14	NA	15	NA	NA	NA
Chrysene	NA	630	NA	440	NA	NA	NA
Dibenz(a,h)anthracene	NA	13 U	NA	12 U	NA	NA	NA
Dibenzofuran	NA	36	NA	41	NA	NA	NA
Diethyl phthalate	NA	13 U	NA	12 U	NA	NA	NA
Dimethyl phthalate	NA	13 U	NA	12 U	NA	NA	NA
Di-n-butyl phthalate	NA	13 U	NA	12 U	NA	NA	NA
Di-n-octyl phthalate	NA	13 U	NA	12 U	NA	NA	NA
Fluoranthene	NA	2,000	NA	1,400	NA	NA	NA

Table 1
Soil Waste Characterization Sample Analytical Results
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National Grid
North Albany Former MGP Site

Location ID:	WC-7	WC-7	WC-8	WC-8	WC-9	WC-9	WC-10
Sample Depth (feet):	0.5 - 7	7 - 16	0.5 - 8	8 - 16	0.5 - 9	10.5 - 26.4	0.5 - 11
Date Collected:	9/13/2017	9/13/2017	9/12/2017	9/12/2017	9/8/2017	9/8/2017	9/5/2017
Sample Name:	WC-7 (0.5-7)	WC-7 (7-16)	WC-8 (0.5-8)	WC-8 (8-16)	WC-9 (0.5-9.0)	WC-9 (10.5-26.4)	WC-10 (0.5'-11')
Fluorene	NA	760	NA	590	NA	NA	NA
Hexachlorobenzene	NA	13 U	NA	12 U	NA	NA	NA
Hexachlorobutadiene	NA	13 U	NA	12 U	NA	NA	NA
Hexachlorocyclopentadiene	NA	13 U	NA	12 U	NA	NA	NA
Hexachloroethane	NA	13 U	NA	12 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	380	NA	260	NA	NA	NA
Isophorone	NA	13 U	NA	12 U	NA	NA	NA
Naphthalene	NA	8,900	NA	6,100	NA	NA	NA
Nitrobenzene	NA	13 U	NA	12 U	NA	NA	NA
N-Nitroso-di-N-propylamine	NA	13 U	NA	12 U	NA	NA	NA
N-Nitrosodiphenylamine	NA	13 U	NA	12 U	NA	NA	NA
Pentachlorophenol	NA	26 U	NA	23 U	NA	NA	NA
Phenanthrene	NA	4,100	NA	3,000	NA	NA	NA
Phenol	NA	13 U	NA	12 U	NA	NA	NA
Pyrene	NA	2,700	NA	1,900	NA	NA	NA
Semivolatile Organic Compounds - TCLP							
1,4-Dichlorobenzene	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
2,4,5-Trichlorophenol	0.0050 U	NA	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U
2,4,6-Trichlorophenol	0.0050 U	NA	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U
2,4-Dinitrotoluene	0.0050 U	NA	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U
2-Methylphenol	0.0050 U	NA	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U
3-Methylphenol	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
4-Methylphenol	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
Hexachlorobenzene	0.0050 U	NA	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U
Hexachlorobutadiene	0.0050 U	NA	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U
Hexachloroethane	0.0050 U	NA	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U
Nitrobenzene	0.0050 U	NA	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U
Pentachlorophenol	0.010 U	NA	0.010 U	NA	0.010 U	0.010 U	0.010 U
Pyridine, TCLP	0.025 U	NA	0.025 U	NA	0.025 U	0.025 U	0.025 U
Polychlorinated Biphenyls							
Aroclor-1016	0.27 U	0.29 U	0.26 U	0.26 U	0.24 U	0.23 U	0.23 U
Aroclor-1221	0.27 U	0.29 U	0.26 U	0.26 U	0.24 U	0.23 U	0.23 U
Aroclor-1232	0.27 U	0.29 U	0.26 U	0.26 U	0.24 U	0.23 U	0.23 U
Aroclor-1242	0.27	0.29 U	0.26 U	0.26 U	0.24 U	0.23 U	0.23 U
Aroclor-1248	0.27 U	0.29 U	0.26 U	0.26 U	0.24 U	0.23 U	0.23 U
Aroclor-1254	0.27 U	0.29 U	0.26 U	0.26 U	0.24 U	0.23 U	0.23 U
Aroclor-1260	0.27 U	0.29 U	0.26 U	0.26 U	0.19 J	0.23 U	0.23 U

Table 1
Soil Waste Characterization Sample Analytical Results
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Location ID:	WC-7	WC-7	WC-8	WC-8	WC-9	WC-9	WC-10
Sample Depth (feet):	0.5 - 7	7 - 16	0.5 - 8	8 - 16	0.5 - 9	10.5 - 26.4	0.5 - 11
Date Collected:	9/13/2017	9/13/2017	9/12/2017	9/12/2017	9/8/2017	9/8/2017	9/5/2017
Sample Name:	WC-7 (0.5-7)	WC-7 (7-16)	WC-8 (0.5-8)	WC-8 (8-16)	WC-9 (0.5-9.0)	WC-9 (10.5-26.4)	WC-10 (0.5'-11')
PCB-1262	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA
Pesticides-TCLP							
Chlordane (technical)	0.0020 U	NA	0.0020 U	NA	0.0020 U	0.0020 U	0.0020 U
Endrin	0.00020 U	NA	0.00020 U	NA	0.00020 U	0.00020 U	0.00020 U
gamma-BHC (Lindane)	0.00020 U	NA	0.00020 U	NA	0.00020 U	0.00010 JB	0.00020 U
Heptachlor	0.00020 U	NA	0.00020 U	NA	0.00020 U	0.00020 U	0.00020 U
Heptachlor epoxide	0.00020 U	NA	0.00020 U	NA	0.00020 U	0.00020 U	0.00020 U
Methoxychlor	0.00020 U	NA	0.00020 U	NA	0.00020 U	0.00020 U	0.00020 U
Toxaphene	0.0020 U	NA	0.0020 U	NA	0.0020 U	0.0020 U	0.0020 U
Herbicides-TCLP							
2,4-D	0.002 U	NA	0.002 U	NA	0.002 U	0.002 U	0.002 U
Silvex (2,4,5-TP)	0.002 U	NA	0.002 U	NA	0.002 U	0.002 U	0.002 U
Inorganics							
Aluminum	NA	11,900	NA	12,600	NA	NA	NA
Antimony	NA	2.80 J	NA	17.9 U	NA	NA	NA
Arsenic	NA	8.10	NA	5.10	NA	NA	NA
Barium	NA	117	NA	87.9	NA	NA	NA
Beryllium	NA	0.630	NA	0.590	NA	NA	NA
Cadmium	NA	0.0850 J	NA	0.160 J	NA	NA	NA
Calcium	NA	4,710 B	NA	1,900	NA	NA	NA
Chromium	NA	20.5 B	NA	19.0 B	NA	NA	NA
Cobalt	NA	10.0	NA	8.40	NA	NA	NA
Copper	NA	29.3	NA	21.1	NA	NA	NA
Cyanide	NA	1.30 U	NA	1.10	NA	NA	NA
Iron	NA	24,800 B	NA	22,600 ^	NA	NA	NA
Lead	NA	164	NA	26.9	NA	NA	NA
Magnesium	NA	3,340 B	NA	5,980	NA	NA	NA
Manganese	NA	572 B	NA	398 B	NA	NA	NA
Mercury	NA	0.230	NA	0.0420	NA	NA	NA
Nickel	NA	33.9	NA	24.2	NA	NA	NA
Potassium	NA	2,170	NA	2,490	NA	NA	NA
Selenium	NA	2.30 J	NA	0.480 J	NA	NA	NA
Silver	NA	0.750 U	NA	0.720 U	NA	NA	NA
Sodium	NA	337 B	NA	200	NA	NA	NA
Sulfur	NA	2,000	NA	17,000	NA	NA	NA
Thallium	NA	7.50 U	NA	7.20 U	NA	NA	NA

Table 1
Soil Waste Characterization Sample Analytical Results
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National Grid
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Location ID:	WC-7	WC-7	WC-8	WC-8	WC-9	WC-9	WC-10
Sample Depth (feet):	0.5 - 7	7 - 16	0.5 - 8	8 - 16	0.5 - 9	10.5 - 26.4	0.5 - 11
Date Collected:	9/13/2017	9/13/2017	9/12/2017	9/12/2017	9/8/2017	9/8/2017	9/5/2017
Sample Name:	WC-7 (0.5-7)	WC-7 (7-16)	WC-8 (0.5-8)	WC-8 (8-16)	WC-9 (0.5-9.0)	WC-9 (10.5-26.4)	WC-10 (0.5'-11')
Vanadium	NA	31.3	NA	21.7	NA	NA	NA
Zinc	NA	150	NA	66.0	NA	NA	NA
Inorganics-TCLP							
Arsenic	0.00910 JB	NA	0.00940 JB	NA	0.0150 U	0.00790 J	0.0150 U
Barium	0.480 J	NA	0.570 J	NA	0.460 J	1.20	0.380 J
Cadmium	0.00200 U	NA	0.00130 J	NA	0.00100 J	0.000560 J	0.00110 J
Chromium	0.0200 U	NA	0.0200 U	NA	0.0200 U	0.0200 U	0.0200 U
Lead	0.0690 B	NA	0.0200 B	NA	0.00700 J	0.00980 J	0.00580 J
Mercury	0.000200 U	NA	0.000200 U	NA	0.000200 U	0.000200 U	0.000200 U
Selenium	0.0250 U	NA	0.0250 U	NA	0.0250 U	0.0250 U	0.0250 U
Silver	0.00600 U	NA	0.00600 U	NA	0.00600 U	0.00600 U	0.00600 U
TPH							
Diesel Range Organics (DRO)	NA	32,000	NA	38,000	NA	NA	NA
Gasoline Range Organics (GRO)	NA	2,400 B	NA	1,800 B	NA	NA	NA
Miscellaneous							
BTU	NA	2 U	NA	2 U	NA	NA	NA
Free Liquid	NA	NA	NA	NA	NA	NA	NA
Ignitability	50 U	NA	50 U	NA	50 U	50 U	50 U
pH	8 HF	NA	8.4 HF	NA	10.9 HF	10.8 HF	8.8 HF
Reactivity, Cyanide	10 U	NA	10 U	NA	10 U	10 U	10 U
Reactivity, Sulfide	10 U	NA	10 U	NA	10 U	10 U	20
Temperature at Analysis	21 HF	NA	20.9 HF	NA	25.1 HF	24.9 HF	19.8 HF

Table 1
Soil Waste Characterization Sample Analytical Results
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Location ID:	WC-10	WC-11	WC-11	WC-11
Sample Depth (feet):	11 - 21.6	0.5 - 11	11 - 19.3	11 - 19.3
Date Collected:	9/5/2017	9/6/2017	9/6/2017	9/6/2017
Sample Name:	WC-10 (11'-21.6')	WC-11 (0.5'-11')	WC-11 (11'-19.3')	WC-11 (11-19.3)
Volatile Organic Compounds				
1,1,1-Trichloroethane	4.9 U	NA	NA	1.1 U
1,1,2,2-Tetrachloroethane	4.9 U	NA	NA	1.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9 U	NA	NA	1.1 U*
1,1,2-Trichloroethane	4.9 U	NA	NA	1.1 U
1,1-Dichloroethane	4.9 U	NA	NA	1.1 U
1,1-Dichloroethene	4.9 U	NA	NA	1.1 U
1,2,4-Trichlorobenzene	4.9 U	NA	NA	1.1 U
1,2-Dibromo-3-chloropropane	4.9 U	NA	NA	1.1 U
1,2-Dibromoethane	4.9 U	NA	NA	1.1 U
1,2-Dichlorobenzene	4.9 U	NA	NA	1.1 U
1,2-Dichloroethane	4.9 U	NA	NA	1.1 U
1,2-Dichloropropane	4.9 U	NA	NA	1.1 U
1,3-Dichlorobenzene	4.9 U	NA	NA	1.1 U
1,4-Dichlorobenzene	4.9 U	NA	NA	1.1 U
2-Butanone	24 U	NA	NA	5.4 U
2-Hexanone	24 U	NA	NA	5.4 U
4-Methyl-2-pentanone	24 U	NA	NA	5.4 U
Acetone	24 U	NA	NA	5.4 U*
Benzene	43	NA	NA	0.71 J
Bromodichloromethane	4.9 U	NA	NA	1.1 U
Bromoform	4.9 U	NA	NA	1.1 U*
Bromomethane	4.9 U	NA	NA	1.1 U*
Carbon Disulfide	4.9 U	NA	NA	1.1 U
Carbon Tetrachloride	4.9 U	NA	NA	1.1 U
Chlorobenzene	4.9 U	NA	NA	1.1 U
Chlorodibromomethane	4.9 U	NA	NA	1.1 U
Chloroethane	4.9 U	NA	NA	1.1 U*
Chloroform	4.9 U	NA	NA	1.1 U
Chloromethane	4.9 U	NA	NA	1.1 U
cis-1,2-Dichloroethene	4.9 U	NA	NA	1.1 U
cis-1,3-Dichloropropene	4.9 U	NA	NA	1.1 U
Cyclohexane	6.5	NA	NA	1.1 U
Dichlorodifluoromethane	4.9 U	NA	NA	1.1 U
Ethylbenzene	98	NA	NA	2.4
Isopropylbenzene	3.0 J	NA	NA	0.38 J
Methyl Acetate	24 U	NA	NA	5.4 U

Table 1
Soil Waste Characterization Sample Analytical Results
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Location ID: Sample Depth (feet): Date Collected: Sample Name:	WC-10 11 - 21.6 9/5/2017 WC-10 (11'-21.6')	WC-11 0.5 - 11 9/6/2017 WC-11 (0.5'-11')	WC-11 11 - 19.3 9/6/2017 WC-11 (11'-19.3')	WC-11 11 - 19.3 9/6/2017 WC-11 (11-19.3)
Methyl tert-butyl ether	4.9 U	NA	NA	1.1 U
Methylcyclohexane	54	NA	NA	1.1 U*
Methylene Chloride	2.1 JB	NA	NA	0.22 J
Styrene	4.9 U	NA	NA	1.1 U
Tetrachloroethene	4.9 U	NA	NA	1.1 U
Toluene	26	NA	NA	0.38 J
Total Xylenes	92	NA	NA	2.2 U
trans-1,2-Dichloroethene	4.9 U	NA	NA	1.1 U
trans-1,3-Dichloropropene	4.9 U	NA	NA	1.1 U
Trichloroethene	4.9 U	NA	NA	1.1 U
Trichlorofluoromethane	4.9 U	NA	NA	1.1 U
Vinyl Chloride	4.9 U	NA	NA	1.1 U
Volatile Organic Compounds - TCLP				
1,1-Dichloroethene	NA	0.010 U	NA	NA
1,2-Dichloroethane	NA	0.010 U	NA	NA
2-Butanone	NA	0.050 U	NA	NA
Benzene	NA	0.011	NA	NA
Carbon Tetrachloride	NA	0.010 U	NA	NA
Chlorobenzene	NA	0.010 U	NA	NA
Chloroform	NA	0.010 U	NA	NA
Tetrachloroethene	NA	0.010 U	NA	NA
Trichloroethene	NA	0.010 U	NA	NA
Vinyl Chloride	NA	0.010 U	NA	NA
Semivolatile Organic Compounds				
1,1'-Biphenyl	25	NA	0.70 J	NA
2,2'-oxybis(dichloropropane)	1.9 U	NA	1.0 U	NA
2,4,5-Trichlorophenol	1.9 U	NA	1.0 U	NA
2,4,6-Trichlorophenol	1.9 U	NA	1.0 U	NA
2,4-Dichlorophenol	1.9 U	NA	1.0 U	NA
2,4-Dimethylphenol	1.9 U	NA	1.0 U	NA
2,4-Dinitrophenol	19 U	NA	9.8 U	NA
2,4-Dinitrotoluene	1.9 U	NA	1.0 U	NA
2,6-Dinitrotoluene	1.9 U	NA	1.0 U	NA
2-Chloronaphthalene	1.9 U	NA	1.0 U	NA
2-Chlorophenol	1.9 U	NA	1.0 U	NA
2-Methylnaphthalene	220	NA	10	NA
2-Methylphenol	1.9 U	NA	1.0 U	NA

Table 1
Soil Waste Characterization Sample Analytical Results
PDI Summary Report

National Grid
North Albany Former MGP Site

Location ID: Sample Depth (feet): Date Collected: Sample Name:	WC-10 11 - 21.6 9/5/2017 WC-10 (11'-21.6')	WC-11 0.5 - 11 9/6/2017 WC-11 (0.5'-11')	WC-11 11 - 19.3 9/6/2017 WC-11 (11'-19.3')	WC-11 11 - 19.3 9/6/2017 WC-11 (11-19.3)
2-Nitroaniline	3.8 U	NA	2.0 U	NA
2-Nitrophenol	1.9 U	NA	1.0 U	NA
3,3'-Dichlorobenzidine	3.8 U	NA	2.0 U	NA
3-Nitroaniline	3.8 U	NA	2.0 U	NA
4,6-Dinitro-2-methylphenol	3.8 U	NA	2.0 U	NA
4-Bromophenyl phenyl ether	1.9 U	NA	1.0 U	NA
4-Chloro-3-methylphenol	1.9 U	NA	1.0 U	NA
4-Chloroaniline	1.9 U	NA	1.0 U	NA
4-Chlorophenyl phenyl ether	1.9 U	NA	1.0 U	NA
4-Methylphenol	3.8 U	NA	2.0 U	NA
4-Nitroaniline	3.8 U	NA	2.0 U	NA
4-Nitrophenol	3.8 U	NA	2.0 U	NA
Acenaphthene	60	NA	14	NA
Acenaphthylene	67	NA	2.1	NA
Acetophenone	1.9 U	NA	1.0 U	NA
Anthracene	40	NA	8.0	NA
Atrazine	1.9 U	NA	1.0 U	NA
Benzaldehyde	1.9 U	NA	1.0 U	NA
Benzo(a)anthracene	25	NA	5.8	NA
Benzo(a)pyrene	24	NA	6.7	NA
Benzo(b)fluoranthene	17	NA	4.8	NA
Benzo(g,h,i)perylene	12	NA	4.4	NA
Benzo(k)fluoranthene	7.6	NA	3.9	NA
bis(2-Chloroethoxy)methane	1.9 U	NA	1.0 U	NA
bis(2-Chloroethyl)ether	1.9 U	NA	1.0 U	NA
Bis(2-ethylhexyl) phthalate	1.9 U	NA	1.0 U	NA
Butyl benzyl phthalate	1.9 U	NA	1.0 U	NA
Caprolactam	1.9 U	NA	1.0 U	NA
Carbazole	0.96 J	NA	0.31 J	NA
Chrysene	25	NA	6.2	NA
Dibenz(a,h)anthracene	1.9 U	NA	1.0 U	NA
Dibenzofuran	4.1	NA	1.1	NA
Diethyl phthalate	1.9 U	NA	1.0 U	NA
Dimethyl phthalate	1.9 U	NA	1.0 U	NA
Di-n-butyl phthalate	1.9 U	NA	1.0 U	NA
Di-n-octyl phthalate	1.9 U	NA	1.0 U	NA
Fluoranthene	48	NA	14	NA

Table 1
Soil Waste Characterization Sample Analytical Results
PDI Summary Report

National Grid
North Albany Former MGP Site

Location ID: Sample Depth (feet): Date Collected: Sample Name:	WC-10 11 - 21.6 9/5/2017 WC-10 (11'-21.6')	WC-11 0.5 - 11 9/6/2017 WC-11 (0.5'-11')	WC-11 11 - 19.3 9/6/2017 WC-11 (11'-19.3')	WC-11 11 - 19.3 9/6/2017 WC-11 (11-19.3)
Fluorene	56	NA	7.5	NA
Hexachlorobenzene	1.9 U	NA	1.0 U	NA
Hexachlorobutadiene	1.9 U	NA	1.0 U	NA
Hexachlorocyclopentadiene	1.9 U	NA	1.0 U	NA
Hexachloroethane	1.9 U	NA	1.0 U	NA
Indeno(1,2,3-cd)pyrene	7.8	NA	3.1	NA
Isophorone	1.9 U	NA	1.0 U	NA
Naphthalene	450	NA	13	NA
Nitrobenzene	1.9 U	NA	1.0 U	NA
N-Nitroso-di-N-propylamine	1.9 U	NA	1.0 U	NA
N-Nitrosodiphenylamine	1.9 U	NA	1.0 U	NA
Pentachlorophenol	3.8 U	NA	2.0 U	NA
Phenanthrene	160	NA	24	NA
Phenol	1.9 U	NA	1.0 U	NA
Pyrene	83	NA	18	NA
Semivolatile Organic Compounds - TCLP				
1,4-Dichlorobenzene	NA	0.010 U	NA	NA
2,4,5-Trichlorophenol	NA	0.0050 U	NA	NA
2,4,6-Trichlorophenol	NA	0.0050 U	NA	NA
2,4-Dinitrotoluene	NA	0.0050 U	NA	NA
2-Methylphenol	NA	0.0050 U	NA	NA
3-Methylphenol	NA	0.010 U	NA	NA
4-Methylphenol	NA	0.010 U	NA	NA
Hexachlorobenzene	NA	0.0050 U	NA	NA
Hexachlorobutadiene	NA	0.0050 U	NA	NA
Hexachloroethane	NA	0.0050 U	NA	NA
Nitrobenzene	NA	0.0050 U	NA	NA
Pentachlorophenol	NA	0.010 U	NA	NA
Pyridine, TCLP	NA	0.025 U	NA	NA
Polychlorinated Biphenyls				
Aroclor-1016	0.21 U	0.29 U	0.20 U	NA
Aroclor-1221	0.21 U	0.29 U	0.20 U	NA
Aroclor-1232	0.21 U	0.29 U	0.20 U	NA
Aroclor-1242	0.21 U	0.29 U	0.20 U	NA
Aroclor-1248	0.21 U	0.29 U	0.20 U	NA
Aroclor-1254	0.21 U	0.29 U	0.20 U	NA
Aroclor-1260	0.21 U	0.29 U	0.20 U	NA

Table 1
Soil Waste Characterization Sample Analytical Results
PDI Summary Report

National Grid
North Albany Former MGP Site

Location ID: Sample Depth (feet): Date Collected: Sample Name:	WC-10 11 - 21.6 9/5/2017 WC-10 (11'-21.6')	WC-11 0.5 - 11 9/6/2017 WC-11 (0.5'-11')	WC-11 11 - 19.3 9/6/2017 WC-11 (11'-19.3')	WC-11 11 - 19.3 9/6/2017 WC-11 (11-19.3)
PCB-1262	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA
Pesticides-TCLP				
Chlordane (technical)	NA	0.0020 U	NA	NA
Endrin	NA	0.00020 U	NA	NA
gamma-BHC (Lindane)	NA	0.000057 JB	NA	NA
Heptachlor	NA	0.00020 U	NA	NA
Heptachlor epoxide	NA	0.00020 U	NA	NA
Methoxychlor	NA	0.00020 U	NA	NA
Toxaphene	NA	0.0020 U	NA	NA
Herbicides-TCLP				
2,4-D	NA	0.002 U	NA	NA
Silvex (2,4,5-TP)	NA	0.002 U	NA	NA
Inorganics				
Aluminum	12,100	NA	10,400	NA
Antimony	17.1 U	NA	17.1 U	NA
Arsenic	7.80	NA	4.70	NA
Barium	120	NA	67.3	NA
Beryllium	0.610	NA	0.570	NA
Cadmium	0.230 U	NA	0.0490 J	NA
Calcium	7,390 B	NA	1,970 B	NA
Chromium	18.2 B	NA	14.3 B	NA
Cobalt	9.50	NA	9.70	NA
Copper	23.4	NA	24.1	NA
Cyanide	0.540 J	NA	1.80 *	NA
Iron	21,700 ^	NA	20,400 B	NA
Lead	13.0	NA	12.1	NA
Magnesium	5,410	NA	3,540	NA
Manganese	825	NA	158 B	NA
Mercury	0.0190 J	NA	0.0220 J	NA
Nickel	22.1	NA	21.7	NA
Potassium	3,090	NA	2,150	NA
Selenium	4.60 U	NA	4.60 U	NA
Silver	0.680 U	NA	0.680 U	NA
Sodium	137 J	NA	349	NA
Sulfur	3,400	NA	290	NA
Thallium	6.80 U	NA	6.80 U	NA

Table 1
Soil Waste Characterization Sample Analytical Results
PDI Summary Report

National Grid
North Albany Former MGP Site

Location ID: Sample Depth (feet): Date Collected: Sample Name:	WC-10 11 - 21.6 9/5/2017 WC-10 (11'-21.6')	WC-11 0.5 - 11 9/6/2017 WC-11 (0.5'-11')	WC-11 11 - 19.3 9/6/2017 WC-11 (11'-19.3')	WC-11 11 - 19.3 9/6/2017 WC-11 (11-19.3)
Vanadium	23.7	NA	20.3	NA
Zinc	56.4	NA	62.2	NA
Inorganics-TCLP				
Arsenic	NA	0.0150 U	NA	NA
Barium	NA	0.710 J	NA	NA
Cadmium	NA	0.00250	NA	NA
Chromium	NA	0.0200 U	NA	NA
Lead	NA	0.0340	NA	NA
Mercury	NA	0.000200 U	NA	NA
Selenium	NA	0.0250 U	NA	NA
Silver	NA	0.00600 U	NA	NA
TPH				
Diesel Range Organics (DRO)	3,900	NA	580	NA
Gasoline Range Organics (GRO)	540 B	NA	7.8 B	NA
Miscellaneous				
BTU	2 U	NA	2 U	NA
Free Liquid	NA	NA	NA	NA
Ignitability	NA	50 U	NA	NA
pH	NA	7.7 HF	NA	NA
Reactivity, Cyanide	NA	10 U	NA	NA
Reactivity, Sulfide	NA	60	NA	NA
Temperature at Analysis	NA	20.8 HF	NA	NA

Notes:
1. NA = Not analyzed
2. U = Analyte was analyzed for but not detected. The associated value is the analyte reporting limit.
3. J = The result is an estimated concentration.
4. B = Compound was found in the blank and sample.
5. HF = The analyte is a field parameter with holding time of 15 minutes. Test performed by laboratory per request.
6. ^ = Instrument related QC was outside acceptance limits.
7. * = The laboratory control sample or laboratory control sample duplicate was outside acceptance limits.
8. mg/kg = milligram per killogram
9. mg/L = milligram per liter
10. btu/lb = british thermal units per pound
11. mL/100g = milliliters per 100 grams

Table 2
Soil Waste Characterization Summary
PDI Summary Report

National Grid
North Albany Former MGP Site

Boring ID	Depth Interval (feet)	Summary of Visual Impacts/Observations	Total PAHs (mg/kg)	Total BTEX (mg/kg)	TCLP Benzene (mg/L)	Anticipated End Use/ Disposal of Soil
WC-1	0 - 6	None.	--	--	0.046	Non-haz solid waste landfill
WC-2	0 - 6	4-5.3 feet: Pieces of hardened coal tar	--	--	0.041	Non-haz solid waste landfill
WC-3	0 - 6	5-6 feet: Trace brown, oil-like material, gray discoloration.	--	--	0.010 U	Non-haz solid waste landfill
WC-4	1 - 6	5-6 feet: Sheen present.	--	--	0.045	Non-haz solid waste landfill
WC-5	0.5 - 9	None.	--	--	0.033	Non-haz solid waste landfill
	9 - 15	10-11 feet: Trace brown oil-like blebs, trace sheen.	--	--	0.59	LTTD treatment
WC-6	0.5 - 11	None.	--	--	0.010 U	Non-haz solid waste landfill
	11 - 16	11-11.2 feet: Dark gray to black coal tar-like material.	7,398	296	--	LTTD treatment
WC-7	0.5 - 7	Some partial sheen.	--	--	0.0082 J	Non-haz solid waste landfill
	7 - 16	8-9 feet: Black coal tar-like material.	26,310	2,930	--	LTTD treatment
WC-8	0.5 - 8	None.	--	--	0.0076 J	Non-haz solid waste landfill
	8 - 16	8-9 feet: Heavily impacted with sticky coal tar-like material. 10.5 feet: Trace impacts. 11-13 feet: Moderate to heavy impacts of blebs and dark NAPL. 13-14 feet: Outside of sample had NAPL spots. 14-16 feet: Isolated blebs, moderately impacted.	18,560	1,160	--	LTTD treatment
WC-9	0.5 - 9	None.	--	--	0.010 U	Non-haz solid waste landfill
	10.5 - 26.4	10.5-12 feet: Trace sheen. 14.2-14.5 feet: Trace brown oil blebs.	--	--	0.056	Non-haz solid waste landfill
WC-10	0.5 - 11	None.	--	--	0.010 U	Non-haz solid waste landfill
	11 - 21.6	13-14.5 feet: Trace sheen. 15-15.5 feet: Brown oil-like material coating soil. 19-21: Brown oil like material. 21-21.6: Heavy sheen.	1,302	259	--	LTTD treatment
WC-11	0.5 - 11	None.	--	--	0.011	Non-haz solid waste landfill
	11 - 19.3	11-11.1 feet: Brown oil-like material coating soil. 11.1-11.8 feet: Sheen on outside of sample.	146	3.49	--	Non-haz solid waste landfill

Notes:
1. -- = Not analyzed
2. U = Analyte was analyzed for but not detected. The associated value is the analyte reporting limit.
3. J = The result is an estimated concentration.
4. mg/kg = milligram per kilogram
5. mg/L = milligram per liter

Table 3
Groundwater Waste Characterization Sample Analytical Results
PDI Summary Report

National Grid
North Albany Former MGP Site

Location ID:		MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W
Date Collected:		8/17/2017	8/16/2017	8/16/2017	8/18/2017	8/14/2017	8/11/2017	8/15/2017	8/15/2017	9/21/2017
Sample Name:	Units	MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W (09-21-17)
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
1,1,2,2-Tetrachloroethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
1,1,2-Trichloroethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
1,1-Dichloroethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
1,1-Dichloroethene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	20 U
1,2-Dichlorobenzene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
1,2-Dichloroethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	20 U
1,2-Dichloropropane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
1,2-Total Dichloroethene	ug/L	200 U	10 U [10 U]	10 U	200 U	10 U	40 U	20 U	100 U [100 U]	NA
1,3-Dichlorobenzene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
1,4-Dichlorobenzene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
2-Butanone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	100 U
2-Chloroethyl vinyl ether	ug/L	500 U	25 U [25 U]	25 U	500 U	25 UF1	100 UF1	50 U	250 U [250 U]	NA
Acrolein	ug/L	2,000 U	100 U [100 U]	100 U	2,000 U	100 U	400 U	200 U	1,000 U [1,000 U]	NA
Acrylonitrile	ug/L	1,000 U	50 U [50 U]	50 U	1,000 U	50 U	200 U	100 U	500 U [500 U]	NA
Benzene	ug/L	1,100	0.60 J [5.0 U]	18	8,300	27	40	81	400 [380]	1,200
Bromodichloromethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
Bromoform	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
Bromomethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
Carbon Tetrachloride	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	20 U
Chlorobenzene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	20 U
Chlorodibromomethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
Chloroethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
Chloroform	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	7.8 J
Chloromethane	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
cis-1,3-Dichloropropene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
Ethylbenzene	ug/L	920	5.0 U [5.0 U]	5.0 U	1,800	11	5.2 J	85	1,800 [1,700]	NA
Methylene Chloride	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
Tetrachloroethene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	20 U
Toluene	ug/L	360	5.0 U [5.0 U]	5.0 U	16 J	0.49 J	20 U	10 U	500 [460]	NA
trans-1,2-Dichloroethene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
trans-1,3-Dichloropropene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	NA
Trichloroethene	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	20 U
Vinyl Chloride	ug/L	100 U	5.0 U [5.0 U]	5.0 U	100 U	5.0 U	20 U	10 U	50 U [50 U]	20 U

Table 3
Groundwater Waste Characterization Sample Analytical Results
PDI Summary Report

National Grid
North Albany Former MGP Site

Location ID:		MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W
Date Collected:		8/17/2017	8/16/2017	8/16/2017	8/18/2017	8/14/2017	8/11/2017	8/15/2017	8/15/2017	9/21/2017
Sample Name:	Units	MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W (09-21-17)
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 U	9.5 U	95 U	950 U [950 U]	NA
1,2-Dichlorobenzene	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 UF1	9.5 U	95 U	950 U [950 U]	NA
1,2-Diphenylhydrazine	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 U	9.5 U	95 U	950 U [950 U]	NA
1,3-Dichlorobenzene	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 U	9.5 U	95 U	950 U [950 U]	NA
1,4-Dichlorobenzene	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 UF1	9.5 U	95 U	950 U [950 U]	10 U
2,2'-oxybis(dichloropropane)	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U
2,4,6-Trichlorophenol	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	5.0 U
2,4-Dichlorophenol	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
2,4-Dimethylphenol	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
2,4-Dinitrophenol	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 U	9.5 U	95 U	950 U [950 U]	NA
2,4-Dinitrotoluene	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 U	9.5 U	95 U	950 U [950 U]	5.0 U
2,6-Dinitrotoluene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
2-Chloronaphthalene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
2-Chlorophenol	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	38
2-Nitrophenol	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
3,3'-Dichlorobenzidine	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
3-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	100
4,6-Dinitro-2-methylphenol	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 U	9.5 U	95 U	950 U [950 U]	NA
4-Bromophenyl phenyl ether	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
4-Chloro-3-methylphenol	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
4-Chlorophenyl phenyl ether	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	100
4-Nitrophenol	ug/L	150 U	150 U [75 UH]	140 U	300 U	71 U	14 U	140 U	1,400 U [1,400 U]	NA
Acenaphthene	ug/L	160	32 J [38 H]	69	190	180	24	24 J	480 U [480 U]	NA
Acenaphthylene	ug/L	96	50 U [25 UH]	48 U	100 U	24 U	1.9 J	48 U	290 J [330 J]	NA
Anthracene	ug/L	50 U	50 U [25 UH]	48 U	100 U	12 J	3.3 J	48 U	480 U [480 U]	NA
Benzidine	ug/L	800 U	800 U [400 UH]	760 U	1,600 U	380 U	76 UF1	760 U	7,600 U [7,600 U]	NA
Benzo(a)anthracene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Benzo(a)pyrene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Benzo(b)fluoranthene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Benzo(g,h,i)perylene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Benzo(k)fluoranthene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA

Table 3
Groundwater Waste Characterization Sample Analytical Results
PDI Summary Report

National Grid
North Albany Former MGP Site

Location ID:		MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W
Date Collected:		8/17/2017	8/16/2017	8/16/2017	8/18/2017	8/14/2017	8/11/2017	8/15/2017	8/15/2017	9/21/2017
Sample Name:	Units	MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W (09-21-17)
bis(2-Chloroethoxy)methane	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
bis(2-Chloroethyl)ether	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Bis(2-ethylhexyl) phthalate	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 U	9.5 U	95 U	950 U [950 U]	NA
Butyl benzyl phthalate	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Chrysene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Dibenz(a,h)anthracene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Diethyl phthalate	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Dimethyl phthalate	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Di-n-butyl phthalate	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Di-n-octyl phthalate	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Fluoranthene	ug/L	50 U	50 U [25 UH]	48 U	100 U	10 J	2.3 J	48 U	480 U [480 U]	NA
Fluorene	ug/L	52	10 J [10 JH]	15 J	42 J	51	9.1	48 U	480 U [480 U]	NA
Hexachlorobenzene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	5.0 U
Hexachlorobutadiene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	5.0 U
Hexachlorocyclopentadiene	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 UF1	9.5 U	95 U	950 U [950 U]	NA
Hexachloroethane	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 UF1	4.8 UF1	48 U	480 U [480 U]	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Isophorone	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Naphthalene	ug/L	3,800 B	50 U [25 UH]	48 U	4,600 B	51	16	410	8,500 [10,000]	NA
Nitrobenzene	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	5.0 U
N-Nitrosodimethylamine	ug/L	100 U	100 U* [50 UH]	95 U*	200 U	48 UF1	9.5 U	95 U	950 U [950 U]	NA
N-Nitroso-di-N-propylamine	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
N-Nitrosodiphenylamine	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Pentachlorophenol	ug/L	100 U	100 U [50 UH]	95 U	200 U	48 U	9.5 U	95 U	950 U [950 U]	10 U
Phenanthrene	ug/L	97	50 U [25 UH]	48 U	69 J	77 F1	12	48 U	480 U [480 U]	NA
Phenol	ug/L	50 U	50 U [25 UH]	48 U	100 U	24 U	4.8 U	48 U	480 U [480 U]	NA
Pyrene	ug/L	17 J	50 U [25 UH]	48 U	100 U	13 J	2.8 J	48 U	480 U [480 U]	NA
Pyridine, TCLP	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Polychlorinated Biphenyls										
Aroclor-1016	ug/L	0.060 U	0.060 U [0.060 U]	0.060 U	0.060 U*	0.060 U	0.060 U	0.060 U	0.060 U	0.50 U
Aroclor-1221	ug/L	0.060 U	0.060 U [0.060 U]	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U [0.060 U]	0.50 U
Aroclor-1232	ug/L	0.060 U	0.060 U [0.060 U]	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U [0.060 U]	0.50 U
Aroclor-1242	ug/L	0.060 U	0.060 U [0.060 U]	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U [0.060 U]	0.50 U
Aroclor-1248	ug/L	0.060 U	0.060 U [0.060 U]	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U [0.060 U]	0.50 U
Aroclor-1254	ug/L	0.060 U	0.060 U [0.060 U]	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U [0.060 U]	0.50 U

Table 3
Groundwater Waste Characterization Sample Analytical Results
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National Grid
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Location ID:		MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W
Date Collected:		8/17/2017	8/16/2017	8/16/2017	8/18/2017	8/14/2017	8/11/2017	8/15/2017	8/15/2017	9/21/2017
Sample Name:	Units	MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W (09-21-17)
Aroclor-1260	ug/L	0.060 U	0.060 U [0.060 U]	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U [0.060 U]	0.50 U
Pesticides										
4,4'-DDD	ug/L	0.050 U	0.050 U [0.050 U]	0.015 J	0.050 U	0.048 U	0.050 U	0.048 U	0.048 U	NA
4,4'-DDE	ug/L	0.012 J	0.050 U [0.050 U]	0.050 U	0.050 U	0.042 J	0.050 U	0.048 U	0.048 U [0.048 U]	NA
4,4'-DDT	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.039 J	0.029 J	0.048 U	0.048 U [0.048 U]	NA
Aldrin	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.012 J	0.050 U	0.048 U	0.048 U [0.026 J]	NA
alpha-BHC	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.28	0.048 U	0.019 J	0.015 JB	0.048 U [0.048 U]	NA
beta-BHC	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.049 J	0.048 U	0.044 J	0.048 U	0.048 U [0.048 U]	NA
Chlordane (technical)	ug/L	0.50 U	0.50 U [0.50 U]	0.50 U	0.50 U	0.48 U	0.50 U	0.48 U	0.48 U	2.0 U
delta-BHC	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.048 U	0.035 J	0.048 U	0.048 U	NA
Dieldrin	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.048 U	0.050 U	0.048 U	0.048 U	NA
Endosulfan I	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.048 U	0.050 U	0.048 U	0.027 J	NA
Endosulfan II	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.048 U	0.050 U	0.048 U	0.048 U [0.048 U]	NA
Endosulfan sulfate	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.019 J	0.019 J	0.048 U	0.048 U [0.048 U]	NA
Endrin	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.048 U	0.050 U	0.048 U	0.048 U [0.048 U]	0.20 U
Endrin aldehyde	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.048 U	0.050 U	0.048 U	0.048 U [0.048 U]	NA
gamma-BHC (Lindane)	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.025 J	0.050 B	0.037 J	0.048 U	0.048 U [0.048 U]	0.20 U
Heptachlor	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.015 J	0.048 U	0.050 U	0.048 U	0.048 U [0.048 U]	0.20 U
Heptachlor epoxide	ug/L	0.050 U	0.050 U [0.050 U]	0.050 U	0.050 U	0.048 U	0.050 U	0.048 U	0.048 U	NA
Methoxychlor	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U
Toxaphene	ug/L	0.50 U	0.50 U [0.50 U]	0.50 U	0.50 U	0.48 U	0.50 U	0.48 U	0.48 U [0.48 U]	2.0 U
Herbicides										
2,4-D	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	2 U
Silvex (2,4,5-TP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	2 U
Inorganics										
Aluminum	ug/L	68.0 J	200 U [200 U]	200 U	88.0 J	200 U	200 U	200 U	73.0 J [200 U]	NA
Antimony	ug/L	20.0 U	20.0 U [20.0 U]	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U [20.0 U]	NA
Arsenic	ug/L	15.0 U	15.0 U [15.0 U]	10.0 J	38.0	23.0	6.20 J	11.0 J	5.80 J [15.0 U]	15.0 U
Barium	ug/L	150	190 [200]	210	4,000	910	150	8,900	99.0 [100]	360 B
Beryllium	ug/L	2.00 U	2.00 U [2.00 U]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U [2.00 U]	NA
Cadmium	ug/L	2.00 U	2.00 U [2.00 U]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U [2.00 U]	2.00 U
Calcium	ug/L	70,900	119,000 [123,000]	87,500	344,000	273,000	134,000	270,000	544,000 [558,000]	NA
Chromium	ug/L	4.00 U	1.80 J [4.00 U]	4.00 U	4.00 U	4.00 U	3.40 J	4.00 U	1.20 J [4.00 U]	36.0
Cobalt	ug/L	4.00 U	4.00 U [4.00 U]	4.00 U	0.660 J	4.00 U	1.20 J	4.00 U	4.70 [4.80]	NA
Copper	ug/L	10.0 U	10.0 U [10.0 U]	10.0 U	10.0 U	10.0 U	3.20 J	10.0 U	10.0 U [10.0 U]	NA

Table 3
Groundwater Waste Characterization Sample Analytical Results
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National Grid
North Albany Former MGP Site

Location ID:		MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W
Date Collected:		8/17/2017	8/16/2017	8/16/2017	8/18/2017	8/14/2017	8/11/2017	8/15/2017	8/15/2017	9/21/2017
Sample Name:	Units	MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W (09-21-17)
Cyanide	ug/L	34.0	45.0 [46.0]	43.0	810	140	250	430	2,900 [3,400]	NA
Iron	ug/L	32,300	13,700 [15,800]	1,000	20,400	83,000	4,000	1,800	1,100 [1,100]	NA
Lead	ug/L	3.60 J	3.70 J [3.70 J]	10.0 U	3.10 J	10.0 U	4.90 J	4.20 J	50.0 U [50.0 U]	10.0 U
Magnesium	ug/L	7,900	11,100 [11,300]	10,100	63,100	45,900	19,100	52,900	200 U [200 U]	NA
Manganese	ug/L	440 B^	850 [890]	590	12,600 B^	13,300 B	310 B	3,000	1.30 J [3.00 U]	NA
Mercury	ug/L	0.200 U	0.200 U [0.200 U]	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	1.50 [1.60]	0.150 J
Nickel	ug/L	10.0 U	10.0 U [10.0 U]	1.40 J	2.10 J	10.0 U	5.00 J	10.0 U	5.70 J [4.30 J]	NA
Potassium	ug/L	7,400	5,900 [6,100]	15,200	12,200	19,500	12,300	12,000 ^	35,500 ^ [36,300 ^]	NA
Selenium	ug/L	25.0 U	25.0 U [25.0 U]	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U [25.0 U]	25.0 U
Silver	ug/L	6.00 U	6.00 U [6.00 U]	6.00 U	6.00 U	6.00 U	6.00 U	6.00 U	6.00 U [6.00 U]	6.00 U
Sodium	ug/L	730,000	417,000 [426,000]	44,700	588,000	696,000	459,000	576,000	994,000 [1,020,000]	NA
Thallium	ug/L	20.0 U	20.0 U [20.0 U]	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U [20.0 U]	NA
Vanadium	ug/L	5.00 U	5.00 U [5.00 U]	5.00 U	5.00 U	5.00 U	1.80 J	5.00 U	1.50 J [1.50 J]	NA
Zinc	ug/L	4.20 J	1.50 J [1.80 J]	10.0 U	3.70 J	2.70 J	6.30 J	10.0 U	10.0 U [1.80 J]	NA
Inorganics - Filtered										
Aluminum	ug/L	200 U	200 U [200 U]	200 U	200 U	200 U	200 U	200 U	200 U [200 U]	NA
Antimony	ug/L	20.0 U	20.0 U [20.0 UF1F2]	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U [20.0 U]	NA
Arsenic	ug/L	15.0 U	15.0 U [15.0 UF1F2]	12.0 J	8.70 J	6.40 J	15.0 U	7.70 J	15.0 U [15.0 U]	NA
Barium	ug/L	120	150 [150]	170	3,000	620 F1	130	8,700	96.0 [99.0]	NA
Beryllium	ug/L	2.00 U	2.00 U [2.00 U]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U [2.00 U]	NA
Cadmium	ug/L	2.00 U	2.00 U [2.00 UF1F2]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U [2.00 U]	NA
Calcium	ug/L	63,700	114,000 [115,000]	84,100	300,000	260,000	124,000	260,000	530,000 [545,000]	NA
Chromium	ug/L	4.00 U	4.00 U [4.00 U]	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U [4.00 U]	NA
Cobalt	ug/L	4.00 U	4.00 U [4.00 UF1F2]	4.00 U	4.00 U	4.00 U	0.900 J	4.00 U	4.60 [4.70]	NA
Copper	ug/L	10.0 U	10.0 U [10.0 U]	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U [10.0 U]	NA
Cyanide	ug/L	20.0	44.0 [41.0]	31.0	490	170 F1	260	630	2,700 [2,900]	NA
Iron	ug/L	7,000	510 [1,000]	41.0 J	250	20,300 F1F2	130	220	1,000 [1,000]	NA
Lead	ug/L	10.0 U	3.60 J [10.0 UF1F2]	3.60 J	4.50 J	3.40 J	10.0 U	10.0 U	50.0 U [50.0 U]	NA
Magnesium	ug/L	7,400	10,700 [10,600]	9,700	56,400	46,500	18,200	50,900	200 U [200 U]	NA
Manganese	ug/L	480 B	800 B [810 B]	550 B	10,900 B	12,800	290	2,900	3.00 U [3.00 U]	NA
Mercury	ug/L	0.200 U	0.200 U [0.200 U]	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	1.40 [1.40]	NA
Nickel	ug/L	16.0	10.0 U [10.0 UF1F2]	1.50 J	10.0 U	10.0 U	1.50 J	10.0 U	4.60 J [4.50 J]	NA
Potassium	ug/L	6,900	5,700 [5,700]	14,100	11,600	19,900 B	11,900	11,600 B	34,400 B [35,300 B]	NA
Selenium	ug/L	25.0 U	25.0 U [25.0 UF1F2]	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U [25.0 U]	NA
Silver	ug/L	6.00 U	6.00 U [6.00 U]	6.00 U	6.00 U	6.00 U	6.00 U	6.00 U	6.00 U [6.00 U]	NA

Table 3
Groundwater Waste Characterization Sample Analytical Results
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National Grid
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Location ID:		MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W
Date Collected:		8/17/2017	8/16/2017	8/16/2017	8/18/2017	8/14/2017	8/11/2017	8/15/2017	8/15/2017	9/21/2017
Sample Name:	Units	MW-6S	MW-8	MW-13	MW-14	MW-27D	MW-27S	MW-28D	MW-28S	WC-W (09-21-17)
Sodium	ug/L	667,000	398,000 [393,000]	41,500	514,000 ^	695,000	433,000	553,000	962,000 [993,000]	NA
Thallium	ug/L	20.0 U	20.0 U [20.0 UF1F2]	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U [20.0 U]	NA
Vanadium	ug/L	5.00 U	5.00 U [5.00 U]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U [5.00 U]	NA
Zinc	ug/L	8.90 JB	9.20 JB [7.10 JB]	6.60 JB	9.70 JB	14.0 B	3.40 JB	21.0 B	5.90 JB [14.0 B]	NA
TPH										
Oil & Grease	ug/L	5,600 U	5,500 U [5,500 U]	2,900 J	5,700 U	1,800 J	2,000 J	1,800 J	2,600 J [2,300 J]	NA
SGT-HEM	ug/L	3,000 J	5,500 U [5,500 UF1]	5,600 U	5,700 U	5,500 U	5,500 U	2,500 J	5,600 U [5,400 U]	NA
Miscellaneous										
Biochemical Oxygen Demand	ug/L	8,900 b	2,400 U [2,400 U]	3,700	15,800 b	9,900	2,000 UH	5,200 b	36,200 Hb [34,700 Hb]	NA
Carbonaceous Biochemical Oxygen Demand	ug/L	8,400 b	2,400 U [2,400 U]	2,400 U	15,700 b	9,300	2,000 U	5,000 b	40,200 Hb [43,600 Hb]	NA
Chemical Oxygen Demand (COD)	ug/L	25,000	40,200 [45,900]	43,100	66,200	46,200	42,400	40,500	199,000 [177,000]	NA
Hardness as calcium carbonate	ug/L	212,000	395,000 [360,000]	268,000	1,140,000	1,520,000	416,000	940,000	1,500,000 [1,500,000]	NA
Ignitability	°F	NA	NA	NA	NA	NA	NA	NA	NA	50 U
pH	pH Units	7 HF	7.09 HF [7.09 HF]	7.43 HF	7.24 HF	6.9 HF	6.92 HF	7.48 HF	11.6 HF [11.6 HF]	12.3 HF
Reactivity, Cyanide	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10,000 U
Reactivity, Sulfide	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10,000 U
Temperature at Analysis	°C	23.5 HF	21.5 HF [21.8 HF]	21.9 HF	24.7 HF	22.6 HF	22 HF	23.9 HF	21.2 HF [21.1 HF]	24.8 HF
Total Dissolved Solids	ug/L	2,510,000 B	1,400,000 [1,400,000]	480,000	3,220,000	3,370,000	1,520,000	2,980,000	5,250,000 [5,510,000]	NA
Total Kjeldahl Nitrogen	ug/L	1,200	1,200 [1,300]	20,100	7,900	3,700 F1	2,400	7,000	6,400 [6,300]	NA
Total Suspended Solids	ug/L	61,600	32,000 [26,000]	4,000 U	36,800	54,400	10,400	6,400	4,000 [4,000 U]	NA

Notes:
1. NA = Not analyzed
2. U = Analyte was analyzed for but not detected. The associated value is the analyte reporting limit.
3. J = The result is an estimated concentration.
4. B = Compound was found in the blank and sample.
5. HF = The analyte is a field parameter with holding time of 15 minutes. Test performed by laboratory per request.
6. H = Sample prepped or analyzed beyond the specified holding time.
7. F1 = MS and/or MSD Recovery was outside acceptance limits.
8. F2 = MS/MSD RPD exceeds control limits.
9. b = Result detected in the unseeded control blank.
10. ^ = Instrument related QC was outside acceptance limits.
11. * = The laboratory control sample or laboratory control sample duplicate was outside acceptance limits.
12. mg/kg = milligram per killogram
13. ug/L = micrograms per liter

Table 4
Estimated Hydraulic Conductivity Values
PDI Summary Report

National Grid
North Albany Former MGP Site

Well ID	Steady-State Flow Rate (mL/min)	Displacement (ft)	Estimated Hydraulic Conductivity [1] (ft/day)	Estimated Hydraulic Conductivity[1] (cm/sec)	Well Screen Lithology[2]
Shallow Overburden[1]					
MW-6S	100	3.61	0.1	3.5E-05	Fill - fine to medium sand, little slag/coal/cinders, trace silt and wood chips
MW-27S	250	0.04	36.7	1.3E-02	Fill - fine to coarse sand with fine gravel, silt, little coal, trace wood
MW-28S	100	0.74	0.7	2.5E-04	Fill - fine to coarse sand with silt, trace coal, slag
		Minimum	**0.1**	**3.5E-05**	
		Maximum	**36.7**	**1.3E-02**	
		Geometric Mean	**1.4**	**4.8E-04**	
Shallow/Deep Overburden					
MW-8	150	3.03	0.3	1.1E-04	Sand with little gravel, silt and clay zone present[3]
Deep Overburden					
MW-14	125	2.98	0.2	7.1E-05	Sand with little gravel[3]
Deep Overburden/Weathered Shale Bedrock					
MW-27D	200	0.2	3.1	1.1E-03	Deep Overburden - fine to coarse sand with fine sand and silt layers / Weathered Shale Bedrock - silt with little fine to coarse sand and weathered shale gravel
MW-28D	220	0.11	7.9	2.8E-03	Deep Overburden - fine to coarse sand, fine to medium gravel with fine sand and silt layers / Weathered Shale Bedrock - silt with little fine to coarse sand and fine weathered shale gravel

Notes:

1. Reference: Robbins, G.A., A.T. Aragon-Jose, A. Romero, 2009. Determining Hydraulic Conductivity Using Pumping data from Low-Flow Sampling. Ground Water, Vol. 47, No. 2, p. 271.
2. Hydrostratigraphy information from Feasibility Study Report, Arcadis, 2016.
3. No boring log available; lithology inferred from cross-sections.

FIGURES



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING UNKNOWN UTILITY MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE
- UNKNOWN UTILITY
- FORMER MGP AREA
- OFF-SITE DOWNGRADIENT AREA
- HAZARDOUS WASTE STORAGE TANK AREA

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
2. LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON-SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLE) WERE LOCATED USING GROUND-PENETRATING RADAR AND ELECTROMAGNETIC INDUCTION EXPLORATION CONDUCTED IN AUGUST 2017.
3. LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM SURVEYS CONDUCTED BY NMPC DURING JULY/AUGUST 1997 AND NATIONAL GRID DURING OCTOBER 2012.
4. LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.
5. FMA = FORMER MANUFACTURED GAS (MGP) PLANT AREA.
6. OSDA = OFF-SITE DOWNGRADIENT AREA.
7. HWSTA = HAZARDOUS WASTE STORAGE TANK AREA.

0 100' 200'
GRAPHIC SCALE

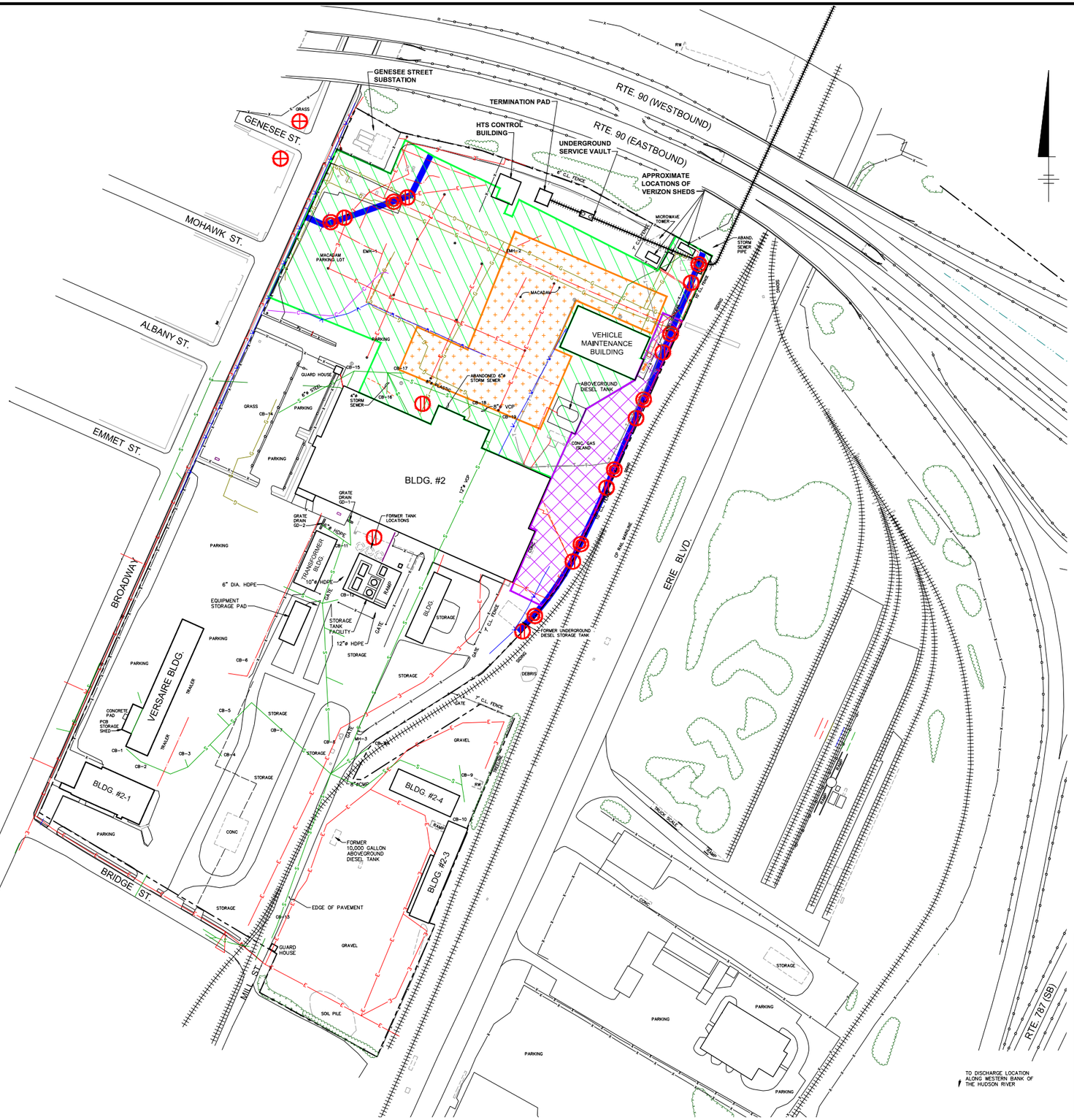
NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
PDI SUMMARY REPORT

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: SYRACUSE NY DIV/GROUP: ENV/IM-DIV DB: R. OBERLANDER LD: R. OBERLANDER PIC: T. YOUNG PM: M. JONES TM: M.JONES TR: J. GOLUBSKI LYR:(On)ON=*OFF=*REF*
C:\Users\asanchez\OneDrive - ARCADIS\BIM 360 Docs\NATIONAL GRID\NORTH ALBANY MGP SITE\2017\B0036648.140101-DWG\NATGRID-PDISR-F02-SITE PLAN.dwg LAYOUT: 2 SAVED: 12/22/2017 4:00 PM ACADVER: 20.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 12/22/2017 4:20 PM BY: SANCHEZ, ADRIAN
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36648X03
NATGRID-PDISR-BDRDL
X-NATGRID-PDISR-UTILITY



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING UNKNOWN UTILITY MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE
- UNKNOWN UTILITY
- APPROXIMATE LOCATION OF PASSIVE NAPL BARRIER WALL
- APPROXIMATE SOIL EXCAVATION AREA (PURIFIER WASTE AREA)
- APPROXIMATE CAP LIMITS
- APPROXIMATE ISS AREAS (SUBJECT TO ACCESS)(TO BE CAPPED)
- APPROXIMATE LOCATION OF LNAPL COLLECTION WELL
- APPROXIMATE LOCATION OF DNAPL COLLECTION WELL
- APPROXIMATE LOCATION OF NAPL MONITORING WELL

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
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4. LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.
5. LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID.
6. DNAPL = DENSE NON-AQUEOUS PHASE LIQUID.

0 100' 200'
GRAPHIC SCALE

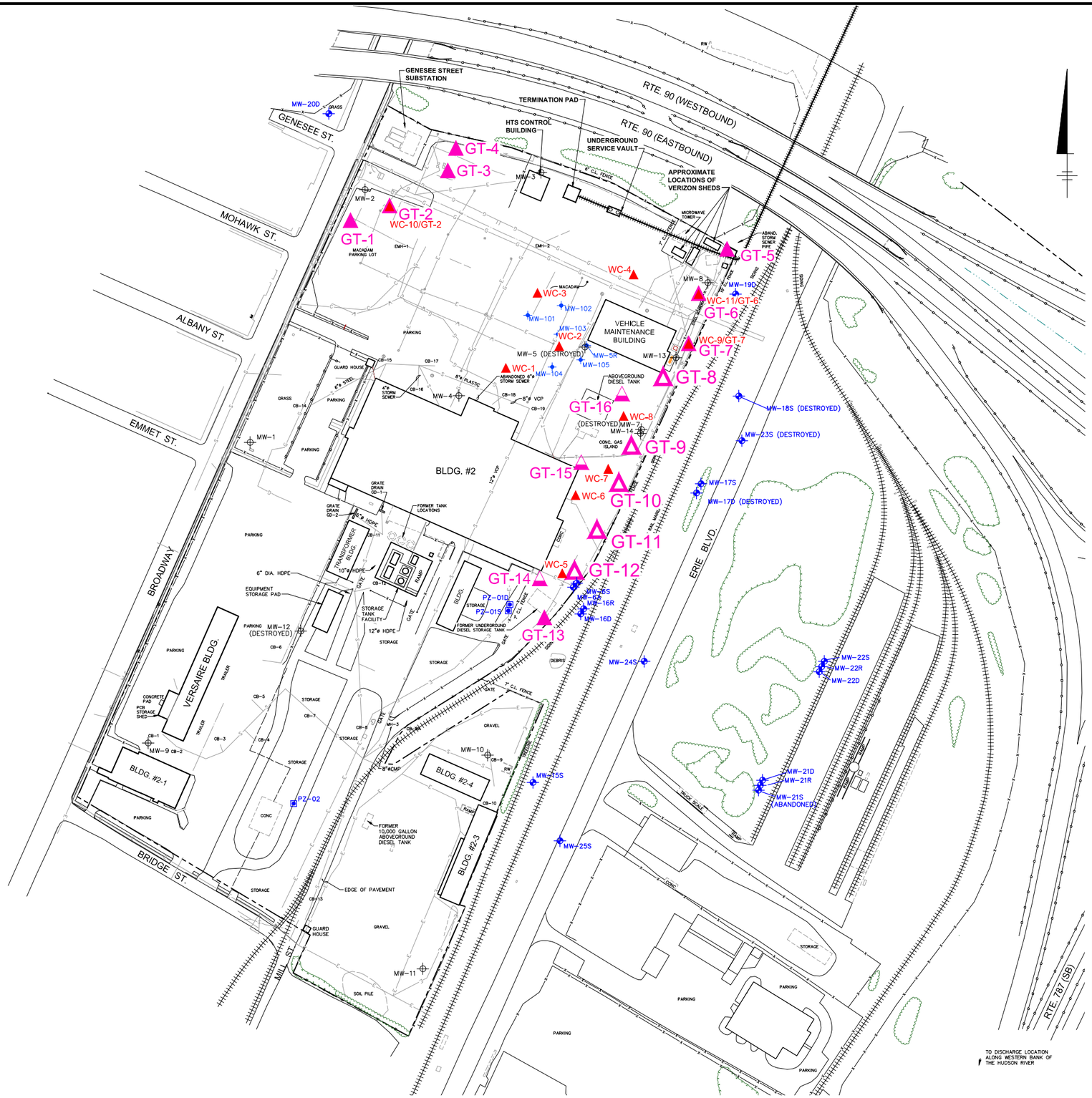
NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
PDI SUMMARY REPORT

SELECTED SITE REMEDY

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: SYRACUSE NY DIV/GROUP: ENV/M-DV DB: R. OBERLANDER LD: R. OBERLANDER PIC: T. YOUNG PM: M. JONES TM: M.JONES TR: J. GOLUBSKI LYR:(On)ON=*;OFF=*REF*
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36648X03
NATGRID-PDISR-BDRDL
X-NATGRID-PDISR-UTILITY



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING UNKNOWN UTILITY MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE
- UNKNOWN UTILITY
- PASSIVE WALL BEDROCK BORING
- EXCAVATION SUPPORT BORING
- PASSIVE WALL BEDROCK AND EXCAVATION SUPPORT BORING
- WASTE CHARACTERIZATION SAMPLING LOCATION
- PILOT-TEST MONITORING WELL LOCATION
- ADDITIONAL GROUNDWATER INVESTIGATION GROUNDWATER MONITORING WELL LOCATION
- MGP/RCRA GROUNDWATER MONITORING WELL LOCATION
- MGP/RCRA PIEZOMETER
- PSA/IRM GROUNDWATER MONITORING WELL LOCATION
- DESTROYED GROUNDWATER MONITORING WELL

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
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5. LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID.
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0 100' 200'
GRAPHIC SCALE

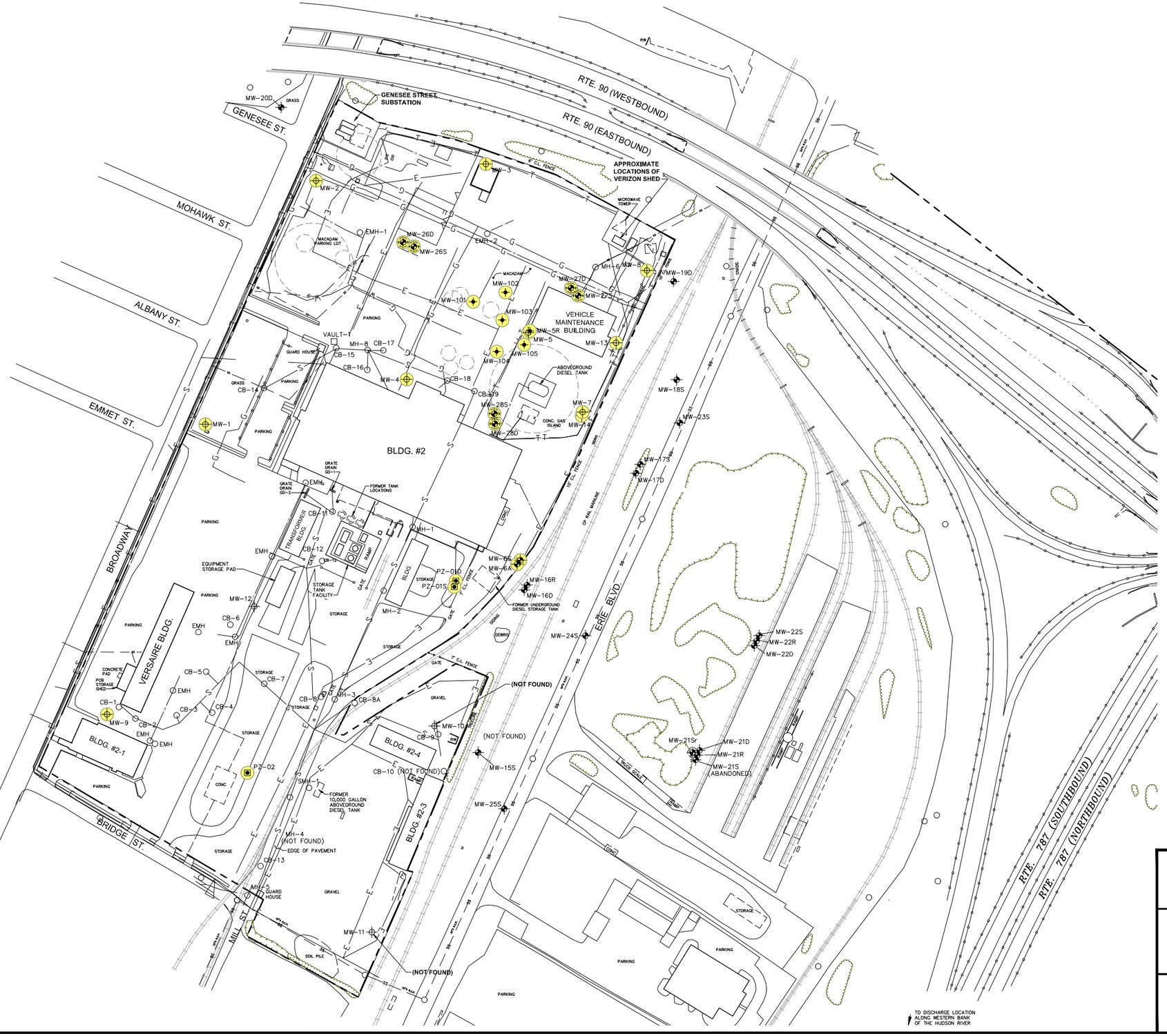
NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
PDI SUMMARY REPORT

PDI SOIL BORING LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

CITY: SYRACUSE NY DV/GROUP: ENV/IM-DV DB: R. OBERLANDER LD: R. OBERLANDER PIC: T. YOUNG PM: M. JONES TM: M.JONES TR: J. GOLUBSKI LYR:(On)ON=*;OFF=*REF*
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NATGRID-PDISR-BDRDL
X-NATGRID-PDISR-UTILITY



LEGEND:

- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- MW-105 PILOT-TEST MONITORING WELL LOCATION
- MW-15S MGP/RCRA GROUNDWATER MONITORING WELL LOCATION
- PZ-01S MGP/RCRA PIEZOMETER
- MW-11 PSA/IRM GROUNDWATER MONITORING WELL LOCATION
- MONITORING WELL DECOMMISSIONED DURING PDI
- CB-2 EXISTING CATCH BASIN
- MH-1 EXISTING STORM SEWER MANHOLE
- EMH-1 EXISTING ELECTRICAL MANHOLE
- TMH-1 EXISTING TELEPHONE MANHOLE
- GMH-1 EXISTING UTILITY MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE

NOTES:

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3. LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM A SURVEY CONDUCTED BY NMPC DURING JULY/AUGUST 1997.
4. LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.
5. LOCATIONS OF SOIL BORINGS SB-179 AND SB-180 WERE MEASURED IN THE FIELD AND ARE APPROXIMATE.

0 100' 200'
GRAPHIC SCALE

NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
PDI SUMMARY REPORT

DECOMMISSIONED MONITORING WELLS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
4

CITY: SYRACUSE NY DIV/GROUP: ENV/MDV DB: R. OBERLANDER LD: R. OBERLANDER PIC: T. YOUNG PM: M. JONES TM: M. JONES TR: J. GOLUBSKI LYR:(Opt)ON=*;OFF=*REF*
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NATGRID-PDISR-BDRDL
X-NATGRID-PDISR-UTILITY

APPENDIX A

Utility / Subsurface Structure Mapping

National Ground Penetrating Radar Service, Inc.
Corporate Headquarters
8400 Normandale Lake Blvd, Suite 920
Minneapolis, Minnesota 55437
Tel: (952) 445-9040
Fax: (952) 445-9046
TF: (877) 556-4777
www.nationalgpr.com

UTILITY CLEARANCE REPORT

REPORTED TO:
ARCADIS U.S., Inc.
110 West Fayette Street, One Lincoln Center, Suite 300
Syracuse, New York 13202

PROJECT LOCATION:
National Grid Facility
1118 Broadway Street
Albany, New York

ATTN: David Cornell /
david.cornell@arcadis.com
CLIENT PROJECT NO:
B0036648.1401.00006
DATE: August 20, 2017

NGPRS PROJECT NO: 177550

INTRODUCTION

Arcadis U.S., Inc. (ARCADIS) retained National Ground Penetrating Radar Service, Inc. (NGPRS) to perform a Ground Penetrating Radar (GPR), and Electro-Magnetic-Induction (EMI) exploration to locate underground utilities prior to drilling activities the above referenced site.

EQUIPMENT

A Ground Penetrating Radar (GPR) system, and 400 MHz radar antenna (Figure 1) was used in the collection of the radar scans onsite. The radar antenna is pushed/pulled across the surface and then scrolled back along a transect to indicate the location of reflectors. (Figure 2) The profile scans are saved to an internal hard drive, and can be viewed on and off site. Once a reflector is encountered by the transmitting signal, it is reflected to the receiver and no further penetration beyond that point is visible in the radar scan. The maximum depth of the radar signal can be 9-12 feet; however, the maximum allowable depth penetration was less due to unfavorable regional soil conditions.



Figure 1: Ground Penetrating Radar equipment.

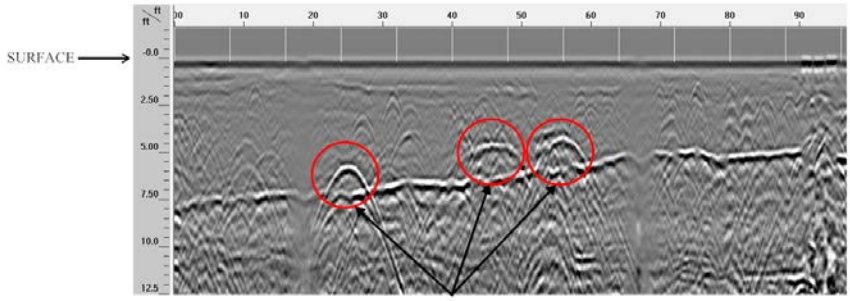


Figure 2: GPR data example showing reflectors circled in red.

Additionally, an Electro Magnetic Induction device was used to passively detect live power/data signals, and a transmitter was attached to pipes to induce traceable signals for locating to a maximum depth of fifteen (15) feet. (Figure 3)



Figure 3: Electro Magnetic Induction Equipment

All located utilities were marked on the surface in accordance with American Public Works Association (APWA) standard color code markings.

Utility locations were memorialized using a Trimble© GPS system with sub-meter accuracy capabilities.

RESULTS

NGPRS personnel performed the site survey on August 14 through 18, 2017. Locating was completed on an exterior, approximately six (6) acre area. Utility locations are shown on attached Exhibit A. As an attachment to this report, the client is provided GPS survey locations in the following electronic format(s): Google Earth (.kmz), AutoCad (.csv) and AutoCad (shape) and were recorded using the WGS1984 latitude/longitude coordinate system. Geotagged digital photograph(s) are visible on each survey point, and can be viewed by left clicking on each recorded survey point in the Google Earth format. The electronic formats can be downloaded from a client dedicated, secure website. To access the website, please visit:

https://www.dropbox.com/sh/arcfqpyp4ljbpw3/AADxKGxCFvlbepIkQPoJ5DOQa?dl=0

REQUIREMENTS

It is required to use soft dig techniques or hydro excavation if excavating within three (3) feet of any identified underground utility to verify utility composition, location, elevation, and diameter.

LIMITATIONS

GPR cannot determine target diameters or composition of reflectors. The results and interpretations of the exploration performed for the client should not be considered an absolute representation of the underlying subsurface conditions or targets, but instead as an exploration yet to be verified.

Our authorized work scope was limited to our observations in the requested areas only. As such, our conclusions and recommendations pertain only to those areas observed. Should conditions differing from those documented by NGPRS at the time our work be found in the future, NGPRS reserves the right to review our conclusions and recommendations, and modify them accordingly.

STANDARD OF CARE

The work performed by National Ground Penetrating Radar Service, Inc. has been conducted in accordance with ASTM 6432-99, ASCE 38-02, manufacturer recommendations, and the level of skill and care ordinarily exercised by other members of the profession currently practicing in this area.

REMARKS

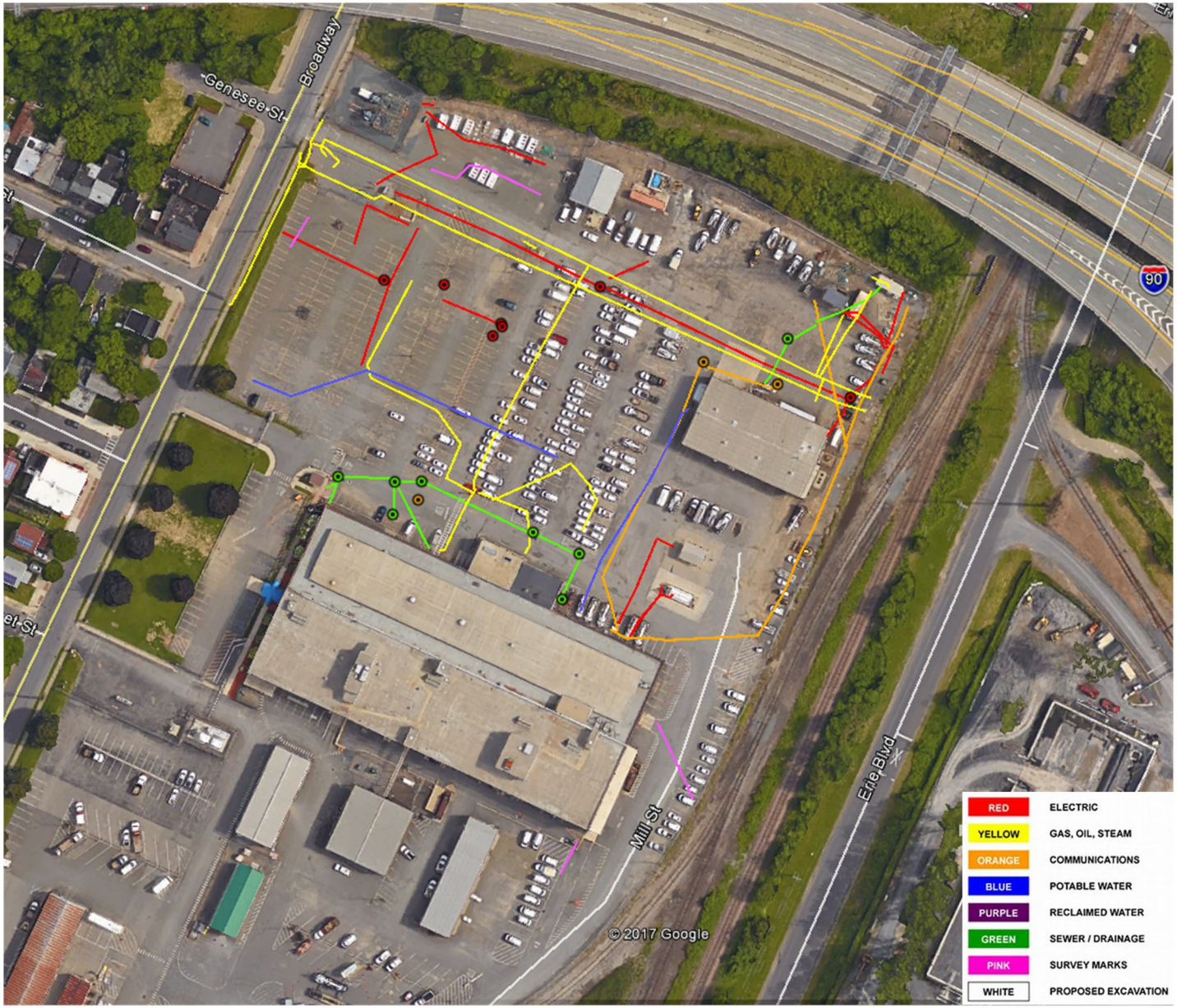
We appreciate the opportunity to assist you on this project. If you have any questions regarding this report or our services, feel free to contact us.

NATIONAL GROUND PENETRATING RADAR SERVICE, INC.

RAY WAGNER

_____

Ray Wagner, PG
Senior Geologist
Toll Free: (877) 556-4777
Ray.wagner@nationalgpr.com



National Ground Penetrating Radar Service, Inc.
Corporate Headquarters
8400 Normandale Lake Blvd, Suite 920
Minneapolis, Minnesota 55437
Office: (952) 445-9040
Fax: (952) 445-9046
www.nationalgpr.com

SHEET TITLE

UTILITY LOCATE RESULTS
National Grid Facility
1118 Broadway Street
Albany, New York

NOTES

Pink - Unknown Utility

DRAWING CONTROL

PROJECT NO.:	177550
ISSUE DATE:	8/20/2017
DRAWN BY:	**RW**
CHECKED BY:	
APPROVED BY:	JJL

DRAWING NO..	**EXHIBIT**
	A

APPENDIX B

Soil Boring Logs

Date Start/Finish: 8/21-8/22/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 2" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 28' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-1** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs. [FILL]	Bentonite Cement Grout (0-28' bgs)
5 / -5	1	5-7	8 5 5 3	10	0.8	0.0 0.0 0.0		Olive brown fine to medium SAND, trace Silt and coarse sub-angular Gravel, moist.	
	2	7-9	4 3 3 3	6	1.4	0.0 0.0 0.0 0.0		Brown fine to coarse SAND, little fine rounded Gravel, wet.	
10 / 10	3	9-11	2 3 3 3	6	0.8	0.0 0.0 0.0 0.0		Gray fine to coarse SAND, little rounded fine Gravel, wet.	
	4	11-13	3 4 6 15	10	2.0	1.6 0.0 0.0 0.0		Gray to dark gray fine to coarse SAND, trace fine to medium sub-angular Gravel, trace brown oil-like material, gray discoloration, sheen, coal tar-like odor, wet. Between 11.6-12.1' bgs gray SILT and CLAY, some fine to coarse Sand, trace fine to medium sub-angular Gravel, gray discoloration.	
15 / 15	5	13-15	4 4 8 12	12	0.8	5.2 9.8 11.4 15.2		Gray SILT, some fine to coarse Sand and fine to coarse sub-rounded Gravel, discoloration, coal tar-like odor, sheen, wet.	
	6	15-17	10 9	15	0.6	0.7			

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used, 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: GT-1

Borehole Depth: 28' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	15-17	6 10	15	0.6	0.8 0.9		Gray SILT, some fine to coarse Sand and fine to coarse sub-rounded Gravel, discoloration, coal tar-like odor, sheen, wet.	
	7	17-19	10 11 8 5	19	2.0	61.1 27.4 26.5 38.5		Gray fine to coarse SAND, little Silt, trace fine to medium sub-angular to sub-rounded Gravel, coal tar-like odor, wet. Gray SILT, some fine to medium Sand, trace coarse Sand and fine to medium sub-angular Gravel, trace brown oil-like material, coal tar-like odor.	
20 20	8	19-21	11 16 48 50/0.1	64	1.5	60.0 54.9 23.6		Gray fine to coarse SAND, little fine sub-angular Gravel, trace Silt and medium sub-angular Gravel, very loose between 17.8-18.6' bgs, trace brown NAPL-like blebs, coal tar-like odor, wet. Dark gray fine to medium SAND, trace Silt and fine sub-angular to sub-rounded Gravel, trace oil-like blebs, coal tar-like odor, wet.	
	9	21-23	50/0.2	NA	0.2	0.0		Gray SHALE. [WEATHERED BEDROCK] Gray SHALE, weathered. [WEATHERED BEDROCK] Spoon Refusal at 21.2' Auger Refusal at 23' bgs.	Bentonite Cement Grout (0-28' bgs)
25 25	10	23-25	NA	0	1.7	0.0		Black SHALE, highly fractured (mechanical breaks). 40 deg fracture at: 25.5' bgs and 25.8' bgs, Mechanical Fractures at: 27.5' bgs and 27.7' bgs.	
	11	25-28	NA	73	2.9	0.0			
30 30								End of Boring.	
35 35									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/21-9/5/17
Drilling Company: Parratt-Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger
Auger Size: 3 1/4"
Rig Type: Truck Mounted CME 55
Sampling Method: 2" X 2' SS

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 21.6' bgs
Surface Elevation: NA

Descriptions By: L. Terrell

Well/Boring ID: GT-2/WC-10

Client: National Grid

Location: North Albany Service Center
1125 Broadway
Albany, NY

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0	0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs.
5	-5	1	5-7	1.6	18 25 14 12	39	0.0 0.0 0.0 0.0		Brown fine SAND, trace sub-round Gravel, moist.
		2	7-9	1.4	4 4 6 5	10	0.0 0.0 0.0 0.0		Light brown fine to medium SAND, trace coarse Sand and Silt, Clayey Silt 0.2' thick between 7.3-7.5' bgs and 7.8-8.0' bgs, low plasticity, soft, wet. Brown fine to coarse SAND, little fine to medium sub-rounded Gravel, trace Silt, wet.
10	-10	3	9-11	1.0	10 10 11 11	21	0.0 0.0 62.4 44.4		Brown SILT, little fine Sand, trace medium to coarse Sand and fine to coarse sub-rounded Gravel, purifier-like waste odor, wet. Gray fine to coarse SAND, trace fine to medium sub-rounded Gravel, burnt-like odor, discoloration, wet.
		4	11-13	1.4	6 2 2 2	4	0.0 0.0 0.0 0.0		Gray fine SAND, little Silt, trace fine sub-rounded Gravel, discoloration, burnt-like odor, wet. Gray SILT, trace Clay, fine to coarse Sand and fine to coarse angular Gravel, burnt-like odor, discoloration, wet.
		5	13-15	2.0	7 9 12 16	21	0.0 0.0 0.0 0.0		Gray fine to coarse SAND, trace fine sub-rounded Gravel, coal tar-like odor, trace sheen, wet. Gray SILT, non-plastic, coal tar-like odor, wet.
15	-15	6	15-17	1.5	13 19	32	10.4 104		Gray fine to medium SAND, little coarse Sand, trace fine sub-rounded Gravel, brown oil-like material coating soil between 15-15.5' bgs and coal tar-like odor at 15.9' bgs, wet.

Well/Boring Construction

Bentonite Cement Grout (0-21.6' bgs)

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used, 2" x 2' SS used for all intervals except for the following. A 3" x 2' SS used 5-7', 9-11', 13-15', and 15-17' bgs.

Client: National Grid

Well/Boring ID: GT-2/WC-10

Site Location:

Borehole Depth: 21.6' bgs

DRAFT

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	6	15-17	1.5	13 5	32	33.6 16.9		Gray fine to medium SAND, little coarse Sand, trace fine sub-rounded Gravel, brown oil-like material coating soil between 15-15.5' bgs and coal tar-like odor at 15.9' bgs, wet.	
	7	17-19	1.2	4 9 11 11	20	1.5 7.2 3.0 0.3		Gray SILT, little fine to coarse sub-angular to sub-rounded Gravel, trace fine to coarse Sand, coal tar-like odor, wet. [WEATHERED BEDROCK]	
20 -20	8	19-21	1.2	16 10 17 24	27	17.8 10.9 11.7 12.1		Dark gray. Brown oil-like material at 19.3', 19.6', 20.3', 20.8' bgs, coal tar-like odor, wet. [WEATHERED BEDROCK]	Bentonite Cement Grout (0-21.6' bgs)
						5.7		Dark gray fine to medium angular GRAVEL, some fine to coarse Sand, trace Silt, heavy rainbow sheen, coal tar-like odor, wet. Black Shale in the nose of the spoon. Spoon refusal at 21.6' bgs.	
	9	21-23	0.7	50/0.1	NA	3.8 7.7 10.1		End of Boring.	
25 -25									
30 -30									
35 -35									

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Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used, 2" x 2' SS used for all intervals except for the following. A 3" x 2' SS used 5-7', 9-11', 13-15', and 15-17' bgs.

Date Start/Finish: 8/30-9/20/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 2" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 25' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-3** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0								Vacced to 5' bgs. ASPHALT.	
								Brown fine to coarse SAND, little fine to medium sub-rounded Gravel, trace sub-angular Gravel and Silt.	
								Brown fine to coarse SAND, some Silt, little Brick fragments and sub-rounded Gravel.	
	NA	0-5	NA	NA	NA	NA		Dark brown fine to medium SAND and SILT, little sub-angular and sub-rounded fine to medium Gravel, trace Brick fragments.	
								Brown fine to medium SAND, little coarse Sand and Silt, trace medium sub-rounded Gravel, moist.	
								Light brown fine to medium SAND, some Clay and Silt, medium plasticity, firm, wet.	
5 / -5									
	1	5-7	11 6 6 7	12	1.6	0.0 0.2 0.2 0.0		Light brown fine to medium SAND, some Clay and Silt, medium plasticity, firm, some sheen on sands, wet.	
								Gray and green SILT, trace fine to medium sub-rounded Gravel and fine to coarse Sand, Red Brick, trace sheen at 5.5' bgs, wet.	
	2	7-9	6 8 8 12	16	1.2	0.0 0.0 0.0 0.0		Between 7.8-8.0' bgs seam of gray fine to medium Sand, wet.	Bentonite Cement Grout (0-25' bgs)
10 / -10	3	9-11	7 12 5 5	17	1.5	0.0 0.0 0.0 0.0		Gray SILT and CLAY, trace fine sub-angular Gravel and fine to coarse Sand, wet.	
	4	11-13	6 8 8 8	16	1.5	0.0 0.0 0.0 0.0			
	5	13-15	5 5 6 10	11	1.4	0.0 0.2 0.3 0.4		Gray fine to medium SAND and SILT, trace sub-angular Gravel, wet.	
15 / -15	6	15-17	8 10	31	1.5	15.9 24.3		Gray SILT, trace fine to coarse Sand and fine to medium angular Gravel, brown oil-like material at 15.5' bgs and 15.8' bgs, moderately impacted, coal tar-like odor, wet. [WEATHERED BEDROCK]	

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Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: GT-3

Borehole Depth: 25' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	15-17	21 36	31	1.5	14.3 15.2		Gray SILT, trace fine to coarse Sand and fine to medium angular Gravel, brown oil-like material at 15.5' bgs and 15.8' bgs, moderately impacted, coal tar-like odor, wet. [WEATHERED BEDROCK]	
	7	17-19	50/0.4	NA	0.9	0.3 1.5 1.7 1.0		Gray SILT, little fine to medium angular Gravel, trace fine to coarse Sand, wet. [WEATHERED BEDROCK]	
	8	19-20	50/0.4	NA	0.4	0.0 0.0		Roller bitted (2 7/8") to 20' bgs to seat augers for coring.	
20 20									
	9	20-25	NA	43	4.7	0.0		Black SHALE, low angle mechanical fractures at 20.4', 20.85', 21.4', 22', 23.1', 24' bgs. High Angle fractures at 21.7-22', 22-22.4', 23.1-24' bgs.	Bentonite Cement Grout (0-25' bgs)
25 25								End of Boring.	
30 30									
35 35									

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Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/24-9/21/17
Drilling Company: Parratt-Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger
Auger Size: 3 1/4"
Rig Type: Truck Mounted CME 55
Sampling Method: 2" X 2' SS

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 18' bgs
Surface Elevation: NA

Descriptions By: L. Terrell

Well/Boring ID: **GT-4**

Client: National Grid

Location: North Albany Service Center
1125 Broadway
Albany, NY

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs. ASPHALT.	
									Dark brown fine to coarse SAND, some Silt, trace sub-angular Gravel, moist.	
									Dark brown SILT, some fine to coarse Sand, trace sub-angular Gravel, moist.	
									Dark brown SILT, some Clay and fine Sand, trace sub-angular Gravel, moist.	
									Dark brown SILT and CLAY, little fine Sand, moist.	
									Light brown fine to medium SILT and CLAY, moist to wet.	
5	-5	1	5-7	0.4	5 9 18 44	27	0.0 0.0 0.0 0.0		Brown fine to medium angular GRAVEL, little fine to coarse Sand and Silt, wet.	
		2	7-9	NR	26 24 18 18	42	NA		No Recovery, possibly pushing a Cobble.	Bentonite Cement Grout (0-18' bgs)
10	-10	3	9-11	0.4	15 11 7 5	18	0.0 0.0 0.0 0.0		Brown fine to medium angular GRAVEL, little fine to coarse Sand and Silt, wet.	
		4	11-13	1.2	4 11 11 12	22	0.0 0.0 0.0 0.0		Gray SILT, little fine to coarse sub-angular to sub-round Gravel, trace fine to coarse Sand, wet.	
		5	13-15	NR	25 50/0.4	NA	NA		No Recovery.	
15	-15	6	15-17	0.3	50/0.3	NA	0.0 0.0		Gray SILT, little fine to coarse sub-angular to sub-round Gravel, trace fine to coarse Sand, Shale in the nose of the spoon, wet. [WEATHERED BEDROCK]	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: GT-4

Site Location:

Borehole Depth: 18' bgs

DRAFT

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	6	15-17	0.3	50/0.3	NA	0.0 0.0		Gray SILT, little fine to coarse sub-angular to sub-round Gravel, trace fine to coarse Sand, Shale in the nose of the spoon, wet. [WEATHERED BEDROCK]	Bentonite Cement Grout (0-18' bgs)
	7	17-18	0.3	50/0.3	NA	0.0 0.0		Auger refusal at 18' bgs. End of Boring.	
	8	18-20	0.2	50/0.2	NA	0.0			
20 -20									
25 -25									
30 -30									
35 -35									

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Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/22-9/6/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 2" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 28.2' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-5** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs.	Bentonite Cement Grout (0-28.2' bgs)
5 / -5	1	5-7	6 4 4 5	8	NR	NA		Brownish gray fine to coarse GRAVEL, fine to coarse SAND, SILT, SLAG, ASH, CINDERS, burnt-like odor, wet.	
	2	7-9	2 2 2 2	4	1.7	14.1 36.0 10.6 7.0		Grayish brown SILT, trace fine to coarse Sand and fine to medium Gravel, oil-like material coating soil, coal tar-like odor, wet.	
10 / 10	3	9-11	2 2 5 7	7	1.7	3.4 4.2 2.7 1.8		Gray Silty CLAY, plastic, soft, coal tar-like odor, wet. Grayish brown fine rounded GRAVEL and fine to coarse SAND, trace Silt, coal tar-like odor, brown oil-like material coating soil, wet.	
	4	11-13	3 4 8 7	12	1.5	1.1 1.1 1.3 0.9			
	5	13-15	9 10 7 9	17	1.4	0.0 0.0 0.0 0.0		Brown fine to medium sub-rounded GRAVEL, little fine to coarse Sand, little Silt, wet.	
15 / 15	6	15-17	6 6	14	2.0	0.0 0.0		Brown SILT, trace fine to coarse Sand and fine to coarse sub-rounded to sub-angular Gravel, moist.	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: **GT-5**

Borehole Depth: 28.2' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	15-17	8 17	14	2.0	0.0 0.0		Brown SILT, trace fine to coarse Sand and fine to coarse sub-rounded to sub-angular Gravel, moist.	
	7	17-19	10 8 13 11	21	0.8	0.0 0.0 0.0 0.0		Brown fine to coarse sub-rounded to sub-angular GRAVEL, some fine to coarse Sand, trace Silt, wet.	
20 20	8	19-21	23	NA	0.9	0.0		Light brown Clayey SILT changing to SILT with depth, soft, high plasticity to no plasticity, wet. Dark gray fine to medium angular GRAVEL, trace fine to coarse Sand and Silt, moist.	
	9	21-23	50/0/3	NA	0.8	0.0		Dark gray SILT and fine to coarse angular GRAVEL, trace fine to coarse Sand, wet. [WEATHERED BEDROCK]	Bentonite Cement Grout (0-28.2' bgs)
	10	23-23.2	50/0.2	NA	0.1	0.0		Black fine to coarse angular GRAVEL, wet. [BEDROCK]	
	11	23.2-23.7	NA	0.0	NR	0.0		Black SHALE, Gypsum Vein, rubble zone.	
25 25	12	23.7-28.2	NA	85	3.8	0.0		Black SHALE, horizontal fractures at 25.3' bgs, low angle fracture (30 deg) at 25.25' bgs, high angle fracture (70 deg) at 27.75' bgs, mechanical fractures at 24.55', 25', 25.6', 26', 26.8', 27.5' 27.7' and 28' bgs.	
30 30								End of Boring.	
35 35									

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Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/23-9/6/17
Drilling Company: Parratt-Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger
Auger Size: 3 1/4"
Rig Type: Truck Mounted CME 55
Sampling Method: 3" X 2' SS

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 19.3' bgs
Surface Elevation: NA

Descriptions By: L. Terrell

Well/Boring ID: **GT-6/WC-11**

Client: National Grid

Location: North Albany Service Center
1125 Broadway
Albany, NY

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	NA	0-5	NA	NA	NA			Vacced to 5' bgs. ASPHALT.	
									Brown SILT, some medium to coarse Sand, little Gravel, moist.	
									Dark gray medium to coarse SAND, some Gravel, little Silt, moist.	
									Black SILT, little sub-angular Gravel and fine Sand.	
									Black SILT and sub-angular GRAVEL, medium Sand.	
									Black SILT, little sub-angular Gravel and coarse Sand, moist.	
5	-5	1	5-7	1.7	19 20 16 5	36			Dark brown to dark gray fine to coarse sub-angular to sub-rounded GRAVEL and CINDERS, little Silt, trace fine to coarse Sand, Ash, Red Brick, Glass, wet.	
		2	7-9	2.0	15 11 11 11	22			Trace Slag.	Bentonite Cement Grout (0-19.3' bgs)
									Dark gray Clayey SILT, firm, low plasticity, wet.	
10	-10	3	9-11	2.0	24 17 6 5	23			Dark brown to dark gray fine to coarse sub-angular to sub-rounded GRAVEL and CINDERS, little Silt, trace fine to coarse Sand, Ash, wet. Brown oil-like material coating soil between 11-11.1' bgs, coal tar-like odor, wet.	
		4	11-13	2.0	9 9 9 7	18			Gray Silty CLAY, mild coal tar-like odor, plastic, soft, sheen on the outside of the sample, moist. Brownish gray fine to medium SAND, coal tar-like odor, wet.	
		5	13-15	1.1	6 6 3 6	9			Gray discoloration. Green brown gray Clayey SILT, trace fine to coarse rounded to angular Gravel and fine to coarse Sand, coal tar-like odor, wet. [WEATHERED BEDROCK]	
15	-15	6	15-17	1.7	9 7	12			Green brown gray SILT, fine to coarse SAND and fine to coarse rounded to sub-rounded GRAVEL, wet. [WEATHERED BEDROCK]	

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used, 3" x 2' SS used for all intervals.

ARCADIS Design & Consultancy for natural and built assets

Client: National Grid

Well/Boring ID: GT-6/WC-11

Site Location:

Borehole Depth: 19.3' bgs

DRAFT

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	6	15-17	1.7	5 7	12			Green brown gray SILT, fine to coarse SAND and fine to coarse rounded to sub-rounded GRAVEL, wet. [WEATHERED BEDROCK]	
	7	17-19	1.8	7 7 22 50/0.4	29			Gray COBBLE, trace fine to coarse Sand and Silt, wet.	Bentonite Cement Grout (0-19.3' bgs)
20 -20	8	19-21	0.3	50/0.3	NA			End of Boring.	
25 -25									
30 -30									
35 -35									

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used, 3" x 2' SS used for all intervals.

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Project Number: B0036648
Data File: GT-6/WC-11.dat
Template: G:\Div11\Rockware\Logplot Logs\36648 National Grid North Albany\boring_well HSA 2007.tpl
Date: 12/20/2017

LGT

Date Start/Finish: 8/23-9/8/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 3" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 33' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-7/WC-9** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs.	Bentonite Cement Grout (0-33' bgs)
5 / -5	1	5-7	15 30 12 5	42	1.7	0.0 0.0 0.0 0.0		Gray fine to coarse sub-angular to sub-rounded GRAVEL, little fine to coarse Sand, trace Silt, moist. [FILL]	
	2	7-9	6 7 7 7	14	1.0	0.0 0.0 0.0 0.0		Multi-colored fine sub-angular to sub-rounded GRAVEL, trace medium sub-angular to sub-rounded Gravel and fine to coarse Sand, wet.	
10 / -10	3	9-10.5	50/0.0	NA	NR	0.0		No Recovery, on something hard, augered through obstruction, possibly concrete form from UST that was removed.	
	4	10.5-12	33 34 23	NA	0.5	0.0 0.0 0.0		Brown fine to coarse SAND, trace fine sub-rounded Gravel and Silt, trace sheen, coal-tar-like odor, wet.	
	5	12-14	7 8 10 11	18	0.5	1.0 3.2 6.4 8.6		Muti-colored fine sub-rounded to sub-angular GRAVEL, trace fine to coarse Sand and Silt, coal tar-like odor, wet.	
15 / -15	6	14-16	16 29 14 16	43	2.0	19.0 28.8 20.9 30.9		Grayish brown fine sub-rounded to sub-angular GRAVEL, trace fine to coarse Sand and medium sub-rounded to sub-angular Gravel and Silt, trace brown oil-like bleb at 14.2' and 14.5' bgs, mild coal tar-like odor, wet.	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 3" x 2' SS used for all intervals except (7-9) 2" x 2' ss used.

Client: National Grid

Well/Boring ID: GT-7/WC-9

Borehole Depth: 33' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	7	16-18	10 22 14 11	36	0.8	0.0 0.0 0.0 0.0		Grayish brown fine sub-rounded to sub-angular GRAVEL, trace fine to coarse Sand and medium to coarse sub-rounded to sub-angular Gravel and Silt, coal tar-like odor, wet.	
	8	18-20	33 17 18 24	35	1.5	0.0 0.0 0.0 0.0		Gray Silty CLAY, trace fine to coarse Sand and fine to medium sub-rounded to sub-angular Gravel, wet. Gray coarse rounded to angular GRAVEL, some fine rounded to angular Gravel, trace medium rounded Gravel, fine to coarse Sand and Silt, mild coal tar-like odor, wet.	
20 20	9	20-22	46 18 13 11	31	1.3	0.0 0.0 0.0 0.0		Gray SILT, trace fine to coarse Sand and fine to medium sub-round to sub-angular Gravel, mild coal tar-like odor, wet. Gray fine to coarse sub-angular to angular GRAVEL (Black Shale), little Silt, trace fine to coarse Sand, mild coal tar-like odor, wet.	
	10	22-24	15 18 16 17	34	1.5	0.0 0.0 0.0 0.0		Gray fine angular GRAVEL, trace medium to coarse angular Gravel, trace Silt and fine to coarse Sand, wet. [WEATHERED BEDROCK]	
25 25	11	24-26	15 25 24 24	49	1.3	0.0 0.0 0.0 0.0		Gray coarse angular to sub-rounded GRAVEL, little Silt, trace fine to coarse Sand and fine to medium angular to sub-rounded Gravel, wet. [WEATHERED BEDROCK]	Bentonite Cement Grout (0-33' bgs)
	12	26-28	50/0.4	NA	0.4	6.7 7.5 7.8		Moderate rainbow sheen, moderate impacts of oil-like material coating Gravel and Soil, coal tar-like odor.	
30 30	13	28-33	NA	61	3.0	0.0		Black SHALE, highly fractured.	
35 35								End of Boring.	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 3" x 2' SS used for all intervals except (7-9) 2" x 2' ss used.

Date Start/Finish: 8/23-9/11/17
Drilling Company: Parratt-Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger
Auger Size: 3 1/4"
Rig Type: Truck Mounted CME 55
Sampling Method: 2" X 2' SS

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 28.1' bgs
Surface Elevation: NA

Descriptions By: L. Terrell

Well/Boring ID: GT-8

Client: National Grid

Location: North Albany Service Center
1125 Broadway
Albany, NY

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs. ASPHALT.	
									Dark brown medium to fine SAND, some coarse Sand, little sub-angular Gravel, moist.	
									Dark brown coarse to fine SAND, little sub-angular Gravel, moist.	
									Dark brown to gray medium to fine SAND, some sub-angular Gravel, little Silt, moist.	
									Black medium to fine SAND, some coarse Sand and sub-angular Gravel, moist.	
5	-5	1	5-7	NR	7 5 4 4	9	NA		No Recovery. Drove 3" Split Spoon to retrieve sample. Dark gray to black fine to coarse sub-angular to sub-rounded GRAVEL, trace fine to coarse Sand, Slag, Cinders, Ash, coal tar-like odor, wet.	
		2	7-9	0.5	4 3 4 3	7	0.0 0.0 0.0 0.0		Dark gray fine sub-angular to sub-rounded GRAVEL, trace fine to coarse Sand, Slag, Cinders, Ash, coal tar-like odor, wet.	Bentonite Cement Grout (0-28.1' bgs)
10	-10	3	9-11	0.5	9 4 3 1	7	0.0 0.0 0.0 0.0			
		4	11-13	2.0	1 2 3 3	5	0.0 0.0 0.0 0.0		Heavy impacts of coal tar-like material coating soil, coal tar-like odor.	
									Dark gray Silty CLAY, high plasticity, soft, coal tar-like odor, wet.	
		5	13-14	NA	NA	NA	NA		Pushed a Shelby Tube to 14' bgs. Driller thought he came out of the CLAY around 14' bgs.	
15	-15	6	14-16	1.0	8 5 3 3	8	0.0 0.0 0.0 0.0		Gray fine to medium SAND, some fine to medium sub-rounded Gravel, trace coarse Sand, Silt and coarse sub-rounded Gravel, coal tar-like odor, wet.	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: GT-8

Site Location:

Borehole Depth: 28.1' bgs

DRAFT

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	7	16-18	0.9	5 5 6 11	11	0.0 0.0. 0.0 0.0		Gray fine to medium SAND, some fine to medium sub-rounded Gravel, trace coarse Sand, Silt and coarse sub-rounded Gravel, coal tar-like odor, wet.	
	8	18-20	1.3	11 5 6 7	11	0.0 0.0 0.0 0.0			
20 -20	9	20-22	1.0	7 1 2 2	3	0.0 0.0 0.0 0.0		Gray fine to coarse sub-rounded GRAVEL, little Silt, trace fine to coarse Sand, coal tar-like odor, wet.	Bentonite Cement Grout (0-28.1' bgs)
	10	22-24	1.0	4 2 2 3	4	0.0 0.0 0.0 0.0			
25 -25	11	24-26	1.0	8 7 10 50/0.4	17	0.0 0.0 13.9 20.1		Oil like-material at 25' bgs and 26' bgs coating soil.	
	12	26-28	0.5	50/0.4	NA	0.0 0.0 0.0 0.0		Dark gray SILT, little fine to coarse Sand, trace angular to sub-rounded fine Gravel, coal tar-like odor, wet. [WEATHERED BEDROCK] Rock became competent approximately 27' bgs while rollerbitting.	
	13	28-30	NR	50/0.1	NA	NA		No Recovery. End of Boring.	
30 -30									
35 -35									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/24-9/13/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 2" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 30' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-9** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs. Brown fine to coarse SAND and SILT, trace sub-angular Gravel, moist.	
								Brown medium to coarse SAND, and sub-angular GRAVEL, little Silt, moist.	
								Dark brown medium to coarse SAND and small sub-angular GRAVEL, little Silt, hardened coal tar-like deposit, moist.	
								Dark brown to black SILT, little medium Sand and sub-angular Gravel, coal tar-like deposit (solid), moist.	
								Dark brown to black SILT, little sub-angular Gravel, trace medium to coarse Sand, coal tar-like, moist.	
5 / -5	1	5-7	4 3 2 2	5	1.1	34.5 104.5 209 137		Dark gray to black fine to coarse sub-rounded to sub-angular GRAVEL, little fine to coarse Sand, coal tar-like odor, heavy impacts of coal tar-like material, wet. Dark gray to black SILT, little fine to coarse sub-angular to sub-rounded Gravel, coal tar-like odor, heavy impacts of coal tar-like material, wet.	
	2	7-9	2 2 1 1	3	1.4	221 237 91.8 67.6		Dark gray to black SILT, trace fine to medium sub-rounded to sub-angular Gravel, trace fine to coarse Sand, coal tar-like odor, heavy impacts of coal tar-like material wet. Dark gray Organic Silty CLAY, highly plastic, soft, coal tar-like odor, wet.	Bentonite Cement Grout (0-30' bgs)
10 / 10	3	9-11	2 5 5 7	10	1.7	29.4 50.4 37.1 49.8		Greenish gray Silty CLAY, high plasticity, soft, last 0.5' Silt and Clay changing to Clayey Silt, low plasticity, soft, coal tar-like odor, trace tar-like bleb at 10' bgs, wet.	
	4	11-13	9 15 15 15	30	0.8	76.6 44.5 37.6 27.8		Dark gray Silty CLAY, high plasticity, soft, coal tar-like odor, wet. Greenish gray Silty CLAY, trace fine to coarse sub-rounded to sub-angular Gravel and fine to coarse Sand, coal tar-like odor, wet.	
	5	13-15	17 24 15 17	39	0.3	0.0 0.0 0.0 0.0			
15 / 15	6	15-17	11 35	70	1.5	0.0 0.0			

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: GT-9

Borehole Depth: 30' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	15-17	35 24	70	1.5	0.0 0.0		Gray fine to coarse sub-rounded to sub-angular GRAVEL, some Silt, trace fine to coarse Sand, moist.	
	7	17-19	19 16 18 18	34	1.1	0.0 0.0 0.0 0.0		Gray fine to medium SAND, little fine to caorse sub-rounded to sub-angular Gravel, trace coarse Sand and Silt, wet.	
20 20	8	19-21	22 16 12 12	28	0.9	0.0 0.0 0.0 0.0		Dark gray fine to medium sub-rounded to angular GRAVEL (SHALE), trace fine to coarse Sand and Silt, coal tar-like odor, wet. [WEATHERED BEDROCK]	
	9	21-23	22 47 50/0.1	NA	0.3	0.0 0.0 0.0 0.0			
	10	23-25	19 50/0.1	NA	0.1	0.0			Bentonite Cement Grout (0-30' bgs)
25 25	11	25-27	NA	0	1.8	0.0		Black SHALE, highly fractured (mechanical). A split spoon was attempted before rock coring, no recovery was retrieved, blow count was 50/0.3.	
	12	27-30	NA	42	3.0	0.0		Black SHALE, mechanical fractures, low angle at 27.5', 27.7', 27.8', 27.9, 28', 28.3', 28.5', 28.9', 29.2', 29.45', 29.8', 29.9' bgs.	
30 30								End of Boring.	
35 35									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/24-9/15/17
Drilling Company: Parratt-Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger
Auger Size: 3 1/4"
Rig Type: Truck Mounted CME 55
Sampling Method: 2" X 2' SS

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.6' bgs
Surface Elevation: NA

Descriptions By: L. Terrell

Well/Boring ID: **GT-10**

Client: National Grid

Location: North Albany Service Center
1125 Broadway
Albany, NY

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs. ASPHALT.	
									Dark brown to black medium to coarse SAND, little Silt, trace sub-angular Gravel, moist.	
									Dark brown to black sub-angular GRAVEL and medium to coarse SAND, trace Silt, moist.	
									Dark brown to black sub-angular GRAVEL and fine to coarse SAND, little Silt, moist.	
5	-5	1	5-7	1.5	2 2 4 3	6	312 630		Brown medium to fine SAND, little fine Gravel, non-plastic, moist. Black Silty WOOD CHIPS, tar coated. Black SILT and fine SAND, trace fine Gravel, non-plastic, tar coated, moist.	
		2	7-9	0.5	6 5 5 2	10	897		Approximately 0.7' of slough above.	Bentonite Cement Grout (0-20.6' bgs)
10	-10	3	9-11	0.5	1 1 2 2	3	3.3		Brown Silty CLAY, moderately plastic to plastic, moist.	
		4	11-13	1.0	5 5 10 13	15	16.7 3.3		Odor. Brown gray Silty CLAY, trace Shale fragments, increasing density with depth, moderately plastic to plastic, moist to wet.	
		5	13-15	1.1	8 6 5 2	11	15 6		Gray to brown SILT and coarse to fine SAND, some coarse Gravel, littel medium to fine sub-rounded Gravel, non-plastic, saturated.	
15	-15	6	15-17	NR	3 3	8	NA		No Recovery.	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: **GT-10**

Site Location:

Borehole Depth: 20.6' bgs

DRAFT

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	6	15-17	NR	3 3	8	NA		No Recovery.	
	7	17-19	1.3	3 3 5 5	8	0.8 0.6		Gray SILT and coarse to fine SAND, some coarse Gravel, little medium to fine sub-rounded Gravel, non-plastic, faint odor, saturated.	Bentonite Cement Grout (0-20.6' bgs)
20 -20	8	19-20.5	0.4	50/0.4	NA	3.2		Gray Silty medium to fine SAND, little medium to fine Gravel (Shale fragments), dense, non-plastic, faint odor, wet.	
	9	20.5-20.6	0.1	50/0.1	NA	3.7		Dark gray medium to fine Sandy SILT and SHALE fragments.	
								End of Boring.	
25 -25									
30 -30									
35 -35									

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

ARCADIS Design & Consultancy for natural and built assets

Date Start/Finish: 8/24-9/19/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 2" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 30' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-11** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0								Vacced to 5' bgs. ASPHALT.	
								Mostly brown with reddish tint fine to coarse SAND and sub-angular GRAVEL, little Silt, moist.	
								Mostly brown with reddish tint fine to coarse SAND and SILT, trace sub-angular Gravel, moist.	
	NA	0-5	NA	NA	NA	NA		Mostly brown with reddish tint small GRAVEL and medium to coarse SAND, little Silt, moist.	
								Dark brown small sub-angular and angular GRAVEL, little fine to coarse Sand, moist.	
								Dark brown small sub-angular and angular GRAVEL, some fine to coarse Sand, trace Silt, moist.	
5 / -5	1	5-7	4 5 5 6	10	0.8	93		Black SILT, some fine to coarse Sand, trace sub-angular Gravel.	
								Dark gray coarse to fine SAND, little angular coarse to fine Gravel and Brick, non-plastic, moderate odor, trace sheen, saturated.	
	2	7-9	4 2 1 2	3	1.2	571 1458		Black WOOD CHIPS, tar saturated, non-plastic, saturated.	
								Dark gray SILT and CLAY, moderately plastic, wet.	Bentonite Cement Grout (0-30' bgs)
10 / -10	3	9-11	1 1 1 1	2	1.3	82 19		1" seems of fine Sandy SILT, trace to little Clayat 9.3' bgs and 9.8' bgs.	
	4	11-13	3 3 3 8	6	0.6	3.7		Gray to dark gray Silty CLAY, little coarse to fine sub-angular Gravel, trace fine Sand, moderate density, slightly to non-plastic, moist.	
								Slight plasticity, faint tar odor.	
	5	13-15	3 8 8 8	16	1.1	24 14		Gray Silty coarse to fine SAND, some coarse to fine sub-rounded Gravel, non-plastic, faint odor, saturated.	
15 / -15	6	15-17	7 10	27	NR	NA		No Recovery.	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: GT-11

Borehole Depth: 30' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	15-17	17 21	27	NR	NA		No Recovery.	
	7	17-19	26 30 22 21	52	0.1	10.7		Gray Silty coarse to fine SAND, some coarse to fine sub-rounded Gravel, non-plastic, faint odor, saturated.	
20 20	8	19-21	9 10 13 11	23	1.1	5.0 4.7		Dark gray coarse to fine angular GRAVEL (Shale fragments), little Silt and fine Sand, trace Clay, non-plastic, faint odor, saturated.	
	9	21-23	15 12 11 15	23	1.4	0.5 0.3		Gray SHALE fragments, little medium to fine Sand and Silt, trace Clay, non-plastic, saturated. [WEATHERED BEDROCK]	
	10	23-23.2	50/0.2	NA	0.2	2.6			Bentonite Cement Grout (0-30' bgs)
	11	23.2-25	NA	NA	NA	NA		Rollerbitted to 25' bgs to seat augers for coring.	
25 25	12	25-30	NA	50	2.5	0.0		Black SHALE, low angle mechanical fractures at 25.15', 25.3', 25.35', 25.5', 25.65', 25.8', 25.85', 26.0', 26.15', 27.0', 27.25', 28.0', 29.1', 29.35' bgs. Broken zone between 26.4-26.7' bgs, low angle fractures at 28.85' bgs (Silt filled fracture), wet.	
30 30								End of Boring.	
35 35									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/29-9/14/17
Drilling Company: Parratt-Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger
Auger Size: 3 1/4"
Rig Type: Truck Mounted CME 55
Sampling Method: 2" X 2' SS

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 21.1' bgs
Surface Elevation: NA

Descriptions By: L. Terrell

Well/Boring ID: **GT-12**

Client: National Grid

Location: North Albany Service Center
1125 Broadway
Albany, NY

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0	0	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs. ASPHALT.
									Black medium to coarse SAND, little Silt, some fine to medium Gravel.
									Black fine to medium SAND, little Silt and fine to medium Gravel, moist.
									Brown, black, metallic, little medium Gravel, little coarse Sand, moist.
									Brown, black, metallic, little medium Gravel, little coarse Sand, moist.
									Fine to coarse GRAVE and fine to coarse SAND, heavily impacted, coating soil, little tar-like material, moist.
5	-5	1	5-7	1.0	2 1 1 1	2	172 282 114 90.9		Fine to coarse GRAVEL and fine to coarse SAND, heavily impacted, coating soil, little tar-like material, sticky, sheen in water, free phase NAPL (tar-like) between soil. Dark gray to black Coal Tar-like material and WOOD Shavings, coal tar-like odor, moist.
		2	7-9	1.5	2 2 1 1	3	1.2 0.3 0.6 0.0		Gray CLAY and SILT, medium plasticity, soft, coal tar-like odor, wet.
10	-10	3	9-11	NA	NA	NA	NA		Collected a Shelby Tube 9-11' bgs, 1.7' of recovery.
		4	11-13	0.7	4 5 6 11	11	0.0 0.0 0.0 0.0		Gray CLAY and SILT, trace fine to medium sub-angular Gravel, medium plasticity, soft, coal tar-like odor, wet. Gray fine to coarse sub-angular GRAVEL, little fine to coarse Sand, trace Silt, wet.
		5	13-15	1.4	6 7 5 5	12	0.0 0.0 0.0 0.0		Gray CLAY and SILT, medium plasticity, soft, coal tar-like odor, wet.
15	-15	6	15-17	0.5	5 5	10	0.0 0.0		Green and gray SILT, trace fine to coarse sub-rounded Gravel and fine to coarse Sand, wet.

Well/Boring Construction

Bentonite Cement Grout (0-21.1' bgs)

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

ARCADIS Design & Consultancy for natural and built assets

Client: National Grid

Well/Boring ID: GT-12

Site Location:

Borehole Depth: 21.1' bgs

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		6	15-17	0.5	5 6	NA	0.0 0.0		Green and gray SILT, trace fine to coarse sub-rounded Gravel and fine to coarse Sand, wet.	
		7	17-19	0.6	11 50/0.1	NA	0.0 0.0 0.0 0.0		Gray fine to coarse SAND, little fine to medium sub-rounded Gravel, trace Silt, wet. Gray SILT, trace fine to coarse Sand and fine to coarse angular Gravel, wet.	Bentonite Cement Grout (0-21.1' bgs)
20	-20	8	19-21	0.2	50/0.2	NA	0.0		Dark gray fine to coarse angular GRAVEL, little Silt, trace fine to coarse Sand, wet.	
		9	21-23	NR	50/0.1	NA	NA		No Recovery. Hard roller bitting beginning at 21' bgs. End of Boring.	
25	-25									
30	-30									
35	-35									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/28-9/19/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 2" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 30' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-13** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0									
	NA	0-5	NA	NA	NA	NA		Vacced to 5' bgs. ASPHALT. Gray angular to sub-angular medium GRAVEL and sub-rounded small GRAVEL, little coarse Sand. Dark gray sub-angular GRAVEL, some fine to medium Sand, little Silt, trace Glass Chards, moist. Dark brown SILT and CLAY, little medium Sand and fine sub-rounded Gravel, medium to high plasticity. Gray tints of green, orange SILT and CLAY, little fine Sand, medium to high plasticity, strong cementation, stiff.	
5 / -5	1	5-7	2 2 1 1	3	0.5	226 236 37.2		Black WOOD shavings and sticky Coal Tar-like material, coal tar-like odor, wet. Gray CLAY and SILT, medium plasticity, soft, coal tar-like odor, wet.	
	2	7-9	2 2 1 1	3	1.9	18.2 4.7 2.4 4.9			Bentonite Cement Grout (0-30' bgs)
10 / 10	3	9-11	2 2 2 2	4	1.1	5.9 9.2 7.8 5.4		Dark grayish brown CLAY and SILT, wet	
	4	11-13	5 5 5 10	10	0.5	5.3 1.7 1.5 1.3		Dark gray SILT and CLAY, trace sub-angular Gravel. Dark gray Clayey SILT and fine to coarse SAND, little sub-angular Gravel.	
15 / 15	5	13-15	17 11 8 7	19	0.6	0.0 0.6 0.0 0.0		Dark gray fine to coarse sub-angular GRAVEL, little fine to coarse Sand, trace Silt, wet.	
	6	15-17	4 7	16	0.9	0.0 0.0		Dark gray fine to medium angular to sub-angular GRAVEL, little fine to coarse Sand, trace Silt, wet. [WEATHERED BEDROCK]	

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

ARCADIS Design & Consultancy for natural and built assets

Client: National Grid

Well/Boring ID: GT-13

Borehole Depth: 30' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	15-17	9 7	16	0.9	0.0 0.0		Dark gray fine to medium angular to sub-angular GRAVEL, little fine to coarse Sand, trace Silt, wet. [WEATHERED BEDROCK]	
	7	17-19	12 11 9 13	20	1.3	0.0 0.0 0.0 0.0			
20 20	8	19-21	14 10 11 9	21	0.7	0.0 0.0 0.0 0.0			
	9	21-23	9 50 50/0.2	NA	1.0	0.0 0.0 0.0 0.0			
	10	23-25	50/0.3	NA	0.3	0.0 0.0 0.0 0.0			
25 25	11	25-30	NA	75	5.0	0.0		Black SHALE, low angle mechanical fractures.	Bentonite Cement Grout (0-30' bgs)
30 30								End of Boring.	
35 35									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No Recovery

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/28-9/1/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 2" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 30.4' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-14** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0									
								Vacced to 5' bgs. ASPHALT.	
								Light gray GRAVEL and medium to coarse SAND.	
								Dark brown medium to coarse SAND and small sub-angular GRAVEL, little large sub-angular, trace Silt.	
	NA	0-5	NA	NA	NA	NA		Brown Silty CLAY, some medium to coarse Sand, little sub-angular to angular Gravel, medium to high plasticity, moist.	
								Gray sub-angular to angular GRAVEL, little larger sub-rounded Gravel, trace Wood, Peat, wet around 3.4-3.5' bgs.	
								Dark gray SILT, some fine to medium Sand, little Wood debris, moist.	
5 / -5									
			2			0.0		Gray fine to coarse SAND, little fine to coarse angular to sub-angular Gravel, trace Silt, wet.	
			2			0.0			
	1	5-7	1	3	1.4	19.9		Dark gray to black WOOD CHIPS/SHAVINGS, odor, wet.	
			2			0.0		Gray SILT and fine SAND, trace medium angular Gravel, moist.	
			2			0.0		Gray SILT and fine SAND, wet.	
			2			0.0			
	2	7-9	2	4	1.2	0.0		Gray Silty CLAY, high plasticity, soft, moist.	Bentonite Cement Grout (0-30.4' bgs)
			2			0.0			
			4					No Recovery.	
10 / -10			4						
	3	9-11	6	10	NR	NA			
			15						
			13			0.0		Dark gray fine to coarse angular to sub-angular GRAVEL, little fine to coarse Sand, trace Silt, moist.	
			15			0.0			
	4	11-13	9	24	0.8	0.0			
			12			0.0			
			7			0.0		Gray Silty CLAY, high plasticity, soft, moist.	
			7			0.0		Gray fine to coarse angular to sub-rounded GRAVEL, little fine to coarse Sand, trace Silt, wet.	
	5	13-15	21	28	1.5	0.0			
			17			0.0			
15 / -15									
			19			0.0			
	6	15-17	19	44	1.3	0.0			

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used, 2" x 2' SS used for all intervals.

ARCADIS Design & Consultancy for natural and built assets

Client: National Grid

Well/Boring ID: **GT-14**

Borehole Depth: 30.4' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	15-17	25 18	44	1.3	0.0 0.0		Gray fine to coarse angular to sub-rounded GRAVEL, little fine to coarse Sand, trace Silt, wet.	
	7	17-19	35 39 31 23	70	1.3	0.0 0.0 0.0 0.0			
20 20	8	19-21	26 12 8 7	20	0.8	0.0 0.0 0.0 0.0		Dark gray fine to medium SAND, trace coarse Sand and fine to coarse angular to sub-rounded Gravel and Silt, wet.	
	9	21-23	7 7 7 18	14	0.8	0.0 0.0 0.0 0.0			
	10	23-25	50/0.2	NA	NR	NA		No Recovery.	Bentonite Cement Grout (0-30.4' bgs)
25 25	11	25-25.4	50/0.4	NA	0.4	0.0		Gray fine to coarse angular GRAVEL (SHALE) and SILT, trace fine to coarse Sand, moist. [WEATHERED BEDROCK] Spoon refusal at 25.4' bgs.	
	12	25.4-27.5	NA	0.0	1.6	NA		Black SHALE, highly fractured, top 1-2" rounded Gravel. [WEATHERED BEDROCK]	
30 30	13	27.5-30.4	NA	40	2.9	NA		Black SHALE, high angled fractures, 40 degree at 27.7', 28.0', 28.6' bgs, 30 degree at 27.85', 28.5', 29.7'bgs, vertical angle between 28.6-29' bgs, 75 degree 29.1-29.6' bgs.	
35 35								End of Boring.	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used, 2" x 2' SS used for all intervals.

Date Start/Finish: 8/25-8/30/17
Drilling Company: Parratt-Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger
Auger Size: 3 1/4"
Rig Type: Truck Mounted CME 55
Sampling Method: 2" X 2' SS

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 27.1' bgs
Surface Elevation: NA

Descriptions By: L. Terrell

Well/Boring ID: **GT-15**

Client: National Grid

Location: North Albany Service Center
1125 Broadway
Albany, NY

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	NA	0-5	NA	NA	NA	NA		Vacced to 6' bgs. ASPHALT.	
									Dark brown fine to coarse SAND, some Silt, little sub-angular Gravel, moist.	
									Dark gray slightly red fine to coarse SAND, some Silt, trace sub-angular to sub-rounded Gravel, moist.	
									Dark brown slightly red fine to coarse SAND and SILT, trace sub-angular to sub-rounded Gravel, moist.	
									Dark brown sub-angular to sub-rounded GRAVEL, little coarse Sand, Ash and Cinders, moist, wet at 4' bgs.	
5	-5	1	5-7	1.2	10 2 2 2	4	0.0 0.0		Dark gray fine to coarse angular to sub-angular GRAVEL, little fine to coarse Sand and Slag, wet.	
									Brownish gray Silty CLAY, trace red Brick, high plasticity, moist.	
		2	7-9	0.6	3 3 4 2	7	0.0 0.0 0.0 0.0		No red Brick. Black coal tar-like material coating Wood Shavings in the nose of the split spoon, coal tar-like odor, wet.	Bentonite Cement Grout (0-27.1' bgs)
10	-10	3	9-11	1.0	1 1 1 3	2	55.0 34.2 9.7 2.4		Dark gray Silty Organic CLAY, coal tar-like odor, high plasticity, soft, moist.	
		4	11-13	1.7	NA	NA	NA		Collected a Shelby tube 11-13' bgs. Pressure increased as Shelby Tube depth increased 200 psi to 400 psi, 1.7' of recovery.	
		5	13-15	1.0	7 5 11 11	16	0.0 0.0 0.0 1.8		Gray and rusty Silty CLAY, trace fine to medium angular Gravel and fine to coarse Sand, soft, moist.	
									Gray fine to coarse SAND and fine to medium angular to sub-angular GRAVEL.	
15	-15	6	15-17	1.7	4 6	16	0.0 0.0		Dark gray Silty CLAY, trace fine to medium angular to sub-rounded Gravel, high plasticity, soft, moist.	

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used. A 2" x 2' SS used for all intervals.

Client: National Grid

Well/Boring ID: GT-15

Site Location:

Borehole Depth: 27.1' bgs

DRAFT

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		6	15-17	1.7	10 6	16	0.0 0.0		Dark gray fine to coarse sub-rounded to rounded GRAVEL, some fine to coarse Sand, trace Silt, wet. Trace brown oil like-bleb, coal tar-like odor, wet.	
		7	17-19	1.3	4 4 3 4	7	0.0 0.0 0.0 0.0		Dark gray fine to coarse SAND, trace fine to medium sub-angular Gravel, wet.	
20	-20	8	19-21	1.6	10 7 5 10	12	4.6 0.4 0.2 0.0		Dark gray SILT and CLAY, low plasticity, trace fine angular Gravel, soft, moist. Dark gray fine to medium SAND, little fine to medium angular to sub-rounded Gravel, trace coarse Sand and coarse angular Gravel, trace (one) brown oil like-bleb at 19.4' bgs, mild coal tar-like odor, wet.	
		9	21-23	1.8	10 10 9 9	19	0.0 0.0 0.0 0.0		Dark gray fine to coarse sub-rounded to sub-angular GRAVEL, little fine to medium Sand, trace coarse Sand ans Silt, mild coal tar-like odor, wet.	Bentonite Cement Grout (0-27.1' bgs)
25	-25	10	23-25	1.0	28 19 50 50/0.1	69	0.0 0.0 0.0 0.0			
		11	25-27	0.4	50/0.4	NA	0.0			
		12	27-29	NR	50/0.1	NA	NA		No recovery. End of Boring.	
30	-30									
35	-35									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and rope used. A 2" x 2' SS used for all intervals.

Date Start/Finish: 8/25-8/29/17 **Drilling Company:** Parratt-Wolff, Inc. **Driller's Name:** Lee Penrod **Drilling Method:** Hollow Stem Auger **Auger Size:** 3 1/4" **Rig Type:** Truck Mounted CME 55 **Sampling Method:** 2" X 2' SS/NX	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 26.7' bgs **Surface Elevation:** NA **Descriptions By:** L. Terrell	**Well ID/Boring ID:** **GT-16** **Client:** National Grid **Location:** North Albany Service Center 1125 Broadway Albany, NY DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
0 / 0									
								Vacced to 5' bgs. ASPHALT.	
								CONCRETE, Rebar.	
	NA	0-5	NA	NA	NA	NA		Dark brown to black angular to sub-angular GRAVEL, little medium coarse Sand.	
								Brown sub-angular GRAVEL, some fine to coarse Sand, moist.	
								Black to dark brown sub-angular GRAVEL.	
5 / -5									
	1	5-7	3 4 5 5	9	1.4	0.0 0.0		Black to dark gray fine to coarse SAND, some fine angular Gravel, trace medium angular Gravel, Cinders and Ash, wet. Between 5.4-5.7' bgs gray SILT and CLAY, wet [FILL]	
	2	7-9	7 10 8 4	18	2.0	0.0 0.0 0.0 0.0		Black to dark gray fine to medium SAND, trace coarse Sand and fine to medium angular to sub-angular Gravel, pungent odor (purifier-like odor), trace rainbow sheen, wet.	Bentonite Cement Grout (0-26.7' bgs)
10 / 10	3	9-11	2 2 4 7	6	1.0	30.2 16.1 6.3 5.8		Silty CLAY, high plasticity, trace angular Gravel, coal tar-like odor, wet.	
	4	11-13	10 12 12 17	24	1.5	10.0 2.8 10.3 3.2		Gray fine to coarse angular to sub-angular GRAVEL, little fine to coarse Sand and Silt, coal tar-like odor, moist.	
	5	13-15	6 6 4 10	10	1.5	0.5 0.2 2.0 0.7		Gray Silty CLAY, high plasticity, coal tar-like odor, wet. Greensih gray rusty fine SAND, trace fine to coarse angular to sub-angular Gravel, mottled, at 14.5' bgs 0.5" thick band of oil-like material coating soil, coal tar-like odor, wet.	
15 / 15	6	15-17	15 10	18	1.0	0.0 0.0		Greenish gray SILT and fine to coarse angular GRAVEL, wet. [WEATHERED BEDROCK]	

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and Rope used. 2" x 2' SS used for all intervals.

ARCADIS Design & Consultancy for natural and built assets

Client: National Grid

Well/Boring ID: GT-16

Borehole Depth: 26.7' bgs

Location:

North Albany Service Center
1125 Broadway

DRAFT

Depth (ft. bgs) / Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blow Counts	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	15-17	8 7	18	1.0	0.0 0.0		Greenish gray SILT and fine to coarse angular GRAVEL, wet. [WEATHERED BEDROCK]	
	7	17-19	7 8 10 10	18	1.0	0.0 0.0 0.0 0.0		Greenish gray rusty, trace fine to coarse Sand.	
20 20	8	19-21	36 31 25 38	56	1.0	7.8 0.0 0.0 0.1		Trace brown oil-like material at 21' bgs coating soil, coal tar-like odor, wet.	
	9	21-21.7	35 50/0.2	NA	0.7	1.5 2.5 0.1		Gray SILT, and fine to coarse angular GRAVEL, trace fine to coarse Sand, coal tar-like odor, moist. Spoon refusal at 21.7' bgs.	Bentonite Cement Grout (0-26.7' bgs)
	10	21.7-25.2	NA	19	3.4	0.0		Black SHALE, highly fractured (Mechanical Fractures). [BEDROCK]	
25 25	11	25.2-26.7	NA	27	1.5	0.0		Black SHALE, highly fractured (Mechanical Fractures). [BEDROCK]	
								End of Boring.	
30 30									
35 35									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; NA = Not Applicable/Available

Cat Head and Rope used. 2" x 2' SS used for all intervals.

APPENDIX C

Geotechnical Laboratory Reports

PW Laboratories, Inc.
6544 Fremont Road - East Syracuse, New York 13057
Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

November 8, 2017

Mr. Michael Jones
Arcadis U.S., Inc.
6723 Towpath Road
P.O. Box 66
Syracuse, New York 13214-0066

Re: L-17008
Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

Dear Mr. Jones [michael.jones@arcadis.com]:

Enclosed are the results of laboratory testing performed at your request on thirty-nine (39) Jar Soil samples delivered to PW Laboratories, Inc. on 9/28/2017 for the above referenced project. Results include:

1. Natural Moisture Content ASTM D2216
   Laboratory I.D. #34505 – 34543 — 39 Each

2. Sieve Analysis ASTM D422 & D1140
   Laboratory I.D. #34505 – 34543 — 39 Each

3. Hydrometer Analysis ASTM D422
   Laboratory I.D. #34505 – 34543 — 39 Each

4. Atterberg Limits ASTM D4318
   Laboratory I.D. #34505 – 34543 — 39 Each

All requested tests have been completed on the previously received sample(s) for the above project. All sample remains are scheduled to be disposed of on **12/8/2017**. Please notify PW Laboratories, Inc. by letter or telephone prior to **12/8/2017** if you would prefer to pick up the sample(s) or that the sample(s) be retained by PW Laboratories, Inc. for an additional period.

Thank you for this opportunity to work with you.

PW LABORATORIES, INC.

Patrick J. Edmiston
Laboratory Manager
PJE/BLL

PW Laboratories, Inc.
6544 Fremont Road - East Syracuse, New York 13057
Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

November 8, 2017

L-17008
Laboratory Testing
National Grid - North Albany, NY
Arcadis Project #B0036648.1401

Natural Moisture Content ASTM D2216

Laboratory I.D.#	Sample I.D.	Depth (Feet)	Moisture Content as a Percent of Dry Weight
34505	GT-1	5 - 7	11.2
34506	GT-1	9 - 11	16.7
34507	GT-1	13 - 15	6.7
34508	GT-1	19 - 20	9.0
34509	GT-2	5 - 7	13.7
34510	GT-2	9 - 11	10.6
34511	GT-2	17 - 19	10.8
34512	GT-3	5 - 7	10.8
34513	GT-3	11 - 13	9.3
34514	GT-4	5 - 7	15.0
34515	GT-4	11 - 13	11.8
34516	GT-5	5 - 7	25.3
34517	GT-5	7 - 9	17.3
34518	GT-5	11 - 13	25.3
34519	GT-5	17 - 19	14.7
34520	GT-5	21 - 23	8.7
34521	GT-6	5 - 7	19.9
34522	GT-6	9 - 11	21.2
34523	GT-6	15 - 17	9.0
34524	GT-7	5 - 7	6.9
34525	GT-7	14 - 16	12.2
34526	GT-7	24 - 26	8.0
34527	GT-8	9 - 11	29.0
34528	GT-8	18 - 20	10.5
34529	GT-9	9 - 10	36.0
34530	GT-9	12 - 13	13.9
34531	GT-9	17 - 19	9.6
34532	GT-9	19 - 23	10.3
34533	GT-10	11.4 - 12	22.0
34534	GT-10	17 - 19	10.9
34535	GT-11	9 - 11	39.9
34536	GT-11	19 - 21	8.5
34537	GT-13	7 - 9	37.5
34538	GT-13	17 - 19	9.1
34539	GT-14	6.5 - 8	27.5
34540	GT-14	15 - 17	11.6
34541	GT-14	19 - 21	10.4
34542	GT-15	23 - 25	11.1
34543	GT-16	17 - 19	10.8

PW Laboratories, Inc.
6544 Fremont Road - East Syracuse, New York 13057
Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

Sieve Analysis of Soil / Aggregate

Project Title: Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

Project #: L-17008
Test Method: ASTM D422 & D1140

Report #: 1
Report Date: November 8, 2017

			Sieve Size - Percent Passing Sieve															
Lab I.D. #	Sample I.D.	Depth (Feet)	1 1/2"	1"	3/4"	1/2"	3/8"	1/4"	#4	#10	#30	#40	#60	#100	#200			
34505	GT-1	5 - 7	--	100	76.5	76.5	76.5	76.5	75.8	74.5	61.1	43.1	18.3	8.2	0.5			
34506	GT-1	9 - 11	--	--	100	97.6	95.5	87.3	82.0	63.7	30.1	23.3	16.2	13.5	9.5			
34507	GT-1	13 - 15	--	100	84.5	76.5	71.5	60.8	55.7	44.2	27.9	23.8	19.3	17.1	13.2			
34508	GT-1	19 - 20	--	--	100	98.5	95.5	90.0	85.4	67.4	39.3	33.2	24.1	19.0	11.1			
34509	GT-2	5 - 7	--	--	100	95.7	95.7	95.0	94.7	93.9	91.1	88.0	87.4	67.1	40.1			
34510	GT-2	9 - 11	--	100	86.5	86.5	86.0	85.6	85.4	83.2	76.9	72.1	60.7	48.6	34.1			
34511	GT-2	17 - 19	--	--	--	--	100	98.4	98.1	92.9	83.9	80.5	75.2	74.9	61.5			
34512	GT-3	5 - 7	--	--	100	98.9	97.3	90.3	87.9	78.4	65.8	61.6	54.8	50.3	42.0			
34513	GT-3	11 - 13	100	92.1	92.1	87.2	85.8	83.4	80.1	72.9	61.6	57.8	50.4	43.4	35.5			
34514	GT-4	5 - 7	--	--	100	82.6	78.9	72.5	68.6	58.1	41.1	36.4	29.2	24.0	19.3			
34515	GT-4	11 - 13	--	100	95.1	92.5	92.5	88.1	86.5	80.2	72.2	69.4	62.6	59.2	48.2			
34516	GT-5	5 - 7	--	--	100	96.4	95.6	88.1	82.3	59.4	27.6	21.2	13.7	13.1	6.1			
34517	GT-5	7 - 9	--	--	100	98.2	95.7	87.6	82.8	66.8	47.6	41.5	32.0	26.1	18.7			
34518	GT-5	11 - 13	--	--	100	98.2	94.8	89.0	84.3	66.1	35.9	29.7	23.7	23.1	16.8			
34519	GT-5	17 - 19	--	100	92.2	84.7	82.8	73.1	69.0	57.5	45.6	41.6	39.5	31.8	16.3			
34520	GT-5	21 - 23	--	--	--	100	96.7	84.9	76.8	58.4	39.2	35.0	29.8	29.4	21.9			

Sample mass, as received, meets minimum mass requirements of test method: **Yes** X **No** ____

Performed By: M.S. **Checked By:** Patrick Edmiston

Remarks:

Prewashed

Entire Sample **X**

Mass Retained on #200 Only ____

Not Prewashed: ____

PW Laboratories, Inc.
6544 Fremont Road - East Syracuse, New York 13057
Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

Sieve Analysis of Soil / Aggregate

Project Title: Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

Project #: L-17008
Test Method: ASTM D422 & D1140

Report #: 1
Report Date: November 8, 2017

			Sieve Size - Percent Passing Sieve															
Lab I.D. #	**Sample I.D.**	**Depth (Feet)**	**1 1/2"**	**1"**	**3/4"**	**1/2"**	**3/8"**	**1/4"**	**#4**	**#10**	**#30**	**#40**	**#60**	**#100**	**#200**			
34521	GT-6	5 - 7	--	--	--	100	98.2	94.8	92.7	83.4	55.1	45.5	34.7	33.3	24.8			
34522	GT-6	9 - 11	100	89.5	89.5	78.2	75.2	70.0	66.8	54.6	37.8	33.1	26.6	24.0	15.5			
34523	GT-6	15 - 17	100	53.9	53.9	49.9	48.3	45.8	44.4	38.0	29.9	27.1	21.7	16.4	11.3			
34524	GT-7	5 - 7	--	--	100	89.8	88.6	83.3	73.4	56.5	39.5	34.8	27.5	21.8	16.0			
34525	GT-7	14 - 16	--	--	100	95.6	94.4	88.7	73.0	43.7	24.7	20.1	14.2	10.6	7.4			
34526	GT-7	24 - 26	--	100	92.9	91.5	87.3	79.3	74.7	64.0	63.9	50.8	44.8	38.8	31.3			
34527	GT-8	9 - 11	--	--	100	95.1	82.7	74.0	67.1	50.0	28.9	24.4	18.5	14.2	9.6			
34528	GT-8	18 - 20	--	100	94.3	89.3	84.7	77.5	73.7	62.7	49.8	46.0	39.1	33.6	25.9			
34529	GT-9	9 - 10	--	--	--	100	99.4	98.9	98.6	97.0	89.3	86.6	82.8	80.0	76.5			
34530	GT-9	12 - 13	--	100	85.1	85.1	83.2	81.8	78.8	66.9	40.8	33.3	25.1	22.0	16.2			
34531	GT-9	17 - 19	--	--	100	96.1	92.6	85.2	79.6	67.6	52.9	48.5	40.4	32.5	23.5			
34532	GT-9	19 - 23	--	--	100	80.6	71.1	62.1	57.7	44.6	28.9	25.2	20.9	17.6	14.1			
34533	GT-10	11.4 - 12	--	--	--	100	98.7	95.5	92.8	86.1	73.0	67.5	61.5	57.8	53.4			
34534	GT-10	17 - 19	--	100	94.0	84.2	81.3	75.7	70.4	56.4	40.4	36.1	29.6	24.0	8.0			
34535	GT-11	9 - 11	--	--	--	--	--	--	--	100	98.9	97.2	93.5	87.7	73.4			
34536	GT-11	19 - 21	100	88.8	88.8	74.6	71.4	62.5	57.3	43.7	28.2	24.8	20.7	17.9	15.0			

Sample mass, as received, meets minimum mass requirements of test method: **Yes** X **No** ____

Performed By: M.S. **Checked By:** Patrick Edmiston

Remarks:

Prewashed

Entire Sample **X**

Mass Retained on #200 Only ____

Not Prewashed: ____

PW Laboratories, Inc.
6544 Fremont Road - East Syracuse, New York 13057
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Sieve Analysis of Soil / Aggregate

Project Title: Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

Project #: L-17008
Test Method: ASTM D422 & D1140

Report #: 1
Report Date: November 8, 2017

			Sieve Size - Percent Passing Sieve																
Lab I.D. #	**Sample I.D.**	**Depth (Feet)**	**1 1/2"**	**1"**	**3/4"**	**1/2"**	**3/8"**	**1/4"**	**#4**	**#10**	**#30**	**#40**	**#60**	**#100**	**#200**				
34537	GT-13	7 - 9	--	--	--	--	--	100	99.8	98.4	94.6	92.9	89.7	86.1	79.4				
34538	GT-13	17 - 19	--	100	97.5	94.4	89.2	81.4	75.1	59.9	43.0	39.2	33.4	31.6	22.9				
34539	GT-14	6.5 - 8	--	--	100	98.2	97.9	97.1	95.9	89.9	77.8	72.3	59.9	45.3	24.7				
34540	GT-14	15 - 17	100	90.7	79.3	71.3	66.5	59.7	56.1	45.7	31.3	27.6	23.2	20.0	16.0				
34541	GT-14	19 - 21	--	100	81.2	81.2	78.6	70.9	67.4	58.0	45.4	39.7	28.6	23.0	17.1				
34542	GT-15	23 - 24	--	100	90.9	86.5	79.9	70.1	63.3	45.2	28.9	25.5	21.4	19.5	15.7				
34543	GT-16	17 - 19	--	100	89.6	78.2	73.8	66.0	61.6	45.9	29.9	26.2	21.6	19.6	15.0				

Sample mass, as received, meets minimum mass requirements of test method: **Yes** X **No** _____

Performed By: M.S. **Checked By:** Patrick Edmiston

Remarks:

Prewashed

Entire Sample **X**

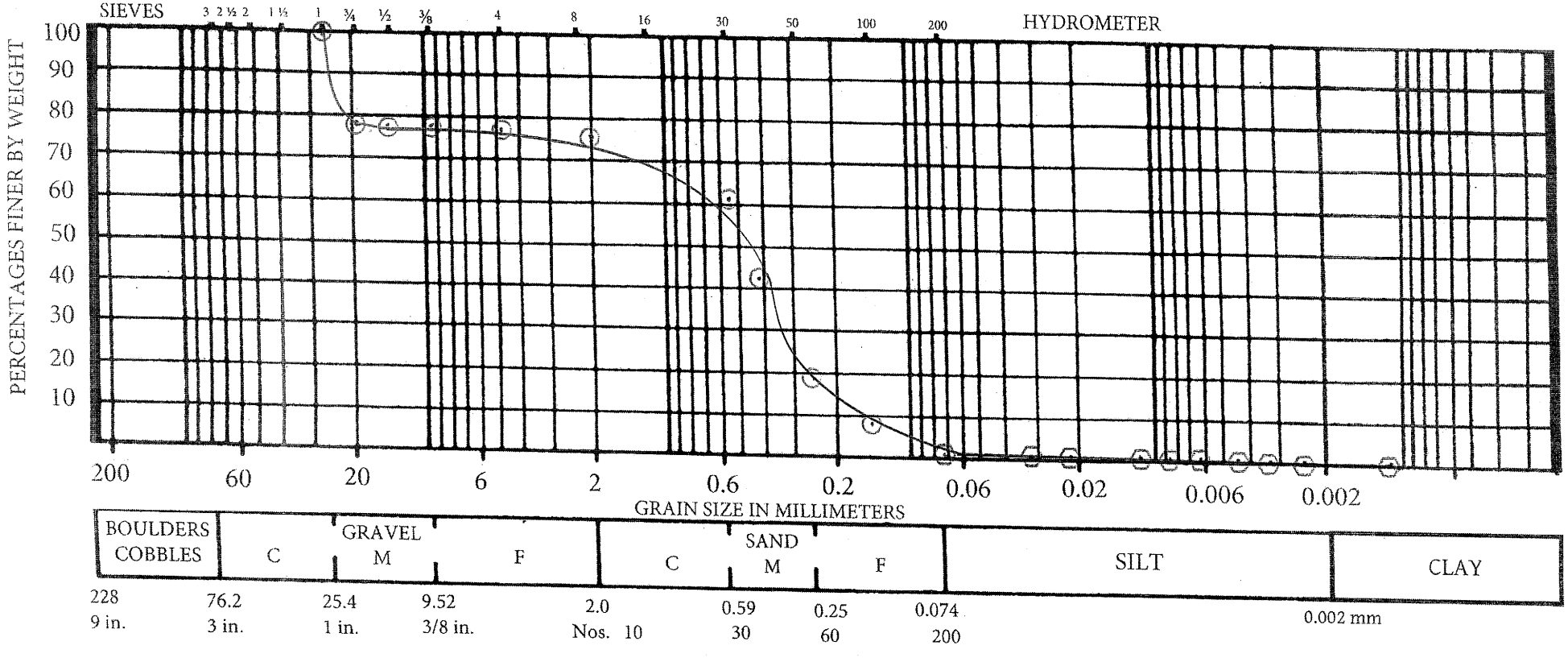
Mass Retained on #200 Only _____

Not Prewashed: _____

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Project #:	L-17008
Report #:	1
Date:	November 8, 2017

Grain Size Analysis



L-17008
Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

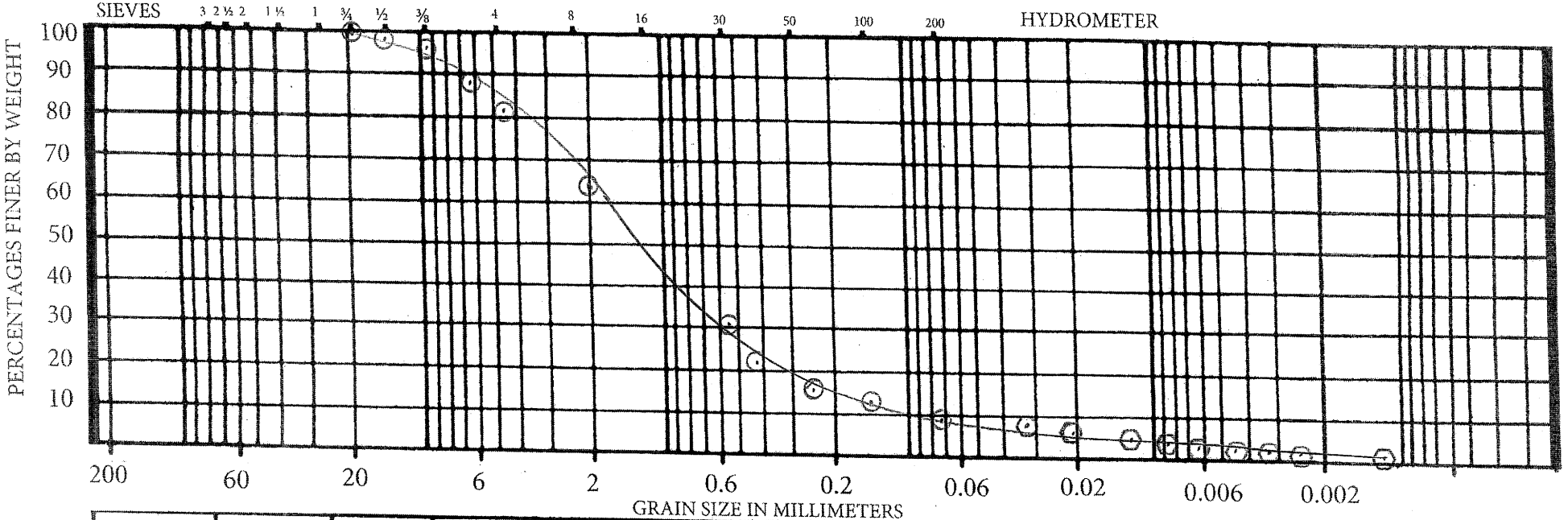
Lab I.D. #: 34505
Sample I.D.: GT-1
Depth (Feet): 5 - 7

Sieve Analysis ASTM D422 & D1140
Hydrometer Analysis ASTM D422

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Project #:	L-17008
Report #:	2
Date:	November 8, 2017

Grain Size Analysis

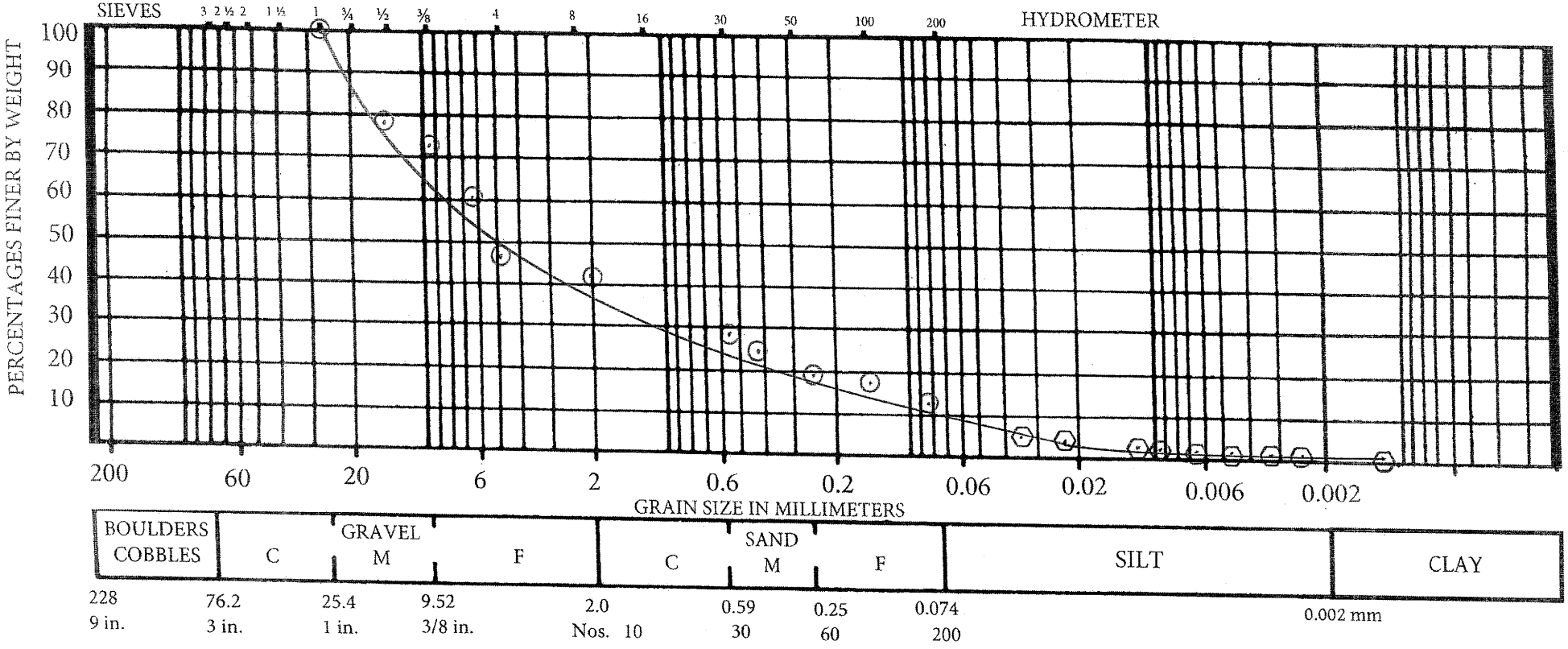


L-17008	**Lab I.D. #:** 34506
Laboratory Testing	**Sample I.D.:** GT-1
National Grid	**Depth (Feet):** 9 - 11
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	3
Date:	November 8, 2017

Grain Size Analysis

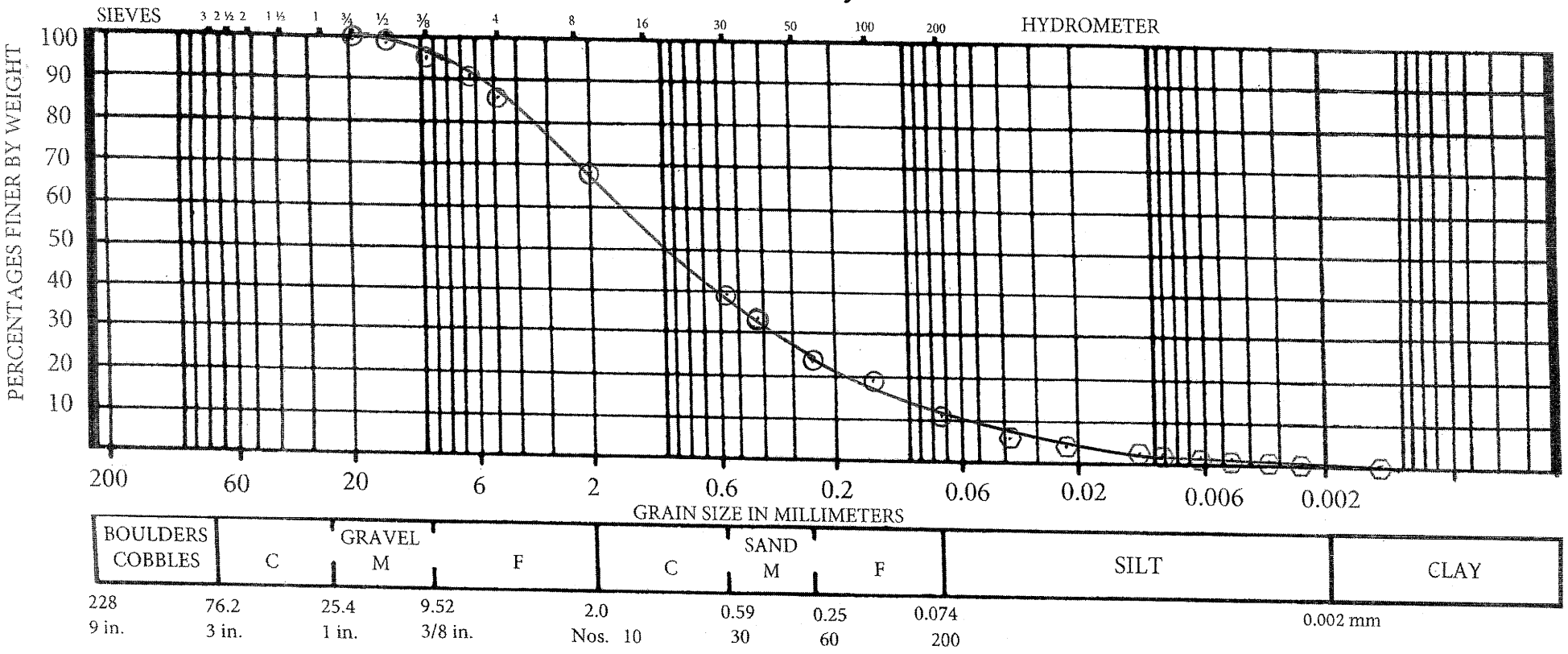


L-17008	**Lab I.D. #:** 34507
Laboratory Testing	**Sample I.D.:** GT-1
National Grid	**Depth (Feet):** 13 - 15
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 4
Date: November 8, 2017

Grain Size Analysis

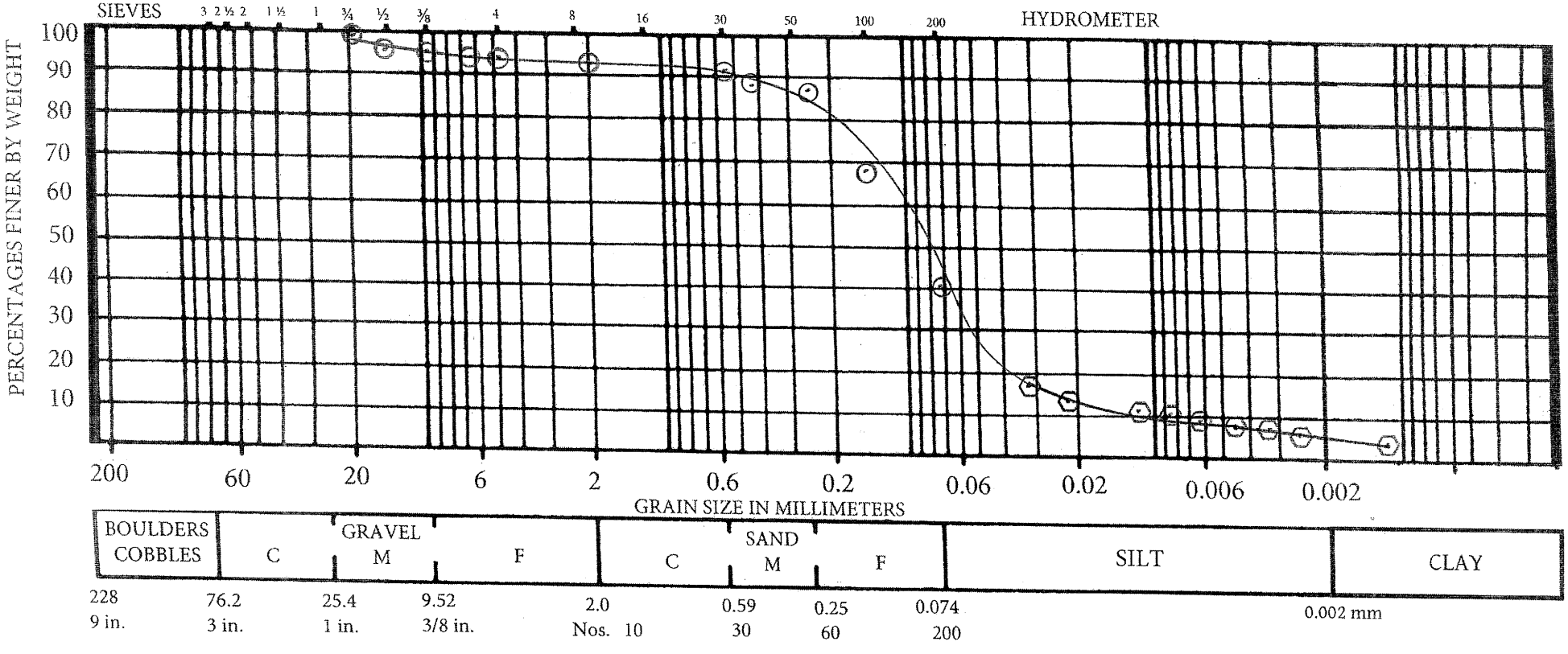


L-17008	**Lab I.D. #:** 34508
Laboratory Testing	**Sample I.D.:** GT-1
National Grid	**Depth (Feet):** 19 - 20
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 5
Date: November 8, 2017

Grain Size Analysis

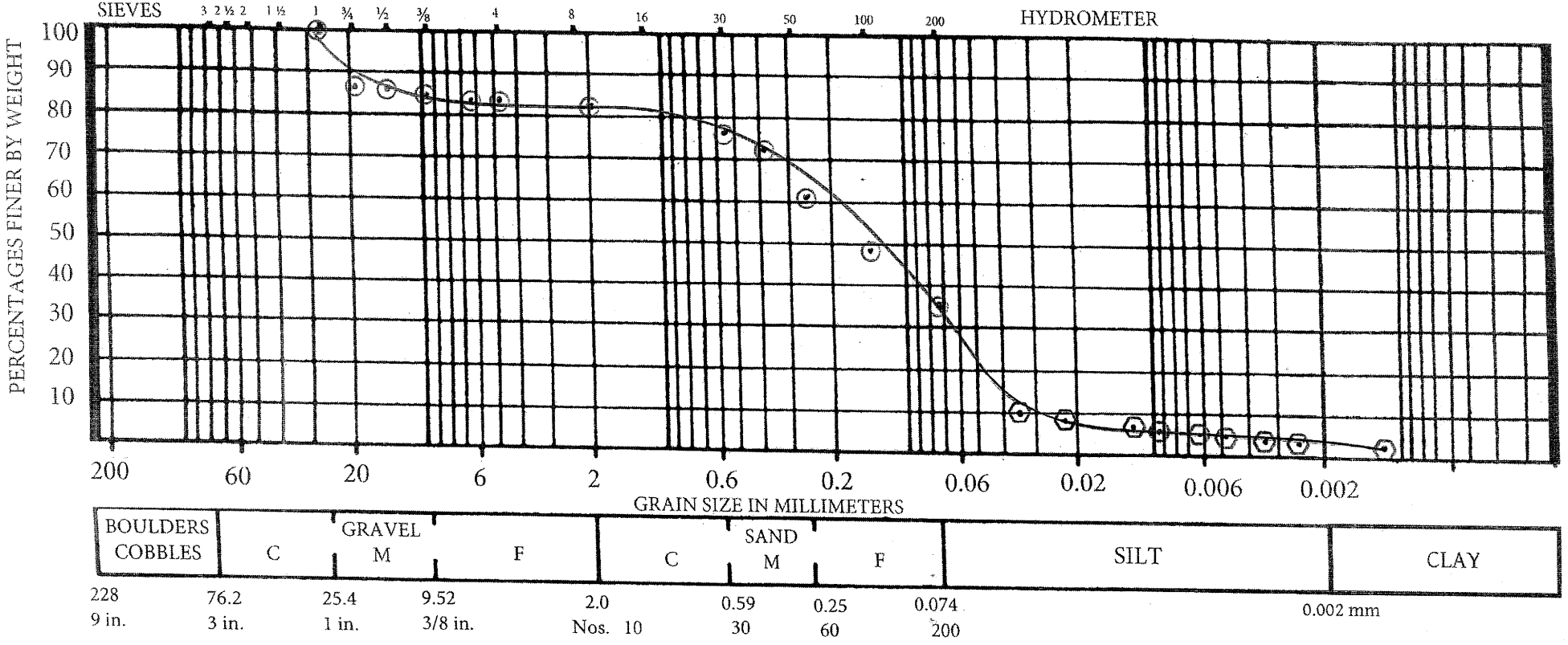


L-17008	**Lab I.D. #:** 34509
Laboratory Testing	**Sample I.D.:** GT-2
National Grid	**Depth (Feet):** 5 - 7
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 6
Date: November 8, 2017

Grain Size Analysis

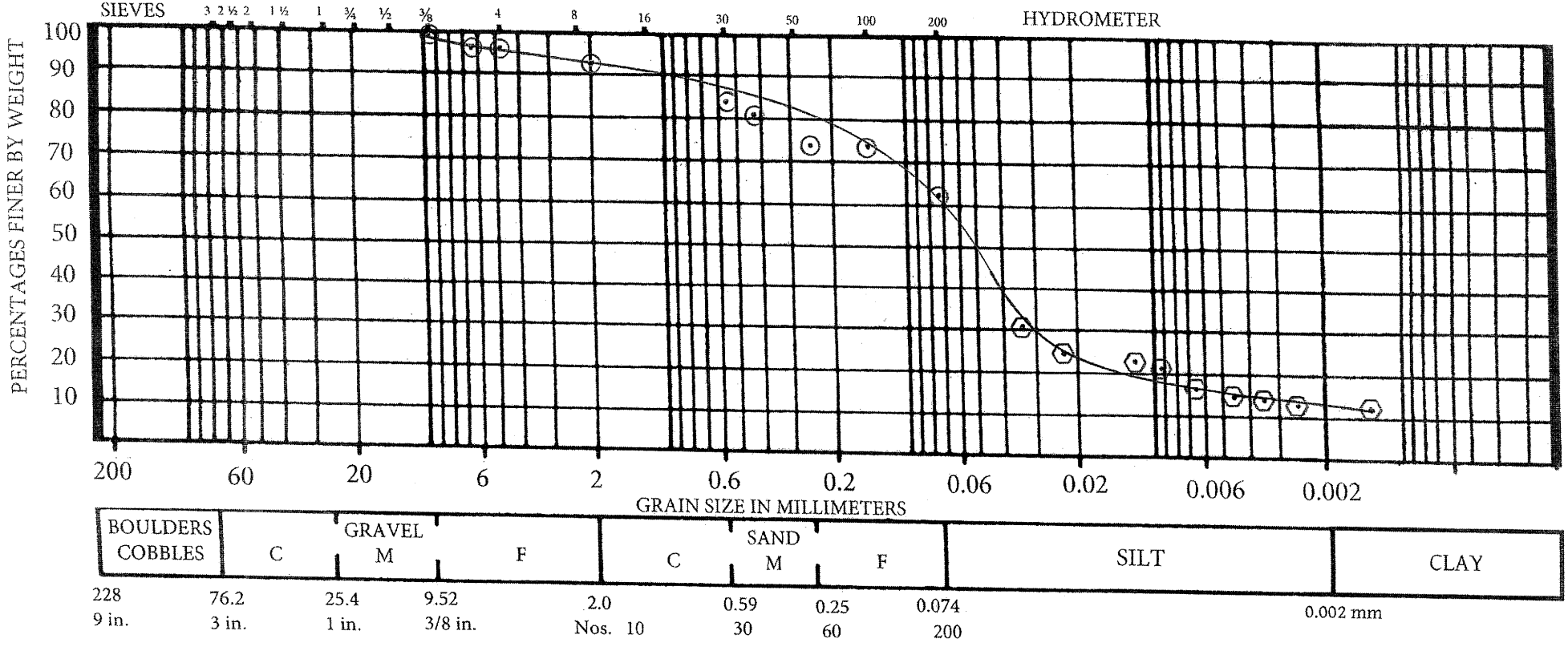


L-17008	**Lab I.D. #:** 34510
Laboratory Testing	**Sample I.D.:** GT-2
National Grid	**Depth (Feet):** 9 - 11
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 7
Date: November 8, 2017

Grain Size Analysis

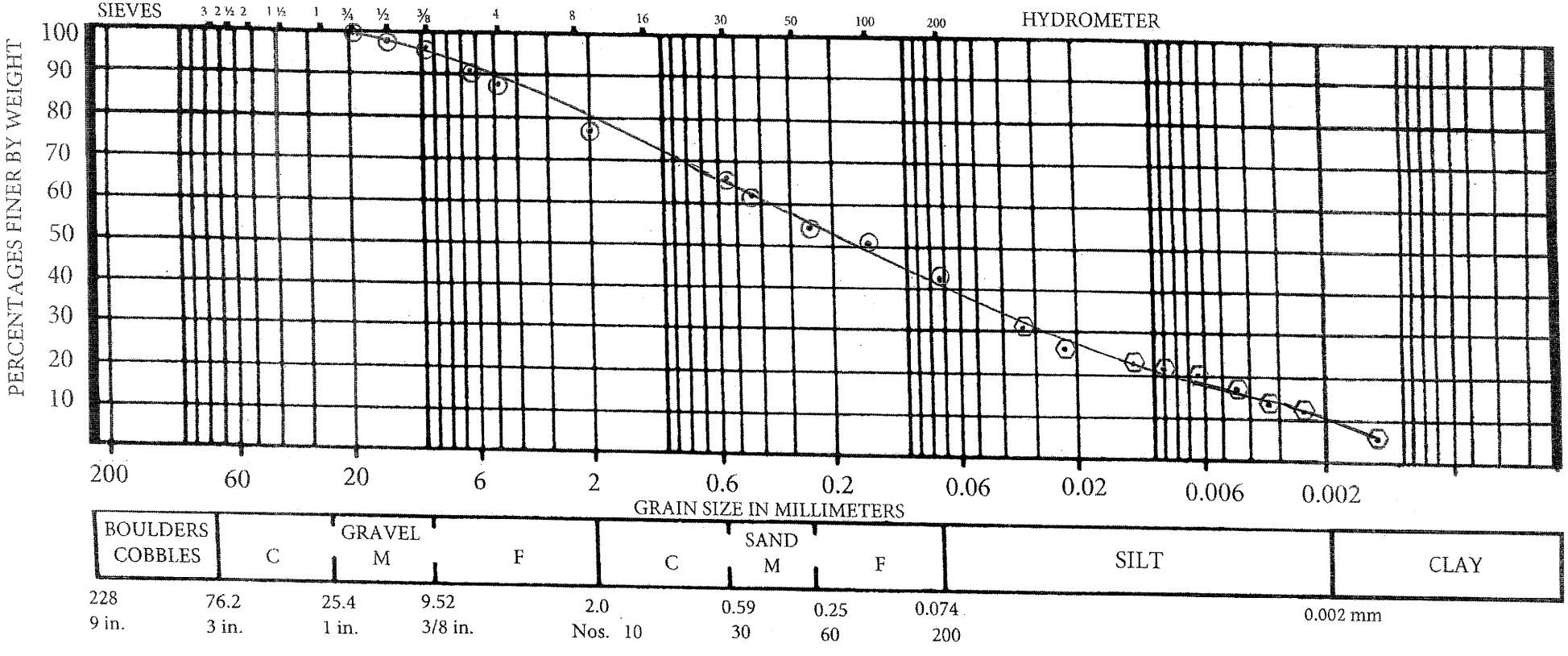


L-17008	**Lab I.D. #:** 34511
Laboratory Testing	**Sample I.D.:** GT-2
National Grid	**Depth (Feet):** 17 - 19
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 8
Date: November 8, 2017

Grain Size Analysis

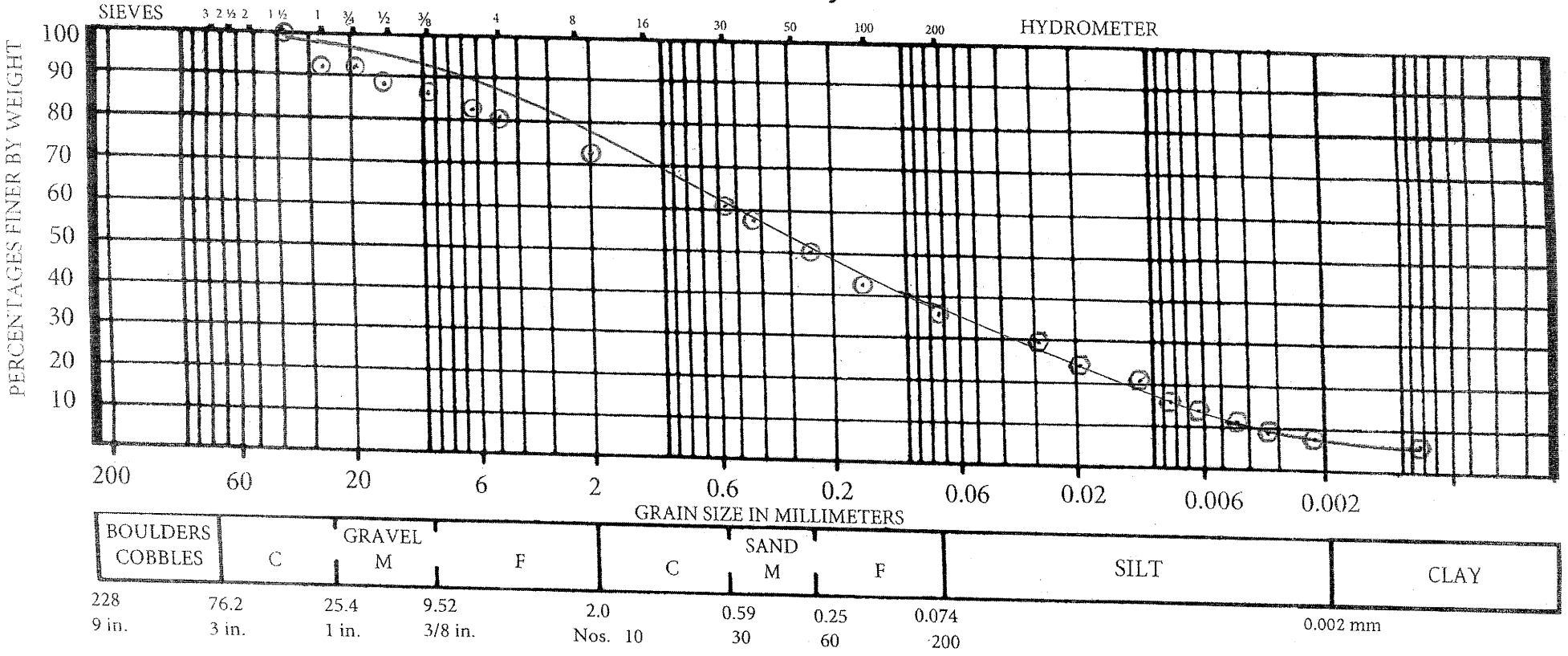


L-17008	**Lab I.D. #:** 34512
Laboratory Testing	**Sample I.D.:** GT-3
National Grid	**Depth (Feet):** 5 - 7
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 9
Date: November 8, 2017

Grain Size Analysis

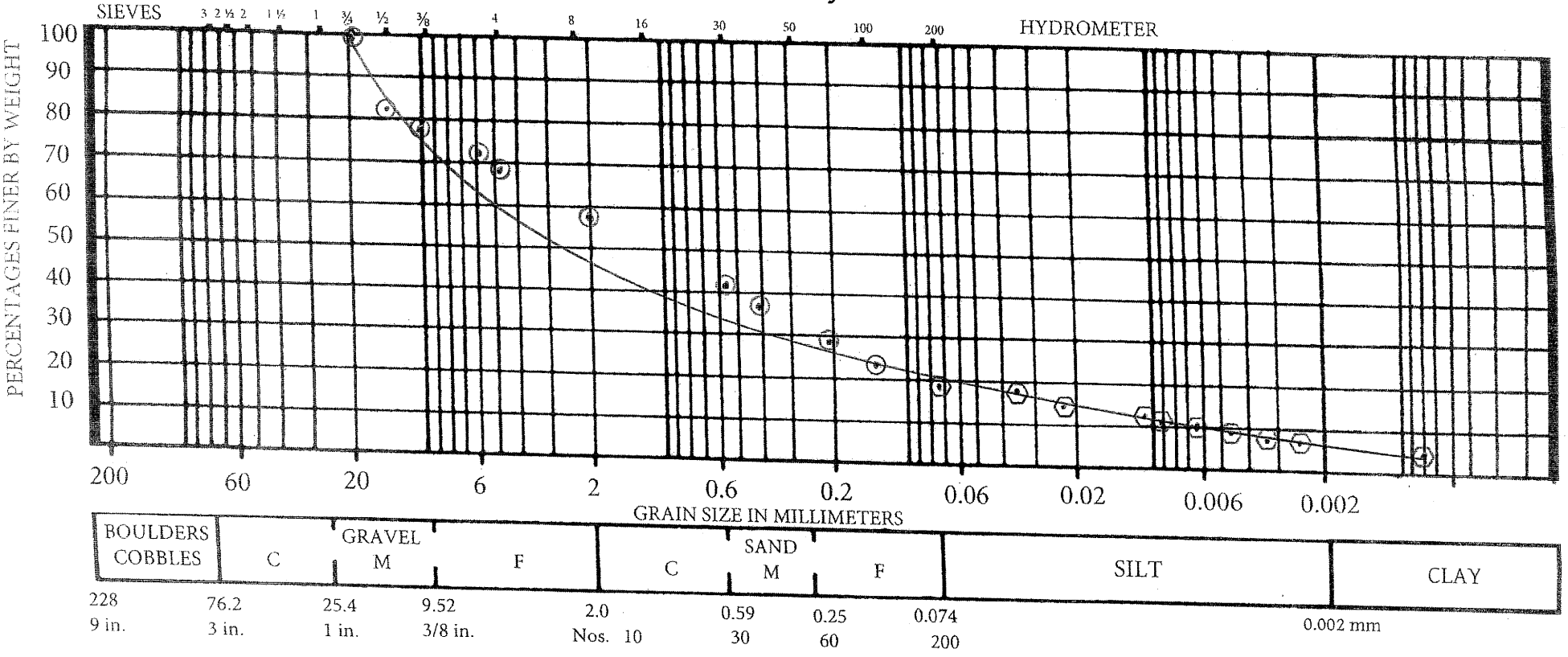


L-17008	**Lab I.D. #:** 34513
Laboratory Testing	**Sample I.D.:** GT-3
National Grid	**Depth (Feet):** 11 - 13
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	10
Date:	November 8, 2017

Grain Size Analysis

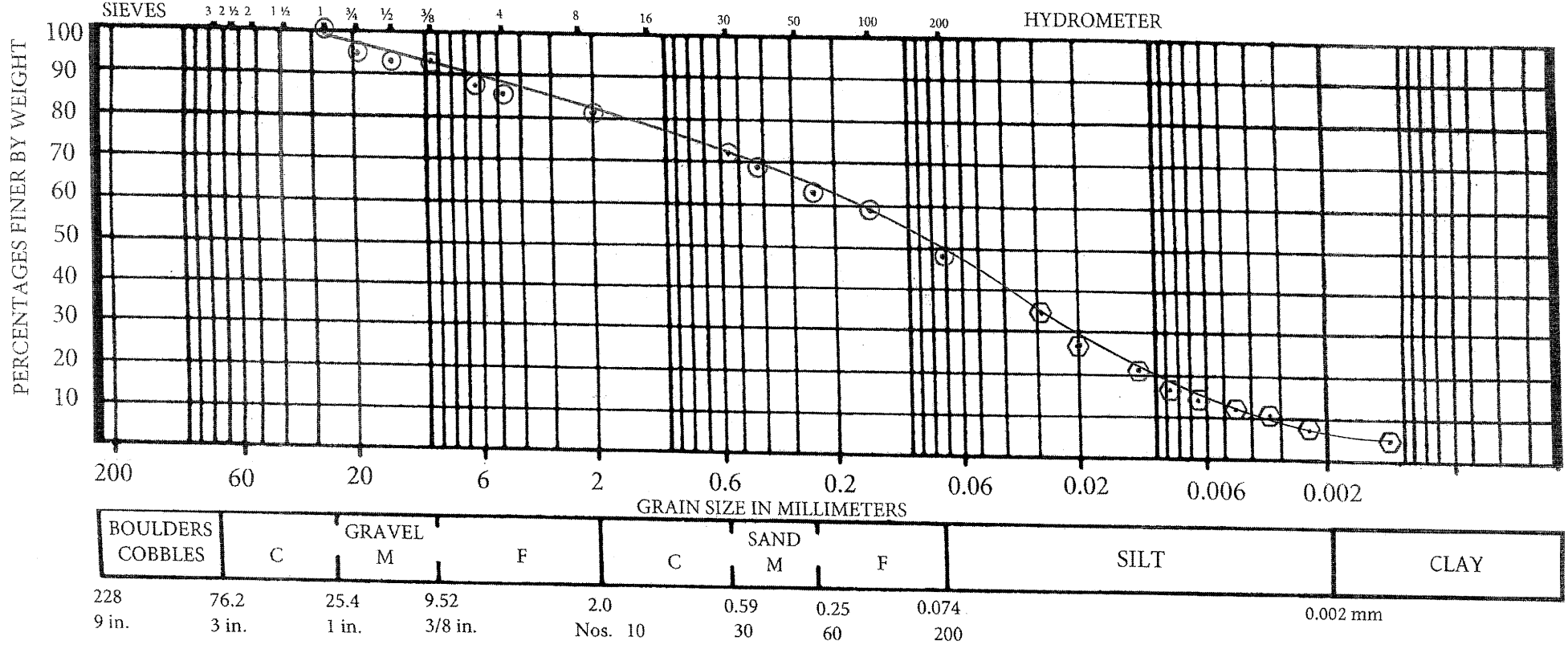


L-17008	**Lab I.D. #:** 34514
Laboratory Testing	**Sample I.D.:** GT-4
National Grid	**Depth (Feet):** 5 - 7
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	11
Date:	November 8, 2017

Grain Size Analysis

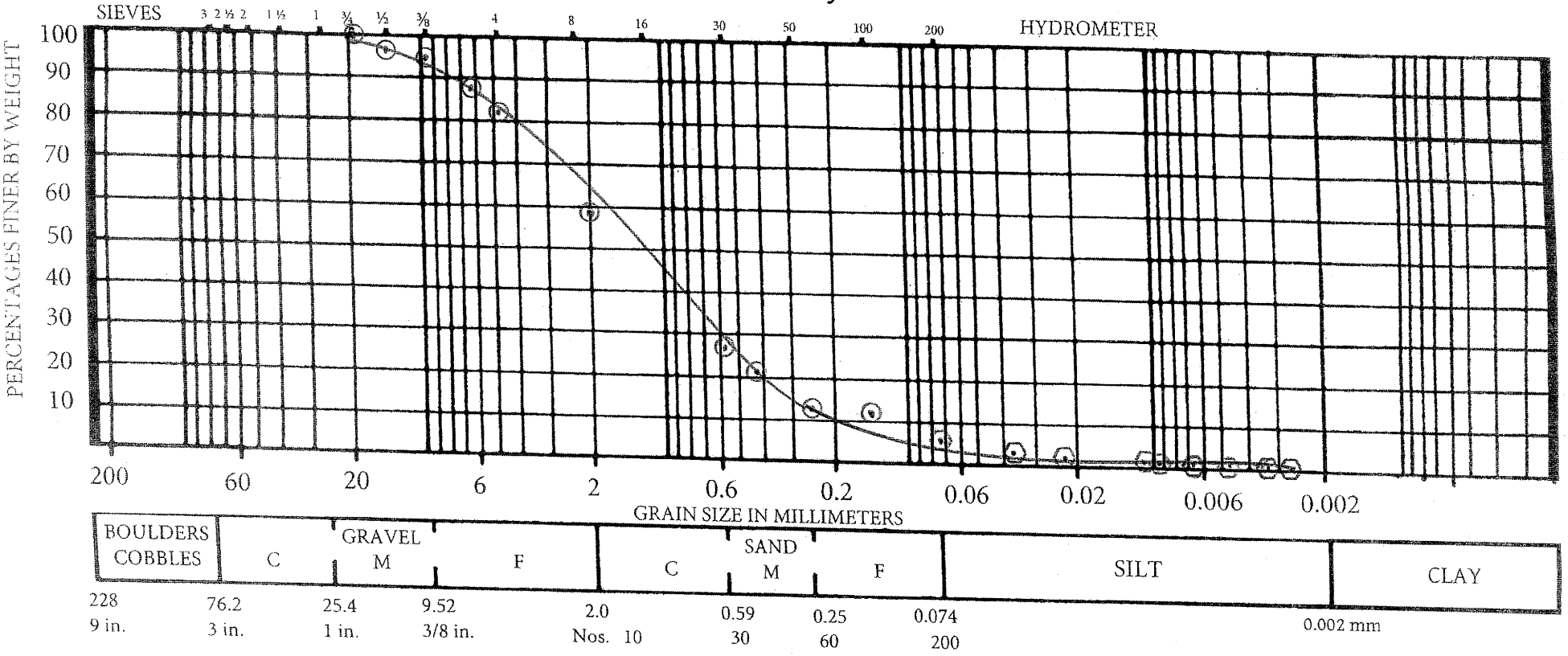


L-17008	**Lab I.D. #:** 34515
Laboratory Testing	**Sample I.D.:** GT-4
National Grid	**Depth (Feet):** 11 - 13
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	12
Date:	November 8, 2017

Grain Size Analysis

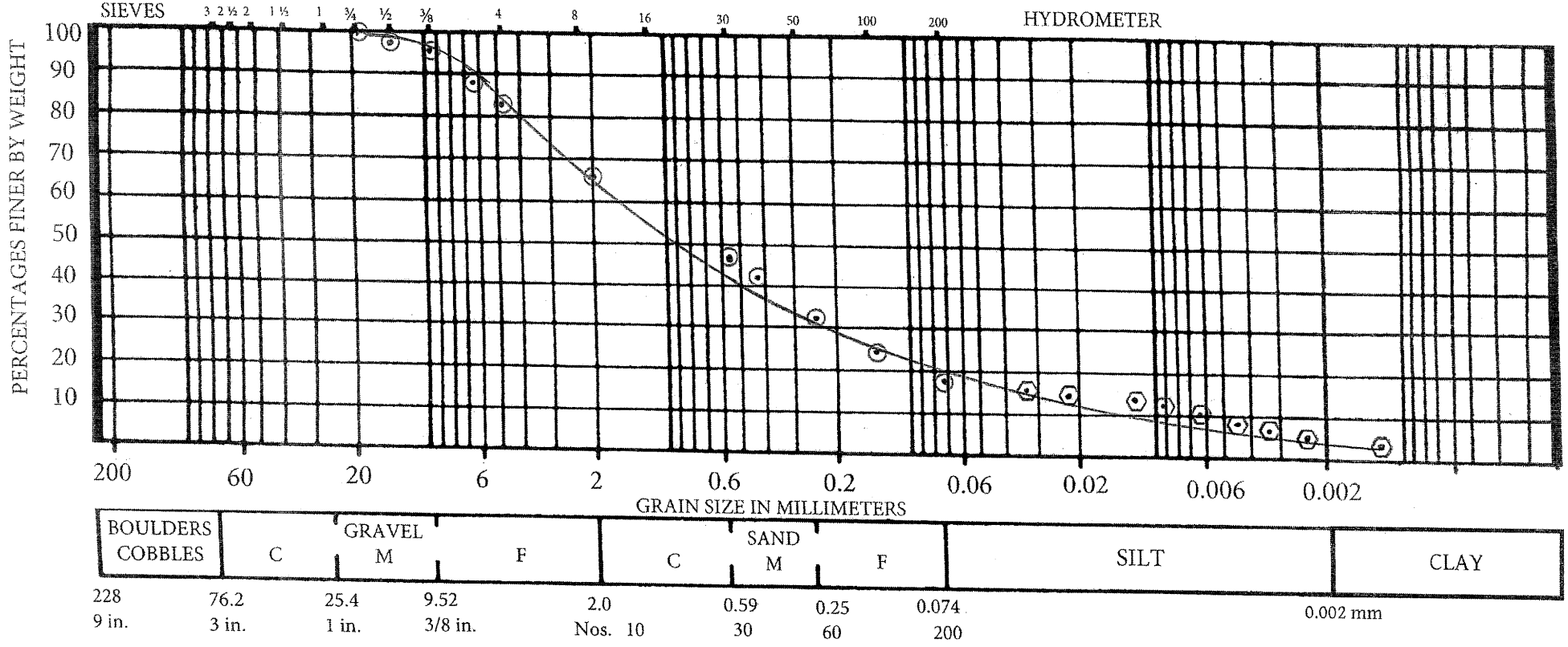


L-17008	**Lab I.D. #:** 34516
Laboratory Testing	**Sample I.D.:** GT-5
National Grid	**Depth (Feet):** 5 - 7
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 13
Date: November 8, 2017

Grain Size Analysis



L-17008
Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

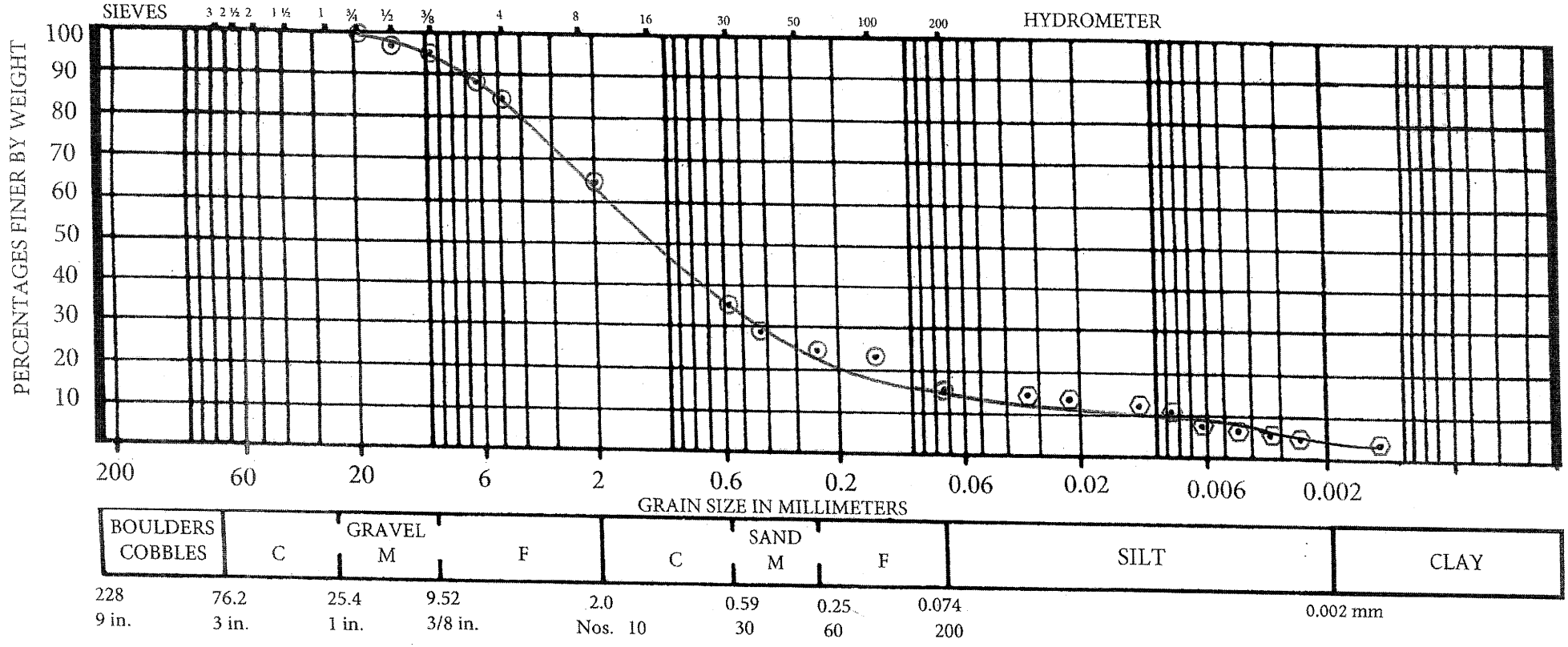
Lab I.D. #: 34517
Sample I.D.: GT-5
Depth (Feet): 7 - 9

Sieve Analysis ASTM D422 & D1140
Hydrometer Analysis ASTM D422

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Project #: L-17008
Report #: 14
Date: November 8, 2017

Grain Size Analysis

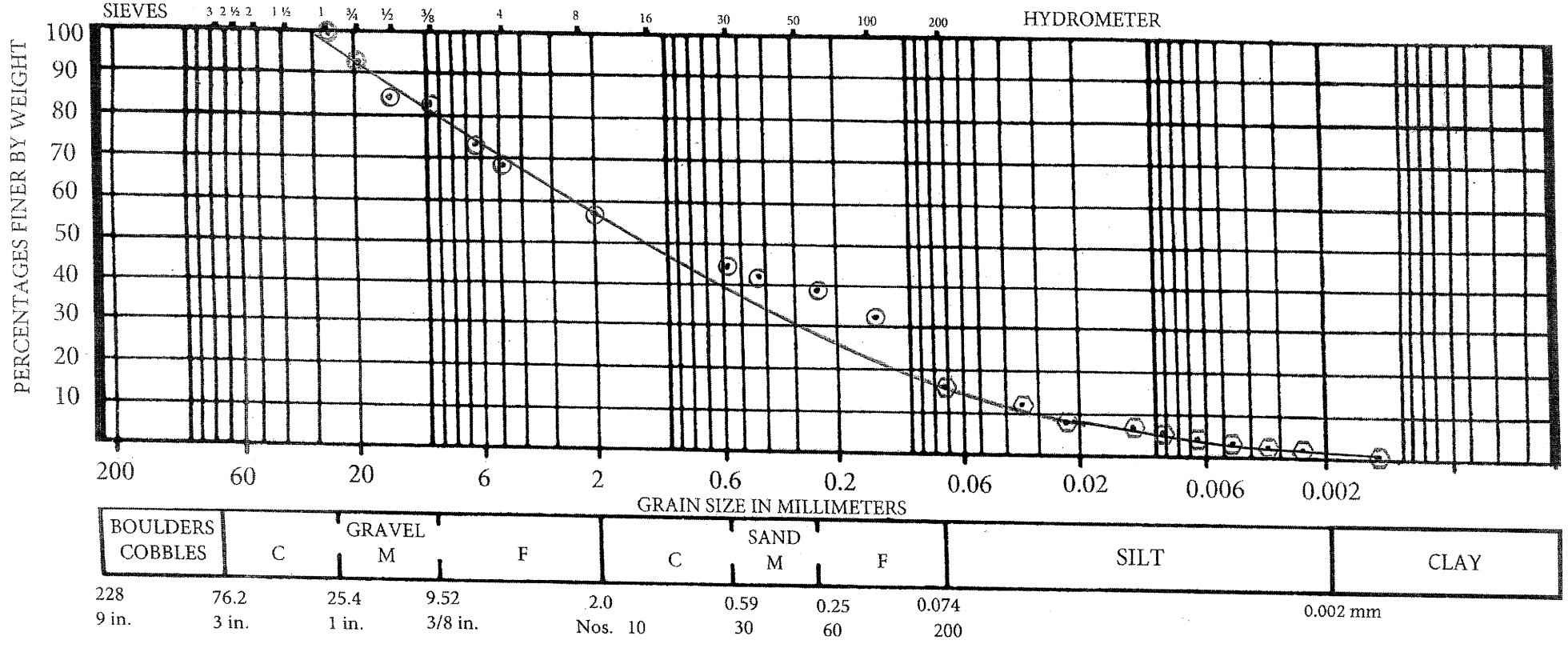


L-17008	**Lab I.D. #:** 34518
Laboratory Testing	**Sample I.D.:** GT-5
National Grid	**Depth (Feet):** 11 - 13
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	15
Date:	November 8, 2017

Grain Size Analysis

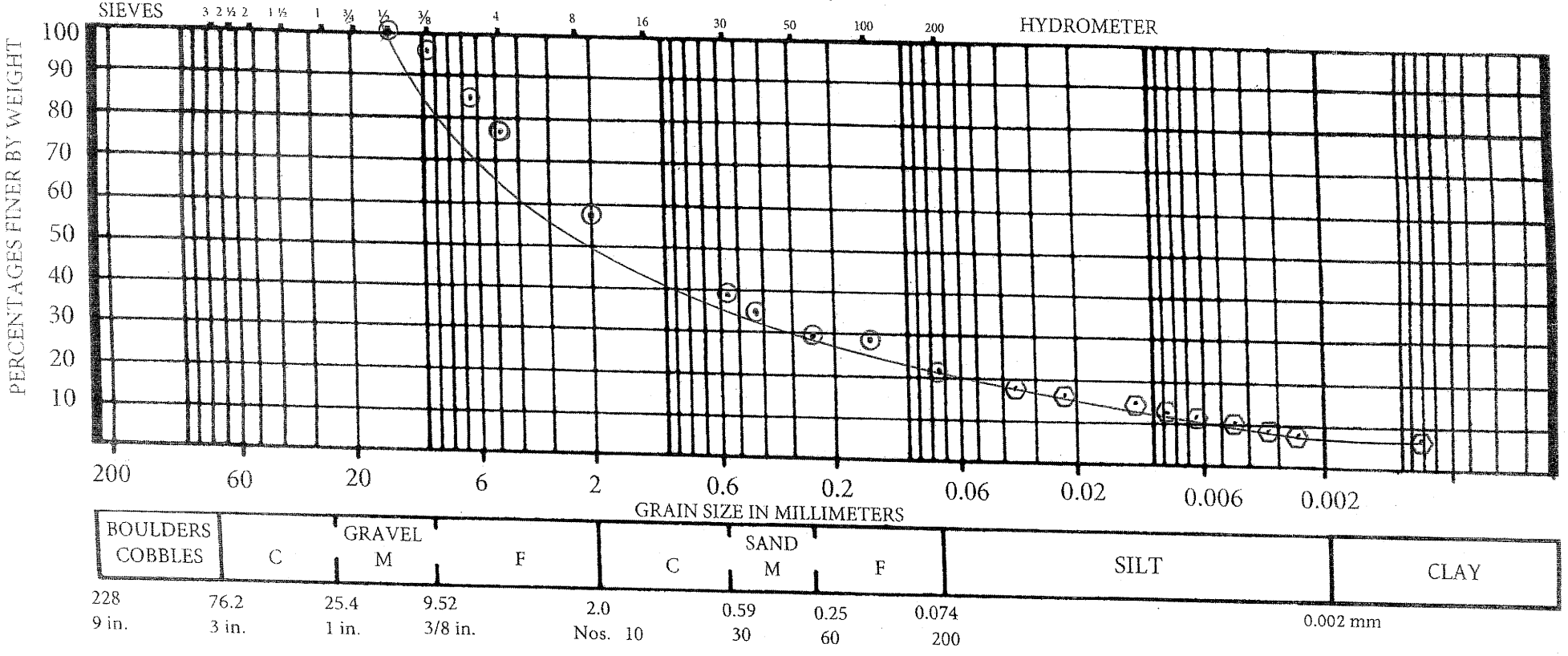


L-17008	**Lab I.D. #:** 34519
Laboratory Testing	**Sample I.D.:** GT-5
National Grid	**Depth (Feet):** 17 - 19
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 16
Date: November 8, 2017

Grain Size Analysis

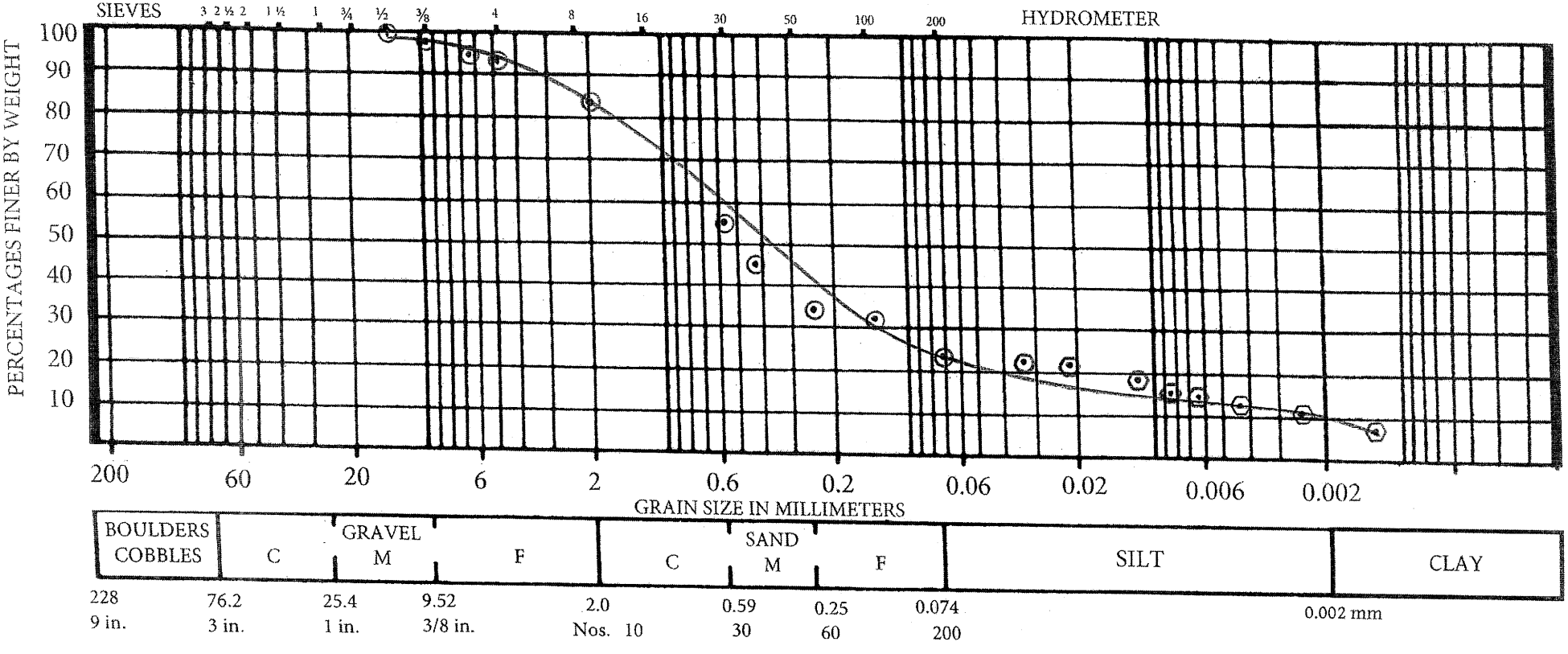


L-17008	**Lab I.D. #:** 34520
Laboratory Testing	**Sample I.D.:** GT-5
National Grid	**Depth (Feet):** 21 - 23
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 17
Date: November 8, 2017

Grain Size Analysis

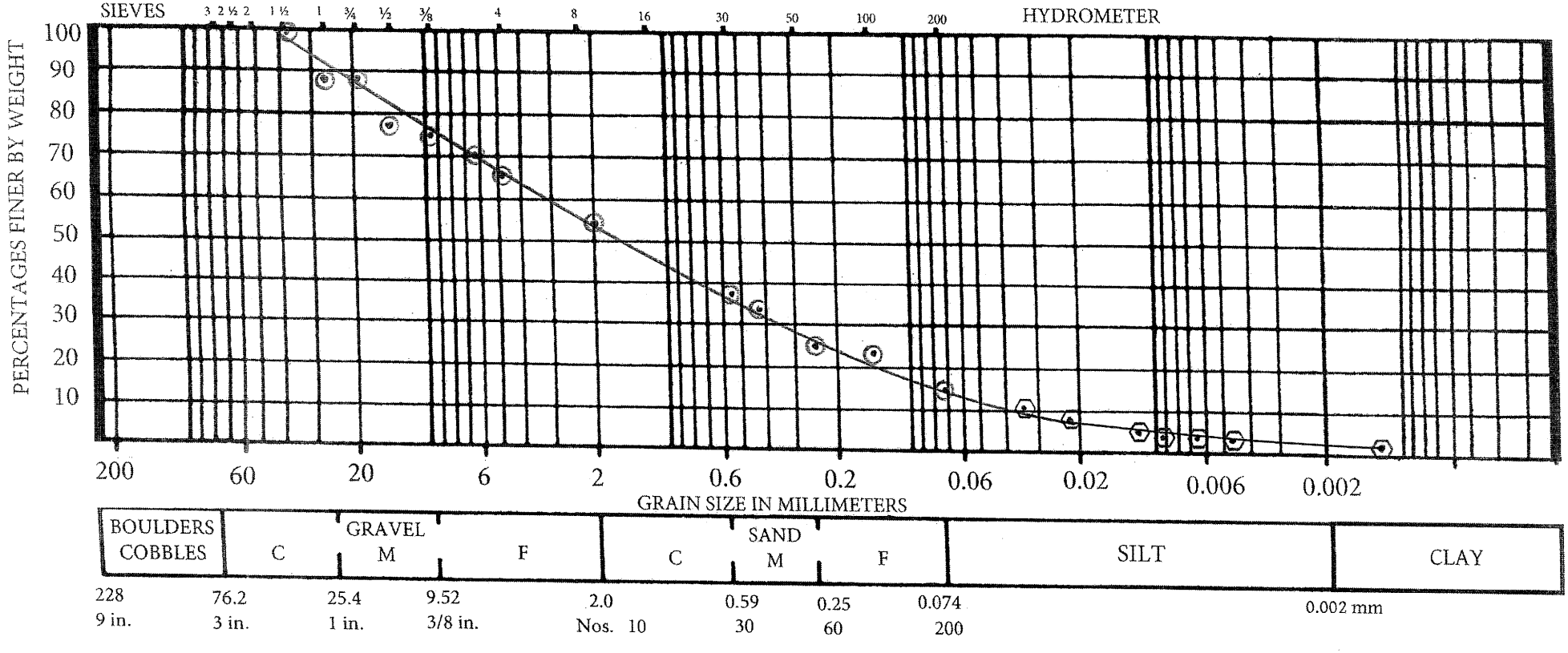


L-17008	**Lab I.D. #:** 34521
Laboratory Testing	**Sample I.D.:** GT-6
National Grid	**Depth (Feet):** 5 - 7
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	18
Date:	November 8, 2017

Grain Size Analysis

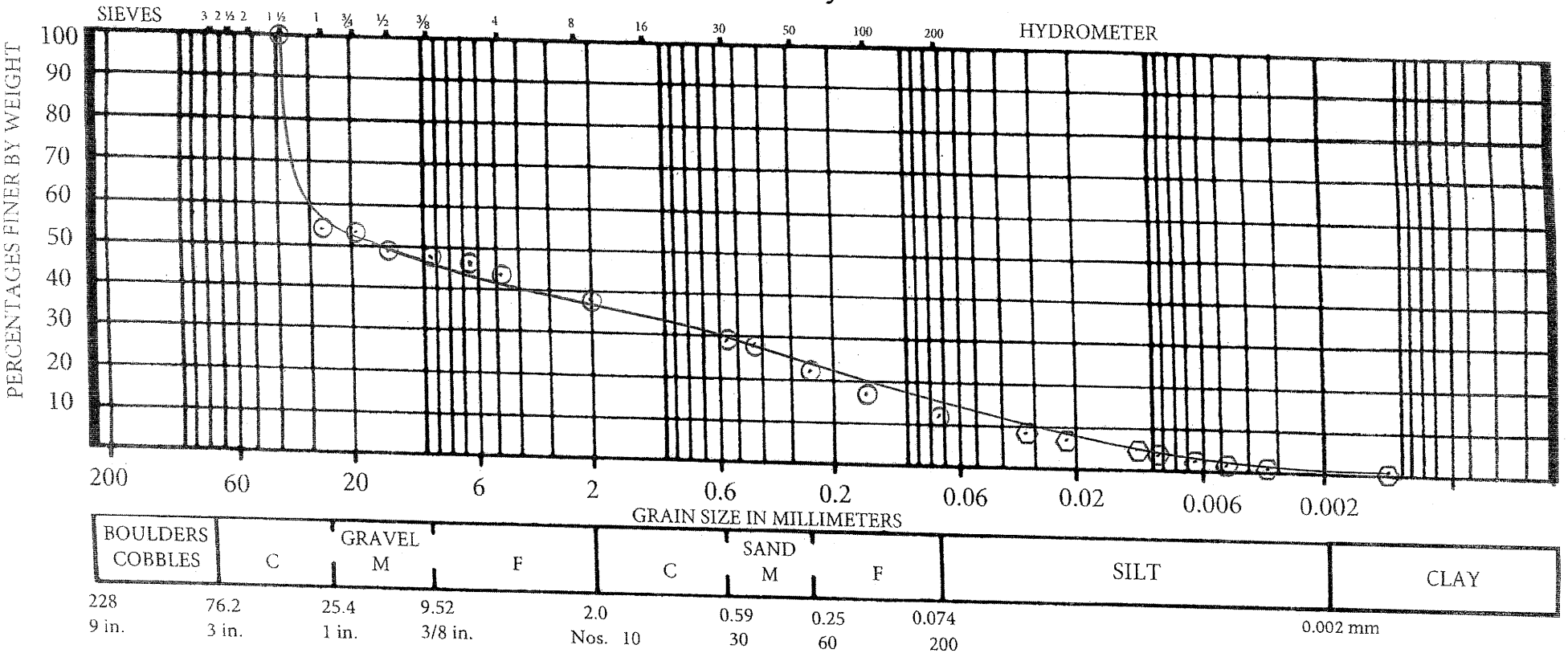


L-17008	**Lab I.D. #:** 34522
Laboratory Testing	**Sample I.D.:** GT-6
National Grid	**Depth (Feet):** 9 - 11
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 19
Date: November 8, 2017

Grain Size Analysis

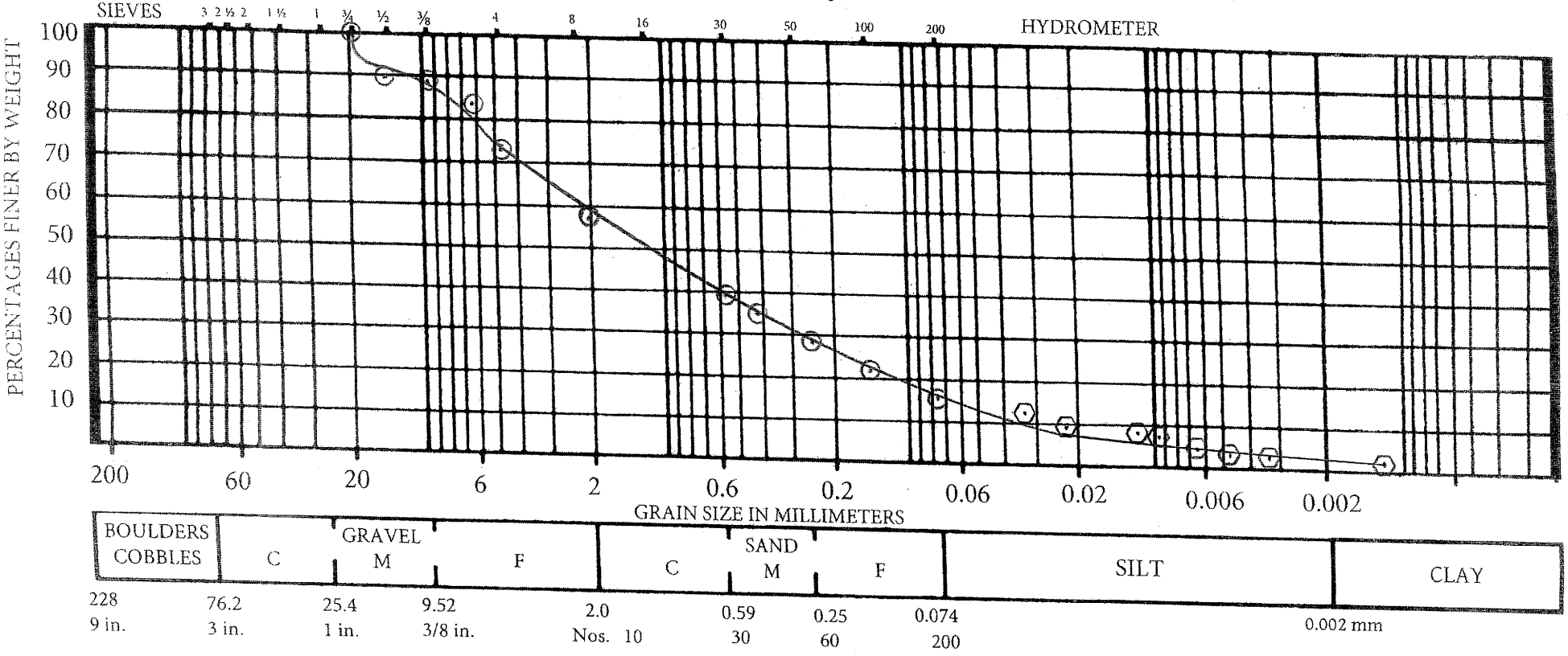


L-17008	
Laboratory Testing	**Lab I.D. #:** 34523
National Grid	**Sample I.D.:** GT-6
North Albany, NY	**Depth (Feet):** 15 - 17
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 20
Date: November 8, 2017

Grain Size Analysis



L-17008
Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

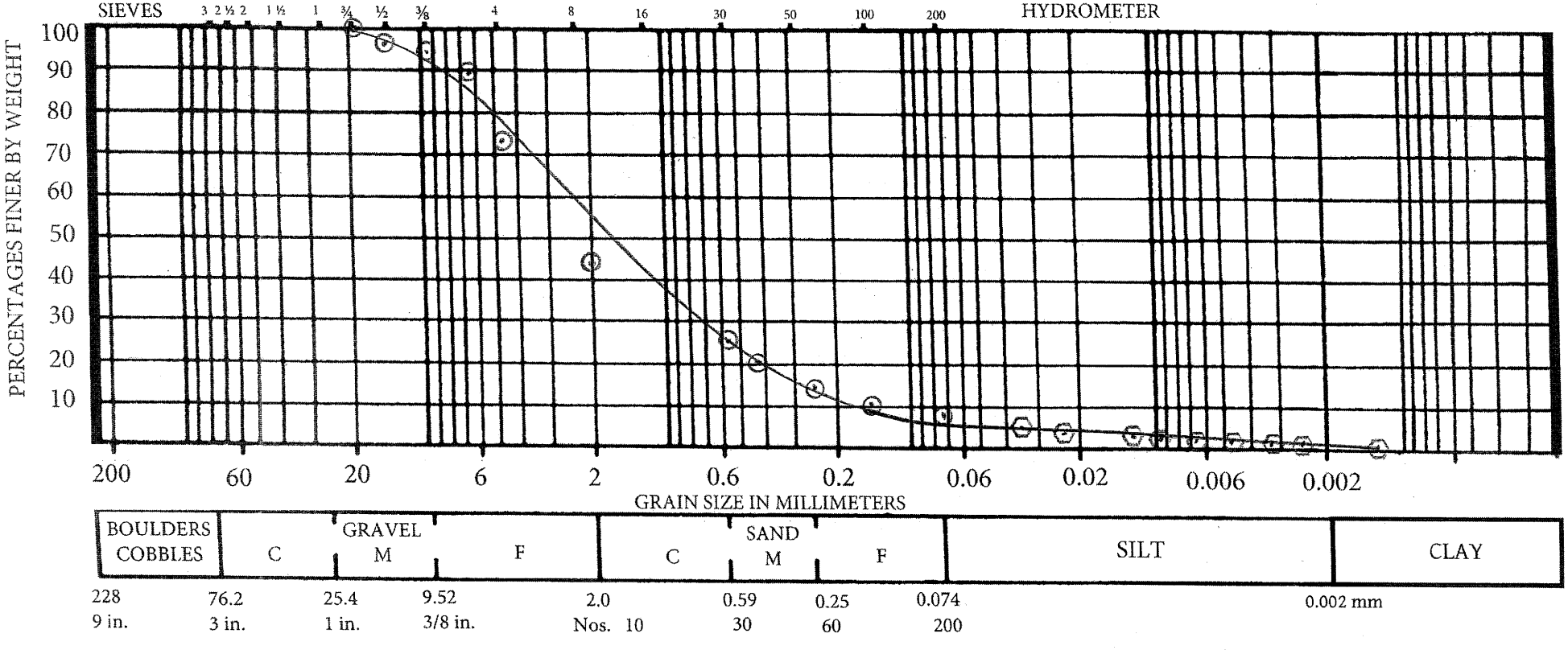
Lab I.D. #: 34524
Sample I.D.: GT-7
Depth (Feet): 5 - 7

Sieve Analysis ASTM D422 & D1140
Hydrometer Analysis ASTM D422

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Project #:	L-17008
Report #:	21
Date:	November 8, 2017

Grain Size Analysis

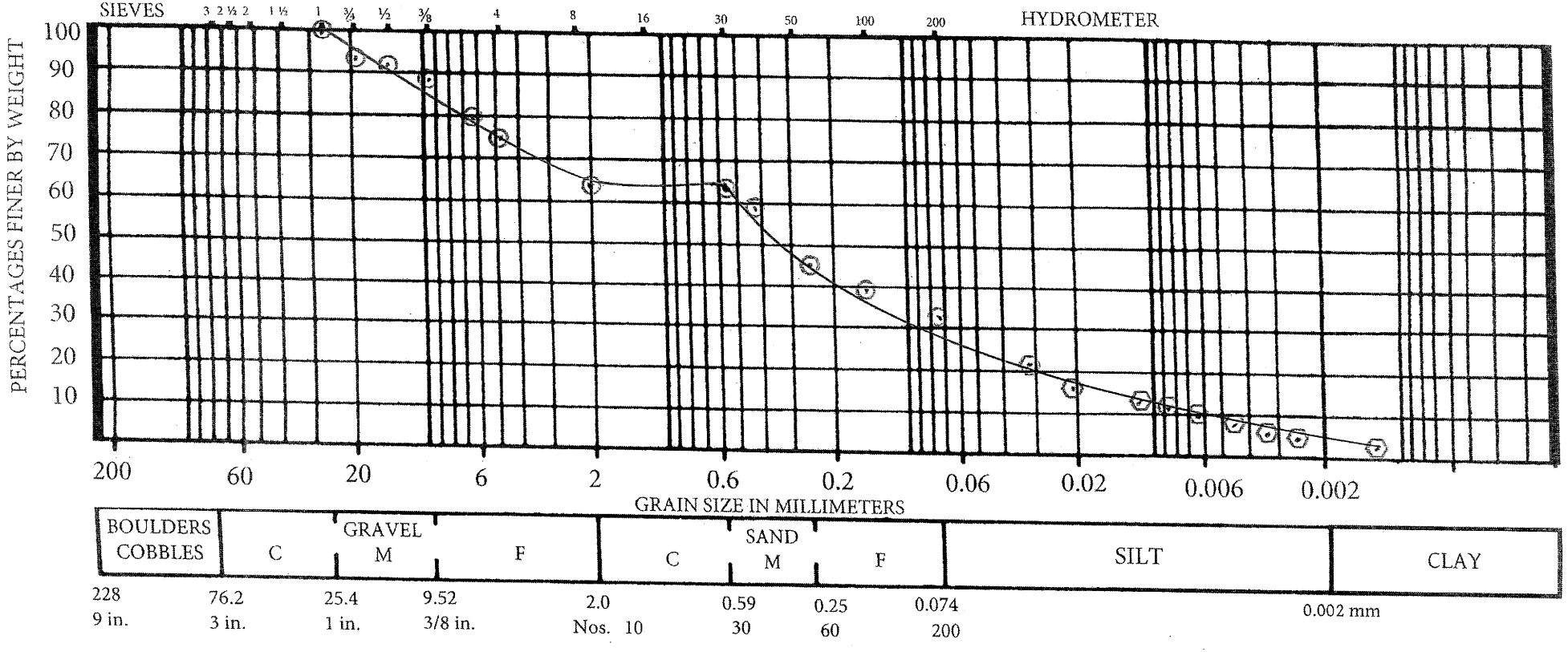


L-17008	**Lab I.D. #:** 34525
Laboratory Testing	**Sample I.D.:** GT-7
National Grid	**Depth (Feet):** 14 - 16
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	22
Date:	November 8, 2017

Grain Size Analysis

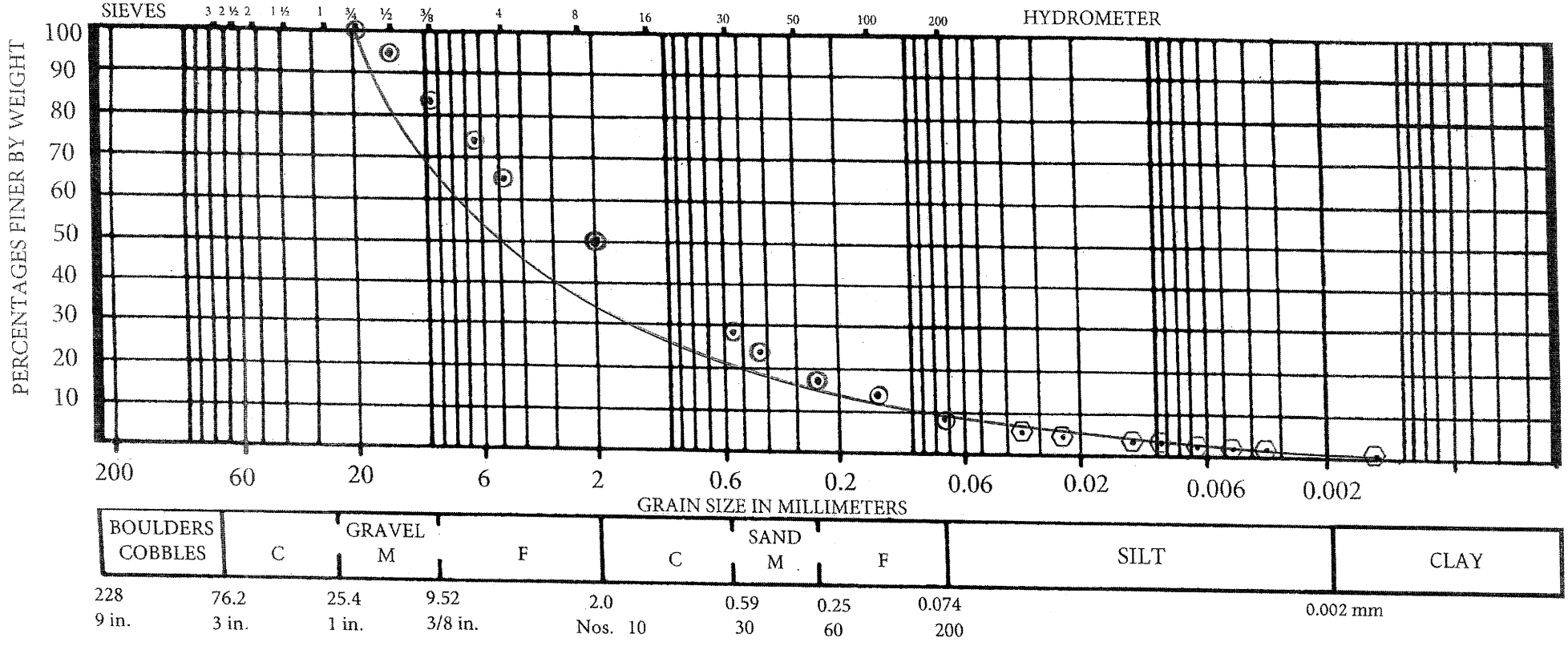


L-17008	**Lab I.D. #:** 34526
Laboratory Testing	**Sample I.D.:** GT-7
National Grid	**Depth (Feet):** 24 - 26
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 23
Date: November 8, 2017

Grain Size Analysis

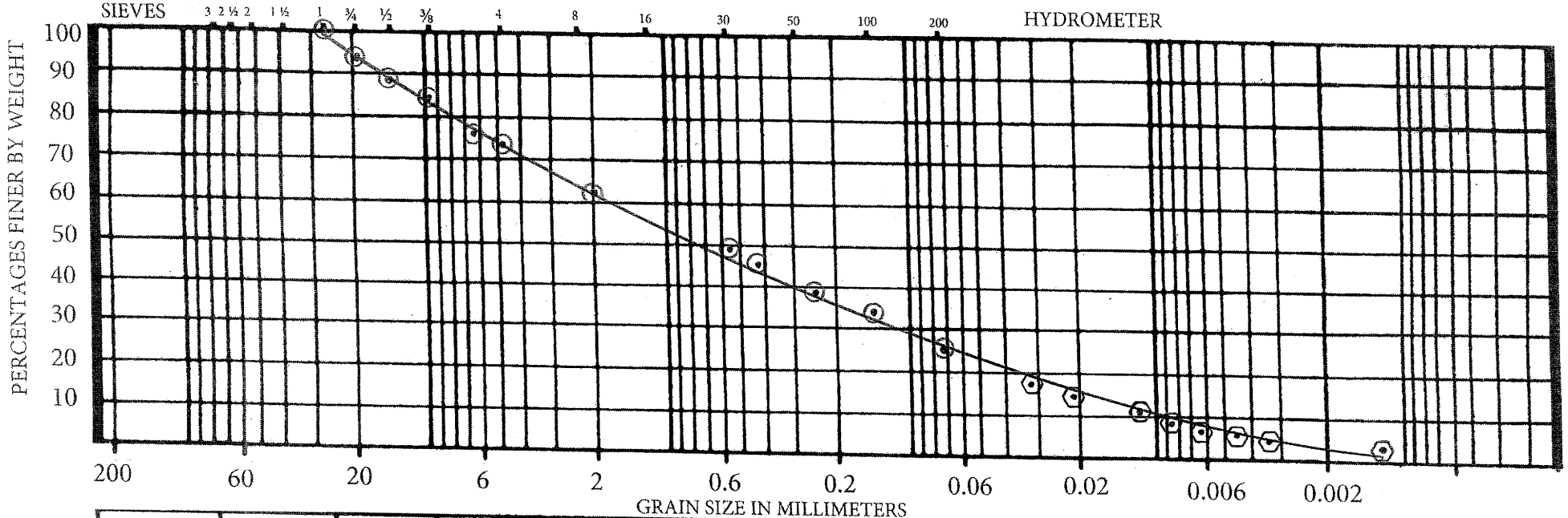


L-17008	**Lab I.D. #:** 34527
Laboratory Testing	**Sample I.D.:** GT-8
National Grid	**Depth (Feet):** 9 - 11
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 24
Date: November 8, 2017

Grain Size Analysis

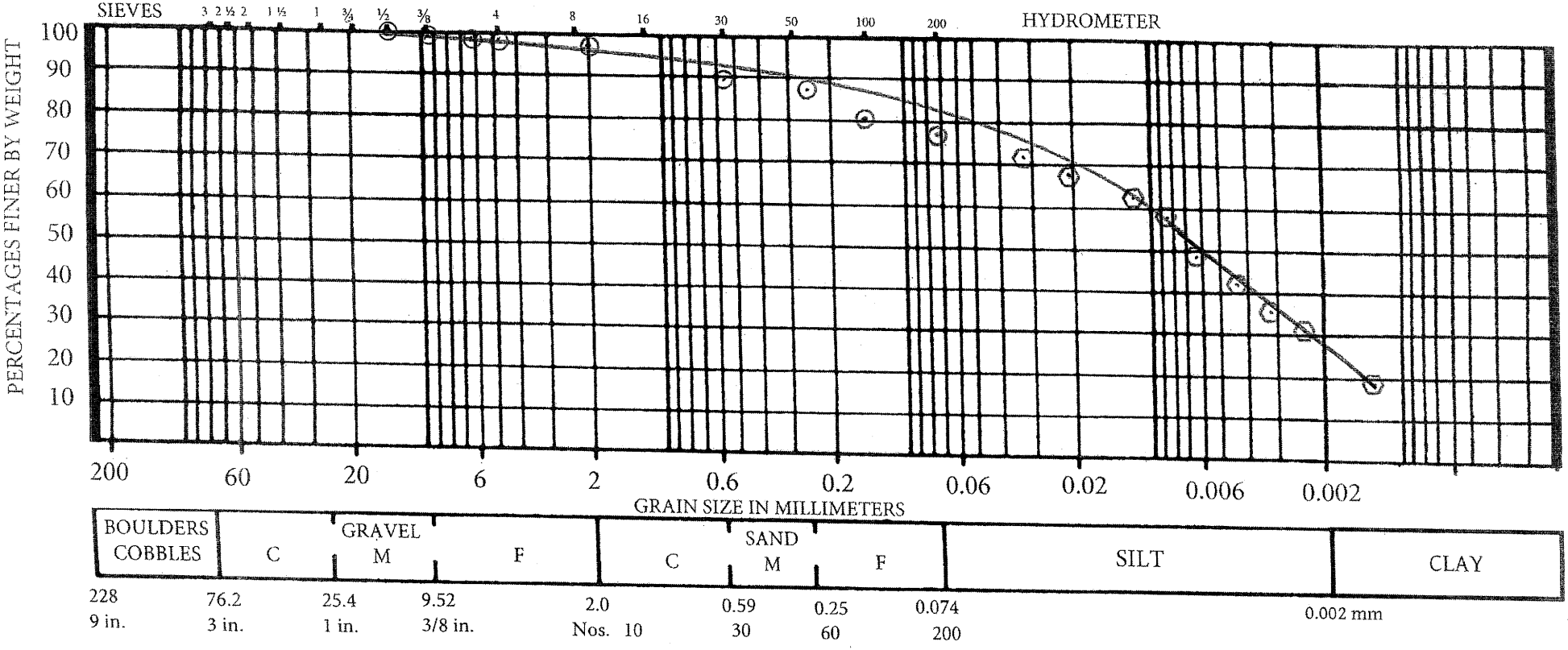


L-17008	**Lab I.D. #:** 34528
Laboratory Testing	**Sample I.D.:** GT-8
National Grid	**Depth (Feet):** 18 - 20
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	25
Date:	November 8, 2017

Grain Size Analysis

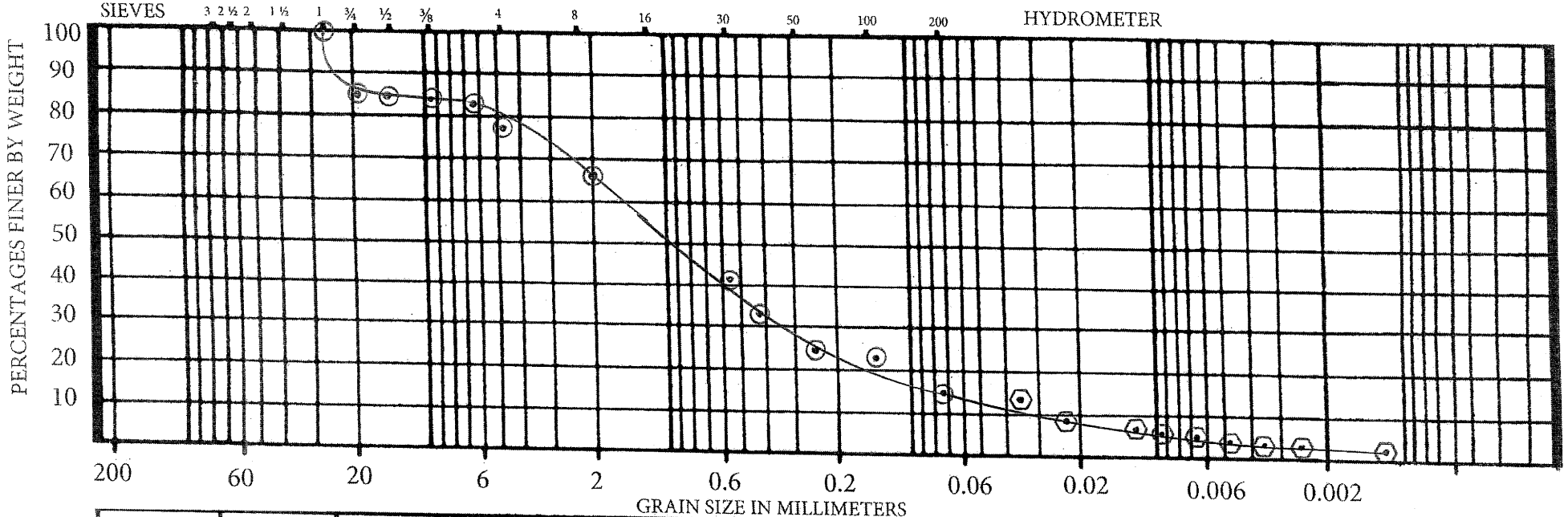


L-17008	**Lab I.D. #:** 34529
Laboratory Testing	**Sample I.D.:** GT-9
National Grid	**Depth (Feet):** 9 - 10
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 26
Date: November 8, 2017

Grain Size Analysis

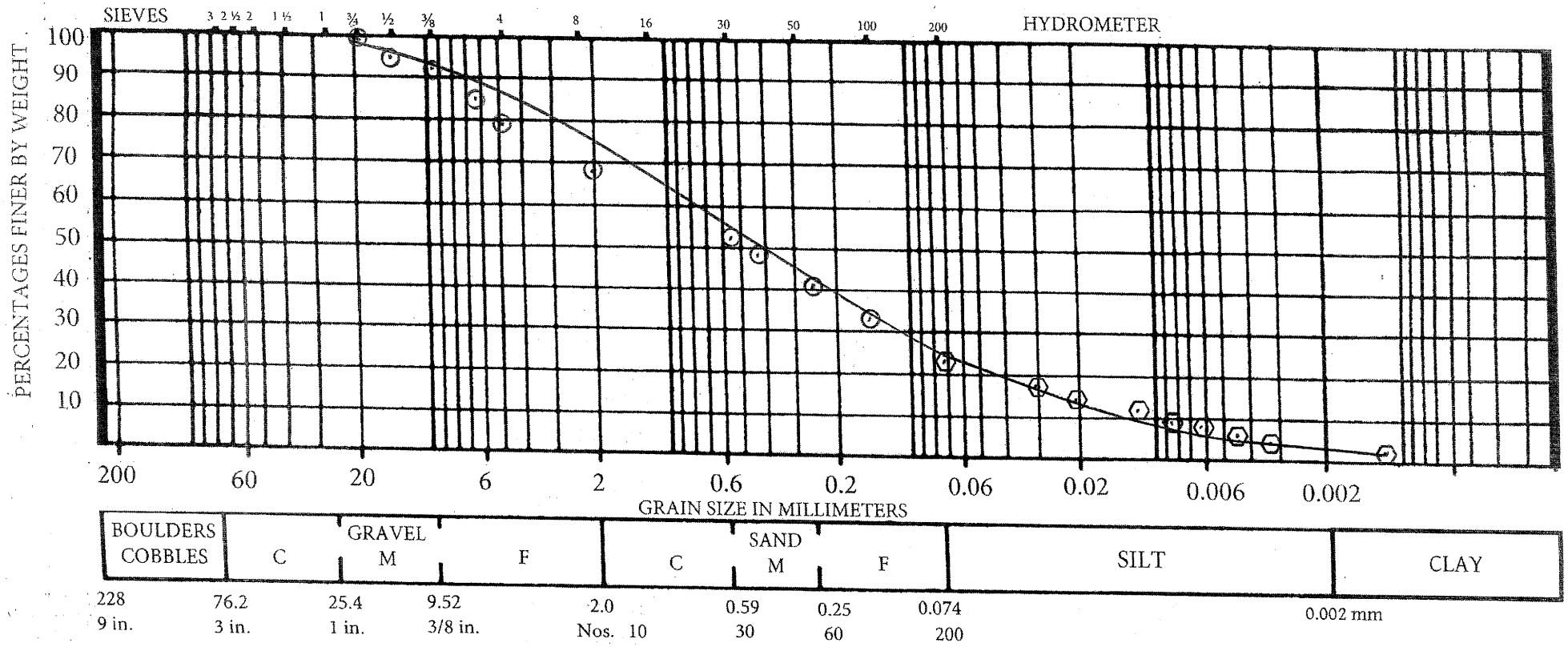


L-17008	**Lab I.D. #:** 34530
Laboratory Testing	**Sample I.D.:** GT-9
National Grid	**Depth (Feet):** 12 - 13
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 27
Date: November 8, 2017

Grain Size Analysis

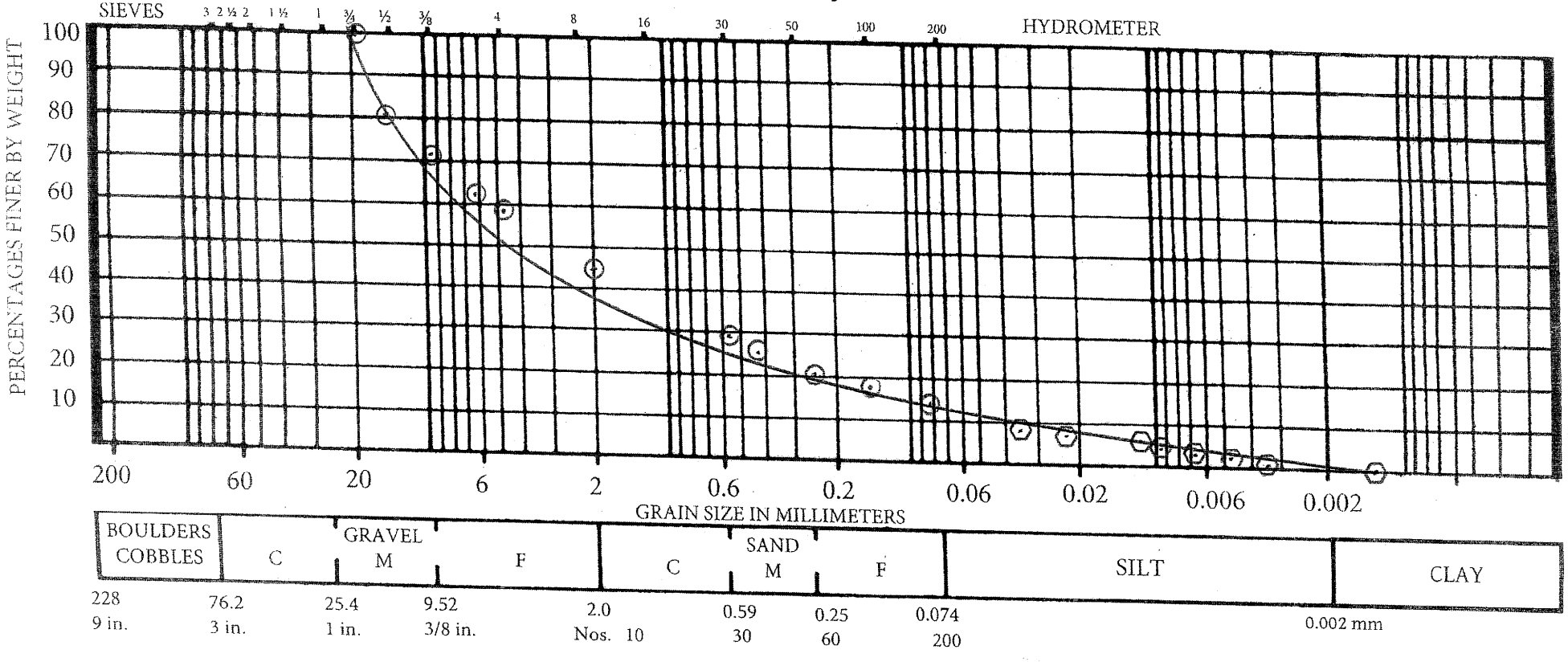


L-17008	**Lab I.D. #:** 34531
Laboratory Testing	**Sample I.D.:** GT-9
National Grid	**Depth (Feet):** 17 - 19
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 28
Date: November 8, 2017

Grain Size Analysis

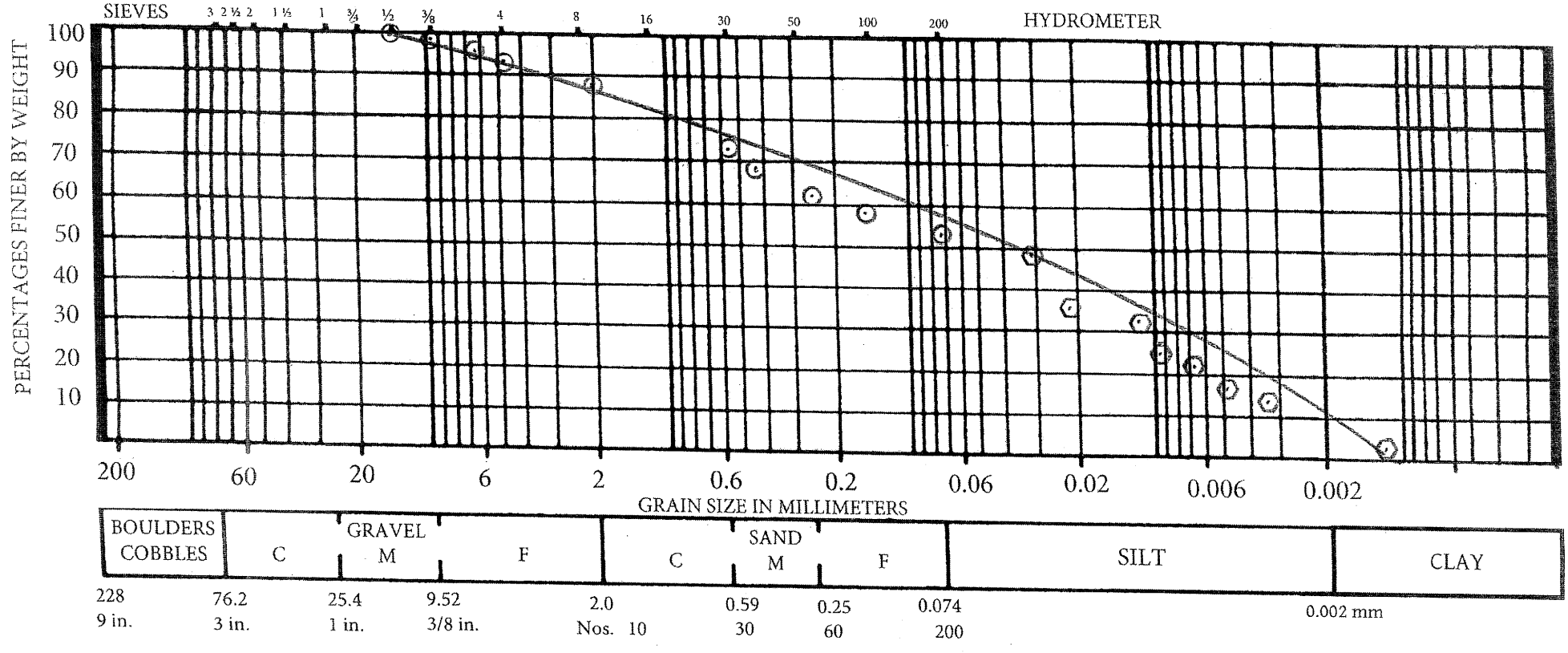


L-17008	
Laboratory Testing	**Lab I.D. #:** 34532
National Grid	**Sample I.D.:** GT-9
North Albany, NY	**Depth (Feet):** 19 - 23
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 29
Date: November 8, 2017

Grain Size Analysis



L-17008
Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

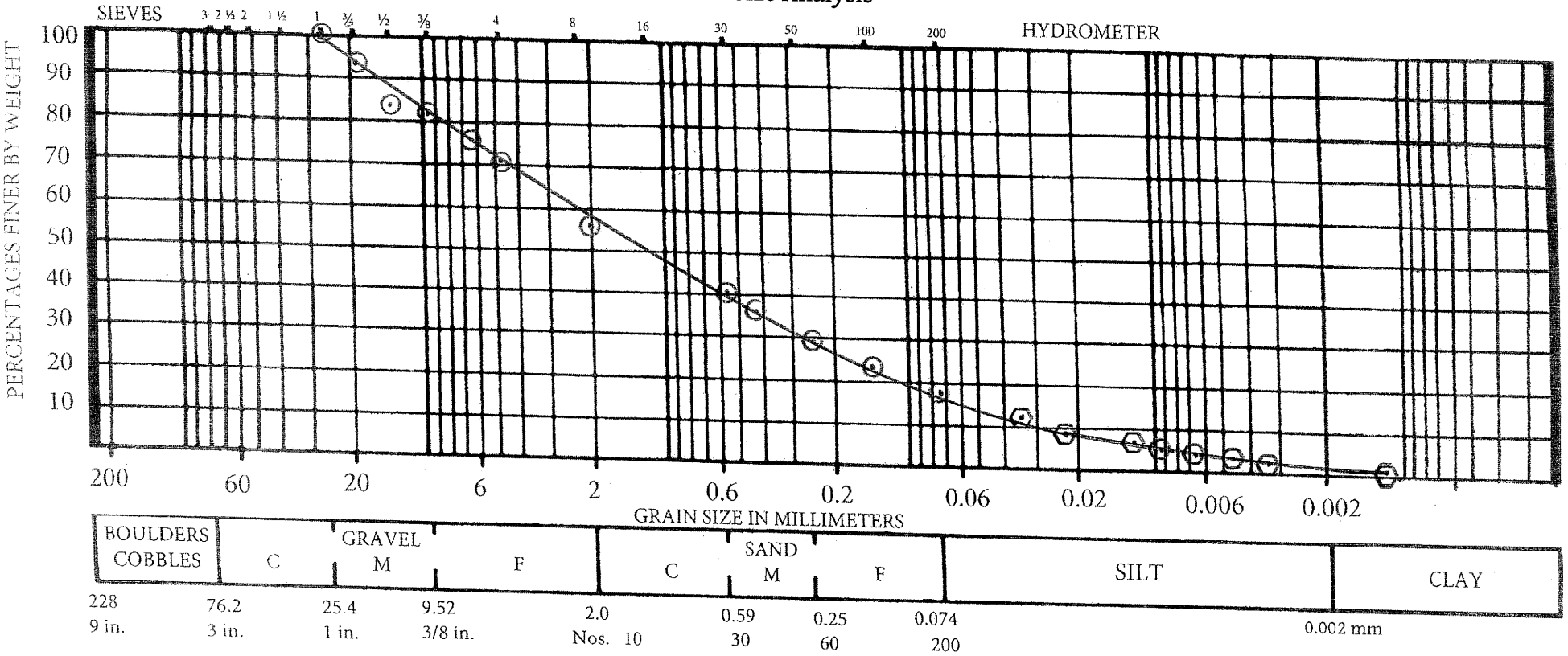
Lab I.D. #: 34533
Sample I.D.: GT-10
Depth (Feet): 11.4 - 12.0

Sieve Analysis ASTM D422 & D1140
Hydrometer Analysis ASTM D422

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Project #:	L-17008
Report #:	30
Date:	November 8, 2017

Grain Size Analysis

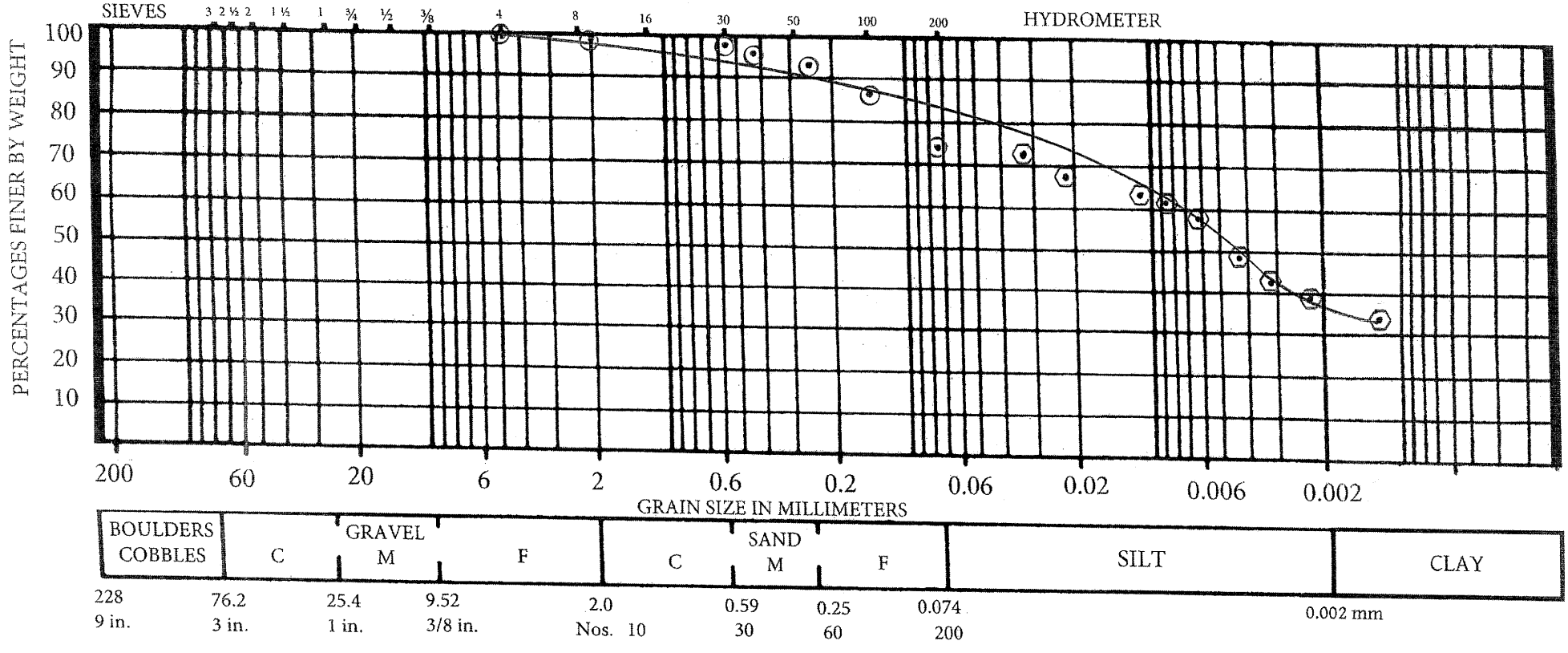


L-17008	**Lab I.D. #:** 34534
Laboratory Testing	**Sample I.D.:** GT-10
National Grid	**Depth (Feet):** 17 - 19
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 31
Date: November 8, 2017

Grain Size Analysis

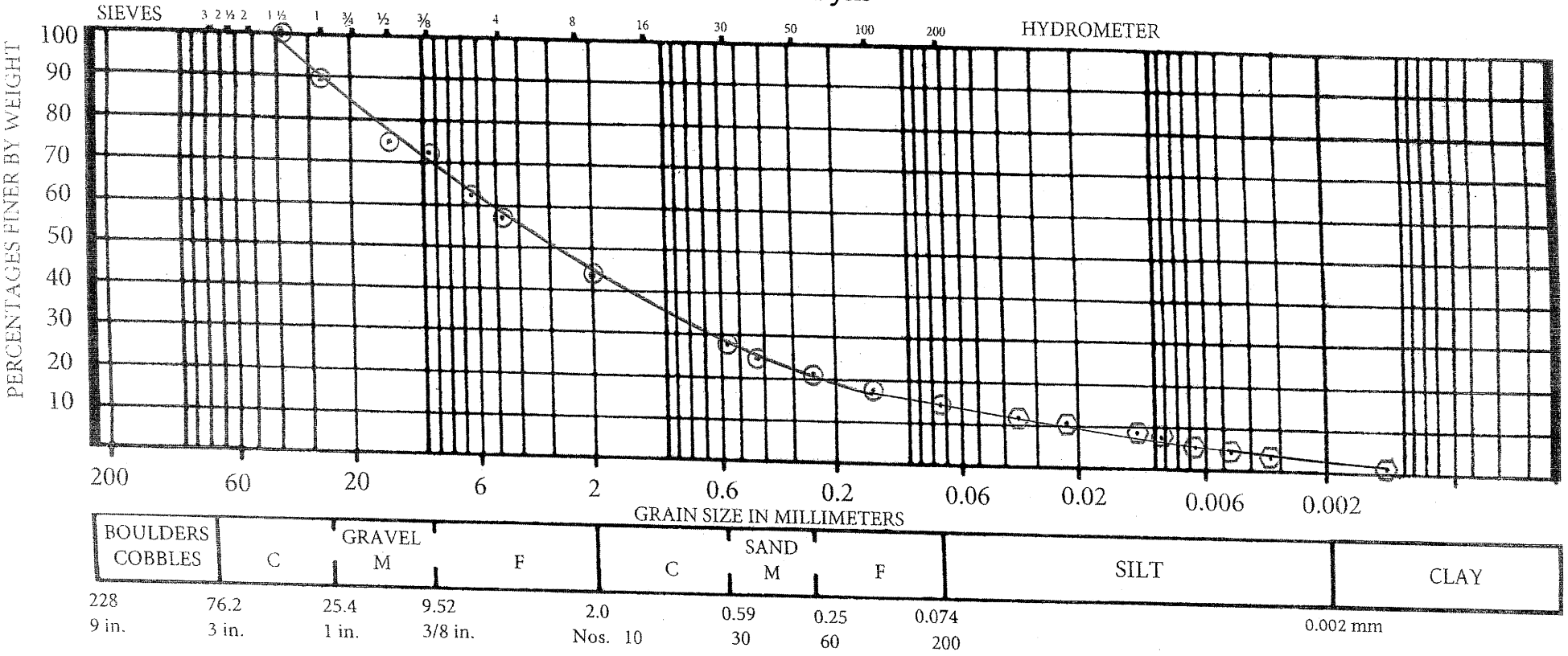


L-17008	**Lab I.D. #:** 34535
Laboratory Testing	**Sample I.D.:** GT-11
National Grid	**Depth (Feet):** 9 - 11
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	32
Date:	November 8, 2017

Grain Size Analysis

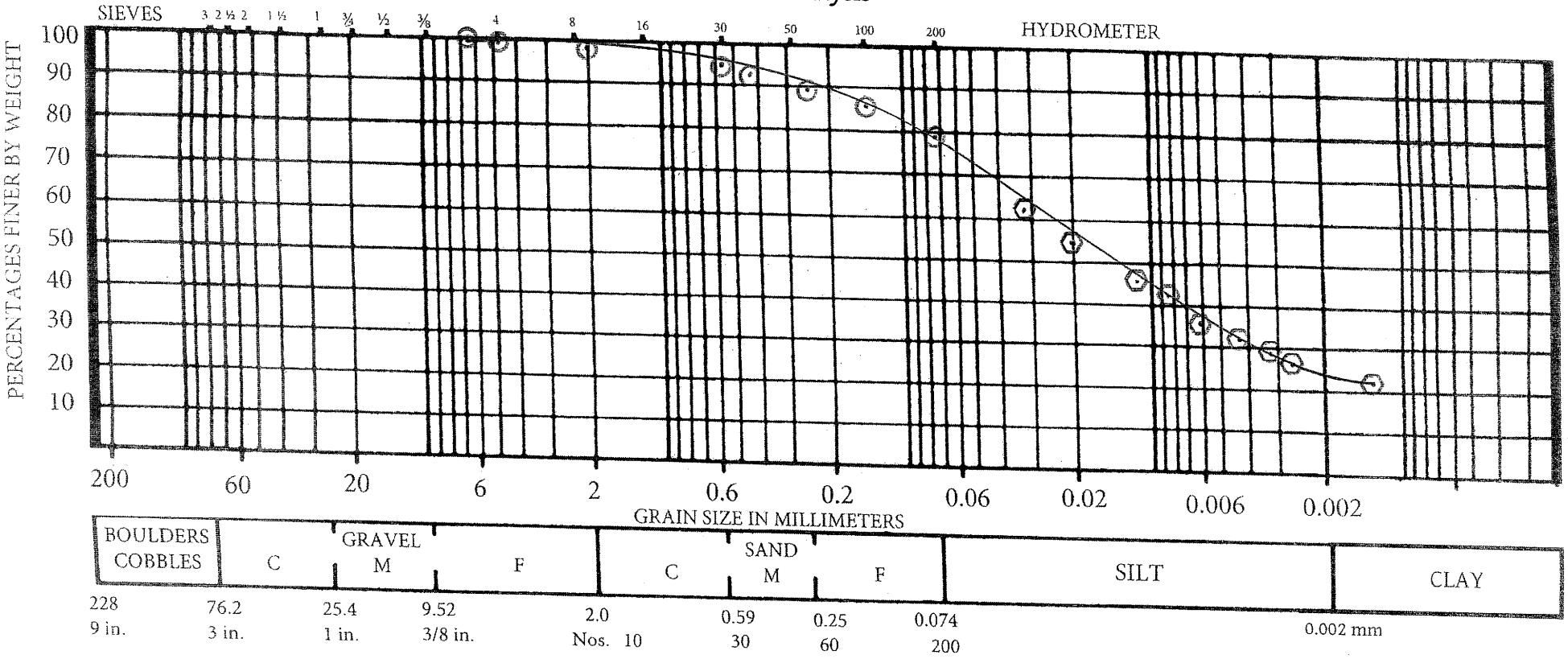


L-17008	**Lab I.D. #:** 34536
Laboratory Testing	**Sample I.D.:** GT-11
National Grid	**Depth (Feet):** 19 - 21
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	33
Date:	November 8, 2017

Grain Size Analysis

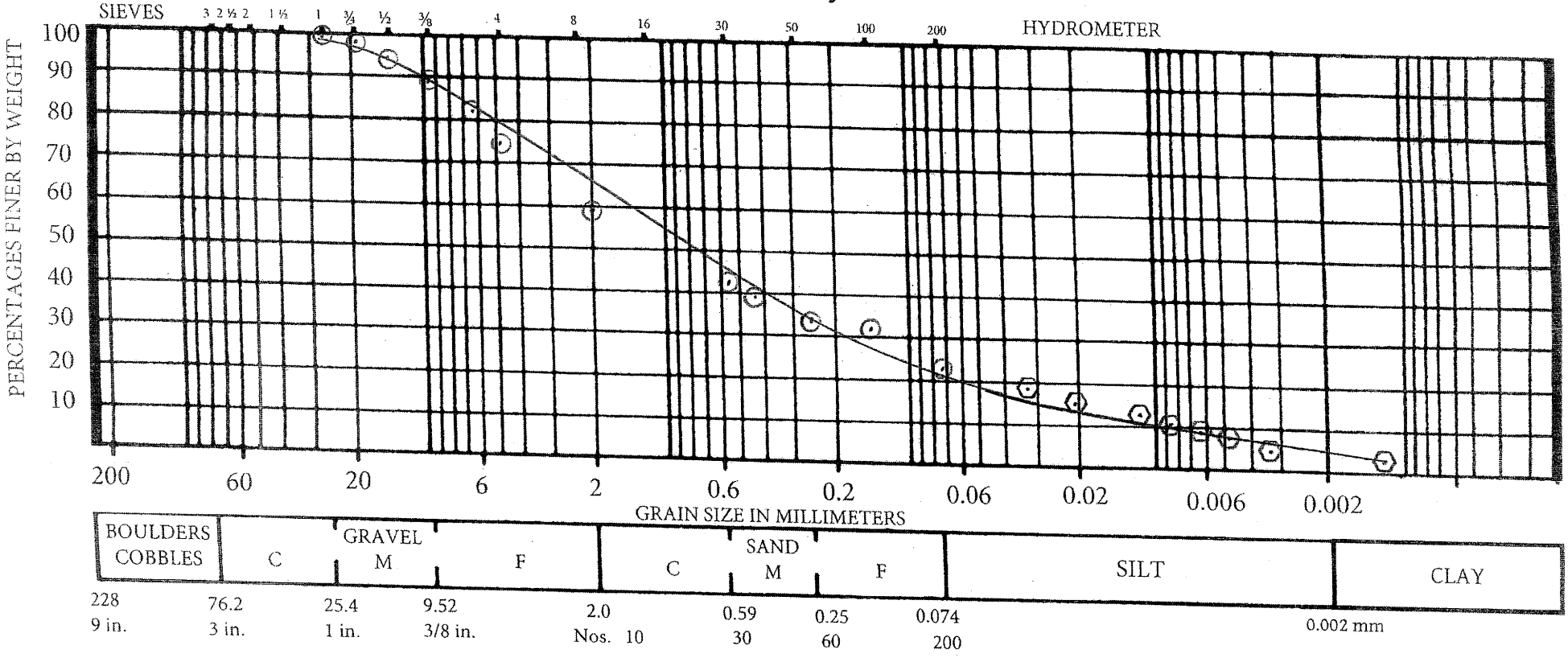


L-17008	**Lab I.D. #:** 34537
Laboratory Testing	**Sample I.D.:** GT-13
National Grid	**Depth (Feet):** 7 - 9
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 34
Date: November 8, 2017

Grain Size Analysis

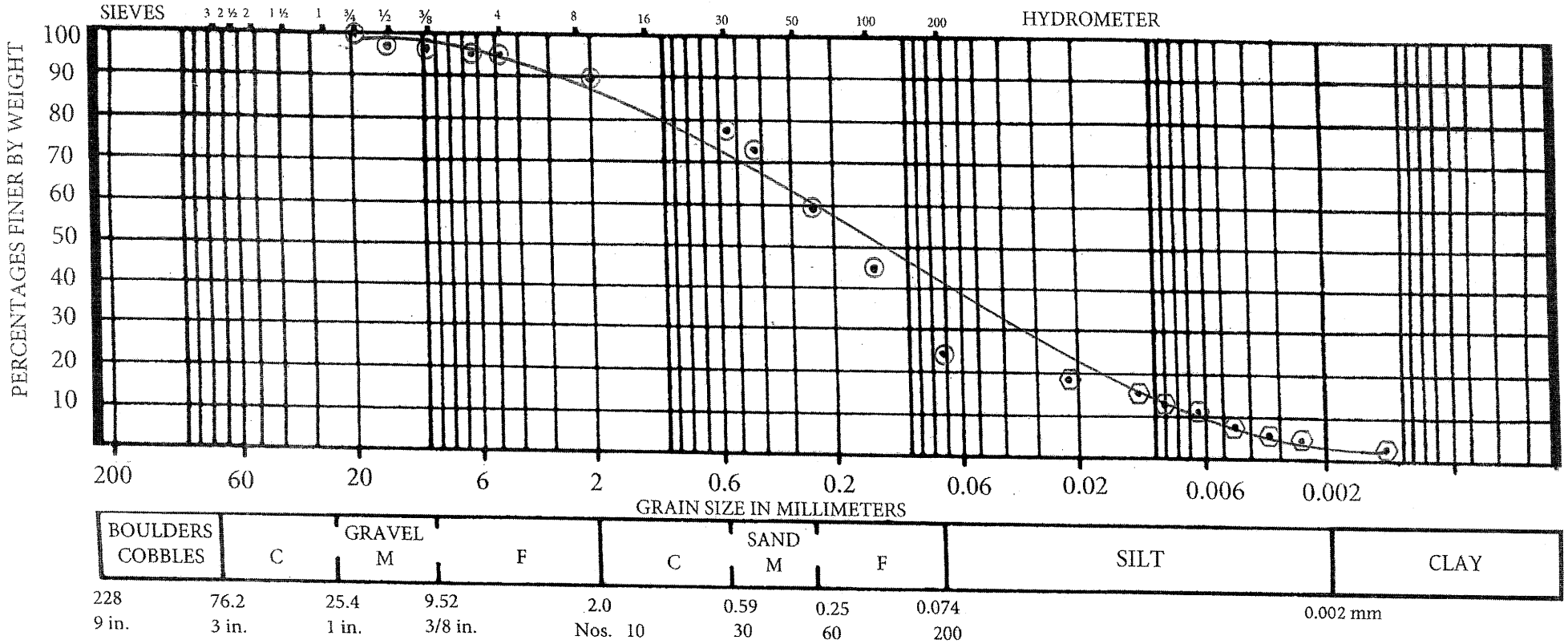


L-17008	
Laboratory Testing	**Lab I.D. #:** 34538
National Grid	**Sample I.D.:** GT-13
North Albany, NY	**Depth (Feet):** 17 - 19
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 35
Date: November 8, 2017

Grain Size Analysis

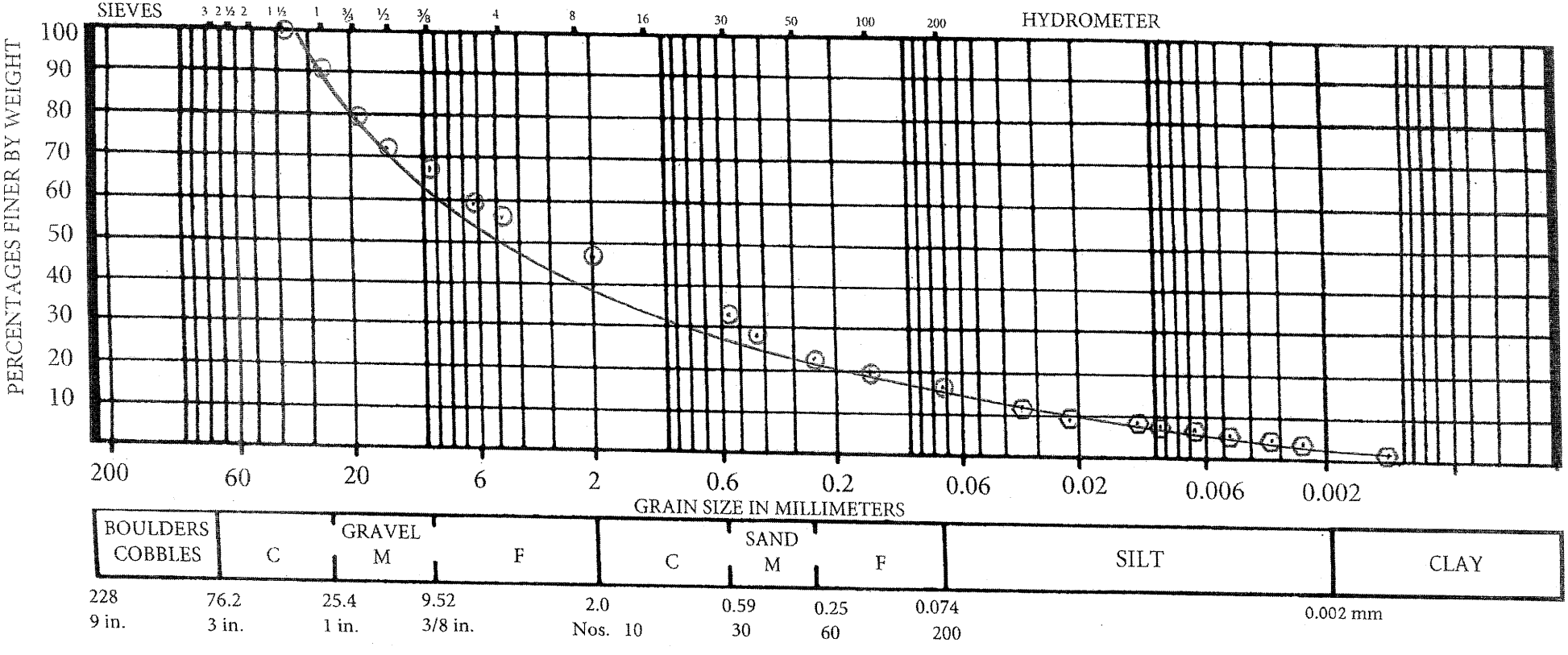


L-17008	**Lab I.D. #:** 34539
Laboratory Testing	**Sample I.D.:** GT-14
National Grid	**Depth (Feet):** 6.5 - 8
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #: L-17008
Report #: 36
Date: November 8, 2017

Grain Size Analysis

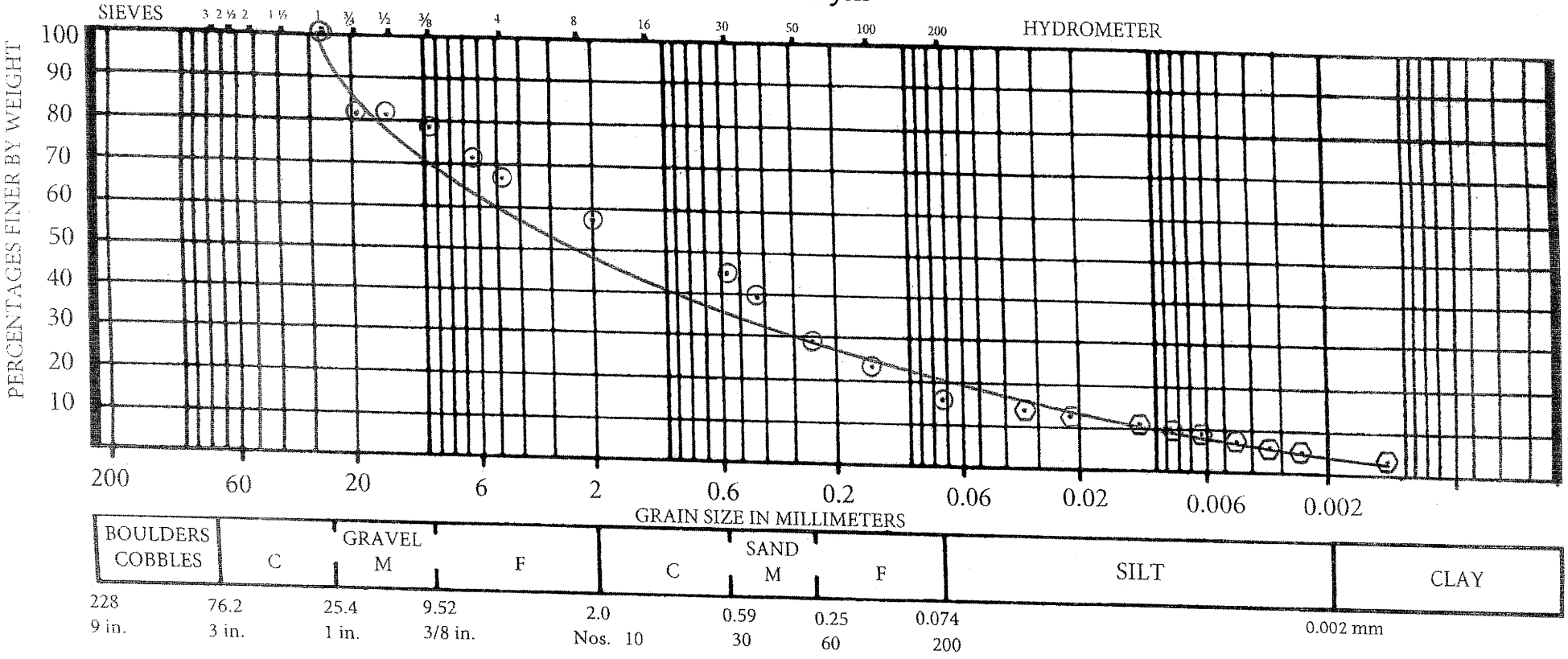


L-17008	**Lab I.D. #:** 34540
Laboratory Testing	**Sample I.D.:** GT-14
National Grid	**Depth (Feet):** 15 - 17
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	37
Date:	November 8, 2017

Grain Size Analysis

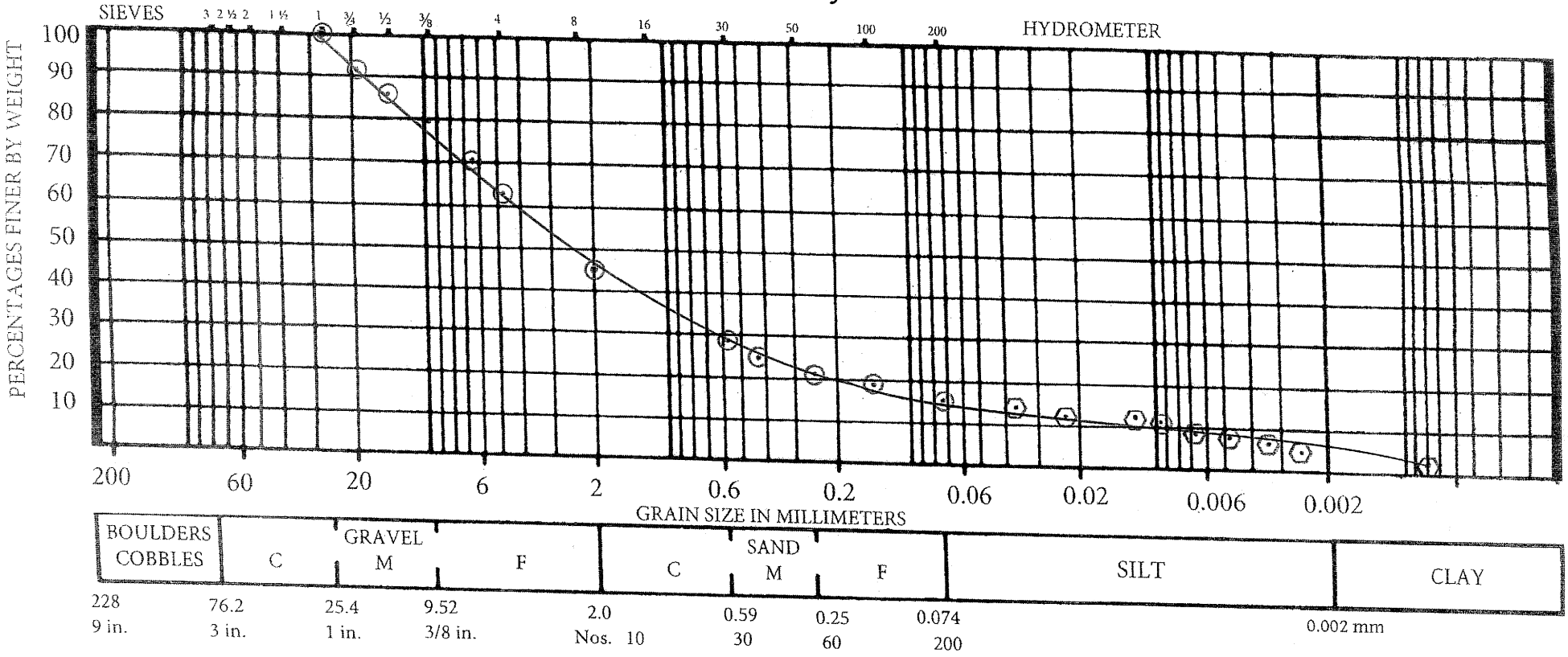


L-17008	
Laboratory Testing	**Lab I.D. #:** 34541
National Grid	**Sample I.D.:** GT-14
North Albany, NY	**Depth (Feet):** 19 - 21
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	38
Date:	November 8, 2017

Grain Size Analysis

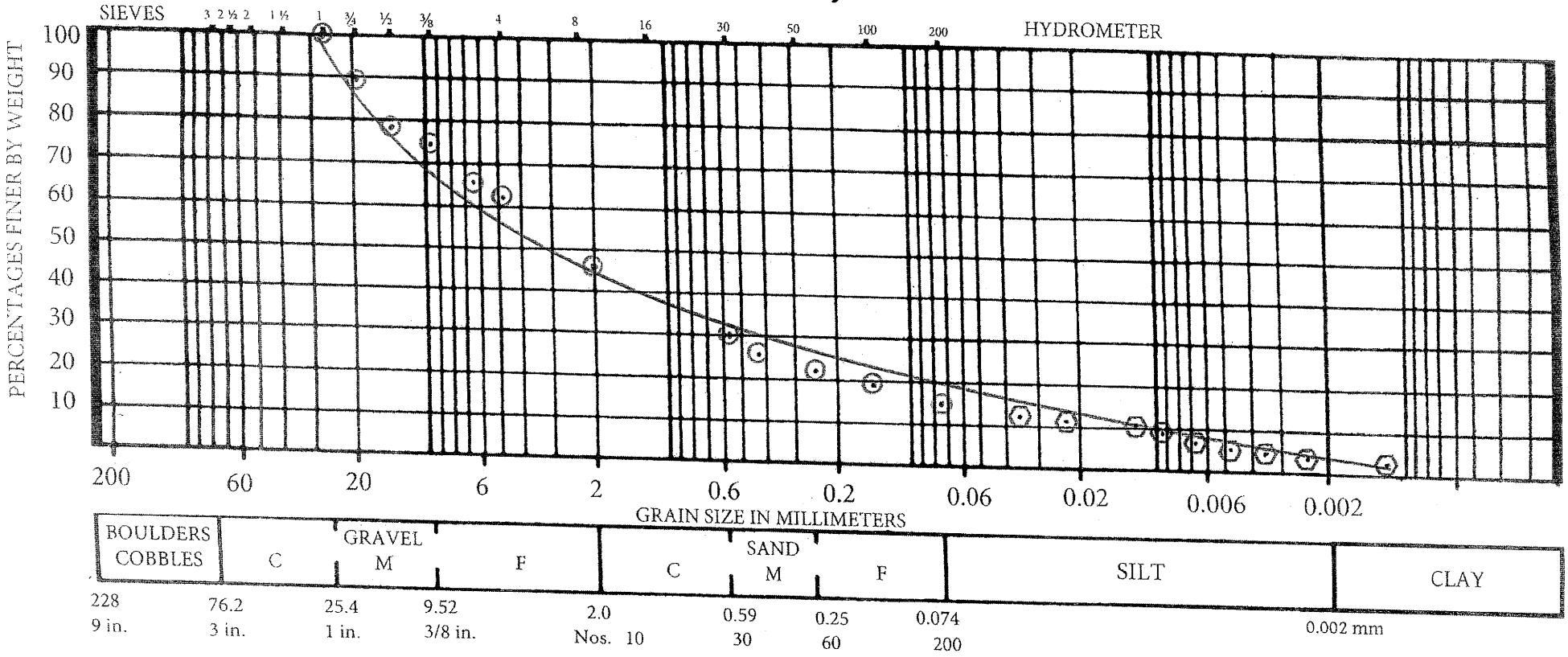


L-17008	
Laboratory Testing	**Lab I.D. #:** 34542
National Grid	**Sample I.D.:** GT-15
North Albany, NY	**Depth (Feet):** 23 - 24
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	39
Date:	November 8, 2017

Grain Size Analysis



L-17008	**Lab I.D. #:** 34543
Laboratory Testing	**Sample I.D.:** GT-16
National Grid	**Depth (Feet):** 17 - 19
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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November 8, 2017

L-17008
Laboratory Testing
National Grid - North Albany, NY
Arcadis Project #B0036648.1401

Atterberg Limits ASTM D4318

Laboratory I.D.#	Sample I.D.	Depth (Feet)	Plastic Limit	Liquid Limit	Plasticity Index
34505	GT-1	5 - 7	Non-Plastic	--	--
34506	GT-1	9 - 11	Non-Plastic	--	--
34507	GT-1	13 - 15	Non-Plastic	--	--
34508	GT-1	19 - 20	Non-Plastic	--	--
34509	GT-2	5 - 7	Non-Plastic	--	--
34510	GT-2	9 - 11	Non-Plastic	--	--
34511	GT-2	17 - 19	13	15	2
34512	GT-3	5 - 7	16	20	4
34513	GT-3	11 - 13	Non-Plastic	--	--
34514	GT-4	5 - 7	15	19	4
34515	GT-4	11 - 13	Non-Plastic	--	--
34516	GT-5	5 - 7	Non-Plastic	--	--
34517	GT-5	7 - 9	Non-Plastic	--	--
34518	GT-5	11 - 13	19	23	4
34519	GT-5	17 - 19	Non-Plastic	--	--
34520	GT-5	21 - 23	19	20	1
34521	GT-6	5 - 7	14	18	4
34522	GT-6	9 - 11	Non-Plastic	--	--
34523	GT-6	15 - 17	Non-Plastic	--	--
34524	GT-7	5 - 7	Non-Plastic	--	--
34525	GT-7	14 - 16	Non-Plastic	--	--
34526	GT-7	24 - 26	Non-Plastic	--	--
34527	GT-8	9 - 11	Non-Plastic	--	--
34528	GT-8	18 - 20	Non-Plastic	--	--
34529	GT-9	9 - 10	28	34	6
34530	GT-9	12 - 13	Non-Plastic	--	--
34531	GT-9	17 - 19	Non-Plastic	--	--
34532	GT-9	19 - 23	14	16	2
34533	GT-10	11.4 - 12	27	31	4
34534	GT-10	17 - 19	Non-Plastic	--	--
34535	GT-11	9 - 11	23	31	8
34536	GT-11	19 - 21	Non-Plastic	--	--
34537	GT-13	7 - 9	23	26	3
34538	GT-13	17 - 19	Non-Plastic	--	--
34539	GT-14	6.5 - 8	Non-Plastic	--	--
34540	GT-14	15 - 17	17	19	2
34541	GT-14	19 - 21	Non-Plastic	--	--
34542	GT-15	23 - 24	Non-Plastic	--	--
34543	GT-16	17 - 19	17	19	2

PW Laboratories, Inc.
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December 21, 2017

Mr. Michael Jones
Arcadis U.S., Inc.
6723 Towpath Road
P.O. Box 66
Syracuse, New York 13214-0066

Re: L-17008
Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

Dear Mr. Jones [michael.jones@arcadis.com]:

Enclosed are the results of laboratory testing performed at your request on three (3) Shelby Tube sample delivered to PW Laboratories, Inc. on 9/22/2017 for the above referenced project. Results include:

1.	Natural Moisture Content ASTM D2216 Laboratory I.D. #34502 – 34504	3 Each
2.	Sieve Analysis ASTM D422 & D1140 Laboratory I.D. #34502 – 34504	3 Each
3.	Hydrometer Analysis ASTM D422 Laboratory I.D. #34502 – 34504	3 Each
4.	Atterberg Limits ASTM D4318 Laboratory I.D. #34502 – 34504	3 Each
5.	Specific Gravity ASTM D854 Laboratory I.D. #34502 – 34504	3 Each
6.	Hydraulic Conductivity – Flexible Wall ASTM D5084 Laboratory I.D. #34502 – 34504	3 Each
7.	UU Triaxial Test ASTM D2850 Laboratory I.D. #34504	1 Each
8.	Photographs	1 Set

All requested tests have been completed on the previously received sample(s) for the above project. All sample remains are scheduled to be disposed of on **1/21/2018**. Please notify PW Laboratories, Inc. by letter or telephone prior to **1/21/2018** if you would prefer to pick up the sample(s) or that the sample(s) be retained by PW Laboratories, Inc. for an additional period.

Thank you for this opportunity to work with you.

PW LABORATORIES, INC.

Patrick J. Edmiston
Laboratory Manager
PJE/BLL

PW Laboratories, Inc.
6544 Fremont Road - East Syracuse, New York 13057
Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

December 21, 2017

L-17008
Laboratory Testing
National Grid - North Albany, NY
Arcadis Project #B0036648.1401

Natural Moisture Content ASTM D2216

Lab. I.D.#	Sample I.D.	Depth (Feet)	Moisture Content as a Percent of Dry Weight
34502	GT-8	12.5 - 13.0	32.2
34503	GT-15	11.5 - 12.0	21.0
34504	GT-12	10.0 - 10.5	37.0

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Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

Sieve Analysis of Soil / Aggregate

Project Title: Laboratory Testing
National Grid
North Albany, NY
Arcadis Project #B0036648.1401

Project #: L-17008
Test Method: ASTM D422 & D1140

Report #: 2
Report Date: December 21, 2017

			Sieve Size - Percent Passing Sieve																
Lab I.D. #	**Sample I.D.**	**Depth (Feet)**	**3/4"**	**1/2"**	**3/8"**	**1/4"**	**#4**	**#10**	**#30**	**#40**	**#60**	**#100**	**#200**						
34502	GT-8	12.5 - 13.0	--	--	100	99.3	99.1	97.9	96.4	95.1	93.1	91.8	90.3						
34503	GT-15	11.5 - 12.0	--	--	100	99.2	98.0	95.6	92.7	90.6	86.8	84.6	82.1						
34504	GT-12	10.5 - 11.0	100	99.8	99.8	99.8	99.8	99.8	99.7	99.7	99.6	99.5	99.3						

Sample mass, as received, meets minimum mass requirements of test method: **Yes** X **No** _____

Prewashed

Performed By: M.S. **Checked By:** Patrick Edmiston

Entire Sample ***X***

Remarks:

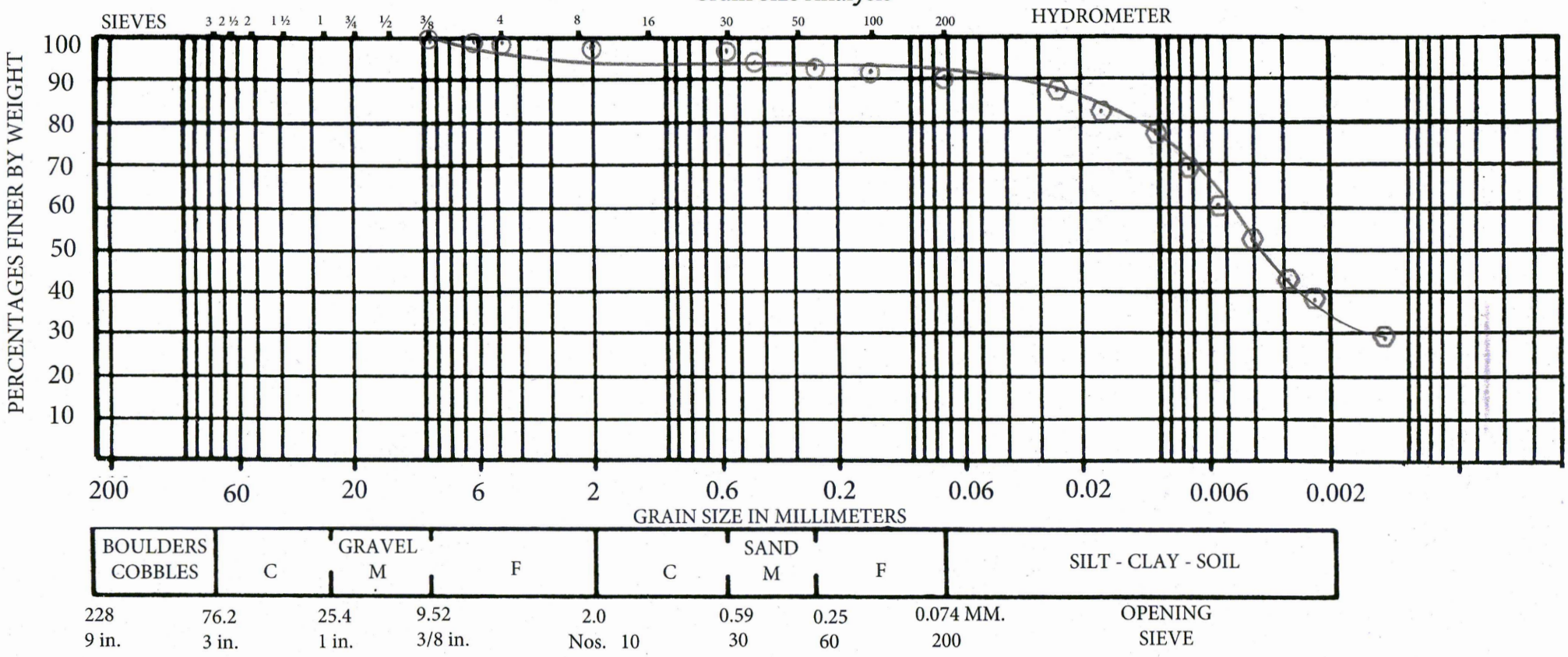
Mass Retained on #200 Only

Not Prewashed:

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Project #:	L-17008
Report #:	40
Date:	December 21, 2017

Grain Size Analysis

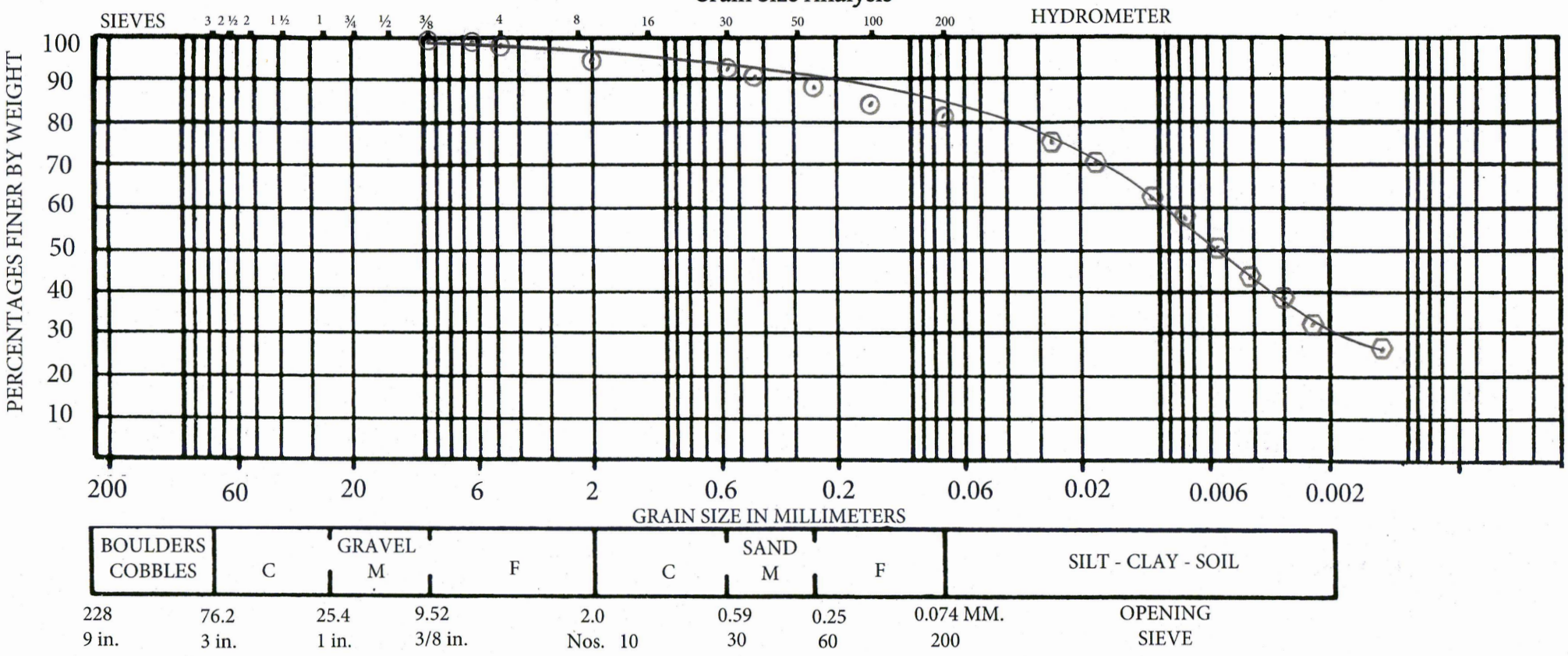


L-17008	**Lab I.D. #:** 34502
Laboratory Testing	**Sample I.D.:** GT-8
National Grid	**Depth (Feet):** 12.5 - 13.0
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	41
Date:	December 21, 2017

Grain Size Analysis

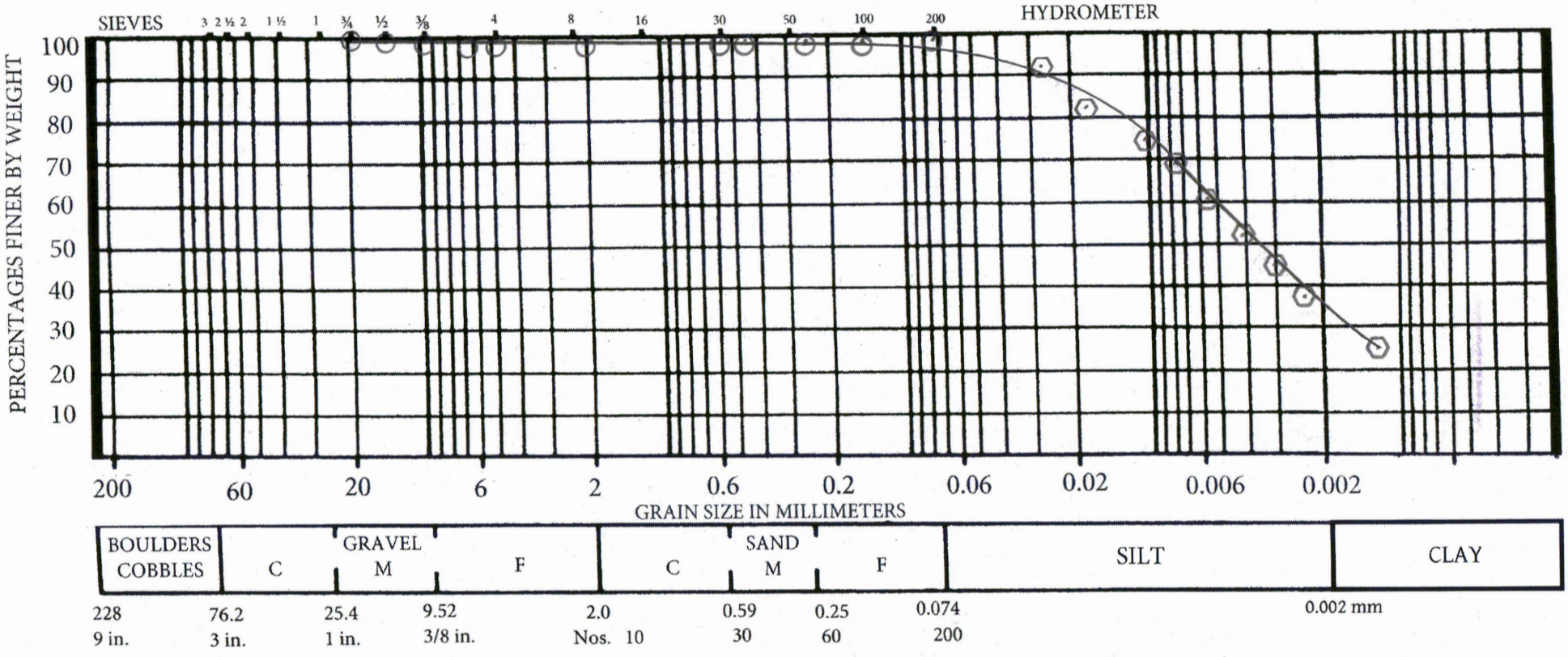


L-17008	**Lab I.D. #:** 34503
Laboratory Testing	**Sample I.D.:** GT-15
National Grid	**Depth (Feet):** 11.5 - 12.0
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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Project #:	L-17008
Report #:	42
Date:	December 21, 2017

Grain Size Analysis



L-17008	**Lab I.D. #:** 34504
Laboratory Testing	**Sample I.D.:** GT-12
National Grid	**Depth (Feet):** 10.5 - 11.0
North Albany, NY	
Arcadis Project #B0036648.1401	
Sieve Analysis ASTM D422 & D1140	
Hydrometer Analysis ASTM D422	

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December 21, 2017

L-17008
Laboratory Testing
National Grid - North Albany, NY
Arcadis Project #B0036648.1401

Atterberg Limits ASTM D4318

Lab. I.D.#	Sample I.D.	Depth (Feet)	Plastic Limit	Liquid Limit	Plasticity Index
34502	GT-8	12.5 - 13.0	31	46	15
34503	GT-15	11.5 - 12.0	26	37	11
34504	GT-12	10.5 - 11.0	29	51	22

PW Laboratories, Inc.
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December 21, 2017

L-17008
Laboratory Testing
National Grid - North Albany, NY
Arcadis Project #B0036648.1401

Specific Gravity of Soils ASTM D854

Lab. I.D.#	Sample I.D.	Depth (Feet)	Specific Gravity of Solids (G)
34502	GT-8	12.5 - 13.0	2.63
34503	GT-15	11.5 - 12.0	2.61
34504	GT-12	10.5 - 11.0	2.66

PW Laboratories, Inc.
6544 Fremont Road - East Syracuse, New York 13057
Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter

ASTM D5084

Report Date: December 21, 2017 **Test Start Date:** December 14, 2017

Project #: L-17008 **Project Title:** Laboratory Testing - National Grid - North Albany, NY - Arcadis Project #B0036648.1401

Test Sample Location GT-8 **Lab I.D. #:** 34502

Date Cast: -- **Depth (Feet):** 12.5 - 13.0 **Type of Sample:**

Method of Compaction: -- **Undisturbed:** X **Remolded:** --

Percent Compaction: -- **Moisture Content (% of Dry Weight)**

Initial Degree of Saturation (B Value) (%): -- **Optimum:** -- **Initial:** 32.2

Final Degree of Saturation (B Value) (%): 100.0 **Dry Unit Weight (PCF)**

Permeant Liquid Used Deaired Deionized H_2O **Maximum:** -- **Initial:** 91.3

Final Moisture Content (% of Dry Weight): 38.2 **Final Dry Unit Weight (PCF):** 104.7

Confining Pressure (PSI):	Test (head) Pressure (PSI):	Tail (back) Pressure (PSI):
71.0	68.0	65.0

Initial Gradient: 21.9 **Initial Height (cm):** 9.65 **Initial Diameter (cm):** 7.35

Final Gradient: 24.6 **Final Height (cm):** 8.58 **Final Diameter (cm):** 7.28

Final Four Determinations k (cm/sec)

5.06×10^{-8}	5.07×10^{-8}
5.07×10^{-8}	5.07×10^{-8}

Mean Value of Final Four Consecutive Determinations: **Coefficient of Permeability k (cm/sec):** 5.07×10^{-8}

Project Specifications --

Notes:

PW Laboratories, Inc.
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Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter

ASTM D5084

Report Date: December 21, 2017 **Test Start Date:** December 14, 2017

Project #: L-17008 **Project Title:** Laboratory Testing - National Grid - North Albany, NY - Arcadis Project #B0036648.1401

Test Sample Location GT-15 **Lab I.D. #:** 34503

Date Cast: -- **Depth (Feet):** 11.5 - 12.0 **Type of Sample:**

Method of Compaction: -- **Undisturbed:** X **Remolded:** --

Percent Compaction: -- **Moisture Content (% of Dry Weight)**

Initial Degree of Saturation (B Value) (%): -- **Optimum:** -- **Initial:** 21.0

Final Degree of Saturation (B Value) (%): 100.0 **Dry Unit Weight (PCF)**

Permeant Liquid Used Deaired Deionized H_2O **Maximum:** -- **Initial:** 107.0

Final Moisture Content (% of Dry Weight): 27.2 **Final Dry Unit Weight (PCF):** 104.9

Confining Pressure (PSI):	Test (head) Pressure (PSI):	Tail (back) Pressure (PSI):
71.0	68.0	65.0

Initial Gradient: 18.4 **Initial Height (cm):** 11.50 **Initial Diameter (cm):** 7.25

Final Gradient: 18.5 **Final Height (cm):** 11.41 **Final Diameter (cm):** 7.35

Final Four Determinations k (cm/sec)

6.63×10^{-8}	6.64×10^{-8}
6.63×10^{-8}	6.64×10^{-8}

Mean Value of Final Four Consecutive Determinations: **Coefficient of Permeability k (cm/sec):** 6.64×10^{-8}

Project Specifications --

Notes:

PW Laboratories, Inc.
6544 Fremont Road - East Syracuse, New York 13057
Office 315.437.1420 ~ Fax 315.503-3058~ pwlabsinc@hotmail.com

Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter

ASTM D5084

Report Date: December 21, 2017 **Test Start Date:** December 14, 2017

Project #: L-17008 **Project Title:** Laboratory Testing - National Grid - North Albany, NY - Arcadis Project #B0036648.1401

Test Sample Location GT-12 **Lab I.D. #:** 34504

Date Cast: -- **Depth (Feet):** 10.0 - 10.5 **Type of Sample:**

Method of Compaction: -- **Undisturbed:** X **Remolded:** --

Percent Compaction: -- **Moisture Content (% of Dry Weight)**

Initial Degree of Saturation (B Value) (%): -- **Optimum:** -- **Initial:** 37.1

Final Degree of Saturation (B Value) (%): 100.0 **Dry Unit Weight (PCF)**

Permeant Liquid Used Deaired Deionized H_2O **Maximum:** -- **Initial:** 76.4

Final Moisture Content (% of Dry Weight): 44.2 **Final Dry Unit Weight (PCF):** 81.7

Confining Pressure (PSI):	Test (head) Pressure (PSI):	Tail (back) Pressure (PSI):
71.0	68.0	65.0

Initial Gradient: 18.6 **Initial Height (cm):** 11.37 **Initial Diameter (cm):** 7.25

Final Gradient: 18.9 **Final Height (cm):** 11.15 **Final Diameter (cm):** 7.08

Final Four Determinations k (cm/sec)

8.23×10^{-7} 8.78×10^{-7}

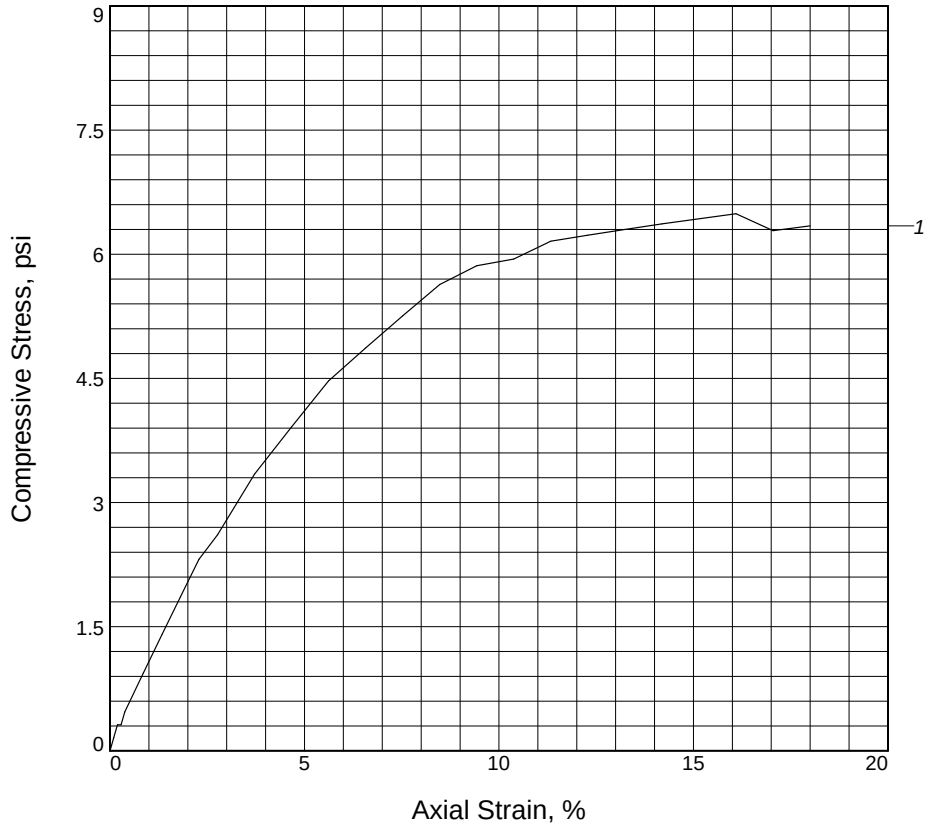
8.68×10^{-7} 1.26×10^{-6}

Mean Value of Final Four Consecutive Determinations: **Coefficient of Permeability k (cm/sec):** 9.57×10^{-7}

Project Specifications --

Notes:

UNCONSOLIDATED UNDRAINED TEST



Sample No.	1			
Fail. Stress, psi	6.49			
Ult. Stress, psi	6.34			
Cell pressure, psi	10.00			
Strain rate, in./min.	0.06			
Water content, %	41.0			
Wet density, pcf	107.5			
Dry density, pcf	76.2			
Saturation, %	92.6			
Void ratio	1.1789			
Specimen diameter, in.	2.84			
Specimen height, in.	6.30			
Height/diameter ratio	2.22			

Description: Gray moist stiff clay

LL = 51	**PL =** 29	**PI =** 22	**GS=** 2.66	**Type:** INTACT

Project No.: L-17008
Date Sampled: RECEIVED: 9/22/2017
Remarks:
DATE TEST PERFORMED: 12/14/2017

Figure ONE

Client: ARCADIS OF NEW YORK INC.

Project: NATIONAL GRID NORTH ALBANY SITE

Location: ALBANY,NY
Sample Number: GT-12 ID #34504

UNCONSOLIDATED UNDRAINED TEST
PW Laboratories, Inc.
East Syracuse, NY

Tested By: PE **Checked By:** DPB

TRIAXIAL COMPRESSION TEST

12/21/2017

Unconsolidated Undrained

10:43 AM

Date: RECEIVED: 9/22/2017
Client: ARCADIS OF NEW YORK INC.
Project: NATIONAL GRID NORTH ALBANY SITE
Project No.: L-17008
Location: ALBANY,NY
Depth: 10.5 TO 11.0 FEET **Sample Number:** GT-12 ID #34504
Description: Gray moist stiff clay
Remarks: DATE TEST PERFORMED: 12/14/2017
Type of Sample: INTACT
Specific Gravity=2.66 **LL=**51 **PL=**29 **PI=**22
Test Method: ASTM D 2850

Parameters for Specimen No. 1

Specimen Parameter	Initial	Final
Moisture content: Moist soil+tare, gms.	339.900	1242.000
Moisture content: Dry soil+tare, gms.	278.000	893.500
Moisture content: Tare, gms.	127.100	118.500
Moisture, %	41.0	45.0
Moist specimen weight, gms.	1125.9	
Diameter, in.	2.84	
Area, in.²	6.33	
Height, in.	6.30	
Wet density, pcf	107.5	
Dry density, pcf	76.2	
Void ratio	1.1789	
Saturation, %	92.6	

Test Readings for Specimen No. 1

Cell pressure = 10.00 psi
Back pressure = 0.00 psi
Strain rate, in./min. = 0.06
Fail. Stress = 6.49 psi **at reading no.** 22
Ult. Stress = 6.34 psi **at reading no.** 24

Test Readings for Specimen No. 1

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress psi	Minor Princ. Stress psi	Major Princ. Stress psi	1:3 Ratio	P psi	Q psi
0	0.0060	9.000	0.0	0.0	0.00	10.00	10.00	1.00	10.00	0.00
1	0.0120	10.000	1.0	0.1	0.16	10.00	10.16	1.02	10.08	0.08
2	0.0180	11.000	2.0	0.2	0.32	10.00	10.32	1.03	10.16	0.16
3	0.0240	11.000	2.0	0.3	0.31	10.00	10.31	1.03	10.16	0.16
4	0.0300	12.000	3.0	0.4	0.47	10.00	10.47	1.05	10.24	0.24
5	0.0600	15.000	6.0	0.9	0.94	10.00	10.94	1.09	10.47	0.47
6	0.0900	18.000	9.0	1.3	1.40	10.00	11.40	1.14	10.70	0.70
7	0.1200	21.000	12.0	1.8	1.86	10.00	11.86	1.19	10.93	0.93
8	0.1500	24.000	15.0	2.3	2.31	10.00	12.31	1.23	11.16	1.16
9	0.1800	26.000	17.0	2.8	2.61	10.00	12.61	1.26	11.30	1.30
10	0.2400	31.000	22.0	3.7	3.34	10.00	13.34	1.33	11.67	1.67
11	0.3000	35.000	26.0	4.7	3.91	10.00	13.91	1.39	11.96	1.96
12	0.3600	39.000	30.0	5.6	4.47	10.00	14.47	1.45	12.23	2.23
13	0.4200	42.000	33.0	6.6	4.87	10.00	14.87	1.49	12.43	2.43
14	0.4800	45.000	36.0	7.5	5.26	10.00	15.26	1.53	12.63	2.63
15	0.5400	48.000	39.0	8.5	5.63	10.00	15.63	1.56	12.82	2.82
16	0.6000	50.000	41.0	9.4	5.86	10.00	15.86	1.59	12.93	2.93
17	0.6600	51.000	42.0	10.4	5.94	10.00	15.94	1.59	12.97	2.97
18	0.7200	53.000	44.0	11.3	6.16	10.00	16.16	1.62	13.08	3.08
19	0.7800	54.000	45.0	12.3	6.23	10.00	16.23	1.62	13.12	3.12
20	0.8400	55.000	46.0	13.2	6.30	10.00	16.30	1.63	13.15	3.15
21	0.9000	56.000	47.0	14.2	6.37	10.00	16.37	1.64	13.18	3.18
22	1.0200	58.000	49.0	16.1	6.49	10.00	16.49	1.65	13.25	3.25
23	1.0800	57.000	48.0	17.0	6.29	10.00	16.29	1.63	13.14	3.14
24	1.1400	58.000	49.0	18.0	6.34	10.00	16.34	1.63	13.17	3.17

GT-8

13'-15'



GT-12

9'-11'

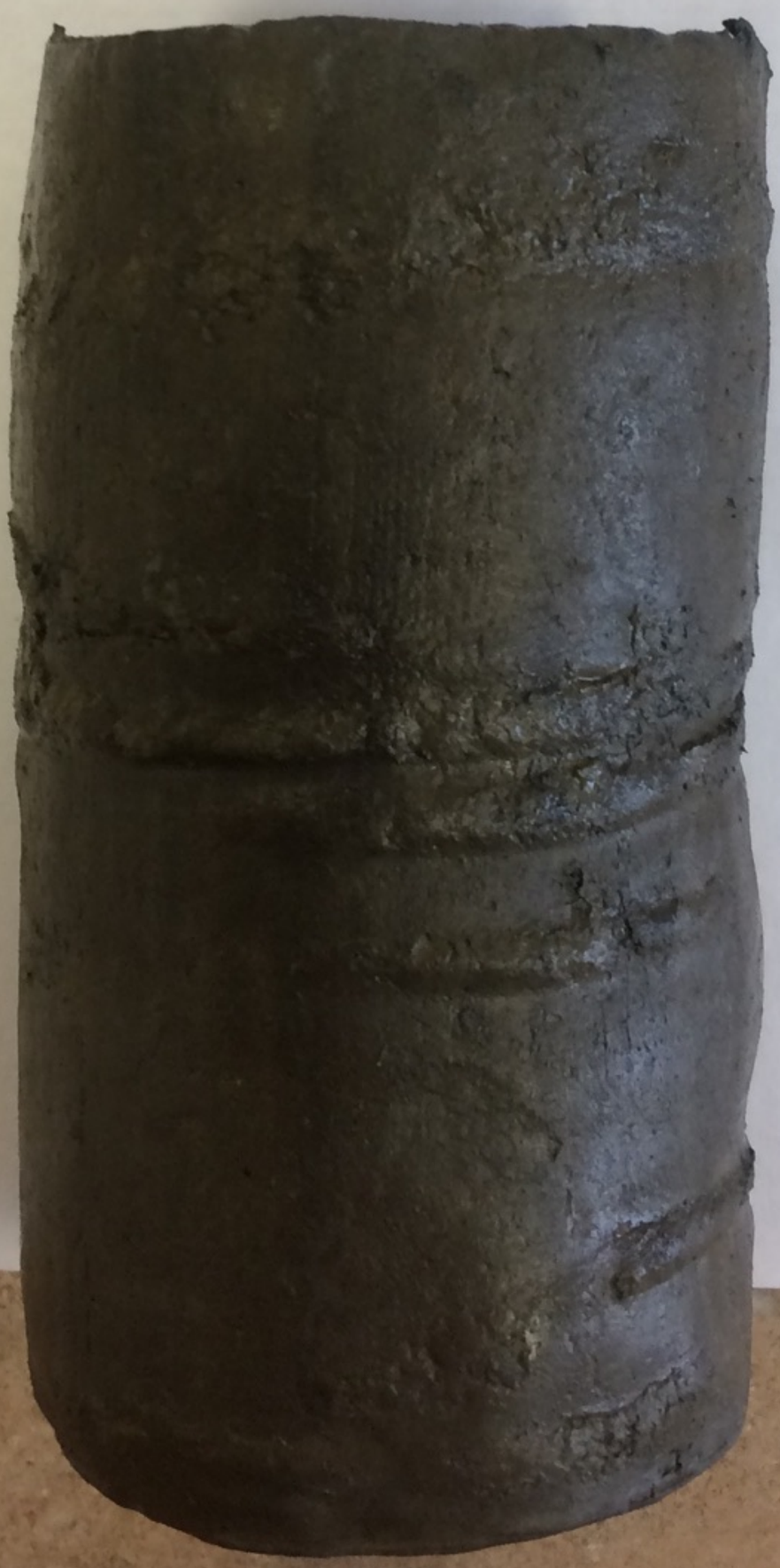


GT-12

9'-11'

U.U

After Test



GT-15

11'-13'



APPENDIX D

Soil Waste Characterization Analytical Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-123063-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/5/2017 11:17:33 AM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-123063-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-123063-1

Receipt
The samples were received on 8/23/2017 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-374714 recovered outside acceptance criteria, low biased, for Vinyl Chloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: WC-1 (480-123063-1), WC-2 (480-123063-2), WC-3 (480-123063-3) and (LB 480-373731/1-A).

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-1 (480-123063-1), WC-2 (480-123063-2), WC-3 (480-123063-3), (LB 480-373731/1-A), (480-123063-C-1-B MS) and (480-123063-C-1-B MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: All primary data for analytical batch 374083 is reported from the RTX-CLPI column.

Method(s) 8082A: Surrogate recovery for the following samples was outside control limits: WC-1 (480-123063-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082A: All primary data for analytical batch 373762 is reported from the ZB-35 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-374308 recovered above the upper control limit for 2,4-D. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: WC-1 (480-123063-1), WC-2 (480-123063-2) and WC-3 (480-123063-3).

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-1 (480-123063-1), WC-2 (480-123063-2), WC-3 (480-123063-3), (LB 480-373730/1-E) and (LB2 480-373744/1-E). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: All primary data for analytical batch 374308 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-1 (480-123063-1), WC-2 (480-123063-2) and WC-3 (480-123063-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-123063-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-373744.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-373744.

Method(s) 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-373744.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123063-1

Client Sample ID: WC-1 — Lab Sample ID: 480-123063-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.046		0.010	0.0041	mg/L	10		8260C	TCLP
gamma-BHC (Lindane)	0.000068	J	0.00020	0.0000060	mg/L	1		8081B	TCLP
PCB-1260	0.42		0.25	0.12	mg/Kg	1	☼	8082A	Total/NA
Arsenic	0.013	J B	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.67	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.00089	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.11		0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	21.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-2 — Lab Sample ID: 480-123063-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.041		0.010	0.0041	mg/L	10		8260C	TCLP
PCB-1260	0.48		0.24	0.11	mg/Kg	1	☼	8082A	Total/NA
Barium	0.46	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0041		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.98		0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	21.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-3 — Lab Sample ID: 480-123063-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0070	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	1.2		1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0085		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	3.0		0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	21.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-1

Date Collected: 08/22/17 15:10
Date Received: 08/23/17 01:45

Lab Sample ID: 480-123063-1

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			08/30/17 23:59	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			08/30/17 23:59	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			08/30/17 23:59	10
Benzene	**0.046**		0.010	0.0041	mg/L			08/30/17 23:59	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			08/30/17 23:59	10
Chlorobenzene	ND		0.010	0.0075	mg/L			08/30/17 23:59	10
Chloroform	ND		0.010	0.0034	mg/L			08/30/17 23:59	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			08/30/17 23:59	10
Trichloroethene	ND		0.010	0.0046	mg/L			08/30/17 23:59	10
Vinyl chloride	ND		0.010	0.0090	mg/L			08/30/17 23:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*08/30/17 23:59*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/30/17 23:59*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/30/17 23:59*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/30/17 23:59*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		08/25/17 09:20	08/28/17 21:23	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		08/25/17 09:20	08/28/17 21:23	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		08/25/17 09:20	08/28/17 21:23	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		08/25/17 09:20	08/28/17 21:23	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		08/25/17 09:20	08/28/17 21:23	1
3-Methylphenol	ND		0.010	0.00040	mg/L		08/25/17 09:20	08/28/17 21:23	1
4-Methylphenol	ND		0.010	0.00036	mg/L		08/25/17 09:20	08/28/17 21:23	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		08/25/17 09:20	08/28/17 21:23	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		08/25/17 09:20	08/28/17 21:23	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		08/25/17 09:20	08/28/17 21:23	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		08/25/17 09:20	08/28/17 21:23	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		08/25/17 09:20	08/28/17 21:23	1
Pyridine	ND		0.025	0.00041	mg/L		08/25/17 09:20	08/28/17 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*41 - 120*	*08/25/17 09:20*	*08/28/17 21:23*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*08/25/17 09:20*	*08/28/17 21:23*	*1*
2-Fluorophenol	*50*		*35 - 120*	*08/25/17 09:20*	*08/28/17 21:23*	*1*
Nitrobenzene-d5	*95*		*46 - 120*	*08/25/17 09:20*	*08/28/17 21:23*	*1*
Phenol-d5	*34*		*22 - 120*	*08/25/17 09:20*	*08/28/17 21:23*	*1*
p-Terphenyl-d14	*96*		*59 - 136*	*08/25/17 09:20*	*08/28/17 21:23*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		08/25/17 07:45	08/26/17 18:19	1
Endrin	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 18:19	1
gamma-BHC (Lindane)	**0.000068**	**J**	0.00020	0.0000060	mg/L		08/25/17 07:45	08/26/17 18:19	1
Heptachlor	ND		0.00020	0.0000085	mg/L		08/25/17 07:45	08/26/17 18:19	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		08/25/17 07:45	08/26/17 18:19	1
Methoxychlor	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 18:19	1
Toxaphene	ND		0.0020	0.00012	mg/L		08/25/17 07:45	08/26/17 18:19	1

Client Sample ID: WC-1
Date Collected: 08/22/17 15:10
Date Received: 08/23/17 01:45

Lab Sample ID: 480-123063-1
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*20 - 120*	*08/25/17 07:45*	*08/26/17 18:19*	*1*
DCB Decachlorobiphenyl	*77*		*20 - 120*	*08/25/17 07:45*	*08/26/17 18:19*	*1*
Tetrachloro-m-xylene	*85*		*44 - 120*	*08/25/17 07:45*	*08/26/17 18:19*	*1*
Tetrachloro-m-xylene	*61*		*44 - 120*	*08/25/17 07:45*	*08/26/17 18:19*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		08/25/17 09:24	08/29/17 08:25	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		08/25/17 09:24	08/29/17 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*18*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 08:25*	*1*
2,4-Dichlorophenylacetic acid	*20*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 08:25*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**	**J B**	0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 13:00	1
Barium	**0.67**	**J**	1.0	0.10	mg/L		08/25/17 09:22	08/28/17 13:00	1
Cadmium	**0.00089**	**J**	0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 13:00	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 13:00	1
Lead	**0.11**		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 13:00	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 13:00	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 13:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:14	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			08/25/17 15:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		08/25/17 02:30	08/25/17 11:38	1
Sulfide, Reactive	ND		10	10	mg/Kg		08/25/17 02:30	08/25/17 12:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			08/29/17 16:45	1
pH	**8.5**	**HF**	0.1	0.1	SU			08/27/17 11:37	1
Temperature	**21.1**	**HF**	0.001	0.001	Degrees C			08/27/17 11:37	1

Client Sample ID: WC-1
Date Collected: 08/22/17 15:10
Date Received: 08/23/17 01:45

Lab Sample ID: 480-123063-1
Matrix: Solid
Percent Solids: 75.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1

Client Sample ID: WC-1

Lab Sample ID: 480-123063-1

Date Collected: 08/22/17 15:10

Matrix: Solid

Date Received: 08/23/17 01:45

Percent Solids: 75.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	**0.42**		0.25	0.12	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1
PCB-1262	ND		0.25	0.12	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1
PCB-1268	ND		0.25	0.12	mg/Kg	☼	08/23/17 14:18	08/24/17 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*65 - 174*	*08/23/17 14:18*	*08/24/17 21:23*	*1*
DCB Decachlorobiphenyl	*83*		*65 - 174*	*08/23/17 14:18*	*08/24/17 21:23*	*1*
Tetrachloro-m-xylene	*88*		*60 - 154*	*08/23/17 14:18*	*08/24/17 21:23*	*1*
Tetrachloro-m-xylene	*48*	*X*	*60 - 154*	*08/23/17 14:18*	*08/24/17 21:23*	*1*

Client Sample ID: WC-2

Lab Sample ID: 480-123063-2

Date Collected: 08/22/17 13:30

Matrix: Solid

Date Received: 08/23/17 01:45

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			08/31/17 00:26	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			08/31/17 00:26	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			08/31/17 00:26	10
Benzene	**0.041**		0.010	0.0041	mg/L			08/31/17 00:26	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			08/31/17 00:26	10
Chlorobenzene	ND		0.010	0.0075	mg/L			08/31/17 00:26	10
Chloroform	ND		0.010	0.0034	mg/L			08/31/17 00:26	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			08/31/17 00:26	10
Trichloroethene	ND		0.010	0.0046	mg/L			08/31/17 00:26	10
Vinyl chloride	ND		0.010	0.0090	mg/L			08/31/17 00:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*77 - 120*		*08/31/17 00:26*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*08/31/17 00:26*	*10*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*08/31/17 00:26*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/31/17 00:26*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		08/25/17 09:20	08/28/17 19:36	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		08/25/17 09:20	08/28/17 19:36	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		08/25/17 09:20	08/28/17 19:36	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		08/25/17 09:20	08/28/17 19:36	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		08/25/17 09:20	08/28/17 19:36	1
3-Methylphenol	ND		0.010	0.00040	mg/L		08/25/17 09:20	08/28/17 19:36	1
4-Methylphenol	ND		0.010	0.00036	mg/L		08/25/17 09:20	08/28/17 19:36	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		08/25/17 09:20	08/28/17 19:36	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		08/25/17 09:20	08/28/17 19:36	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		08/25/17 09:20	08/28/17 19:36	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		08/25/17 09:20	08/28/17 19:36	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		08/25/17 09:20	08/28/17 19:36	1
Pyridine	ND		0.025	0.00041	mg/L		08/25/17 09:20	08/28/17 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*100*		*41 - 120*	*08/25/17 09:20*	*08/28/17 19:36*	*1*

Client Sample ID: WC-2
Date Collected: 08/22/17 13:30
Date Received: 08/23/17 01:45

Lab Sample ID: 480-123063-2
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*48 - 120*	*08/25/17 09:20*	*08/28/17 19:36*	*1*
2-Fluorophenol	*49*		*35 - 120*	*08/25/17 09:20*	*08/28/17 19:36*	*1*
Nitrobenzene-d5	*92*		*46 - 120*	*08/25/17 09:20*	*08/28/17 19:36*	*1*
Phenol-d5	*34*		*22 - 120*	*08/25/17 09:20*	*08/28/17 19:36*	*1*
p-Terphenyl-d14	*106*		*59 - 136*	*08/25/17 09:20*	*08/28/17 19:36*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		08/25/17 07:45	08/26/17 17:01	1
Endrin	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 17:01	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		08/25/17 07:45	08/26/17 17:01	1
Heptachlor	ND		0.00020	0.0000085	mg/L		08/25/17 07:45	08/26/17 17:01	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		08/25/17 07:45	08/26/17 17:01	1
Methoxychlor	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 17:01	1
Toxaphene	ND		0.0020	0.00012	mg/L		08/25/17 07:45	08/26/17 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*20 - 120*	*08/25/17 07:45*	*08/26/17 17:01*	*1*
DCB Decachlorobiphenyl	*82*		*20 - 120*	*08/25/17 07:45*	*08/26/17 17:01*	*1*
Tetrachloro-m-xylene	*88*		*44 - 120*	*08/25/17 07:45*	*08/26/17 17:01*	*1*
Tetrachloro-m-xylene	*70*		*44 - 120*	*08/25/17 07:45*	*08/26/17 17:01*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		08/25/17 09:24	08/29/17 06:25	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		08/25/17 09:24	08/29/17 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*21*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 06:25*	*1*
2,4-Dichlorophenylacetic acid	*23*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 06:25*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 13:44	1
Barium	**0.46**	**J**	1.0	0.10	mg/L		08/25/17 09:22	08/28/17 13:44	1
Cadmium	**0.0041**		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 13:44	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 13:44	1
Lead	**0.98**		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 13:44	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 13:44	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 13:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:30	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			08/25/17 15:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		08/25/17 02:30	08/25/17 11:38	1

Client Sample ID: WC-2

Date Collected: 08/22/17 13:30
Date Received: 08/23/17 01:45

Lab Sample ID: 480-123063-2
Matrix: Solid

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10	10	mg/Kg		08/25/17 02:30	08/25/17 12:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			08/29/17 16:45	1
pH	**8.2**	**HF**	0.1	0.1	SU			08/27/17 11:37	1
Temperature	**21.8**	**HF**	0.001	0.001	Degrees C			08/27/17 11:37	1

Client Sample ID: WC-2

Date Collected: 08/22/17 13:30
Date Received: 08/23/17 01:45

Lab Sample ID: 480-123063-2
Matrix: Solid
Percent Solids: 86.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1
PCB-1260	**0.48**		0.24	0.11	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1
PCB-1262	ND		0.24	0.11	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1
PCB-1268	ND		0.24	0.11	mg/Kg	☼	08/23/17 14:18	08/24/17 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*08/23/17 14:18*	*08/24/17 21:38*	*1*
DCB Decachlorobiphenyl	*102*		*65 - 174*	*08/23/17 14:18*	*08/24/17 21:38*	*1*
Tetrachloro-m-xylene	*107*		*60 - 154*	*08/23/17 14:18*	*08/24/17 21:38*	*1*
Tetrachloro-m-xylene	*79*		*60 - 154*	*08/23/17 14:18*	*08/24/17 21:38*	*1*

Client Sample ID: WC-3

Date Collected: 08/22/17 09:20
Date Received: 08/23/17 01:45

Lab Sample ID: 480-123063-3
Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			08/31/17 00:53	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			08/31/17 00:53	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			08/31/17 00:53	10
Benzene	ND		0.010	0.0041	mg/L			08/31/17 00:53	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			08/31/17 00:53	10
Chlorobenzene	ND		0.010	0.0075	mg/L			08/31/17 00:53	10
Chloroform	ND		0.010	0.0034	mg/L			08/31/17 00:53	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			08/31/17 00:53	10
Trichloroethene	ND		0.010	0.0046	mg/L			08/31/17 00:53	10
Vinyl chloride	ND		0.010	0.0090	mg/L			08/31/17 00:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*77 - 120*		*08/31/17 00:53*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/31/17 00:53*	*10*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*08/31/17 00:53*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/31/17 00:53*	*10*

Client Sample ID: WC-3
Date Collected: 08/22/17 09:20
Date Received: 08/23/17 01:45

Lab Sample ID: 480-123063-3
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		08/25/17 09:20	08/28/17 20:03	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		08/25/17 09:20	08/28/17 20:03	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		08/25/17 09:20	08/28/17 20:03	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		08/25/17 09:20	08/28/17 20:03	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		08/25/17 09:20	08/28/17 20:03	1
3-Methylphenol	ND		0.010	0.00040	mg/L		08/25/17 09:20	08/28/17 20:03	1
4-Methylphenol	ND		0.010	0.00036	mg/L		08/25/17 09:20	08/28/17 20:03	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		08/25/17 09:20	08/28/17 20:03	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		08/25/17 09:20	08/28/17 20:03	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		08/25/17 09:20	08/28/17 20:03	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		08/25/17 09:20	08/28/17 20:03	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		08/25/17 09:20	08/28/17 20:03	1
Pyridine	ND		0.025	0.00041	mg/L		08/25/17 09:20	08/28/17 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*41 - 120*	*08/25/17 09:20*	*08/28/17 20:03*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*08/25/17 09:20*	*08/28/17 20:03*	*1*
2-Fluorophenol	*53*		*35 - 120*	*08/25/17 09:20*	*08/28/17 20:03*	*1*
Nitrobenzene-d5	*92*		*46 - 120*	*08/25/17 09:20*	*08/28/17 20:03*	*1*
Phenol-d5	*34*		*22 - 120*	*08/25/17 09:20*	*08/28/17 20:03*	*1*
p-Terphenyl-d14	*104*		*59 - 136*	*08/25/17 09:20*	*08/28/17 20:03*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		08/25/17 07:45	08/26/17 17:20	1
Endrin	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 17:20	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		08/25/17 07:45	08/26/17 17:20	1
Heptachlor	ND		0.00020	0.0000085	mg/L		08/25/17 07:45	08/26/17 17:20	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		08/25/17 07:45	08/26/17 17:20	1
Methoxychlor	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 17:20	1
Toxaphene	ND		0.0020	0.00012	mg/L		08/25/17 07:45	08/26/17 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*20 - 120*	*08/25/17 07:45*	*08/26/17 17:20*	*1*
DCB Decachlorobiphenyl	*86*		*20 - 120*	*08/25/17 07:45*	*08/26/17 17:20*	*1*
Tetrachloro-m-xylene	*95*		*44 - 120*	*08/25/17 07:45*	*08/26/17 17:20*	*1*
Tetrachloro-m-xylene	*69*		*44 - 120*	*08/25/17 07:45*	*08/26/17 17:20*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		08/25/17 09:24	08/29/17 06:55	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		08/25/17 09:24	08/29/17 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*14*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 06:55*	*1*
2,4-Dichlorophenylacetic acid	*14*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 06:55*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0070**	**J**	0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 14:02	1
Barium	**1.2**		1.0	0.10	mg/L		08/25/17 09:22	08/28/17 14:02	1

Client Sample ID: WC-3

Lab Sample ID: 480-123063-3

Date Collected: 08/22/17 09:20

Matrix: Solid

Date Received: 08/23/17 01:45

Method: 6010C - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0085**		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 14:02	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 14:02	1
Lead	**3.0**		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 14:02	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 14:02	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 14:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:37	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			08/25/17 15:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		08/25/17 02:30	08/25/17 11:38	1
Sulfide, Reactive	ND		10	10	mg/Kg		08/25/17 02:30	08/25/17 12:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			08/29/17 16:45	1
pH	**8.2**	**HF**	0.1	0.1	SU			08/27/17 11:37	1
Temperature	**21.1**	**HF**	0.001	0.001	Degrees C			08/27/17 11:37	1

Client Sample ID: WC-3

Lab Sample ID: 480-123063-3

Date Collected: 08/22/17 09:20

Matrix: Solid

Date Received: 08/23/17 01:45

Percent Solids: 83.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1
PCB-1262	ND		0.22	0.10	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1
PCB-1268	ND		0.22	0.10	mg/Kg	☼	08/23/17 14:18	08/24/17 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*08/23/17 14:18*	*08/24/17 21:53*	*1*
DCB Decachlorobiphenyl	*92*		*65 - 174*	*08/23/17 14:18*	*08/24/17 21:53*	*1*
Tetrachloro-m-xylene	*97*		*60 - 154*	*08/23/17 14:18*	*08/24/17 21:53*	*1*
Tetrachloro-m-xylene	*86*		*60 - 154*	*08/23/17 14:18*	*08/24/17 21:53*	*1*

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-374714/4	Lab Control Sample	86	101	95	104
MB 480-374714/6	Method Blank	92	97	99	101

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-123063-1	WC-1	91	101	96	102
480-123063-1 MS	WC-1	92	101	98	101
480-123063-1 MSD	WC-1	91	102	97	105
480-123063-2	WC-2	89	99	94	102
480-123063-3	WC-3	87	100	93	103
LB 480-373731/1-A	Method Blank	92	100	96	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
LCS 480-373922/2-A	Lab Control Sample	106	93	50	97	37	104
LCSD 480-373922/3-A	Lab Control Sample Dup	105	95	53	100	35	105
MB 480-373922/1-A	Method Blank	86	86	48	88	32	101

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123063-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-123063-1	WC-1	99	90	50	95	34	96
480-123063-2	WC-2	100	90	49	92	34	106
480-123063-3	WC-3	99	90	53	92	34	104
LB 480-373730/1-D	Method Blank	84	85	46	86	35	98
LB2 480-373744/1-D	Method Blank	89	97	49	92	36	103

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
LCS 480-373894/2-A	Lab Control Sample	51	57	87	77
LCSD 480-373894/3-A	Lab Control Sample Dup	48	54	80	70
MB 480-373894/1-A	Method Blank	48	54	83	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-123063-1	WC-1	77	77	85	61
480-123063-2	WC-2	81	82	88	70
480-123063-3	WC-3	87	86	95	69
LB 480-373730/1-C	Method Blank	80	79	83	71
LB2 480-373744/1-C	Method Blank	72	77	75	64

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123063-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(65-174)	(65-174)	(60-154)	(60-154)
480-123063-1	WC-1	65	83	88	48 X
480-123063-1 MS	WC-1	129	156	134	125
480-123063-1 MSD	WC-1	114	134	123	110
480-123063-2	WC-2	97	102	107	79
480-123063-3	WC-3	109	92	97	86
LCS 480-373579/2-A	Lab Control Sample	138	138	145	128
MB 480-373579/1-A	Method Blank	133	123	136	118

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
LCS 480-373932/2-A	Lab Control Sample	65	75
LCSD 480-373932/3-A	Lab Control Sample Dup	96	86
MB 480-373932/1-A	Method Blank	83	88

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
480-123063-1	WC-1	18 X	20 X
480-123063-2	WC-2	21 X	23 X
480-123063-3	WC-3	14 X	14 X
LB 480-373730/1-E	Method Blank	13 X	16 X
LB2 480-373744/1-E	Method Blank	10 X	10 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-374714/6
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			08/30/17 22:47	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			08/30/17 22:47	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			08/30/17 22:47	1
Benzene	ND		0.0010	0.00041	mg/L			08/30/17 22:47	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			08/30/17 22:47	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			08/30/17 22:47	1
Chloroform	ND		0.0010	0.00034	mg/L			08/30/17 22:47	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			08/30/17 22:47	1
Trichloroethene	ND		0.0010	0.00046	mg/L			08/30/17 22:47	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			08/30/17 22:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*08/30/17 22:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*08/30/17 22:47*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/30/17 22:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/30/17 22:47*	*1*

Lab Sample ID: LCS 480-374714/4
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0222		mg/L		89	66 - 127
1,2-Dichloroethane	0.0250	0.0192		mg/L		77	75 - 120
2-Butanone (MEK)	0.125	0.129		mg/L		104	57 - 140
Benzene	0.0250	0.0243		mg/L		97	71 - 124
Carbon tetrachloride	0.0250	0.0196		mg/L		78	72 - 134
Chlorobenzene	0.0250	0.0238		mg/L		95	80 - 120
Chloroform	0.0250	0.0201		mg/L		80	73 - 127
Tetrachloroethene	0.0250	0.0227		mg/L		91	74 - 122
Trichloroethene	0.0250	0.0231		mg/L		93	74 - 123
Vinyl chloride	0.0250	0.0183		mg/L		73	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LB 480-373731/1-A
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			08/30/17 23:32	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			08/30/17 23:32	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			08/30/17 23:32	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-373731/1-A
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			08/30/17 23:32	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			08/30/17 23:32	10
Chlorobenzene	ND		0.010	0.0075	mg/L			08/30/17 23:32	10
Chloroform	ND		0.010	0.0034	mg/L			08/30/17 23:32	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			08/30/17 23:32	10
Trichloroethene	ND		0.010	0.0046	mg/L			08/30/17 23:32	10
Vinyl chloride	ND		0.010	0.0090	mg/L			08/30/17 23:32	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*08/30/17 23:32*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/30/17 23:32*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/30/17 23:32*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/30/17 23:32*	*10*

Lab Sample ID: 480-123063-1 MS
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: WC-1
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		0.250	0.196		mg/L		79	66 - 127
1,2-Dichloroethane	ND		0.250	0.209		mg/L		84	75 - 120
2-Butanone (MEK)	ND		1.25	1.34		mg/L		107	57 - 140
Benzene	0.046		0.250	0.285		mg/L		96	71 - 124
Carbon tetrachloride	ND		0.250	0.210		mg/L		84	72 - 134
Chlorobenzene	ND		0.250	0.236		mg/L		94	80 - 120
Chloroform	ND		0.250	0.212		mg/L		85	73 - 127
Tetrachloroethene	ND		0.250	0.223		mg/L		89	74 - 122
Trichloroethene	ND		0.250	0.243		mg/L		97	74 - 123
Vinyl chloride	ND		0.250	0.192		mg/L		77	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 480-123063-1 MSD
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: WC-1
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		0.250	0.202		mg/L		81	66 - 127	3	16
1,2-Dichloroethane	ND		0.250	0.210		mg/L		84	75 - 120	0	20
2-Butanone (MEK)	ND		1.25	1.30		mg/L		104	57 - 140	3	20
Benzene	0.046		0.250	0.290		mg/L		97	71 - 124	1	13
Carbon tetrachloride	ND		0.250	0.234		mg/L		94	72 - 134	11	15
Chlorobenzene	ND		0.250	0.247		mg/L		99	80 - 120	5	25
Chloroform	ND		0.250	0.214		mg/L		86	73 - 127	1	20

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: 480-123063-1 MSD
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: WC-1
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		0.250	0.247		mg/L		99	74 - 122	10	20
Trichloroethene	ND		0.250	0.246		mg/L		98	74 - 123	1	16
Vinyl chloride	ND		0.250	0.220		mg/L		88	65 - 133	13	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-373922/1-A
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		08/25/17 09:20	08/28/17 17:48	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		08/25/17 09:20	08/28/17 17:48	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		08/25/17 09:20	08/28/17 17:48	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		08/25/17 09:20	08/28/17 17:48	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		08/25/17 09:20	08/28/17 17:48	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		08/25/17 09:20	08/28/17 17:48	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		08/25/17 09:20	08/28/17 17:48	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		08/25/17 09:20	08/28/17 17:48	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		08/25/17 09:20	08/28/17 17:48	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		08/25/17 09:20	08/28/17 17:48	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		08/25/17 09:20	08/28/17 17:48	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		08/25/17 09:20	08/28/17 17:48	1
Pyridine	ND		0.0063	0.00010	mg/L		08/25/17 09:20	08/28/17 17:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*41 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
2-Fluorobiphenyl	*86*		*48 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
2-Fluorophenol	*48*		*35 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
Nitrobenzene-d5	*88*		*46 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
Phenol-d5	*32*		*22 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
p-Terphenyl-d14	*101*		*59 - 136*	*08/25/17 09:20*	*08/28/17 17:48*	*1*

Lab Sample ID: LCS 480-373922/2-A
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0340		mg/L		68	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0486		mg/L		97	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0493		mg/L		99	64 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-373922/2-A
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	0.0500	0.0497		mg/L		99	69 - 120
2-Methylphenol	0.0500	0.0372		mg/L		74	39 - 120
3-Methylphenol	0.0500	0.0357		mg/L		71	39 - 120
4-Methylphenol	0.0500	0.0357		mg/L		71	29 - 131
Hexachlorobenzene	0.0500	0.0519		mg/L		104	61 - 120
Hexachlorobutadiene	0.0500	0.0357		mg/L		71	35 - 120
Hexachloroethane	0.0500	0.0353		mg/L		71	43 - 120
Nitrobenzene	0.0500	0.0465		mg/L		93	53 - 123
Pentachlorophenol	0.100	0.0951		mg/L		95	29 - 136
Pyridine	0.100	0.0545		mg/L		54	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*41 - 120*
2-Fluorobiphenyl	*93*		*48 - 120*
2-Fluorophenol	*50*		*35 - 120*
Nitrobenzene-d5	*97*		*46 - 120*
Phenol-d5	*37*		*22 - 120*
p-Terphenyl-d14	*104*		*59 - 136*

Lab Sample ID: LCSD 480-373922/3-A
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0500	0.0325		mg/L		65	51 - 120	4	36
2,4,5-Trichlorophenol	0.0500	0.0509		mg/L		102	65 - 126	5	18
2,4,6-Trichlorophenol	0.0500	0.0504		mg/L		101	64 - 120	2	19
2,4-Dinitrotoluene	0.0500	0.0483		mg/L		97	69 - 120	3	20
2-Methylphenol	0.0500	0.0351		mg/L		70	39 - 120	6	27
3-Methylphenol	0.0500	0.0335		mg/L		67	39 - 120	6	30
4-Methylphenol	0.0500	0.0335		mg/L		67	29 - 131	6	24
Hexachlorobenzene	0.0500	0.0484		mg/L		97	61 - 120	7	15
Hexachlorobutadiene	0.0500	0.0383		mg/L		77	35 - 120	7	44
Hexachloroethane	0.0500	0.0340		mg/L		68	43 - 120	4	46
Nitrobenzene	0.0500	0.0493		mg/L		99	53 - 123	6	24
Pentachlorophenol	0.100	0.0951		mg/L		95	29 - 136	0	37
Pyridine	0.100	0.0541		mg/L		54	10 - 120	1	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*41 - 120*
2-Fluorobiphenyl	*95*		*48 - 120*
2-Fluorophenol	*53*		*35 - 120*
Nitrobenzene-d5	*100*		*46 - 120*
Phenol-d5	*35*		*22 - 120*
p-Terphenyl-d14	*105*		*59 - 136*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-373730/1-D
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373922

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		08/25/17 09:20	08/28/17 19:09	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		08/25/17 09:20	08/28/17 19:09	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		08/25/17 09:20	08/28/17 19:09	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		08/25/17 09:20	08/28/17 19:09	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		08/25/17 09:20	08/28/17 19:09	1
3-Methylphenol	ND		0.010	0.00040	mg/L		08/25/17 09:20	08/28/17 19:09	1
4-Methylphenol	ND		0.010	0.00036	mg/L		08/25/17 09:20	08/28/17 19:09	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		08/25/17 09:20	08/28/17 19:09	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		08/25/17 09:20	08/28/17 19:09	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		08/25/17 09:20	08/28/17 19:09	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		08/25/17 09:20	08/28/17 19:09	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		08/25/17 09:20	08/28/17 19:09	1
Pyridine	ND		0.025	0.00041	mg/L		08/25/17 09:20	08/28/17 19:09	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*41 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
2-Fluorophenol	*46*		*35 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
Nitrobenzene-d5	*86*		*46 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
Phenol-d5	*35*		*22 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
p-Terphenyl-d14	*98*		*59 - 136*	*08/25/17 09:20*	*08/28/17 19:09*	*1*

Lab Sample ID: LB2 480-373744/1-D
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373922

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		08/25/17 09:20	08/28/17 20:56	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		08/25/17 09:20	08/28/17 20:56	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		08/25/17 09:20	08/28/17 20:56	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		08/25/17 09:20	08/28/17 20:56	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		08/25/17 09:20	08/28/17 20:56	1
3-Methylphenol	ND		0.010	0.00040	mg/L		08/25/17 09:20	08/28/17 20:56	1
4-Methylphenol	ND		0.010	0.00036	mg/L		08/25/17 09:20	08/28/17 20:56	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		08/25/17 09:20	08/28/17 20:56	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		08/25/17 09:20	08/28/17 20:56	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		08/25/17 09:20	08/28/17 20:56	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		08/25/17 09:20	08/28/17 20:56	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		08/25/17 09:20	08/28/17 20:56	1
Pyridine	ND		0.025	0.00041	mg/L		08/25/17 09:20	08/28/17 20:56	1

Surrogate	*LB2 %Recovery*	*LB2 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*41 - 120*	*08/25/17 09:20*	*08/28/17 20:56*	*1*
2-Fluorobiphenyl	*97*		*48 - 120*	*08/25/17 09:20*	*08/28/17 20:56*	*1*
2-Fluorophenol	*49*		*35 - 120*	*08/25/17 09:20*	*08/28/17 20:56*	*1*
Nitrobenzene-d5	*92*		*46 - 120*	*08/25/17 09:20*	*08/28/17 20:56*	*1*
Phenol-d5	*36*		*22 - 120*	*08/25/17 09:20*	*08/28/17 20:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB2 480-373744/1-D
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373922

Surrogate	LB2 %Recovery	LB2 Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	*103*		*59 - 136*	*08/25/17 09:20*	*08/28/17 20:56*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-373894/1-A
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		08/25/17 07:45	08/26/17 13:05	1
Endrin	ND		0.000050	0.0000035	mg/L		08/25/17 07:45	08/26/17 13:05	1
gamma-BHC (Lindane)	ND		0.000050	0.0000015	mg/L		08/25/17 07:45	08/26/17 13:05	1
Heptachlor	ND		0.000050	0.0000021	mg/L		08/25/17 07:45	08/26/17 13:05	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		08/25/17 07:45	08/26/17 13:05	1
Methoxychlor	ND		0.000050	0.0000035	mg/L		08/25/17 07:45	08/26/17 13:05	1
Toxaphene	ND		0.00050	0.000030	mg/L		08/25/17 07:45	08/26/17 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*48*		*20 - 120*	*08/25/17 07:45*	*08/26/17 13:05*	*1*
DCB Decachlorobiphenyl	*54*		*20 - 120*	*08/25/17 07:45*	*08/26/17 13:05*	*1*
Tetrachloro-m-xylene	*83*		*44 - 120*	*08/25/17 07:45*	*08/26/17 13:05*	*1*
Tetrachloro-m-xylene	*74*		*44 - 120*	*08/25/17 07:45*	*08/26/17 13:05*	*1*

Lab Sample ID: LCS 480-373894/2-A
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000555		mg/L		111	65 - 135
gamma-BHC (Lindane)	0.000500	0.000518		mg/L		104	56 - 120
Heptachlor	0.000500	0.000477		mg/L		95	58 - 120
Heptachlor epoxide	0.000500	0.000550		mg/L		110	65 - 125
Methoxychlor	0.000500	0.000564		mg/L		113	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	*51*		*20 - 120*
DCB Decachlorobiphenyl	*57*		*20 - 120*
Tetrachloro-m-xylene	*87*		*44 - 120*
Tetrachloro-m-xylene	*77*		*44 - 120*

Lab Sample ID: LCSD 480-373894/3-A
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000525		mg/L		105	65 - 135	6	24
gamma-BHC (Lindane)	0.000500	0.000484		mg/L		97	56 - 120	7	24

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 480-373894/3-A
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373894

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor			0.000500	0.000438		mg/L		88	58 - 120	9	25
Heptachlor epoxide			0.000500	0.000518		mg/L		104	65 - 125	6	23
Methoxychlor			0.000500	0.000535		mg/L		107	50 - 150	5	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*48*		*20 - 120*
DCB Decachlorobiphenyl	*54*		*20 - 120*
Tetrachloro-m-xylene	*80*		*44 - 120*
Tetrachloro-m-xylene	*70*		*44 - 120*

Lab Sample ID: LB 480-373730/1-C
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373894

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		08/25/17 07:45	08/26/17 16:41	1
Endrin	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 16:41	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		08/25/17 07:45	08/26/17 16:41	1
Heptachlor	ND		0.00020	0.0000085	mg/L		08/25/17 07:45	08/26/17 16:41	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		08/25/17 07:45	08/26/17 16:41	1
Methoxychlor	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 16:41	1
Toxaphene	ND		0.0020	0.00012	mg/L		08/25/17 07:45	08/26/17 16:41	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*20 - 120*	*08/25/17 07:45*	*08/26/17 16:41*	*1*
DCB Decachlorobiphenyl	*79*		*20 - 120*	*08/25/17 07:45*	*08/26/17 16:41*	*1*
Tetrachloro-m-xylene	*83*		*44 - 120*	*08/25/17 07:45*	*08/26/17 16:41*	*1*
Tetrachloro-m-xylene	*71*		*44 - 120*	*08/25/17 07:45*	*08/26/17 16:41*	*1*

Lab Sample ID: LB2 480-373744/1-C
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373894

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		08/25/17 07:45	08/26/17 18:00	1
Endrin	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 18:00	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		08/25/17 07:45	08/26/17 18:00	1
Heptachlor	ND		0.00020	0.0000085	mg/L		08/25/17 07:45	08/26/17 18:00	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		08/25/17 07:45	08/26/17 18:00	1
Methoxychlor	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 18:00	1
Toxaphene	ND		0.0020	0.00012	mg/L		08/25/17 07:45	08/26/17 18:00	1

Surrogate	*LB2 %Recovery*	*LB2 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*20 - 120*	*08/25/17 07:45*	*08/26/17 18:00*	*1*
DCB Decachlorobiphenyl	*77*		*20 - 120*	*08/25/17 07:45*	*08/26/17 18:00*	*1*
Tetrachloro-m-xylene	*75*		*44 - 120*	*08/25/17 07:45*	*08/26/17 18:00*	*1*
Tetrachloro-m-xylene	*64*		*44 - 120*	*08/25/17 07:45*	*08/26/17 18:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-373579/1-A
Matrix: Solid
Analysis Batch: 373762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.038	mg/Kg		08/23/17 14:18	08/24/17 19:51	1
PCB-1221	ND		0.19	0.038	mg/Kg		08/23/17 14:18	08/24/17 19:51	1
PCB-1232	ND		0.19	0.038	mg/Kg		08/23/17 14:18	08/24/17 19:51	1
PCB-1242	ND		0.19	0.038	mg/Kg		08/23/17 14:18	08/24/17 19:51	1
PCB-1248	ND		0.19	0.038	mg/Kg		08/23/17 14:18	08/24/17 19:51	1
PCB-1254	ND		0.19	0.091	mg/Kg		08/23/17 14:18	08/24/17 19:51	1
PCB-1260	ND		0.19	0.091	mg/Kg		08/23/17 14:18	08/24/17 19:51	1
PCB-1262	ND		0.19	0.091	mg/Kg		08/23/17 14:18	08/24/17 19:51	1
PCB-1268	ND		0.19	0.091	mg/Kg		08/23/17 14:18	08/24/17 19:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*08/23/17 14:18*	*08/24/17 19:51*	*1*
DCB Decachlorobiphenyl	*123*		*65 - 174*	*08/23/17 14:18*	*08/24/17 19:51*	*1*
Tetrachloro-m-xylene	*136*		*60 - 154*	*08/23/17 14:18*	*08/24/17 19:51*	*1*
Tetrachloro-m-xylene	*118*		*60 - 154*	*08/23/17 14:18*	*08/24/17 19:51*	*1*

Lab Sample ID: LCS 480-373579/2-A
Matrix: Solid
Analysis Batch: 373762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373579

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.01	2.74		mg/Kg		137	51 - 185		
PCB-1260			2.01	2.98		mg/Kg		148	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*138*		*65 - 174*
DCB Decachlorobiphenyl	*138*		*65 - 174*
Tetrachloro-m-xylene	*145*		*60 - 154*
Tetrachloro-m-xylene	*128*		*60 - 154*

Lab Sample ID: 480-123063-1 MS
Matrix: Solid
Analysis Batch: 373762

Client Sample ID: WC-1
Prep Type: Total/NA
Prep Batch: 373579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.57	2.92		mg/Kg	☼	113	50 - 177		
PCB-1260	0.42		2.57	4.09		mg/Kg	☼	143	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*129*		*65 - 174*
DCB Decachlorobiphenyl	*156*		*65 - 174*
Tetrachloro-m-xylene	*134*		*60 - 154*
Tetrachloro-m-xylene	*125*		*60 - 154*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-123063-1 MSD
Matrix: Solid
Analysis Batch: 373762

Client Sample ID: WC-1
Prep Type: Total/NA
Prep Batch: 373579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.52	1.96		mg/Kg	☼	78	50 - 177	39	50
PCB-1260	0.42		2.52	2.79		mg/Kg	☼	94	33 - 200	38	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*		*65 - 174*
DCB Decachlorobiphenyl	*134*		*65 - 174*
Tetrachloro-m-xylene	*123*		*60 - 154*
Tetrachloro-m-xylene	*110*		*60 - 154*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-373932/1-A
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		08/25/17 09:24	08/29/17 04:26	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		08/25/17 09:24	08/29/17 04:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*48 - 132*	*08/25/17 09:24*	*08/29/17 04:26*	*1*
2,4-Dichlorophenylacetic acid	*88*		*48 - 132*	*08/25/17 09:24*	*08/29/17 04:26*	*1*

Lab Sample ID: LCS 480-373932/2-A
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373932

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.00200	0.00176		mg/L		88	36 - 150		
Silvex (2,4,5-TP)			0.00200	0.00144		mg/L		72	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*65*		*48 - 132*
2,4-Dichlorophenylacetic acid	*75*		*48 - 132*

Lab Sample ID: LCSD 480-373932/3-A
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373932

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.00200	0.00248		mg/L		124	36 - 150	34	50
Silvex (2,4,5-TP)			0.00200	0.00170		mg/L		85	49 - 150	17	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*96*		*48 - 132*
2,4-Dichlorophenylacetic acid	*86*		*48 - 132*

Method: 8151 - TCLP Herbicides (Continued)

Lab Sample ID: LB 480-373730/1-E
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373932

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		08/25/17 09:24	08/29/17 05:55	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		08/25/17 09:24	08/29/17 05:55	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*13*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 05:55*	*1*
2,4-Dichlorophenylacetic acid	*16*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 05:55*	*1*

Lab Sample ID: LB2 480-373744/1-E
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373932

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		08/25/17 09:24	08/29/17 07:55	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		08/25/17 09:24	08/29/17 07:55	1

Surrogate	*LB2 %Recovery*	*LB2 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*10*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 07:55*	*1*
2,4-Dichlorophenylacetic acid	*10*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 07:55*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-373905/2-A
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 13:37	1
Barium	ND		1.0	0.10	mg/L		08/25/17 09:22	08/28/17 13:37	1
Cadmium	ND		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 13:37	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 13:37	1
Lead	ND		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 13:37	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 13:37	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 13:37	1

Lab Sample ID: LCS 480-373905/3-A
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.10		mg/L		110	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Cadmium	1.00	1.08		mg/L		108	80 - 120
Chromium	1.00	1.04		mg/L		104	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Selenium	1.00	1.10		mg/L		110	80 - 120
Silver	1.00	1.10		mg/L		110	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-373906/2-A
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 12:53	1
Barium	ND		1.0	0.10	mg/L		08/25/17 09:22	08/28/17 12:53	1
Cadmium	ND		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 12:53	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 12:53	1
Lead	ND		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 12:53	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 12:53	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 12:53	1

Lab Sample ID: LCS 480-373906/3-A
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.991		mg/L		99	80 - 120
Barium	1.00	0.970	J	mg/L		97	80 - 120
Cadmium	1.00	0.992		mg/L		99	80 - 120
Chromium	1.00	0.994		mg/L		99	80 - 120
Lead	1.00	0.954		mg/L		95	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Silver	1.00	0.980		mg/L		98	80 - 120

Lab Sample ID: LB 480-373730/1-B
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373905

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 13:33	1
Barium	ND		1.0	0.10	mg/L		08/25/17 09:22	08/28/17 13:33	1
Cadmium	ND		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 13:33	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 13:33	1
Lead	ND		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 13:33	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 13:33	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 13:33	1

Lab Sample ID: 480-123063-2 MS
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: WC-2
Prep Type: TCLP
Prep Batch: 373905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.12		mg/L		112	75 - 125
Barium	0.46	J	1.00	1.51		mg/L		104	75 - 125
Cadmium	0.0041		1.00	1.12		mg/L		111	75 - 125
Chromium	ND		1.00	1.03		mg/L		103	75 - 125
Lead	0.98		1.00	2.07		mg/L		108	75 - 125
Selenium	ND		1.00	1.13		mg/L		113	75 - 125
Silver	ND		1.00	1.14		mg/L		114	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-123063-2 MSD
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: WC-2
Prep Type: TCLP
Prep Batch: 373905

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.09		mg/L		109	75 - 125	3	20
Barium	0.46	J	1.00	1.46		mg/L		100	75 - 125	3	20
Cadmium	0.0041		1.00	1.08		mg/L		108	75 - 125	3	20
Chromium	ND		1.00	0.998		mg/L		100	75 - 125	3	20
Lead	0.98		1.00	2.01		mg/L		103	75 - 125	3	20
Selenium	ND		1.00	1.09		mg/L		109	75 - 125	3	20
Silver	ND		1.00	1.11		mg/L		111	75 - 125	3	20

Lab Sample ID: LB2 480-373744/1-B
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373906

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0129	J	0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 12:49	1
Barium	ND		1.0	0.10	mg/L		08/25/17 09:22	08/28/17 12:49	1
Cadmium	ND		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 12:49	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 12:49	1
Lead	ND		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 12:49	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 12:49	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 12:49	1

Lab Sample ID: 480-123063-1 MS
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: WC-1
Prep Type: TCLP
Prep Batch: 373906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.013	J B	1.00	1.05		mg/L		103	75 - 125
Barium	0.67	J	1.00	1.61		mg/L		94	75 - 125
Cadmium	0.00089	J	1.00	1.03		mg/L		103	75 - 125
Chromium	ND		1.00	0.910		mg/L		91	75 - 125
Lead	0.11		1.00	1.07		mg/L		96	75 - 125
Selenium	ND		1.00	1.04		mg/L		104	75 - 125
Silver	ND		1.00	1.05		mg/L		105	75 - 125

Lab Sample ID: 480-123063-1 MSD
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: WC-1
Prep Type: TCLP
Prep Batch: 373906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.013	J B	1.00	1.10		mg/L		108	75 - 125	5	20
Barium	0.67	J	1.00	1.69		mg/L		102	75 - 125	5	20
Cadmium	0.00089	J	1.00	1.07		mg/L		107	75 - 125	4	20
Chromium	ND		1.00	0.958		mg/L		96	75 - 125	5	20
Lead	0.11		1.00	1.12		mg/L		101	75 - 125	4	20
Selenium	ND		1.00	1.09		mg/L		109	75 - 125	4	20
Silver	ND		1.00	1.10		mg/L		110	75 - 125	5	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-373972/2-A
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:10	1

Lab Sample ID: LCS 480-373972/3-A
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00593		mg/L		89	80 - 120

Lab Sample ID: MB 480-373974/2-A
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:26	1

Lab Sample ID: LCS 480-373974/3-A
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00572		mg/L		86	80 - 120

Lab Sample ID: LB2 480-373744/1-F
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373972

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:08	1

Lab Sample ID: 480-123063-1 MS
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: WC-1
Prep Type: TCLP
Prep Batch: 373972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00668	0.00602		mg/L		90	80 - 120

Lab Sample ID: 480-123063-1 MSD
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: WC-1
Prep Type: TCLP
Prep Batch: 373972

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00668	0.00600		mg/L		90	80 - 120	0	20

Lab Sample ID: LB 480-373730/1-F
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373974

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:21	1

Lab Sample ID: 480-123063-2 MS
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: WC-2
Prep Type: TCLP
Prep Batch: 373974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00668	0.00593		mg/L		89	80 - 120

Lab Sample ID: 480-123063-2 MSD
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: WC-2
Prep Type: TCLP
Prep Batch: 373974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00668	0.00582		mg/L		87	80 - 120	2	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-374475/1
Matrix: Solid
Analysis Batch: 374475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Lab Sample ID: 480-123063-2 DU
Matrix: Solid
Analysis Batch: 374475

Client Sample ID: WC-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>176.0		>176.0		Degrees F		NC	10

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-373875/1-A
Matrix: Solid
Analysis Batch: 374039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		08/25/17 02:30	08/25/17 11:38	1

Lab Sample ID: LCS 480-373875/2-A
Matrix: Solid
Analysis Batch: 374039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	397.5		mg/Kg		40	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-373874/1-A
Matrix: Solid
Analysis Batch: 374042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		08/25/17 02:30	08/25/17 12:20	1

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: LCS 480-373874/2-A
Matrix: Solid
Analysis Batch: 374042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	900	791.5		mg/Kg		88	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-374121/1
Matrix: Solid
Analysis Batch: 374121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

GC/MS VOA

Leach Batch: 373731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	1311	
480-123063-2	WC-2	TCLP	Solid	1311	
480-123063-3	WC-3	TCLP	Solid	1311	
LB 480-373731/1-A	Method Blank	TCLP	Solid	1311	
480-123063-1 MS	WC-1	TCLP	Solid	1311	
480-123063-1 MSD	WC-1	TCLP	Solid	1311	

Analysis Batch: 374714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	8260C	373731
480-123063-2	WC-2	TCLP	Solid	8260C	373731
480-123063-3	WC-3	TCLP	Solid	8260C	373731
LB 480-373731/1-A	Method Blank	TCLP	Solid	8260C	373731
MB 480-374714/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-374714/4	Lab Control Sample	Total/NA	Solid	8260C	
480-123063-1 MS	WC-1	TCLP	Solid	8260C	373731
480-123063-1 MSD	WC-1	TCLP	Solid	8260C	373731

GC/MS Semi VOA

Leach Batch: 373730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-2	WC-2	TCLP	Solid	1311	
480-123063-3	WC-3	TCLP	Solid	1311	
LB 480-373730/1-D	Method Blank	TCLP	Solid	1311	

Leach Batch: 373744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	1311	
LB2 480-373744/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 373922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	3510C	373744
480-123063-2	WC-2	TCLP	Solid	3510C	373730
480-123063-3	WC-3	TCLP	Solid	3510C	373730
LB 480-373730/1-D	Method Blank	TCLP	Solid	3510C	373730
LB2 480-373744/1-D	Method Blank	TCLP	Solid	3510C	373744
MB 480-373922/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-373922/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-373922/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 374209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	8270D	373922
480-123063-2	WC-2	TCLP	Solid	8270D	373922
480-123063-3	WC-3	TCLP	Solid	8270D	373922
LB 480-373730/1-D	Method Blank	TCLP	Solid	8270D	373922
LB2 480-373744/1-D	Method Blank	TCLP	Solid	8270D	373922
MB 480-373922/1-A	Method Blank	Total/NA	Solid	8270D	373922

GC/MS Semi VOA (Continued)

Analysis Batch: 374209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-373922/2-A	Lab Control Sample	Total/NA	Solid	8270D	373922
LCSD 480-373922/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	373922

GC Semi VOA

Prep Batch: 373579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	3550C	
480-123063-2	WC-2	Total/NA	Solid	3550C	
480-123063-3	WC-3	Total/NA	Solid	3550C	
MB 480-373579/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-373579/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-123063-1 MS	WC-1	Total/NA	Solid	3550C	
480-123063-1 MSD	WC-1	Total/NA	Solid	3550C	

Leach Batch: 373730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-2	WC-2	TCLP	Solid	1311	
480-123063-3	WC-3	TCLP	Solid	1311	
LB 480-373730/1-C	Method Blank	TCLP	Solid	1311	
LB 480-373730/1-E	Method Blank	TCLP	Solid	1311	

Leach Batch: 373744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	1311	
LB2 480-373744/1-C	Method Blank	TCLP	Solid	1311	
LB2 480-373744/1-E	Method Blank	TCLP	Solid	1311	

Analysis Batch: 373762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	8082A	373579
480-123063-2	WC-2	Total/NA	Solid	8082A	373579
480-123063-3	WC-3	Total/NA	Solid	8082A	373579
MB 480-373579/1-A	Method Blank	Total/NA	Solid	8082A	373579
LCS 480-373579/2-A	Lab Control Sample	Total/NA	Solid	8082A	373579
480-123063-1 MS	WC-1	Total/NA	Solid	8082A	373579
480-123063-1 MSD	WC-1	Total/NA	Solid	8082A	373579

Prep Batch: 373894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	3510C	373744
480-123063-2	WC-2	TCLP	Solid	3510C	373730
480-123063-3	WC-3	TCLP	Solid	3510C	373730
LB 480-373730/1-C	Method Blank	TCLP	Solid	3510C	373730
LB2 480-373744/1-C	Method Blank	TCLP	Solid	3510C	373744
MB 480-373894/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-373894/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-373894/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

GC Semi VOA (Continued)

Prep Batch: 373932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	8151A	373744
480-123063-2	WC-2	TCLP	Solid	8151A	373730
480-123063-3	WC-3	TCLP	Solid	8151A	373730
LB 480-373730/1-E	Method Blank	TCLP	Solid	8151A	373730
LB2 480-373744/1-E	Method Blank	TCLP	Solid	8151A	373744
MB 480-373932/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-373932/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-373932/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 374083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	8081B	373894
480-123063-2	WC-2	TCLP	Solid	8081B	373894
480-123063-3	WC-3	TCLP	Solid	8081B	373894
LB 480-373730/1-C	Method Blank	TCLP	Solid	8081B	373894
LB2 480-373744/1-C	Method Blank	TCLP	Solid	8081B	373894
MB 480-373894/1-A	Method Blank	Total/NA	Solid	8081B	373894
LCS 480-373894/2-A	Lab Control Sample	Total/NA	Solid	8081B	373894
LCSD 480-373894/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	373894

Analysis Batch: 374308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	8151	373932
480-123063-2	WC-2	TCLP	Solid	8151	373932
480-123063-3	WC-3	TCLP	Solid	8151	373932
LB 480-373730/1-E	Method Blank	TCLP	Solid	8151	373932
LB2 480-373744/1-E	Method Blank	TCLP	Solid	8151	373932
MB 480-373932/1-A	Method Blank	Total/NA	Solid	8151	373932
LCS 480-373932/2-A	Lab Control Sample	Total/NA	Solid	8151	373932
LCSD 480-373932/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	373932

Metals

Leach Batch: 373730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-2	WC-2	TCLP	Solid	1311	
480-123063-3	WC-3	TCLP	Solid	1311	
LB 480-373730/1-B	Method Blank	TCLP	Solid	1311	
LB 480-373730/1-F	Method Blank	TCLP	Solid	1311	
480-123063-2 MS	WC-2	TCLP	Solid	1311	
480-123063-2 MSD	WC-2	TCLP	Solid	1311	

Leach Batch: 373744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	1311	
LB2 480-373744/1-B	Method Blank	TCLP	Solid	1311	
LB2 480-373744/1-F	Method Blank	TCLP	Solid	1311	
480-123063-1 MS	WC-1	TCLP	Solid	1311	
480-123063-1 MSD	WC-1	TCLP	Solid	1311	

Metals (Continued)

Prep Batch: 373905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-2	WC-2	TCLP	Solid	3010A	373730
480-123063-3	WC-3	TCLP	Solid	3010A	373730
LB 480-373730/1-B	Method Blank	TCLP	Solid	3010A	373730
MB 480-373905/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-373905/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-123063-2 MS	WC-2	TCLP	Solid	3010A	373730
480-123063-2 MSD	WC-2	TCLP	Solid	3010A	373730

Prep Batch: 373906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	3010A	373744
LB2 480-373744/1-B	Method Blank	TCLP	Solid	3010A	373744
MB 480-373906/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-373906/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-123063-1 MS	WC-1	TCLP	Solid	3010A	373744
480-123063-1 MSD	WC-1	TCLP	Solid	3010A	373744

Prep Batch: 373972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	7470A	373744
LB2 480-373744/1-F	Method Blank	TCLP	Solid	7470A	373744
MB 480-373972/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-373972/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-123063-1 MS	WC-1	TCLP	Solid	7470A	373744
480-123063-1 MSD	WC-1	TCLP	Solid	7470A	373744

Prep Batch: 373974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-2	WC-2	TCLP	Solid	7470A	373730
480-123063-3	WC-3	TCLP	Solid	7470A	373730
LB 480-373730/1-F	Method Blank	TCLP	Solid	7470A	373730
MB 480-373974/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-373974/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-123063-2 MS	WC-2	TCLP	Solid	7470A	373730
480-123063-2 MSD	WC-2	TCLP	Solid	7470A	373730

Analysis Batch: 374034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	7470A	373972
480-123063-2	WC-2	TCLP	Solid	7470A	373974
480-123063-3	WC-3	TCLP	Solid	7470A	373974
LB 480-373730/1-F	Method Blank	TCLP	Solid	7470A	373974
LB2 480-373744/1-F	Method Blank	TCLP	Solid	7470A	373972
MB 480-373972/2-A	Method Blank	Total/NA	Solid	7470A	373972
MB 480-373974/2-A	Method Blank	Total/NA	Solid	7470A	373974
LCS 480-373972/3-A	Lab Control Sample	Total/NA	Solid	7470A	373972
LCS 480-373974/3-A	Lab Control Sample	Total/NA	Solid	7470A	373974
480-123063-1 MS	WC-1	TCLP	Solid	7470A	373972
480-123063-1 MSD	WC-1	TCLP	Solid	7470A	373972
480-123063-2 MS	WC-2	TCLP	Solid	7470A	373974
480-123063-2 MSD	WC-2	TCLP	Solid	7470A	373974

Analysis Batch: 374377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	TCLP	Solid	6010C	373906
480-123063-2	WC-2	TCLP	Solid	6010C	373905
480-123063-3	WC-3	TCLP	Solid	6010C	373905
LB 480-373730/1-B	Method Blank	TCLP	Solid	6010C	373905
LB2 480-373744/1-B	Method Blank	TCLP	Solid	6010C	373906
MB 480-373905/2-A	Method Blank	Total/NA	Solid	6010C	373905
MB 480-373906/2-A	Method Blank	Total/NA	Solid	6010C	373906
LCS 480-373905/3-A	Lab Control Sample	Total/NA	Solid	6010C	373905
LCS 480-373906/3-A	Lab Control Sample	Total/NA	Solid	6010C	373906
480-123063-1 MS	WC-1	TCLP	Solid	6010C	373906
480-123063-1 MSD	WC-1	TCLP	Solid	6010C	373906
480-123063-2 MS	WC-2	TCLP	Solid	6010C	373905
480-123063-2 MSD	WC-2	TCLP	Solid	6010C	373905

General Chemistry

Analysis Batch: 373422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	Moisture	
480-123063-2	WC-2	Total/NA	Solid	Moisture	
480-123063-3	WC-3	Total/NA	Solid	Moisture	

Prep Batch: 373874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	7.3.4	
480-123063-2	WC-2	Total/NA	Solid	7.3.4	
480-123063-3	WC-3	Total/NA	Solid	7.3.4	
MB 480-373874/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-373874/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Prep Batch: 373875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	7.3.3	
480-123063-2	WC-2	Total/NA	Solid	7.3.3	
480-123063-3	WC-3	Total/NA	Solid	7.3.3	
MB 480-373875/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-373875/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Analysis Batch: 374037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	9095B	
480-123063-2	WC-2	Total/NA	Solid	9095B	
480-123063-3	WC-3	Total/NA	Solid	9095B	

Analysis Batch: 374039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	9012	373875
480-123063-2	WC-2	Total/NA	Solid	9012	373875
480-123063-3	WC-3	Total/NA	Solid	9012	373875
MB 480-373875/1-A	Method Blank	Total/NA	Solid	9012	373875
LCS 480-373875/2-A	Lab Control Sample	Total/NA	Solid	9012	373875

General Chemistry (Continued)

Analysis Batch: 374042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	9034	373874
480-123063-2	WC-2	Total/NA	Solid	9034	373874
480-123063-3	WC-3	Total/NA	Solid	9034	373874
MB 480-373874/1-A	Method Blank	Total/NA	Solid	9034	373874
LCS 480-373874/2-A	Lab Control Sample	Total/NA	Solid	9034	373874

Analysis Batch: 374121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	9045D	
480-123063-2	WC-2	Total/NA	Solid	9045D	
480-123063-3	WC-3	Total/NA	Solid	9045D	
LCS 480-374121/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 374475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123063-1	WC-1	Total/NA	Solid	1010A	
480-123063-2	WC-2	Total/NA	Solid	1010A	
480-123063-3	WC-3	Total/NA	Solid	1010A	
LCS 480-374475/1	Lab Control Sample	Total/NA	Solid	1010A	
480-123063-2 DU	WC-2	Total/NA	Solid	1010A	

Client Sample ID: WC-1

Lab Sample ID: 480-123063-1

Date Collected: 08/22/17 15:10

Matrix: Solid

Date Received: 08/23/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			373731	08/24/17 10:56	NMC	TAL BUF
TCLP	Analysis	8260C		10	374714	08/30/17 23:59	LCH	TAL BUF
TCLP	Leach	1311			373744	08/24/17 12:26	NMC	TAL BUF
TCLP	Prep	3510C			373922	08/25/17 09:20	JMP	TAL BUF
TCLP	Analysis	8270D		1	374209	08/28/17 21:23	DMR	TAL BUF
TCLP	Leach	1311			373744	08/24/17 12:26	NMC	TAL BUF
TCLP	Prep	3510C			373894	08/25/17 07:45	JMP	TAL BUF
TCLP	Analysis	8081B		1	374083	08/26/17 18:19	MAN	TAL BUF
TCLP	Leach	1311			373744	08/24/17 12:26	NMC	TAL BUF
TCLP	Prep	8151A			373932	08/25/17 09:24	JMP	TAL BUF
TCLP	Analysis	8151		1	374308	08/29/17 08:25	TRG	TAL BUF
TCLP	Leach	1311			373744	08/24/17 12:26	NMC	TAL BUF
TCLP	Prep	3010A			373906	08/25/17 09:22	EMB	TAL BUF
TCLP	Analysis	6010C		1	374377	08/28/17 13:00	JRK	TAL BUF
TCLP	Leach	1311			373744	08/24/17 12:26	NMC	TAL BUF
TCLP	Prep	7470A			373972	08/25/17 11:35	MVZ	TAL BUF
TCLP	Analysis	7470A		1	374034	08/25/17 15:14	BMB	TAL BUF
Total/NA	Analysis	1010A		1	374475	08/29/17 16:45	SSS	TAL BUF
Total/NA	Prep	7.3.3			373875	08/25/17 02:30	LAW	TAL BUF
Total/NA	Analysis	9012		1	374039	08/25/17 11:38	LAW	TAL BUF
Total/NA	Prep	7.3.4			373874	08/25/17 02:30	LAW	TAL BUF
Total/NA	Analysis	9034		1	374042	08/25/17 12:20	LAW	TAL BUF
Total/NA	Analysis	9045D		1	374121	08/27/17 11:37	DSC	TAL BUF
Total/NA	Analysis	9095B		1	374037	08/25/17 15:11	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	373422	08/23/17 04:11	CSW	TAL BUF

Client Sample ID: WC-1

Lab Sample ID: 480-123063-1

Date Collected: 08/22/17 15:10

Matrix: Solid

Date Received: 08/23/17 01:45

Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			373579	08/23/17 14:18	BEK	TAL BUF
Total/NA	Analysis	8082A		1	373762	08/24/17 21:23	JMO	TAL BUF

Client Sample ID: WC-2

Lab Sample ID: 480-123063-2

Date Collected: 08/22/17 13:30

Matrix: Solid

Date Received: 08/23/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			373731	08/24/17 10:56	NMC	TAL BUF
TCLP	Analysis	8260C		10	374714	08/31/17 00:26	LCH	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3510C			373922	08/25/17 09:20	JMP	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123063-1

Client Sample ID: WC-2

Lab Sample ID: 480-123063-2

Date Collected: 08/22/17 13:30
Matrix: Solid
Date Received: 08/23/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	8270D		1	374209	08/28/17 19:36	DMR	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3510C			373894	08/25/17 07:45	JMP	TAL BUF
TCLP	Analysis	8081B		1	374083	08/26/17 17:01	MAN	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	8151A			373932	08/25/17 09:24	JMP	TAL BUF
TCLP	Analysis	8151		1	374308	08/29/17 06:25	TRG	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3010A			373905	08/25/17 09:22	EMB	TAL BUF
TCLP	Analysis	6010C		1	374377	08/28/17 13:44	JRK	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	7470A			373974	08/25/17 11:35	MVZ	TAL BUF
TCLP	Analysis	7470A		1	374034	08/25/17 15:30	BMB	TAL BUF
Total/NA	Analysis	1010A		1	374475	08/29/17 16:45	SSS	TAL BUF
Total/NA	Prep	7.3.3			373875	08/25/17 02:30	LAW	TAL BUF
Total/NA	Analysis	9012		1	374039	08/25/17 11:38	LAW	TAL BUF
Total/NA	Prep	7.3.4			373874	08/25/17 02:30	LAW	TAL BUF
Total/NA	Analysis	9034		1	374042	08/25/17 12:20	LAW	TAL BUF
Total/NA	Analysis	9045D		1	374121	08/27/17 11:37	DSC	TAL BUF
Total/NA	Analysis	9095B		1	374037	08/25/17 15:11	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	373422	08/23/17 04:11	CSW	TAL BUF

Client Sample ID: WC-2

Lab Sample ID: 480-123063-2

Date Collected: 08/22/17 13:30
Matrix: Solid
Date Received: 08/23/17 01:45
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			373579	08/23/17 14:18	BEK	TAL BUF
Total/NA	Analysis	8082A		1	373762	08/24/17 21:38	JMO	TAL BUF

Client Sample ID: WC-3

Lab Sample ID: 480-123063-3

Date Collected: 08/22/17 09:20
Matrix: Solid
Date Received: 08/23/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			373731	08/24/17 10:56	NMC	TAL BUF
TCLP	Analysis	8260C		10	374714	08/31/17 00:53	LCH	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3510C			373922	08/25/17 09:20	JMP	TAL BUF
TCLP	Analysis	8270D		1	374209	08/28/17 20:03	DMR	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3510C			373894	08/25/17 07:45	JMP	TAL BUF
TCLP	Analysis	8081B		1	374083	08/26/17 17:20	MAN	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123063-1

Client Sample ID: WC-3

Lab Sample ID: 480-123063-3

Date Collected: 08/22/17 09:20

Matrix: Solid

Date Received: 08/23/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	8151A			373932	08/25/17 09:24	JMP	TAL BUF
TCLP	Analysis	8151		1	374308	08/29/17 06:55	TRG	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3010A			373905	08/25/17 09:22	EMB	TAL BUF
TCLP	Analysis	6010C		1	374377	08/28/17 14:02	JRK	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	7470A			373974	08/25/17 11:35	MVZ	TAL BUF
TCLP	Analysis	7470A		1	374034	08/25/17 15:37	BMB	TAL BUF
Total/NA	Analysis	1010A		1	374475	08/29/17 16:45	SSS	TAL BUF
Total/NA	Prep	7.3.3			373875	08/25/17 02:30	LAW	TAL BUF
Total/NA	Analysis	9012		1	374039	08/25/17 11:38	LAW	TAL BUF
Total/NA	Prep	7.3.4			373874	08/25/17 02:30	LAW	TAL BUF
Total/NA	Analysis	9034		1	374042	08/25/17 12:20	LAW	TAL BUF
Total/NA	Analysis	9045D		1	374121	08/27/17 11:37	DSC	TAL BUF
Total/NA	Analysis	9095B		1	374037	08/25/17 15:11	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	373422	08/23/17 04:11	CSW	TAL BUF

Client Sample ID: WC-3

Lab Sample ID: 480-123063-3

Date Collected: 08/22/17 09:20

Matrix: Solid

Date Received: 08/23/17 01:45

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			373579	08/23/17 14:18	BEK	TAL BUF
Total/NA	Analysis	8082A		1	373762	08/24/17 21:53	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123063-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123063-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-123063-1	WC-1	Solid	08/22/17 15:10	08/23/17 01:45
480-123063-2	WC-2	Solid	08/22/17 13:30	08/23/17 01:45
480-123063-3	WC-3	Solid	08/22/17 09:20	08/23/17 01:45

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
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480-123063 COC

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier	COC No: 480-101161-24047.3
Client Contact: Mr. Michael Jones	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 3 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	Analysis Requested		
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone: (518) 250-7300	PO #: B0036648.1401.00006			
Email: michael.jones@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid North Albany	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012_ReactiveCN, 9034_Reactive	9095B - Paint Filter	6010C, 7470A, 8081B, 8151A, 8270C	8260C - TCLP Volatiles	4010A, 9045C	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - DRO	8015D_GRO - GRO	6010C - Percent Sulfur	D240_87 - BTU	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	N		
WC-1	8/22/17	1510	C	Solid	N	N	2	2	1	1	1	1								8	
WC-2	8/22/17	1330	C	Solid	N	N	2	2	1	1	1	1								8	
WC-3	8/22/17	0920	C	Solid	N	N	2	2	1	1	1	1								8	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

8/22/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/22/17 1700	Arcadis		8-22-17 1700	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8-22-17 1800	TA		8-23-17 0145	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6 #1

9/5/2017

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123063-1

Login Number: 123063

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-123128-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/5/2017 4:50:47 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-123128-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-123128-1

Receipt
The sample was received on 8/24/2017 1:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-374714 recovered outside acceptance criteria, low biased, for Vinyl Chloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: WC-4 (480-123128-1) and (LB 480-373731/1-A).

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-4 (480-123128-1) and (LB 480-373731/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: All primary data for analytical batch 374083 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 374008 is reported from the ZB-35 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-374308 recovered above the upper control limit for 2,4-D. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-4 (480-123128-1).

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-4 (480-123128-1) and (LB 480-373730/1-E). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: All primary data for analytical batch 374308 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-4 (480-123128-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-373922.

Job ID: 480-123128-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-373894.

Method(s) 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-373932.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123128-1

Client Sample ID: WC-4

Lab Sample ID: 480-123128-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.045		0.010	0.0041	mg/L	10		8260C	TCLP
Pyridine	0.0020	J	0.025	0.00041	mg/L	1		8270D	TCLP
PCB-1260	0.21		0.19	0.088	mg/Kg	1	☼	8082A	Total/NA
Arsenic	0.011	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	1.2		1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0035		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.91		0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.6	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	20.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-4
Date Collected: 08/23/17 10:45
Date Received: 08/24/17 01:45

Lab Sample ID: 480-123128-1
Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			08/31/17 01:20	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			08/31/17 01:20	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			08/31/17 01:20	10
Benzene	**0.045**		0.010	0.0041	mg/L			08/31/17 01:20	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			08/31/17 01:20	10
Chlorobenzene	ND		0.010	0.0075	mg/L			08/31/17 01:20	10
Chloroform	ND		0.010	0.0034	mg/L			08/31/17 01:20	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			08/31/17 01:20	10
Trichloroethene	ND		0.010	0.0046	mg/L			08/31/17 01:20	10
Vinyl chloride	ND		0.010	0.0090	mg/L			08/31/17 01:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*08/31/17 01:20*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*08/31/17 01:20*	*10*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*08/31/17 01:20*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/31/17 01:20*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		08/25/17 09:20	08/28/17 20:29	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		08/25/17 09:20	08/28/17 20:29	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		08/25/17 09:20	08/28/17 20:29	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		08/25/17 09:20	08/28/17 20:29	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		08/25/17 09:20	08/28/17 20:29	1
3-Methylphenol	ND		0.010	0.00040	mg/L		08/25/17 09:20	08/28/17 20:29	1
4-Methylphenol	ND		0.010	0.00036	mg/L		08/25/17 09:20	08/28/17 20:29	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		08/25/17 09:20	08/28/17 20:29	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		08/25/17 09:20	08/28/17 20:29	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		08/25/17 09:20	08/28/17 20:29	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		08/25/17 09:20	08/28/17 20:29	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		08/25/17 09:20	08/28/17 20:29	1
Pyridine	**0.0020**	**J**	0.025	0.00041	mg/L		08/25/17 09:20	08/28/17 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*41 - 120*	*08/25/17 09:20*	*08/28/17 20:29*	*1*
2-Fluorobiphenyl	*92*		*48 - 120*	*08/25/17 09:20*	*08/28/17 20:29*	*1*
2-Fluorophenol	*49*		*35 - 120*	*08/25/17 09:20*	*08/28/17 20:29*	*1*
Nitrobenzene-d5	*89*		*46 - 120*	*08/25/17 09:20*	*08/28/17 20:29*	*1*
Phenol-d5	*35*		*22 - 120*	*08/25/17 09:20*	*08/28/17 20:29*	*1*
p-Terphenyl-d14	*106*		*59 - 136*	*08/25/17 09:20*	*08/28/17 20:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		08/25/17 07:45	08/26/17 17:40	1
Endrin	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 17:40	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		08/25/17 07:45	08/26/17 17:40	1
Heptachlor	ND		0.00020	0.0000085	mg/L		08/25/17 07:45	08/26/17 17:40	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		08/25/17 07:45	08/26/17 17:40	1
Methoxychlor	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 17:40	1
Toxaphene	ND		0.0020	0.00012	mg/L		08/25/17 07:45	08/26/17 17:40	1

Client Sample ID: WC-4

Lab Sample ID: 480-123128-1

Date Collected: 08/23/17 10:45

Matrix: Solid

Date Received: 08/24/17 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		20 - 120	08/25/17 07:45	08/26/17 17:40	1
DCB Decachlorobiphenyl	82		20 - 120	08/25/17 07:45	08/26/17 17:40	1
Tetrachloro-m-xylene	106		44 - 120	08/25/17 07:45	08/26/17 17:40	1
Tetrachloro-m-xylene	62		44 - 120	08/25/17 07:45	08/26/17 17:40	1

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		08/25/17 09:24	08/29/17 07:25	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		08/25/17 09:24	08/29/17 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	10	X	48 - 132	08/25/17 09:24	08/29/17 07:25	1
2,4-Dichlorophenylacetic acid	10	X	48 - 132	08/25/17 09:24	08/29/17 07:25	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**	**J**	0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 14:17	1
Barium	**1.2**		1.0	0.10	mg/L		08/25/17 09:22	08/28/17 14:17	1
Cadmium	**0.0035**		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 14:17	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 14:17	1
Lead	**0.91**		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 14:17	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 14:17	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 14:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:39	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			08/25/17 15:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		08/25/17 02:30	08/25/17 11:38	1
Sulfide, Reactive	ND		10	10	mg/Kg		08/25/17 02:30	08/25/17 12:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			08/29/17 16:45	1
pH	**8.6**	**HF**	0.1	0.1	SU			08/27/17 11:37	1
Temperature	**20.6**	**HF**	0.001	0.001	Degrees C			08/27/17 11:37	1

Client Sample ID: WC-4

Lab Sample ID: 480-123128-1

Date Collected: 08/23/17 10:45

Matrix: Solid

Date Received: 08/24/17 01:45

Percent Solids: 90.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.037	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1
PCB-1221	ND		0.19	0.037	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1
PCB-1232	ND		0.19	0.037	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1
PCB-1242	ND		0.19	0.037	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1
PCB-1248	ND		0.19	0.037	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1
PCB-1254	ND		0.19	0.088	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123128-1

Client Sample ID: WC-4
Date Collected: 08/23/17 10:45
Date Received: 08/24/17 01:45

Lab Sample ID: 480-123128-1
Matrix: Solid
Percent Solids: 90.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	0.21		0.19	0.088	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1
PCB-1262	ND		0.19	0.088	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1
PCB-1268	ND		0.19	0.088	mg/Kg	☼	08/25/17 10:17	08/25/17 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*65 - 174*	*08/25/17 10:17*	*08/25/17 17:30*	*1*
DCB Decachlorobiphenyl	*104*		*65 - 174*	*08/25/17 10:17*	*08/25/17 17:30*	*1*
Tetrachloro-m-xylene	*125*		*60 - 154*	*08/25/17 10:17*	*08/25/17 17:30*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*08/25/17 10:17*	*08/25/17 17:30*	*1*

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-374714/4	Lab Control Sample	86	101	95	104
MB 480-374714/6	Method Blank	92	97	99	101

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-123128-1	WC-4	90	102	94	100
LB 480-373731/1-A	Method Blank	92	100	96	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
LCS 480-373922/2-A	Lab Control Sample	106	93	50	97	37	104
LCSD 480-373922/3-A	Lab Control Sample Dup	105	95	53	100	35	105
MB 480-373922/1-A	Method Blank	86	86	48	88	32	101

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-123128-1	WC-4	105	92	49	89	35	106
LB 480-373730/1-D	Method Blank	84	85	46	86	35	98

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
LCS 480-373894/2-A	Lab Control Sample	51	57	87	77
LCSD 480-373894/3-A	Lab Control Sample Dup	48	54	80	70
MB 480-373894/1-A	Method Blank	48	54	83	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-123128-1	WC-4	83	82	106	62
LB 480-373730/1-C	Method Blank	80	79	83	71

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(65-174)	(65-174)	(60-154)	(60-154)
480-123128-1	WC-4	95	104	125	99
480-123128-1 MS	WC-4	135	139	177 X	122
480-123128-1 MSD	WC-4	124	127	156 X	113
LCS 480-373946/2-A	Lab Control Sample	128	123	140	120
MB 480-373946/1-A	Method Blank	135	110	132	105

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123128-1

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPA1	DCPA2								
Lab Sample ID	Client Sample ID	(48-132)	(48-132)								
LCS 480-373932/2-A	Lab Control Sample	65	75								
LCSD 480-373932/3-A	Lab Control Sample Dup	96	86								
MB 480-373932/1-A	Method Blank	83	88								

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPA1	DCPA2								
Lab Sample ID	Client Sample ID	(48-132)	(48-132)								
480-123128-1	WC-4	10 X	10 X								
LB 480-373730/1-E	Method Blank	13 X	16 X								

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-374714/6
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			08/30/17 22:47	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			08/30/17 22:47	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			08/30/17 22:47	1
Benzene	ND		0.0010	0.00041	mg/L			08/30/17 22:47	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			08/30/17 22:47	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			08/30/17 22:47	1
Chloroform	ND		0.0010	0.00034	mg/L			08/30/17 22:47	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			08/30/17 22:47	1
Trichloroethene	ND		0.0010	0.00046	mg/L			08/30/17 22:47	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			08/30/17 22:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*08/30/17 22:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*08/30/17 22:47*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/30/17 22:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/30/17 22:47*	*1*

Lab Sample ID: LCS 480-374714/4
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0222		mg/L		89	66 - 127
1,2-Dichloroethane	0.0250	0.0192		mg/L		77	75 - 120
2-Butanone (MEK)	0.125	0.129		mg/L		104	57 - 140
Benzene	0.0250	0.0243		mg/L		97	71 - 124
Carbon tetrachloride	0.0250	0.0196		mg/L		78	72 - 134
Chlorobenzene	0.0250	0.0238		mg/L		95	80 - 120
Chloroform	0.0250	0.0201		mg/L		80	73 - 127
Tetrachloroethene	0.0250	0.0227		mg/L		91	74 - 122
Trichloroethene	0.0250	0.0231		mg/L		93	74 - 123
Vinyl chloride	0.0250	0.0183		mg/L		73	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LB 480-373731/1-A
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			08/30/17 23:32	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			08/30/17 23:32	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			08/30/17 23:32	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-373731/1-A
Matrix: Solid
Analysis Batch: 374714

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			08/30/17 23:32	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			08/30/17 23:32	10
Chlorobenzene	ND		0.010	0.0075	mg/L			08/30/17 23:32	10
Chloroform	ND		0.010	0.0034	mg/L			08/30/17 23:32	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			08/30/17 23:32	10
Trichloroethene	ND		0.010	0.0046	mg/L			08/30/17 23:32	10
Vinyl chloride	ND		0.010	0.0090	mg/L			08/30/17 23:32	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*08/30/17 23:32*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/30/17 23:32*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/30/17 23:32*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/30/17 23:32*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-373922/1-A
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		08/25/17 09:20	08/28/17 17:48	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		08/25/17 09:20	08/28/17 17:48	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		08/25/17 09:20	08/28/17 17:48	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		08/25/17 09:20	08/28/17 17:48	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		08/25/17 09:20	08/28/17 17:48	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		08/25/17 09:20	08/28/17 17:48	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		08/25/17 09:20	08/28/17 17:48	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		08/25/17 09:20	08/28/17 17:48	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		08/25/17 09:20	08/28/17 17:48	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		08/25/17 09:20	08/28/17 17:48	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		08/25/17 09:20	08/28/17 17:48	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		08/25/17 09:20	08/28/17 17:48	1
Pyridine	ND		0.0063	0.00010	mg/L		08/25/17 09:20	08/28/17 17:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*41 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
2-Fluorobiphenyl	*86*		*48 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
2-Fluorophenol	*48*		*35 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
Nitrobenzene-d5	*88*		*46 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
Phenol-d5	*32*		*22 - 120*	*08/25/17 09:20*	*08/28/17 17:48*	*1*
p-Terphenyl-d14	*101*		*59 - 136*	*08/25/17 09:20*	*08/28/17 17:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-373922/2-A
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373922

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			0.0500	0.0340		mg/L		68	51 - 120		
2,4,5-Trichlorophenol			0.0500	0.0486		mg/L		97	65 - 126		
2,4,6-Trichlorophenol			0.0500	0.0493		mg/L		99	64 - 120		
2,4-Dinitrotoluene			0.0500	0.0497		mg/L		99	69 - 120		
2-Methylphenol			0.0500	0.0372		mg/L		74	39 - 120		
3-Methylphenol			0.0500	0.0357		mg/L		71	39 - 120		
4-Methylphenol			0.0500	0.0357		mg/L		71	29 - 131		
Hexachlorobenzene			0.0500	0.0519		mg/L		104	61 - 120		
Hexachlorobutadiene			0.0500	0.0357		mg/L		71	35 - 120		
Hexachloroethane			0.0500	0.0353		mg/L		71	43 - 120		
Nitrobenzene			0.0500	0.0465		mg/L		93	53 - 123		
Pentachlorophenol			0.100	0.0951		mg/L		95	29 - 136		
Pyridine			0.100	0.0545		mg/L		54	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*41 - 120*
2-Fluorobiphenyl	*93*		*48 - 120*
2-Fluorophenol	*50*		*35 - 120*
Nitrobenzene-d5	*97*		*46 - 120*
Phenol-d5	*37*		*22 - 120*
p-Terphenyl-d14	*104*		*59 - 136*

Lab Sample ID: LCSD 480-373922/3-A
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373922

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0325		mg/L		65	51 - 120	4	36
2,4,5-Trichlorophenol			0.0500	0.0509		mg/L		102	65 - 126	5	18
2,4,6-Trichlorophenol			0.0500	0.0504		mg/L		101	64 - 120	2	19
2,4-Dinitrotoluene			0.0500	0.0483		mg/L		97	69 - 120	3	20
2-Methylphenol			0.0500	0.0351		mg/L		70	39 - 120	6	27
3-Methylphenol			0.0500	0.0335		mg/L		67	39 - 120	6	30
4-Methylphenol			0.0500	0.0335		mg/L		67	29 - 131	6	24
Hexachlorobenzene			0.0500	0.0484		mg/L		97	61 - 120	7	15
Hexachlorobutadiene			0.0500	0.0383		mg/L		77	35 - 120	7	44
Hexachloroethane			0.0500	0.0340		mg/L		68	43 - 120	4	46
Nitrobenzene			0.0500	0.0493		mg/L		99	53 - 123	6	24
Pentachlorophenol			0.100	0.0951		mg/L		95	29 - 136	0	37
Pyridine			0.100	0.0541		mg/L		54	10 - 120	1	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*41 - 120*
2-Fluorobiphenyl	*95*		*48 - 120*
2-Fluorophenol	*53*		*35 - 120*
Nitrobenzene-d5	*100*		*46 - 120*
Phenol-d5	*35*		*22 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-373922/3-A
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373922

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl-d14	*105*		*59 - 136*

Lab Sample ID: LB 480-373730/1-D
Matrix: Solid
Analysis Batch: 374209

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373922

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		08/25/17 09:20	08/28/17 19:09	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		08/25/17 09:20	08/28/17 19:09	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		08/25/17 09:20	08/28/17 19:09	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		08/25/17 09:20	08/28/17 19:09	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		08/25/17 09:20	08/28/17 19:09	1
3-Methylphenol	ND		0.010	0.00040	mg/L		08/25/17 09:20	08/28/17 19:09	1
4-Methylphenol	ND		0.010	0.00036	mg/L		08/25/17 09:20	08/28/17 19:09	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		08/25/17 09:20	08/28/17 19:09	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		08/25/17 09:20	08/28/17 19:09	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		08/25/17 09:20	08/28/17 19:09	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		08/25/17 09:20	08/28/17 19:09	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		08/25/17 09:20	08/28/17 19:09	1
Pyridine	ND		0.025	0.00041	mg/L		08/25/17 09:20	08/28/17 19:09	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	*84*		*41 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
2-Fluorophenol	*46*		*35 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
Nitrobenzene-d5	*86*		*46 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
Phenol-d5	*35*		*22 - 120*	*08/25/17 09:20*	*08/28/17 19:09*	*1*
p-Terphenyl-d14	*98*		*59 - 136*	*08/25/17 09:20*	*08/28/17 19:09*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-373894/1-A
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		08/25/17 07:45	08/26/17 13:05	1
Endrin	ND		0.000050	0.0000035	mg/L		08/25/17 07:45	08/26/17 13:05	1
gamma-BHC (Lindane)	ND		0.000050	0.0000015	mg/L		08/25/17 07:45	08/26/17 13:05	1
Heptachlor	ND		0.000050	0.0000021	mg/L		08/25/17 07:45	08/26/17 13:05	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		08/25/17 07:45	08/26/17 13:05	1
Methoxychlor	ND		0.000050	0.0000035	mg/L		08/25/17 07:45	08/26/17 13:05	1
Toxaphene	ND		0.00050	0.000030	mg/L		08/25/17 07:45	08/26/17 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*48*		*20 - 120*	*08/25/17 07:45*	*08/26/17 13:05*	*1*
DCB Decachlorobiphenyl	*54*		*20 - 120*	*08/25/17 07:45*	*08/26/17 13:05*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-373894/1-A
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373894

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		44 - 120	08/25/17 07:45	08/26/17 13:05	1
Tetrachloro-m-xylene	74		44 - 120	08/25/17 07:45	08/26/17 13:05	1

Lab Sample ID: LCS 480-373894/2-A
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000555		mg/L		111	65 - 135
gamma-BHC (Lindane)	0.000500	0.000518		mg/L		104	56 - 120
Heptachlor	0.000500	0.000477		mg/L		95	58 - 120
Heptachlor epoxide	0.000500	0.000550		mg/L		110	65 - 125
Methoxychlor	0.000500	0.000564		mg/L		113	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	51		20 - 120
DCB Decachlorobiphenyl	57		20 - 120
Tetrachloro-m-xylene	87		44 - 120
Tetrachloro-m-xylene	77		44 - 120

Lab Sample ID: LCSD 480-373894/3-A
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000525		mg/L		105	65 - 135	6	24
gamma-BHC (Lindane)	0.000500	0.000484		mg/L		97	56 - 120	7	24
Heptachlor	0.000500	0.000438		mg/L		88	58 - 120	9	25
Heptachlor epoxide	0.000500	0.000518		mg/L		104	65 - 125	6	23
Methoxychlor	0.000500	0.000535		mg/L		107	50 - 150	5	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	48		20 - 120
DCB Decachlorobiphenyl	54		20 - 120
Tetrachloro-m-xylene	80		44 - 120
Tetrachloro-m-xylene	70		44 - 120

Lab Sample ID: LB 480-373730/1-C
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373894

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		08/25/17 07:45	08/26/17 16:41	1
Endrin	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 16:41	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		08/25/17 07:45	08/26/17 16:41	1
Heptachlor	ND		0.00020	0.0000085	mg/L		08/25/17 07:45	08/26/17 16:41	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		08/25/17 07:45	08/26/17 16:41	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 480-373730/1-C
Matrix: Solid
Analysis Batch: 374083

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373894

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.00020	0.000014	mg/L		08/25/17 07:45	08/26/17 16:41	1
Toxaphene	ND		0.0020	0.00012	mg/L		08/25/17 07:45	08/26/17 16:41	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*20 - 120*	*08/25/17 07:45*	*08/26/17 16:41*	*1*
DCB Decachlorobiphenyl	*79*		*20 - 120*	*08/25/17 07:45*	*08/26/17 16:41*	*1*
Tetrachloro-m-xylene	*83*		*44 - 120*	*08/25/17 07:45*	*08/26/17 16:41*	*1*
Tetrachloro-m-xylene	*71*		*44 - 120*	*08/25/17 07:45*	*08/26/17 16:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-373946/1-A
Matrix: Solid
Analysis Batch: 374008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg		08/25/17 10:17	08/25/17 16:29	1
PCB-1221	ND		0.24	0.047	mg/Kg		08/25/17 10:17	08/25/17 16:29	1
PCB-1232	ND		0.24	0.047	mg/Kg		08/25/17 10:17	08/25/17 16:29	1
PCB-1242	ND		0.24	0.047	mg/Kg		08/25/17 10:17	08/25/17 16:29	1
PCB-1248	ND		0.24	0.047	mg/Kg		08/25/17 10:17	08/25/17 16:29	1
PCB-1254	ND		0.24	0.11	mg/Kg		08/25/17 10:17	08/25/17 16:29	1
PCB-1260	ND		0.24	0.11	mg/Kg		08/25/17 10:17	08/25/17 16:29	1
PCB-1262	ND		0.24	0.11	mg/Kg		08/25/17 10:17	08/25/17 16:29	1
PCB-1268	ND		0.24	0.11	mg/Kg		08/25/17 10:17	08/25/17 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*08/25/17 10:17*	*08/25/17 16:29*	*1*
DCB Decachlorobiphenyl	*110*		*65 - 174*	*08/25/17 10:17*	*08/25/17 16:29*	*1*
Tetrachloro-m-xylene	*132*		*60 - 154*	*08/25/17 10:17*	*08/25/17 16:29*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*08/25/17 10:17*	*08/25/17 16:29*	*1*

Lab Sample ID: LCS 480-373946/2-A
Matrix: Solid
Analysis Batch: 374008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373946

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.90	2.48		mg/Kg		130	51 - 185		
PCB-1260			1.90	2.47		mg/Kg		130	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*128*		*65 - 174*
DCB Decachlorobiphenyl	*123*		*65 - 174*
Tetrachloro-m-xylene	*140*		*60 - 154*
Tetrachloro-m-xylene	*120*		*60 - 154*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-123128-1 MS
Matrix: Solid
Analysis Batch: 374008

Client Sample ID: WC-4
Prep Type: Total/NA
Prep Batch: 373946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		2.49	2.95		mg/Kg	☼	118	50 - 177
PCB-1260	0.21		2.49	3.31		mg/Kg	☼	124	33 - 200

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*135*		*65 - 174*
DCB Decachlorobiphenyl	*139*		*65 - 174*
Tetrachloro-m-xylene	*177*	*X*	*60 - 154*
Tetrachloro-m-xylene	*122*		*60 - 154*

Lab Sample ID: 480-123128-1 MSD
Matrix: Solid
Analysis Batch: 374008

Client Sample ID: WC-4
Prep Type: Total/NA
Prep Batch: 373946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.33	2.53		mg/Kg	☼	109	50 - 177	15	50
PCB-1260	0.21		2.33	3.29		mg/Kg	☼	132	33 - 200	0	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*124*		*65 - 174*
DCB Decachlorobiphenyl	*127*		*65 - 174*
Tetrachloro-m-xylene	*156*	*X*	*60 - 154*
Tetrachloro-m-xylene	*113*		*60 - 154*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-373932/1-A
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		08/25/17 09:24	08/29/17 04:26	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		08/25/17 09:24	08/29/17 04:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*48 - 132*	*08/25/17 09:24*	*08/29/17 04:26*	*1*
2,4-Dichlorophenylacetic acid	*88*		*48 - 132*	*08/25/17 09:24*	*08/29/17 04:26*	*1*

Lab Sample ID: LCS 480-373932/2-A
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.00200	0.00176		mg/L		88	36 - 150
Silvex (2,4,5-TP)	0.00200	0.00144		mg/L		72	49 - 150

Method: 8151 - TCLP Herbicides (Continued)

Lab Sample ID: LCS 480-373932/2-A
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373932

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*65*		*48 - 132*
2,4-Dichlorophenylacetic acid	*75*		*48 - 132*

Lab Sample ID: LCSD 480-373932/3-A
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	0.00200	0.00248		mg/L		124	36 - 150	34	50
Silvex (2,4,5-TP)	0.00200	0.00170		mg/L		85	49 - 150	17	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*96*		*48 - 132*
2,4-Dichlorophenylacetic acid	*86*		*48 - 132*

Lab Sample ID: LB 480-373730/1-E
Matrix: Solid
Analysis Batch: 374308

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373932

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		08/25/17 09:24	08/29/17 05:55	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		08/25/17 09:24	08/29/17 05:55	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*13*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 05:55*	*1*
2,4-Dichlorophenylacetic acid	*16*	*X*	*48 - 132*	*08/25/17 09:24*	*08/29/17 05:55*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-373905/2-A
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 13:37	1
Barium	ND		1.0	0.10	mg/L		08/25/17 09:22	08/28/17 13:37	1
Cadmium	ND		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 13:37	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 13:37	1
Lead	ND		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 13:37	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 13:37	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 13:37	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-373905/3-A
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.10		mg/L		110	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Cadmium	1.00	1.08		mg/L		108	80 - 120
Chromium	1.00	1.04		mg/L		104	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Selenium	1.00	1.10		mg/L		110	80 - 120
Silver	1.00	1.10		mg/L		110	80 - 120

Lab Sample ID: LB 480-373730/1-B
Matrix: Solid
Analysis Batch: 374377

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373905

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/25/17 09:22	08/28/17 13:33	1
Barium	ND		1.0	0.10	mg/L		08/25/17 09:22	08/28/17 13:33	1
Cadmium	ND		0.0020	0.00050	mg/L		08/25/17 09:22	08/28/17 13:33	1
Chromium	ND		0.020	0.010	mg/L		08/25/17 09:22	08/28/17 13:33	1
Lead	ND		0.020	0.0030	mg/L		08/25/17 09:22	08/28/17 13:33	1
Selenium	ND		0.025	0.0087	mg/L		08/25/17 09:22	08/28/17 13:33	1
Silver	ND		0.0060	0.0017	mg/L		08/25/17 09:22	08/28/17 13:33	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-373974/2-A
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:26	1

Lab Sample ID: LCS 480-373974/3-A
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00572		mg/L		86	80 - 120

Lab Sample ID: LB 480-373730/1-F
Matrix: Solid
Analysis Batch: 374034

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 373974

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:35	08/25/17 15:21	1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-374475/1
Matrix: Solid
Analysis Batch: 374475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-373875/1-A
Matrix: Solid
Analysis Batch: 374039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		08/25/17 02:30	08/25/17 11:38	1

Lab Sample ID: LCS 480-373875/2-A
Matrix: Solid
Analysis Batch: 374039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	397.5		mg/Kg		40	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-373874/1-A
Matrix: Solid
Analysis Batch: 374042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		08/25/17 02:30	08/25/17 12:20	1

Lab Sample ID: LCS 480-373874/2-A
Matrix: Solid
Analysis Batch: 374042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	900	791.5		mg/Kg		88	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-374121/1
Matrix: Solid
Analysis Batch: 374121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123128-1

Method: 9095B - Paint Filter

Lab Sample ID: 480-123128-1 DU
Matrix: Solid
Analysis Batch: 374037

Client Sample ID: WC-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Free Liquid	passed			passed		mL/100g				NC	

GC/MS VOA

Leach Batch: 373731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	1311	
LB 480-373731/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 374714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	8260C	373731
LB 480-373731/1-A	Method Blank	TCLP	Solid	8260C	373731
MB 480-374714/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-374714/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 373730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	1311	
LB 480-373730/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 373922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	3510C	373730
LB 480-373730/1-D	Method Blank	TCLP	Solid	3510C	373730
MB 480-373922/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-373922/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-373922/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 374209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	8270D	373922
LB 480-373730/1-D	Method Blank	TCLP	Solid	8270D	373922
MB 480-373922/1-A	Method Blank	Total/NA	Solid	8270D	373922
LCS 480-373922/2-A	Lab Control Sample	Total/NA	Solid	8270D	373922
LCSD 480-373922/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	373922

GC Semi VOA

Leach Batch: 373730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	1311	
LB 480-373730/1-C	Method Blank	TCLP	Solid	1311	
LB 480-373730/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 373894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	3510C	373730
LB 480-373730/1-C	Method Blank	TCLP	Solid	3510C	373730
MB 480-373894/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-373894/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-373894/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

GC Semi VOA (Continued)

Prep Batch: 373932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	8151A	373730
LB 480-373730/1-E	Method Blank	TCLP	Solid	8151A	373730
MB 480-373932/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-373932/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-373932/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Prep Batch: 373946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	3550C	
MB 480-373946/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-373946/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-123128-1 MS	WC-4	Total/NA	Solid	3550C	
480-123128-1 MSD	WC-4	Total/NA	Solid	3550C	

Analysis Batch: 374008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	8082A	373946
MB 480-373946/1-A	Method Blank	Total/NA	Solid	8082A	373946
LCS 480-373946/2-A	Lab Control Sample	Total/NA	Solid	8082A	373946
480-123128-1 MS	WC-4	Total/NA	Solid	8082A	373946
480-123128-1 MSD	WC-4	Total/NA	Solid	8082A	373946

Analysis Batch: 374083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	8081B	373894
LB 480-373730/1-C	Method Blank	TCLP	Solid	8081B	373894
MB 480-373894/1-A	Method Blank	Total/NA	Solid	8081B	373894
LCS 480-373894/2-A	Lab Control Sample	Total/NA	Solid	8081B	373894
LCSD 480-373894/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	373894

Analysis Batch: 374308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	8151	373932
LB 480-373730/1-E	Method Blank	TCLP	Solid	8151	373932
MB 480-373932/1-A	Method Blank	Total/NA	Solid	8151	373932
LCS 480-373932/2-A	Lab Control Sample	Total/NA	Solid	8151	373932
LCSD 480-373932/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	373932

Metals

Leach Batch: 373730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	1311	
LB 480-373730/1-B	Method Blank	TCLP	Solid	1311	
LB 480-373730/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 373905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	3010A	373730
LB 480-373730/1-B	Method Blank	TCLP	Solid	3010A	373730

Metals (Continued)

Prep Batch: 373905 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-373905/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-373905/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 373974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	7470A	373730
LB 480-373730/1-F	Method Blank	TCLP	Solid	7470A	373730
MB 480-373974/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-373974/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 374034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	7470A	373974
LB 480-373730/1-F	Method Blank	TCLP	Solid	7470A	373974
MB 480-373974/2-A	Method Blank	Total/NA	Solid	7470A	373974
LCS 480-373974/3-A	Lab Control Sample	Total/NA	Solid	7470A	373974

Analysis Batch: 374377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	TCLP	Solid	6010C	373905
LB 480-373730/1-B	Method Blank	TCLP	Solid	6010C	373905
MB 480-373905/2-A	Method Blank	Total/NA	Solid	6010C	373905
LCS 480-373905/3-A	Lab Control Sample	Total/NA	Solid	6010C	373905

General Chemistry

Analysis Batch: 373870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	Moisture	

Prep Batch: 373874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	7.3.4	
MB 480-373874/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-373874/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Prep Batch: 373875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	7.3.3	
MB 480-373875/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-373875/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Analysis Batch: 374037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	9095B	
480-123128-1 DU	WC-4	Total/NA	Solid	9095B	

Analysis Batch: 374039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	9012	373875

General Chemistry (Continued)

Analysis Batch: 374039 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-373875/1-A	Method Blank	Total/NA	Solid	9012	373875
LCS 480-373875/2-A	Lab Control Sample	Total/NA	Solid	9012	373875

Analysis Batch: 374042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	9034	373874
MB 480-373874/1-A	Method Blank	Total/NA	Solid	9034	373874
LCS 480-373874/2-A	Lab Control Sample	Total/NA	Solid	9034	373874

Analysis Batch: 374121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	9045D	
LCS 480-374121/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 374475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123128-1	WC-4	Total/NA	Solid	1010A	
LCS 480-374475/1	Lab Control Sample	Total/NA	Solid	1010A	

Client Sample ID: WC-4 — **Lab Sample ID: 480-123128-1**
Date Collected: 08/23/17 10:45 — **Matrix: Solid**
Date Received: 08/24/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			373731	08/24/17 10:56	NMC	TAL BUF
TCLP	Analysis	8260C		10	374714	08/31/17 01:20	LCH	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3510C			373922	08/25/17 09:20	JMP	TAL BUF
TCLP	Analysis	8270D		1	374209	08/28/17 20:29	DMR	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3510C			373894	08/25/17 07:45	JMP	TAL BUF
TCLP	Analysis	8081B		1	374083	08/26/17 17:40	MAN	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	8151A			373932	08/25/17 09:24	JMP	TAL BUF
TCLP	Analysis	8151		1	374308	08/29/17 07:25	TRG	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	3010A			373905	08/25/17 09:22	EMB	TAL BUF
TCLP	Analysis	6010C		1	374377	08/28/17 14:17	JRK	TAL BUF
TCLP	Leach	1311			373730	08/24/17 10:53	NMC	TAL BUF
TCLP	Prep	7470A			373974	08/25/17 11:35	MVZ	TAL BUF
TCLP	Analysis	7470A		1	374034	08/25/17 15:39	BMB	TAL BUF
Total/NA	Analysis	1010A		1	374475	08/29/17 16:45	SSS	TAL BUF
Total/NA	Prep	7.3.3			373875	08/25/17 02:30	LAW	TAL BUF
Total/NA	Analysis	9012		1	374039	08/25/17 11:38	LAW	TAL BUF
Total/NA	Prep	7.3.4			373874	08/25/17 02:30	LAW	TAL BUF
Total/NA	Analysis	9034		1	374042	08/25/17 12:20	LAW	TAL BUF
Total/NA	Analysis	9045D		1	374121	08/27/17 11:37	DSC	TAL BUF
Total/NA	Analysis	9095B		1	374037	08/25/17 15:11	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	373870	08/25/17 01:27	CSW	TAL BUF

Client Sample ID: WC-4 — **Lab Sample ID: 480-123128-1**
Date Collected: 08/23/17 10:45 — **Matrix: Solid**
Date Received: 08/24/17 01:45 — **Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			373946	08/25/17 10:17	NMC	TAL BUF
Total/NA	Analysis	8082A		1	374008	08/25/17 17:30	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123128-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123128-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123128-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-123128-1	WC-4	Solid	08/23/17 10:45	08/24/17 01:45

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
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480-123128 COC

Client Information	Sampler: Andrew Thomas	Lab PM: Deyo, Melissa L	Carrie	COC No: 480-101161-24047.5
Client Contact: Mr. Michael Jones	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 5 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone:	PO #: B0036648.1401.00006			
Email: michael.jones@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid - North Albany	SSOW#:			

Analysis Request

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012_ReactiveCN; 9034_Reactive	9095A - Paint Filter	6010C, 7470A, 8081B, 8151A, 8270C	8260B - TCLP Volatiles	1010A, 9045C, 1036	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - DRO	8015D_GRO - GRO	6010C - Percent Sulfur	D240_87 - BTU	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	N		
NC-4	8-23-17	1045	C	Solid	N	N	1	1	1	1	1	1								6	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

8/23/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8-23-17 1655	Arcadis		8-23-17 1655	TA
2		8-23-17 1802	TA		8-24-17 0145	TA
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.3 #1

9/5/2017

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123128-1

Login Number: 123128

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-123454-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/14/2017 5:14:24 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123454-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-123454-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-123454-1

Receipt
The sample was received on 8/31/2017 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3º C.

GC/MS VOA
Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-5 (0.5-5') (480-123454-1) and (LB 480-375187/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 480-375404 recovered outside control limits for the following analytes: 1,4-Dichlorobenzene and Hexachloroethane. The associated sample(s) was re-prepared and re-analyzed with confirming results. The original analysis has been reported. The following sample is impacted: WC-5 (0.5-5') (480-123454-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: All primary data for analytical batch 375599 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 375053 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8082A: The continuing calibration verification (CCV 480-375053/8) associated with analytical batch 480-375053 recovered above the upper control limit PCB-1262. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-5 (0.5-5') (480-123454-1) and (LB 480-375186/1-F). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: All primary data for analytical batch 375706 is reported from the RTX-CLPI column.

Method(s) 8151A: The surrogate percent difference in the associated continuing calibration (CCV 480-375706/5) for 2,4-Dichlorophenylacetic acid exceeded control limits on the RTX-CLPI column, indicating a high bias.

Method(s) 8151A: The continuing calibration verifications (CCV 480-375706/4) and (CCV 480-375706/5) associated with analytical batch 480-375706 recovered above the upper control limit for the analytes 2,4-D and Silvex(2,4,5-TP). The sample associated with these CCVs were non-detect for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-5 (0.5-5') (480-123454-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The leachate blank for batch 375186 contained Arsenic above the reporting limit (RL). None of the samples associated with this leachate blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed: WC-5 (0.5-5') (480-123454-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-123454-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

General Chemistry

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-5 (0.5-5') (480-123454-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-375362.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-375404.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123454-1

Client Sample ID: WC-5 (0.5-5')

Lab Sample ID: 480-123454-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.037		0.010	0.0041	mg/L	10		8260C	TCLP
gamma-BHC (Lindane)	0.000058	J	0.00020	0.0000060	mg/L	1		8081B	TCLP
Barium	1.0		1.0	0.10	mg/L	1		6010C	TCLP
Lead	0.013	J	0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	20.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-5 (0.5-5')

Date Collected: 08/30/17 12:15
Date Received: 08/31/17 01:30

Lab Sample ID: 480-123454-1
Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/06/17 23:15	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/06/17 23:15	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/06/17 23:15	10
Benzene	**0.037**		0.010	0.0041	mg/L			09/06/17 23:15	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/06/17 23:15	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/06/17 23:15	10
Chloroform	ND		0.010	0.0034	mg/L			09/06/17 23:15	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/06/17 23:15	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/06/17 23:15	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/06/17 23:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/06/17 23:15*	*10*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*09/06/17 23:15*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*09/06/17 23:15*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/06/17 23:15*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	*	0.010	0.00046	mg/L		09/06/17 10:16	09/07/17 21:40	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/06/17 10:16	09/07/17 21:40	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/06/17 10:16	09/07/17 21:40	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/06/17 10:16	09/07/17 21:40	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/06/17 10:16	09/07/17 21:40	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/06/17 10:16	09/07/17 21:40	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/06/17 10:16	09/07/17 21:40	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/06/17 10:16	09/07/17 21:40	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/06/17 10:16	09/07/17 21:40	1
Hexachloroethane	ND	*	0.0050	0.00059	mg/L		09/06/17 10:16	09/07/17 21:40	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/06/17 10:16	09/07/17 21:40	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/06/17 10:16	09/07/17 21:40	1
Pyridine	ND		0.025	0.00041	mg/L		09/06/17 10:16	09/07/17 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*41 - 120*	*09/06/17 10:16*	*09/07/17 21:40*	*1*
2-Fluorobiphenyl	*64*		*48 - 120*	*09/06/17 10:16*	*09/07/17 21:40*	*1*
2-Fluorophenol	*35*		*35 - 120*	*09/06/17 10:16*	*09/07/17 21:40*	*1*
Nitrobenzene-d5	*63*		*46 - 120*	*09/06/17 10:16*	*09/07/17 21:40*	*1*
Phenol-d5	*26*		*22 - 120*	*09/06/17 10:16*	*09/07/17 21:40*	*1*
p-Terphenyl-d14	*75*		*59 - 136*	*09/06/17 10:16*	*09/07/17 21:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/06/17 07:50	09/07/17 11:39	1
Endrin	ND		0.00020	0.000014	mg/L		09/06/17 07:50	09/07/17 11:39	1
gamma-BHC (Lindane)	**0.000058**	**J**	0.00020	0.0000060	mg/L		09/06/17 07:50	09/07/17 11:39	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/06/17 07:50	09/07/17 11:39	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/06/17 07:50	09/07/17 11:39	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/06/17 07:50	09/07/17 11:39	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/06/17 07:50	09/07/17 11:39	1

Client Sample ID: WC-5 (0.5-5')

Lab Sample ID: 480-123454-1

Date Collected: 08/30/17 12:15

Matrix: Solid

Date Received: 08/31/17 01:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*20 - 120*	*09/06/17 07:50*	*09/07/17 11:39*	*1*
DCB Decachlorobiphenyl	*85*		*20 - 120*	*09/06/17 07:50*	*09/07/17 11:39*	*1*
Tetrachloro-m-xylene	*86*		*44 - 120*	*09/06/17 07:50*	*09/07/17 11:39*	*1*
Tetrachloro-m-xylene	*67*		*44 - 120*	*09/06/17 07:50*	*09/07/17 11:39*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/06/17 14:30	09/07/17 20:13	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/06/17 14:30	09/07/17 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*19*	*X*	*48 - 132*	*09/06/17 14:30*	*09/07/17 20:13*	*1*
2,4-Dichlorophenylacetic acid	*17*	*X*	*48 - 132*	*09/06/17 14:30*	*09/07/17 20:13*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/06/17 11:28	09/07/17 13:53	1
Barium	**1.0**		1.0	0.10	mg/L		09/06/17 11:28	09/07/17 13:53	1
Cadmium	ND		0.0020	0.00050	mg/L		09/06/17 11:28	09/07/17 13:53	1
Chromium	ND		0.020	0.010	mg/L		09/06/17 11:28	09/07/17 13:53	1
Lead	**0.013**	**J**	0.020	0.0030	mg/L		09/06/17 11:28	09/07/17 13:53	1
Selenium	ND		0.025	0.0087	mg/L		09/06/17 11:28	09/07/17 13:53	1
Silver	ND		0.0060	0.0017	mg/L		09/06/17 11:28	09/07/17 13:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/17 12:15	09/06/17 16:16	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/01/17 13:52	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/08/17 02:00	09/08/17 14:57	1
Sulfide, Reactive	ND		10	10	mg/Kg		09/08/17 02:00	09/08/17 11:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			09/11/17 16:47	1
pH	**8.1**	**HF**	0.1	0.1	SU			08/31/17 15:40	1
Temperature	**20.1**	**HF**	0.001	0.001	Degrees C			08/31/17 15:40	1

Client Sample ID: WC-5 (0.5-5')

Lab Sample ID: 480-123454-1

Date Collected: 08/30/17 12:15

Matrix: Solid

Date Received: 08/31/17 01:30

Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1
PCB-1221	ND		0.25	0.048	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1
PCB-1232	ND		0.25	0.048	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1
PCB-1242	ND		0.25	0.048	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1
PCB-1248	ND		0.25	0.048	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123454-1

Client Sample ID: WC-5 (0.5-5')
Date Collected: 08/30/17 12:15
Date Received: 08/31/17 01:30

Lab Sample ID: 480-123454-1
Matrix: Solid
Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.25	0.12	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1
PCB-1262	ND		0.25	0.12	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1
PCB-1268	ND		0.25	0.12	mg/Kg	☼	08/31/17 06:58	09/02/17 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*08/31/17 06:58*	*09/02/17 00:11*	*1*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*08/31/17 06:58*	*09/02/17 00:11*	*1*
Tetrachloro-m-xylene	*131*		*60 - 154*	*08/31/17 06:58*	*09/02/17 00:11*	*1*
Tetrachloro-m-xylene	*117*		*60 - 154*	*08/31/17 06:58*	*09/02/17 00:11*	*1*

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-375509/4	Lab Control Sample	97	98	99	100
MB 480-375509/6	Method Blank	101	92	96	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-123454-1	WC-5 (0.5-5')	98	96	96	98
LB 480-375187/1-A	Method Blank	102	94	99	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
LCS 480-375404/2-A	Lab Control Sample	92	75	45	73	35	84
LCSD 480-375404/3-A	Lab Control Sample Dup	91	68	40	67	29	81
MB 480-375404/1-A	Method Blank	80	70	43	72	33	78

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-123454-1	WC-5 (0.5-5')	80	64	35	63	26	75
LB 480-375186/1-C	Method Blank	84	80	50	82	33	89

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
LCS 480-375362/2-A	Lab Control Sample	59	58	79	66
LCSD 480-375362/3-A	Lab Control Sample Dup	54	55	72	60
MB 480-375362/1-A	Method Blank	57	57	74	63

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-123454-1	WC-5 (0.5-5')	89	85	86	67
LB 480-375186/1-B	Method Blank	86	85	77	69

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(65-174)	(65-174)	(60-154)	(60-154)
480-123454-1	WC-5 (0.5-5')	130	116	131	117
LCS 480-374732/2-A	Lab Control Sample	131	114	146	132
MB 480-374732/1-A	Method Blank	96	107	125	109

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
LCS 480-375481/2-A	Lab Control Sample	77	116

Method: 8151 - TCLP Herbicides (Continued)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPA1 (48-132)	DCPA2 (48-132)
LCSD 480-375481/3-A	Lab Control Sample Dup	53	55
MB 480-375481/1-A	Method Blank	64	80

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPA1 (48-132)	DCPA2 (48-132)
480-123454-1	WC-5 (0.5-5')	19 X	17 X
LB 480-375186/1-F	Method Blank	14 X	15 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-375509/6
Matrix: Solid
Analysis Batch: 375509

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/06/17 21:19	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/06/17 21:19	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/06/17 21:19	1
Benzene	ND		0.0010	0.00041	mg/L			09/06/17 21:19	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/06/17 21:19	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/06/17 21:19	1
Chloroform	ND		0.0010	0.00034	mg/L			09/06/17 21:19	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/06/17 21:19	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/06/17 21:19	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/06/17 21:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/06/17 21:19*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*09/06/17 21:19*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*09/06/17 21:19*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/06/17 21:19*	*1*

Lab Sample ID: LCS 480-375509/4
Matrix: Solid
Analysis Batch: 375509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0205		mg/L		82	66 - 127
1,2-Dichloroethane	0.0250	0.0246		mg/L		98	75 - 120
2-Butanone (MEK)	0.125	0.123		mg/L		98	57 - 140
Benzene	0.0250	0.0247		mg/L		99	71 - 124
Carbon tetrachloride	0.0250	0.0237		mg/L		95	72 - 134
Chlorobenzene	0.0250	0.0244		mg/L		98	80 - 120
Chloroform	0.0250	0.0251		mg/L		100	73 - 127
Tetrachloroethene	0.0250	0.0243		mg/L		97	74 - 122
Trichloroethene	0.0250	0.0239		mg/L		95	74 - 123
Vinyl chloride	0.0250	0.0259		mg/L		103	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LB 480-375187/1-A
Matrix: Solid
Analysis Batch: 375509

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/06/17 21:42	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/06/17 21:42	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/06/17 21:42	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-375187/1-A
Matrix: Solid
Analysis Batch: 375509

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			09/06/17 21:42	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/06/17 21:42	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/06/17 21:42	10
Chloroform	ND		0.010	0.0034	mg/L			09/06/17 21:42	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/06/17 21:42	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/06/17 21:42	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/06/17 21:42	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*09/06/17 21:42*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*09/06/17 21:42*	*10*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*09/06/17 21:42*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/06/17 21:42*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-375404/1-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		09/06/17 10:16	09/07/17 19:02	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		09/06/17 10:16	09/07/17 19:02	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		09/06/17 10:16	09/07/17 19:02	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		09/06/17 10:16	09/07/17 19:02	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		09/06/17 10:16	09/07/17 19:02	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		09/06/17 10:16	09/07/17 19:02	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		09/06/17 10:16	09/07/17 19:02	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		09/06/17 10:16	09/07/17 19:02	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		09/06/17 10:16	09/07/17 19:02	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		09/06/17 10:16	09/07/17 19:02	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		09/06/17 10:16	09/07/17 19:02	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		09/06/17 10:16	09/07/17 19:02	1
Pyridine	ND		0.0063	0.00010	mg/L		09/06/17 10:16	09/07/17 19:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*41 - 120*	*09/06/17 10:16*	*09/07/17 19:02*	*1*
2-Fluorobiphenyl	*70*		*48 - 120*	*09/06/17 10:16*	*09/07/17 19:02*	*1*
2-Fluorophenol	*43*		*35 - 120*	*09/06/17 10:16*	*09/07/17 19:02*	*1*
Nitrobenzene-d5	*72*		*46 - 120*	*09/06/17 10:16*	*09/07/17 19:02*	*1*
Phenol-d5	*33*		*22 - 120*	*09/06/17 10:16*	*09/07/17 19:02*	*1*
p-Terphenyl-d14	*78*		*59 - 136*	*09/06/17 10:16*	*09/07/17 19:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-375404/2-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375404

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			0.0500	0.0267		mg/L		53	51 - 120		
2,4,5-Trichlorophenol			0.0500	0.0435		mg/L		87	65 - 126		
2,4,6-Trichlorophenol			0.0500	0.0414		mg/L		83	64 - 120		
2,4-Dinitrotoluene			0.0500	0.0429		mg/L		86	69 - 120		
2-Methylphenol			0.0500	0.0359		mg/L		72	39 - 120		
3-Methylphenol			0.0500	0.0343		mg/L		69	39 - 120		
4-Methylphenol			0.0500	0.0343		mg/L		69	29 - 131		
Hexachlorobenzene			0.0500	0.0427		mg/L		85	61 - 120		
Hexachlorobutadiene			0.0500	0.0254		mg/L		51	35 - 120		
Hexachloroethane			0.0500	0.0243		mg/L		49	43 - 120		
Nitrobenzene			0.0500	0.0352		mg/L		70	53 - 123		
Pentachlorophenol			0.100	0.0901		mg/L		90	29 - 136		
Pyridine			0.100	0.0489		mg/L		49	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*41 - 120*
2-Fluorobiphenyl	*75*		*48 - 120*
2-Fluorophenol	*45*		*35 - 120*
Nitrobenzene-d5	*73*		*46 - 120*
Phenol-d5	*35*		*22 - 120*
p-Terphenyl-d14	*84*		*59 - 136*

Lab Sample ID: LCSD 480-375404/3-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375404

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0229	*	mg/L		46	51 - 120	15	36
2,4,5-Trichlorophenol			0.0500	0.0404		mg/L		81	65 - 126	7	18
2,4,6-Trichlorophenol			0.0500	0.0392		mg/L		78	64 - 120	6	19
2,4-Dinitrotoluene			0.0500	0.0428		mg/L		86	69 - 120	0	20
2-Methylphenol			0.0500	0.0317		mg/L		63	39 - 120	12	27
3-Methylphenol			0.0500	0.0309		mg/L		62	39 - 120	10	30
4-Methylphenol			0.0500	0.0309		mg/L		62	29 - 131	10	24
Hexachlorobenzene			0.0500	0.0417		mg/L		83	61 - 120	2	15
Hexachlorobutadiene			0.0500	0.0218		mg/L		44	35 - 120	15	44
Hexachloroethane			0.0500	0.0204	*	mg/L		41	43 - 120	17	46
Nitrobenzene			0.0500	0.0313		mg/L		63	53 - 123	12	24
Pentachlorophenol			0.100	0.0869		mg/L		87	29 - 136	4	37
Pyridine			0.100	0.0480		mg/L		48	10 - 120	2	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*91*		*41 - 120*
2-Fluorobiphenyl	*68*		*48 - 120*
2-Fluorophenol	*40*		*35 - 120*
Nitrobenzene-d5	*67*		*46 - 120*
Phenol-d5	*29*		*22 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-375404/3-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375404

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl-d14	*81*		*59 - 136*

Lab Sample ID: LB 480-375186/1-C
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 375404

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/06/17 10:16	09/07/17 22:06	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/06/17 10:16	09/07/17 22:06	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/06/17 10:16	09/07/17 22:06	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/06/17 10:16	09/07/17 22:06	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/06/17 10:16	09/07/17 22:06	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/06/17 10:16	09/07/17 22:06	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/06/17 10:16	09/07/17 22:06	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/06/17 10:16	09/07/17 22:06	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/06/17 10:16	09/07/17 22:06	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/06/17 10:16	09/07/17 22:06	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/06/17 10:16	09/07/17 22:06	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/06/17 10:16	09/07/17 22:06	1
Pyridine	ND		0.025	0.00041	mg/L		09/06/17 10:16	09/07/17 22:06	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	*84*		*41 - 120*	*09/06/17 10:16*	*09/07/17 22:06*	*1*
2-Fluorobiphenyl	*80*		*48 - 120*	*09/06/17 10:16*	*09/07/17 22:06*	*1*
2-Fluorophenol	*50*		*35 - 120*	*09/06/17 10:16*	*09/07/17 22:06*	*1*
Nitrobenzene-d5	*82*		*46 - 120*	*09/06/17 10:16*	*09/07/17 22:06*	*1*
Phenol-d5	*33*		*22 - 120*	*09/06/17 10:16*	*09/07/17 22:06*	*1*
p-Terphenyl-d14	*89*		*59 - 136*	*09/06/17 10:16*	*09/07/17 22:06*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-375362/1-A
Matrix: Solid
Analysis Batch: 375599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		09/06/17 07:50	09/07/17 10:01	1
Endrin	ND		0.000050	0.0000035	mg/L		09/06/17 07:50	09/07/17 10:01	1
gamma-BHC (Lindane)	ND		0.000050	0.0000015	mg/L		09/06/17 07:50	09/07/17 10:01	1
Heptachlor	ND		0.000050	0.0000021	mg/L		09/06/17 07:50	09/07/17 10:01	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		09/06/17 07:50	09/07/17 10:01	1
Methoxychlor	ND		0.000050	0.0000035	mg/L		09/06/17 07:50	09/07/17 10:01	1
Toxaphene	ND		0.00050	0.000030	mg/L		09/06/17 07:50	09/07/17 10:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*57*		*20 - 120*	*09/06/17 07:50*	*09/07/17 10:01*	*1*
DCB Decachlorobiphenyl	*57*		*20 - 120*	*09/06/17 07:50*	*09/07/17 10:01*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-375362/1-A
Matrix: Solid
Analysis Batch: 375599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375362

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		44 - 120	09/06/17 07:50	09/07/17 10:01	1
Tetrachloro-m-xylene	63		44 - 120	09/06/17 07:50	09/07/17 10:01	1

Lab Sample ID: LCS 480-375362/2-A
Matrix: Solid
Analysis Batch: 375599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375362

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin			0.000500	0.000485		mg/L		97	65 - 135		
gamma-BHC (Lindane)			0.000500	0.000397		mg/L		79	56 - 120		
Heptachlor			0.000500	0.000424		mg/L		85	58 - 120		
Heptachlor epoxide			0.000500	0.000443		mg/L		89	65 - 125		
Methoxychlor			0.000500	0.000479		mg/L		96	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	59		20 - 120
DCB Decachlorobiphenyl	58		20 - 120
Tetrachloro-m-xylene	79		44 - 120
Tetrachloro-m-xylene	66		44 - 120

Lab Sample ID: LCSD 480-375362/3-A
Matrix: Solid
Analysis Batch: 375599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375362

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin			0.000500	0.000445		mg/L		89	65 - 135	8	24
gamma-BHC (Lindane)			0.000500	0.000365		mg/L		73	56 - 120	8	24
Heptachlor			0.000500	0.000381		mg/L		76	58 - 120	10	25
Heptachlor epoxide			0.000500	0.000413		mg/L		83	65 - 125	7	23
Methoxychlor			0.000500	0.000451		mg/L		90	50 - 150	6	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	54		20 - 120
DCB Decachlorobiphenyl	55		20 - 120
Tetrachloro-m-xylene	72		44 - 120
Tetrachloro-m-xylene	60		44 - 120

Lab Sample ID: LB 480-375186/1-B
Matrix: Solid
Analysis Batch: 375599

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 375362

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/06/17 07:50	09/07/17 11:58	1
Endrin	ND		0.00020	0.000014	mg/L		09/06/17 07:50	09/07/17 11:58	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/06/17 07:50	09/07/17 11:58	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/06/17 07:50	09/07/17 11:58	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/06/17 07:50	09/07/17 11:58	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 480-375186/1-B
Matrix: Solid
Analysis Batch: 375599

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 375362

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.00020	0.000014	mg/L		09/06/17 07:50	09/07/17 11:58	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/06/17 07:50	09/07/17 11:58	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*20 - 120*	*09/06/17 07:50*	*09/07/17 11:58*	*1*
DCB Decachlorobiphenyl	*85*		*20 - 120*	*09/06/17 07:50*	*09/07/17 11:58*	*1*
Tetrachloro-m-xylene	*77*		*44 - 120*	*09/06/17 07:50*	*09/07/17 11:58*	*1*
Tetrachloro-m-xylene	*69*		*44 - 120*	*09/06/17 07:50*	*09/07/17 11:58*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-374732/1-A
Matrix: Solid
Analysis Batch: 375053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg		08/31/17 06:58	09/01/17 19:51	1
PCB-1221	ND		0.23	0.045	mg/Kg		08/31/17 06:58	09/01/17 19:51	1
PCB-1232	ND		0.23	0.045	mg/Kg		08/31/17 06:58	09/01/17 19:51	1
PCB-1242	ND		0.23	0.045	mg/Kg		08/31/17 06:58	09/01/17 19:51	1
PCB-1248	ND		0.23	0.045	mg/Kg		08/31/17 06:58	09/01/17 19:51	1
PCB-1254	ND		0.23	0.11	mg/Kg		08/31/17 06:58	09/01/17 19:51	1
PCB-1260	ND		0.23	0.11	mg/Kg		08/31/17 06:58	09/01/17 19:51	1
PCB-1262	ND		0.23	0.11	mg/Kg		08/31/17 06:58	09/01/17 19:51	1
PCB-1268	ND		0.23	0.11	mg/Kg		08/31/17 06:58	09/01/17 19:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*65 - 174*	*08/31/17 06:58*	*09/01/17 19:51*	*1*
DCB Decachlorobiphenyl	*107*		*65 - 174*	*08/31/17 06:58*	*09/01/17 19:51*	*1*
Tetrachloro-m-xylene	*125*		*60 - 154*	*08/31/17 06:58*	*09/01/17 19:51*	*1*
Tetrachloro-m-xylene	*109*		*60 - 154*	*08/31/17 06:58*	*09/01/17 19:51*	*1*

Lab Sample ID: LCS 480-374732/2-A
Matrix: Solid
Analysis Batch: 375053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374732

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.17	3.21		mg/Kg		148	51 - 185		
PCB-1260			2.17	3.47		mg/Kg		160	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*131*		*65 - 174*
DCB Decachlorobiphenyl	*114*		*65 - 174*
Tetrachloro-m-xylene	*146*		*60 - 154*
Tetrachloro-m-xylene	*132*		*60 - 154*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-375481/1-A
Matrix: Solid
Analysis Batch: 375706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		09/06/17 14:30	09/07/17 17:44	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		09/06/17 14:30	09/07/17 17:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*64*		*48 - 132*	*09/06/17 14:30*	*09/07/17 17:44*	*1*
2,4-Dichlorophenylacetic acid	*80*		*48 - 132*	*09/06/17 14:30*	*09/07/17 17:44*	*1*

Lab Sample ID: LCS 480-375481/2-A
Matrix: Solid
Analysis Batch: 375706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375481

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.00200	0.00162		mg/L		81	36 - 150		
Silvex (2,4,5-TP)			0.00200	0.00139		mg/L		69	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*77*		*48 - 132*
2,4-Dichlorophenylacetic acid	*116*		*48 - 132*

Lab Sample ID: LCSD 480-375481/3-A
Matrix: Solid
Analysis Batch: 375706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375481

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.00200	0.00141		mg/L		70	36 - 150	14	50
Silvex (2,4,5-TP)			0.00200	0.00113		mg/L		56	49 - 150	21	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*53*		*48 - 132*
2,4-Dichlorophenylacetic acid	*55*		*48 - 132*

Lab Sample ID: LB 480-375186/1-F
Matrix: Solid
Analysis Batch: 375706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 375481

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/06/17 14:30	09/07/17 19:13	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/06/17 14:30	09/07/17 19:13	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*14*	*X*	*48 - 132*	*09/06/17 14:30*	*09/07/17 19:13*	*1*
2,4-Dichlorophenylacetic acid	*15*	*X*	*48 - 132*	*09/06/17 14:30*	*09/07/17 19:13*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-375413/2-A
Matrix: Solid
Analysis Batch: 375828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/06/17 11:28	09/07/17 12:56	1
Barium	ND		1.0	0.10	mg/L		09/06/17 11:28	09/07/17 12:56	1
Cadmium	ND		0.0020	0.00050	mg/L		09/06/17 11:28	09/07/17 12:56	1
Chromium	ND		0.020	0.010	mg/L		09/06/17 11:28	09/07/17 12:56	1
Lead	ND		0.020	0.0030	mg/L		09/06/17 11:28	09/07/17 12:56	1
Selenium	ND		0.025	0.0087	mg/L		09/06/17 11:28	09/07/17 12:56	1
Silver	ND		0.0060	0.0017	mg/L		09/06/17 11:28	09/07/17 12:56	1

Lab Sample ID: LCS 480-375413/3-A
Matrix: Solid
Analysis Batch: 375828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.14		mg/L		114	80 - 120
Barium	1.00	1.04		mg/L		104	80 - 120
Cadmium	1.00	1.10		mg/L		110	80 - 120
Chromium	1.00	1.05		mg/L		105	80 - 120
Lead	1.00	1.08		mg/L		108	80 - 120
Selenium	1.00	1.13		mg/L		113	80 - 120
Silver	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: LB 480-375186/1-D
Matrix: Solid
Analysis Batch: 375828

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 375413

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0189		0.015	0.0056	mg/L		09/06/17 11:28	09/07/17 12:52	1
Barium	ND		1.0	0.10	mg/L		09/06/17 11:28	09/07/17 12:52	1
Cadmium	ND		0.0020	0.00050	mg/L		09/06/17 11:28	09/07/17 12:52	1
Chromium	ND		0.020	0.010	mg/L		09/06/17 11:28	09/07/17 12:52	1
Lead	ND		0.020	0.0030	mg/L		09/06/17 11:28	09/07/17 12:52	1
Selenium	ND		0.025	0.0087	mg/L		09/06/17 11:28	09/07/17 12:52	1
Silver	ND		0.0060	0.0017	mg/L		09/06/17 11:28	09/07/17 12:52	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-375439/2-A
Matrix: Solid
Analysis Batch: 375648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/17 12:15	09/06/17 16:00	1

Lab Sample ID: LCS 480-375439/3-A
Matrix: Solid
Analysis Batch: 375648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00597		mg/L		89	80 - 120

Lab Sample ID: LB 480-375186/1-E
Matrix: Solid
Analysis Batch: 375648

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 375439

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/17 12:15	09/06/17 15:58	1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-376205/1
Matrix: Solid
Analysis Batch: 376205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	83.00		Degrees F		102	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-375847/1-A
Matrix: Solid
Analysis Batch: 376028

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		09/08/17 02:00	09/08/17 14:57	1

Lab Sample ID: LCS 480-375847/2-A
Matrix: Solid
Analysis Batch: 376028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	303.8		mg/Kg		30	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-375908/1-A
Matrix: Solid
Analysis Batch: 376033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375908

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		09/08/17 02:00	09/08/17 11:30	1

Lab Sample ID: LCS 480-375908/2-A
Matrix: Solid
Analysis Batch: 376033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	880	761.4		mg/Kg		87	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-374922/23
Matrix: Solid
Analysis Batch: 374922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Method: 9095B - Paint Filter

Lab Sample ID: 480-123454-1 DU
Matrix: Solid
Analysis Batch: 375064

Client Sample ID: WC-5 (0.5-5')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Free Liquid	passed			passed		mL/100g				NC	

GC/MS VOA

Leach Batch: 375187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	1311	
LB 480-375187/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 375509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	8260C	375187
LB 480-375187/1-A	Method Blank	TCLP	Solid	8260C	375187
MB 480-375509/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-375509/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 375186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	1311	
LB 480-375186/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 375404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	3510C	375186
LB 480-375186/1-C	Method Blank	TCLP	Solid	3510C	375186
MB 480-375404/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-375404/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-375404/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 375643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	8270D	375404
LB 480-375186/1-C	Method Blank	TCLP	Solid	8270D	375404
MB 480-375404/1-A	Method Blank	Total/NA	Solid	8270D	375404
LCS 480-375404/2-A	Lab Control Sample	Total/NA	Solid	8270D	375404
LCSD 480-375404/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	375404

GC Semi VOA

Prep Batch: 374732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	3550C	
MB 480-374732/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-374732/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 375053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	8082A	374732
MB 480-374732/1-A	Method Blank	Total/NA	Solid	8082A	374732
LCS 480-374732/2-A	Lab Control Sample	Total/NA	Solid	8082A	374732

Leach Batch: 375186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	1311	

GC Semi VOA (Continued)

Leach Batch: 375186 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-375186/1-B	Method Blank	TCLP	Solid	1311	
LB 480-375186/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 375362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	3510C	375186
LB 480-375186/1-B	Method Blank	TCLP	Solid	3510C	375186
MB 480-375362/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-375362/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-375362/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Prep Batch: 375481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	8151A	375186
LB 480-375186/1-F	Method Blank	TCLP	Solid	8151A	375186
MB 480-375481/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-375481/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-375481/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 375599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	8081B	375362
LB 480-375186/1-B	Method Blank	TCLP	Solid	8081B	375362
MB 480-375362/1-A	Method Blank	Total/NA	Solid	8081B	375362
LCS 480-375362/2-A	Lab Control Sample	Total/NA	Solid	8081B	375362
LCSD 480-375362/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	375362

Analysis Batch: 375706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	8151	375481
LB 480-375186/1-F	Method Blank	TCLP	Solid	8151	375481
MB 480-375481/1-A	Method Blank	Total/NA	Solid	8151	375481
LCS 480-375481/2-A	Lab Control Sample	Total/NA	Solid	8151	375481
LCSD 480-375481/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	375481

Metals

Leach Batch: 375186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	1311	
LB 480-375186/1-D	Method Blank	TCLP	Solid	1311	
LB 480-375186/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 375413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	3010A	375186
LB 480-375186/1-D	Method Blank	TCLP	Solid	3010A	375186
MB 480-375413/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-375413/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals (Continued)

Prep Batch: 375439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	7470A	375186
LB 480-375186/1-E	Method Blank	TCLP	Solid	7470A	375186
MB 480-375439/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-375439/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 375648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	7470A	375439
LB 480-375186/1-E	Method Blank	TCLP	Solid	7470A	375439
MB 480-375439/2-A	Method Blank	Total/NA	Solid	7470A	375439
LCS 480-375439/3-A	Lab Control Sample	Total/NA	Solid	7470A	375439

Analysis Batch: 375828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	TCLP	Solid	6010C	375413
LB 480-375186/1-D	Method Blank	TCLP	Solid	6010C	375413
MB 480-375413/2-A	Method Blank	Total/NA	Solid	6010C	375413
LCS 480-375413/3-A	Lab Control Sample	Total/NA	Solid	6010C	375413

General Chemistry

Analysis Batch: 374726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	Moisture	

Analysis Batch: 374922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	9045D	
LCS 480-374922/23	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 375064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	9095B	
480-123454-1 DU	WC-5 (0.5-5')	Total/NA	Solid	9095B	

Prep Batch: 375847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	7.3.3	
MB 480-375847/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-375847/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 375908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	7.3.4	
MB 480-375908/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-375908/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 376028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	9012	375847

General Chemistry (Continued)

Analysis Batch: 376028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-375847/1-A	Method Blank	Total/NA	Solid	9012	375847
LCS 480-375847/2-A	Lab Control Sample	Total/NA	Solid	9012	375847

Analysis Batch: 376033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	9034	375908
MB 480-375908/1-A	Method Blank	Total/NA	Solid	9034	375908
LCS 480-375908/2-A	Lab Control Sample	Total/NA	Solid	9034	375908

Analysis Batch: 376205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123454-1	WC-5 (0.5-5')	Total/NA	Solid	1010A	
LCS 480-376205/1	Lab Control Sample	Total/NA	Solid	1010A	

Client Sample ID: WC-5 (0.5-5') — **Lab Sample ID: 480-123454-1**
Date Collected: 08/30/17 12:15 — **Matrix: Solid**
Date Received: 08/31/17 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			375187	09/05/17 09:01	NMC	TAL BUF
TCLP	Analysis	8260C		10	375509	09/06/17 23:15	NEA	TAL BUF
TCLP	Leach	1311			375186	09/05/17 08:55	NMC	TAL BUF
TCLP	Prep	3510C			375404	09/06/17 10:16	JMP	TAL BUF
TCLP	Analysis	8270D		1	375643	09/07/17 21:40	MKP	TAL BUF
TCLP	Leach	1311			375186	09/05/17 08:55	NMC	TAL BUF
TCLP	Prep	3510C			375362	09/06/17 07:50	JMP	TAL BUF
TCLP	Analysis	8081B		1	375599	09/07/17 11:39	MAN	TAL BUF
TCLP	Leach	1311			375186	09/05/17 08:55	NMC	TAL BUF
TCLP	Prep	8151A			375481	09/06/17 14:30	RLT	TAL BUF
TCLP	Analysis	8151		1	375706	09/07/17 20:13	TRG	TAL BUF
TCLP	Leach	1311			375186	09/05/17 08:55	NMC	TAL BUF
TCLP	Prep	3010A			375413	09/06/17 11:28	EMB	TAL BUF
TCLP	Analysis	6010C		1	375828	09/07/17 13:53	JRK	TAL BUF
TCLP	Leach	1311			375186	09/05/17 08:55	NMC	TAL BUF
TCLP	Prep	7470A			375439	09/06/17 12:15	BMB	TAL BUF
TCLP	Analysis	7470A		1	375648	09/06/17 16:16	BMB	TAL BUF
Total/NA	Analysis	1010A		1	376205	09/11/17 16:47	DSC	TAL BUF
Total/NA	Prep	7.3.3			375847	09/08/17 02:00	LAW	TAL BUF
Total/NA	Analysis	9012		1	376028	09/08/17 14:57	LAW	TAL BUF
Total/NA	Prep	7.3.4			375908	09/08/17 02:00	LAW	TAL BUF
Total/NA	Analysis	9034		1	376033	09/08/17 11:30	LAW	TAL BUF
Total/NA	Analysis	9045D		1	374922	08/31/17 15:40	ALZ	TAL BUF
Total/NA	Analysis	9095B		1	375064	09/01/17 13:52	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	374726	08/31/17 06:31	CSW	TAL BUF

Client Sample ID: WC-5 (0.5-5') — **Lab Sample ID: 480-123454-1**
Date Collected: 08/30/17 12:15 — **Matrix: Solid**
Date Received: 08/31/17 01:30 — **Percent Solids: 81.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			374732	08/31/17 06:58	CAM	TAL BUF
Total/NA	Analysis	8082A		1	375053	09/02/17 00:11	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123454-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123454-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123454-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-123454-1	WC-5 (0.5-5')	Solid	08/30/17 12:15	08/31/17 01:30

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
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480-123454 COC

Client Information	Sampler: Audrey Thomas	Lab PM: Deyo, Melissa L	Carrier:	COC No: 480-101161-24047.1
Client Contact: Mr. Michael Jones	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone:	PO #: B0036648.1401.00006			
Email: michael.jones@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid - North Albany	SSOW#:			

Analysis Request

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012_ReactiveCN, 9034_Reactive	9095A - Paint Filter	6010C, 7470A, 8081B, 8151A, 8270C	8260B - TCLP Volatiles	1010A, 9045C, 1030	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - DRO	8015D_GRO - GRO	6010C - Percent Sulfur	D240_87 - BTU	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	N		
NC-5 (0.5-5')	8-30-17	1215	C	Solid	N	N	1	1	1	1	1	1								6	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

8-30-17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8-30-17 1625	Arcadis	[signature]	8/30/17 1640	TA
2	[signature]	8-30-17	Company	[signature]	8-31-17 0130	TA
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 0.3 #1

Page 31 of 32
9/14/2017

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123454-1

Login Number: 123454

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-123628-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/19/2017 4:35:33 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-123628-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-123628-1

Receipt
The samples were received on 9/6/2017 1:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: WC-10 (11'-21.6') (480-123628-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-376688 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-10 (0.5'-11') (480-123628-1).

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-10 (0.5'-11') (480-123628-1) and (LB 480-376319/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-10 (11'-21.6') (480-123628-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted due to the abundance of target analytes: WC-10 (11'-21.6') (480-123628-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-10 (11'-21.6') (480-123628-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) 8015D: Reported analyte concentrations in the following sample is below 200 ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: WC-10 (11'-21.6') (480-123628-2).

Method(s) 8015D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-10 (11'-21.6') (480-123628-2). As such, surrogate recoveries are estimated and not representative. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015D: The following sample was diluted due to an abundance of target analytes: WC-10 (11'-21.6') (480-123628-2). As such, surrogate recoveries are estimated and not representative, and elevated reporting limits (RLs) are provided.

Method(s) 8015D: the following samples are associated with a set of continuing calibration verifications (CCV 480-375874/30), (CCV 480-375874/40) and (CCV 480-376115/13) that have recoveries for the surrogate o-Terphenyl that are slightly below acceptance limits: WC-10 (11'-21.6') (480-123628-2), MB 480-375469/1-A and LCS 480-375469/2-A. All other QC and CCV analyte recoveries are within limits. Therefore, the data has been reported.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-376893 recovered above the upper control limit for 2,4-D. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-10 (0.5'-11') (480-123628-1).

Job ID: 480-123628-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-10 (0.5'-11') (480-123628-1) and (LB 480-376306/1-G). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: The following samples are associated with a method blank (MB 480-376626/1-A) that had recoveries for the surrogate 2,4-Dichlorophenylacetic acid: WC-10 (0.5'-11') (480-123628-1). The LCS and LCSD surrogate recoveries are within limits. Therefore, the data has been reported.

Method(s) 8081B: All primary data for analytical batch 377016 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 376144 is reported from the ZB-35 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: All primary data for analytical batch 376893 is reported from the RTX-CLPII column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The Continuing Calibration Blank (CCB 480-376078/42) contained Total Iron above the reporting limit (RL). All reported samples WC-10 (11'-21.6') (480-123628-2) and (LCDSRM 480-375627/25) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 6010C: One exposure out of 4 read incorrectly and method only calls for 3 exposures; therefore CCB was reported: (CCB 490-458911/20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-10 (0.5'-11') (480-123628-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-376529.

Method(s) 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-376626.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Client Sample ID: WC-10 (0.5'-11') — Lab Sample ID: 480-123628-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.38	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0011	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0058	J	0.020	0.0030	mg/L	1		6010C	TCLP
Sulfide, Reactive	20.0		10	10	mg/Kg	1		9034	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	19.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-10 (11'-21.6') — Lab Sample ID: 480-123628-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	43000		4900	930	ug/Kg	50	☼	8260C	Total/NA
Cyclohexane	6500		4900	1100	ug/Kg	50	☼	8260C	Total/NA
Ethylbenzene	98000		4900	1400	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	3000	J	4900	730	ug/Kg	50	☼	8260C	Total/NA
Methylcyclohexane	54000		4900	2300	ug/Kg	50	☼	8260C	Total/NA
Methylene Chloride	2100	J B	4900	970	ug/Kg	50	☼	8260C	Total/NA
Toluene	26000		4900	1300	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	92000		9800	2700	ug/Kg	50	☼	8260C	Total/NA
Biphenyl	25000		1900	290	ug/Kg	10	☼	8270D	Total/NA
2-Methylnaphthalene	230000	E	1900	390	ug/Kg	10	☼	8270D	Total/NA
Acenaphthene	56000	E	1900	290	ug/Kg	10	☼	8270D	Total/NA
Acenaphthylene	66000	E	1900	250	ug/Kg	10	☼	8270D	Total/NA
Anthracene	40000		1900	480	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	25000		1900	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	24000		1900	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	17000		1900	310	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	12000		1900	210	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	7600		1900	250	ug/Kg	10	☼	8270D	Total/NA
Carbazole	960	J	1900	230	ug/Kg	10	☼	8270D	Total/NA
Chrysene	25000		1900	440	ug/Kg	10	☼	8270D	Total/NA
Dibenzofuran	4100		1900	230	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	49000	E	1900	210	ug/Kg	10	☼	8270D	Total/NA
Fluorene	49000	E	1900	230	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	7800		1900	240	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	350000	E	1900	250	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	150000	E	1900	290	ug/Kg	10	☼	8270D	Total/NA
Pyrene	76000	E	1900	230	ug/Kg	10	☼	8270D	Total/NA
Biphenyl - DL	29000	J	39000	5700	ug/Kg	200	☼	8270D	Total/NA
2-Methylnaphthalene - DL	220000		39000	7800	ug/Kg	200	☼	8270D	Total/NA
Acenaphthene - DL	60000		39000	5700	ug/Kg	200	☼	8270D	Total/NA
Acenaphthylene - DL	67000		39000	5000	ug/Kg	200	☼	8270D	Total/NA
Anthracene - DL	41000		39000	9600	ug/Kg	200	☼	8270D	Total/NA
Benzo[a]anthracene - DL	28000	J	39000	3900	ug/Kg	200	☼	8270D	Total/NA
Benzo[a]pyrene - DL	25000	J	39000	5700	ug/Kg	200	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	19000	J	39000	6200	ug/Kg	200	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	12000	J	39000	4100	ug/Kg	200	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-10 (11'-21.6') (Continued)

Lab Sample ID: 480-123628-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene - DL	5800	J	39000	5000	ug/Kg	200	☼	8270D	Total/NA
Chrysene - DL	28000	J	39000	8700	ug/Kg	200	☼	8270D	Total/NA
Fluoranthene - DL	48000		39000	4100	ug/Kg	200	☼	8270D	Total/NA
Fluorene - DL	56000		39000	4600	ug/Kg	200	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	8600	J	39000	4800	ug/Kg	200	☼	8270D	Total/NA
Naphthalene - DL	450000		39000	5000	ug/Kg	200	☼	8270D	Total/NA
Phenanthrene - DL	160000		39000	5700	ug/Kg	200	☼	8270D	Total/NA
Pyrene - DL	83000		39000	4600	ug/Kg	200	☼	8270D	Total/NA
GRO (C6-C10)	540	B	140	38	mg/Kg	100	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	3900		950	290	mg/Kg	50	☼	8015D	Total/NA
Aluminum	12100		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Sulfur	0.34		0.0056	0.0029	%	1	☼	6010C	Total/NA
Arsenic	7.8		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	120		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.61		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	7390	B	57.0	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	18.2	B	0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.5		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	23.4		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	21700	^	11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	13.0		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5410		22.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	825		0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	22.1		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	3090		34.2	22.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	137	J	160	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	23.7		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	56.4		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.019	J	0.022	0.0089	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.54	J	1.1	0.52	mg/Kg	1	☼	9012B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
BTU	DNF		2.00	2.00	BTU/lb	1		D240-87	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-10 (0.5'-11')

Date Collected: 09/05/17 12:50
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-1

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/13/17 22:19	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/13/17 22:19	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/13/17 22:19	10
Benzene	ND		0.010	0.0041	mg/L			09/13/17 22:19	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/13/17 22:19	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/13/17 22:19	10
Chloroform	ND		0.010	0.0034	mg/L			09/13/17 22:19	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/13/17 22:19	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/13/17 22:19	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/13/17 22:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*09/13/17 22:19*	*10*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*09/13/17 22:19*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/13/17 22:19*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/13/17 22:19*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/13/17 10:21	09/14/17 17:44	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/13/17 10:21	09/14/17 17:44	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/13/17 10:21	09/14/17 17:44	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/13/17 10:21	09/14/17 17:44	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/13/17 10:21	09/14/17 17:44	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/13/17 10:21	09/14/17 17:44	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/13/17 10:21	09/14/17 17:44	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/13/17 10:21	09/14/17 17:44	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/13/17 10:21	09/14/17 17:44	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/13/17 10:21	09/14/17 17:44	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/13/17 10:21	09/14/17 17:44	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/13/17 10:21	09/14/17 17:44	1
Pyridine	ND		0.025	0.00041	mg/L		09/13/17 10:21	09/14/17 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*41 - 120*	*09/13/17 10:21*	*09/14/17 17:44*	*1*
2-Fluorobiphenyl	*81*		*48 - 120*	*09/13/17 10:21*	*09/14/17 17:44*	*1*
2-Fluorophenol	*45*		*35 - 120*	*09/13/17 10:21*	*09/14/17 17:44*	*1*
Nitrobenzene-d5	*76*		*46 - 120*	*09/13/17 10:21*	*09/14/17 17:44*	*1*
Phenol-d5	*32*		*22 - 120*	*09/13/17 10:21*	*09/14/17 17:44*	*1*
p-Terphenyl-d14	*99*		*59 - 136*	*09/13/17 10:21*	*09/14/17 17:44*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/13/17 14:15	09/15/17 14:42	1
Endrin	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 14:42	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/13/17 14:15	09/15/17 14:42	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/13/17 14:15	09/15/17 14:42	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/13/17 14:15	09/15/17 14:42	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 14:42	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/13/17 14:15	09/15/17 14:42	1

Client Sample ID: WC-10 (0.5'-11')

Date Collected: 09/05/17 12:50
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-1
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*20 - 120*	*09/13/17 14:15*	*09/15/17 14:42*	*1*
DCB Decachlorobiphenyl	*79*		*20 - 120*	*09/13/17 14:15*	*09/15/17 14:42*	*1*
Tetrachloro-m-xylene	*95*		*44 - 120*	*09/13/17 14:15*	*09/15/17 14:42*	*1*
Tetrachloro-m-xylene	*72*		*44 - 120*	*09/13/17 14:15*	*09/15/17 14:42*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/13/17 14:22	09/15/17 00:16	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/13/17 14:22	09/15/17 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*17*	*X*	*48 - 132*	*09/13/17 14:22*	*09/15/17 00:16*	*1*
2,4-Dichlorophenylacetic acid	*18*	*X*	*48 - 132*	*09/13/17 14:22*	*09/15/17 00:16*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 19:14	1
Barium	**0.38**	**J**	1.0	0.10	mg/L		09/13/17 10:04	09/13/17 19:14	1
Cadmium	**0.0011**	**J**	0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 19:14	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 19:14	1
Lead	**0.0058**	**J**	0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 19:14	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 19:14	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 19:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 17:58	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/11/17 15:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/10/17 10:00	09/11/17 10:40	1
Sulfide, Reactive	**20.0**		10	10	mg/Kg		09/10/17 10:00	09/11/17 12:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		50.0	50.0	Degrees F			09/15/17 13:36	1
pH	**8.8**	**HF**	0.1	0.1	SU			09/11/17 14:10	1
Temperature	**19.8**	**HF**	0.001	0.001	Degrees C			09/11/17 14:10	1

Client Sample ID: WC-10 (0.5'-11')

Date Collected: 09/05/17 12:50
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-1
Matrix: Solid
Percent Solids: 88.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	09/08/17 11:22	09/11/17 16:09	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	09/08/17 11:22	09/11/17 16:09	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	09/08/17 11:22	09/11/17 16:09	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	09/08/17 11:22	09/11/17 16:09	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	09/08/17 11:22	09/11/17 16:09	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	09/08/17 11:22	09/11/17 16:09	1

Client Sample ID: WC-10 (0.5'-11')

Lab Sample ID: 480-123628-1
Date Collected: 09/05/17 12:50
Matrix: Solid
Date Received: 09/06/17 09:00
Percent Solids: 88.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.23	0.11	mg/Kg	☼	09/08/17 11:22	09/11/17 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*65 - 174*	*09/08/17 11:22*	*09/11/17 16:09*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*09/08/17 11:22*	*09/11/17 16:09*	*1*
Tetrachloro-m-xylene	*107*		*60 - 154*	*09/08/17 11:22*	*09/11/17 16:09*	*1*
Tetrachloro-m-xylene	*109*		*60 - 154*	*09/08/17 11:22*	*09/11/17 16:09*	*1*

Client Sample ID: WC-10 (11'-21.6')

Lab Sample ID: 480-123628-2
Date Collected: 09/05/17 14:40
Matrix: Solid
Date Received: 09/06/17 09:00
Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4900	1400	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,1,2,2-Tetrachloroethane	ND		4900	790	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4900	2400	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,1,2-Trichloroethane	ND		4900	1000	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,1-Dichloroethane	ND		4900	1500	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,1-Dichloroethene	ND		4900	1700	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,2,4-Trichlorobenzene	ND		4900	1800	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,2-Dibromo-3-Chloropropane	ND		4900	2400	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,2-Dichlorobenzene	ND		4900	1200	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,2-Dichloroethane	ND		4900	2000	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,2-Dichloropropane	ND		4900	790	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,3-Dichlorobenzene	ND		4900	1300	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,4-Dichlorobenzene	ND		4900	680	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
2-Butanone (MEK)	ND		24000	14000	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
2-Hexanone	ND		24000	10000	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
4-Methyl-2-pentanone (MIBK)	ND		24000	1600	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Acetone	ND		24000	20000	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Benzene	**43000**		4900	930	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Bromoform	ND		4900	2400	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Bromomethane	ND		4900	1100	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Carbon disulfide	ND		4900	2200	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Carbon tetrachloride	ND		4900	1200	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Chlorobenzene	ND		4900	640	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Dibromochloromethane	ND		4900	2400	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Chloroethane	ND		4900	1000	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Chloroform	ND		4900	3300	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Chloromethane	ND		4900	1200	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
cis-1,2-Dichloroethene	ND		4900	1300	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Cyclohexane	**6500**		4900	1100	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Bromodichloromethane	ND		4900	980	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Dichlorodifluoromethane	ND		4900	2100	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Ethylbenzene	**98000**		4900	1400	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
1,2-Dibromoethane	ND		4900	850	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Isopropylbenzene	**3000**	**J**	4900	730	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Methyl acetate	ND		24000	2300	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Methyl tert-butyl ether	ND		4900	1800	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50

Client Sample ID: WC-10 (11'-21.6')

Date Collected: 09/05/17 14:40
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-2

Matrix: Solid
Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	**54000**		4900	2300	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Methylene Chloride	**2100**	**J B**	4900	970	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Tetrachloroethene	ND		4900	660	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Toluene	**26000**		4900	1300	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
trans-1,2-Dichloroethene	ND		4900	1200	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
trans-1,3-Dichloropropene	ND		4900	480	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Trichloroethene	ND		4900	1400	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Trichlorofluoromethane	ND		4900	2300	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Vinyl chloride	ND		4900	1600	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Xylenes, Total	**92000**		9800	2700	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
cis-1,3-Dichloropropene	ND		4900	1200	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50
Styrene	ND		4900	1200	ug/Kg	☼	09/07/17 11:51	09/12/17 15:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*53 - 146*	*09/07/17 11:51*	*09/12/17 15:30*	*50*
4-Bromofluorobenzene (Surr)	*99*		*49 - 148*	*09/07/17 11:51*	*09/12/17 15:30*	*50*
Toluene-d8 (Surr)	*103*		*50 - 149*	*09/07/17 11:51*	*09/12/17 15:30*	*50*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*09/07/17 11:51*	*09/12/17 15:30*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**25000**		1900	290	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
bis (2-chloroisopropyl) ether	ND		1900	390	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2,4,5-Trichlorophenol	ND		1900	530	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2,4,6-Trichlorophenol	ND		1900	390	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2,4-Dichlorophenol	ND		1900	210	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2,4-Dimethylphenol	ND		1900	470	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2,4-Dinitrophenol	ND		19000	9000	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2,4-Dinitrotoluene	ND		1900	400	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2,6-Dinitrotoluene	ND		1900	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2-Chloronaphthalene	ND		1900	320	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2-Chlorophenol	ND		1900	360	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2-Methylnaphthalene	**230000**	**E**	1900	390	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2-Methylphenol	ND		1900	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2-Nitroaniline	ND		3800	290	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
2-Nitrophenol	ND		1900	550	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
3,3'-Dichlorobenzidine	ND		3800	2300	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
3-Nitroaniline	ND		3800	540	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
4,6-Dinitro-2-methylphenol	ND		3800	1900	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
4-Bromophenyl phenyl ether	ND		1900	280	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
4-Chloro-3-methylphenol	ND		1900	480	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
4-Chloroaniline	ND		1900	480	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
4-Chlorophenyl phenyl ether	ND		1900	240	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
4-Methylphenol	ND		3800	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
4-Nitroaniline	ND		3800	1000	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
4-Nitrophenol	ND		3800	1400	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Acenaphthene	**56000**	**E**	1900	290	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Acenaphthylene	**66000**	**E**	1900	250	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Acetophenone	ND		1900	260	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Anthracene	**40000**		1900	480	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10

Client Sample ID: WC-10 (11'-21.6')
Date Collected: 09/05/17 14:40
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-2
Matrix: Solid
Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		1900	680	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Benzaldehyde	ND		1900	1500	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Benzo[a]anthracene	**25000**		1900	190	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Benzo[a]pyrene	**24000**		1900	290	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Benzo[b]fluoranthene	**17000**		1900	310	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Benzo[g,h,i]perylene	**12000**		1900	210	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Benzo[k]fluoranthene	**7600**		1900	250	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Bis(2-chloroethoxy)methane	ND		1900	410	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Bis(2-chloroethyl)ether	ND		1900	250	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Bis(2-ethylhexyl) phthalate	ND		1900	670	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Butyl benzyl phthalate	ND		1900	320	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Caprolactam	ND		1900	580	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Carbazole	**960**	**J**	1900	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Chrysene	**25000**		1900	440	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Di-n-butyl phthalate	ND		1900	330	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Di-n-octyl phthalate	ND		1900	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Dibenz(a,h)anthracene	ND		1900	340	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Dibenzofuran	**4100**		1900	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Diethyl phthalate	ND		1900	250	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Dimethyl phthalate	ND		1900	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Fluoranthene	**49000**	**E**	1900	210	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Fluorene	**49000**	**E**	1900	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Hexachlorobenzene	ND		1900	260	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Hexachlorobutadiene	ND		1900	290	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Hexachlorocyclopentadiene	ND		1900	260	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Hexachloroethane	ND		1900	250	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Indeno[1,2,3-cd]pyrene	**7800**		1900	240	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Isophorone	ND		1900	410	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
N-Nitrosodi-n-propylamine	ND		1900	330	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
N-Nitrosodiphenylamine	ND		1900	1600	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Naphthalene	**350000**	**E**	1900	250	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Nitrobenzene	ND		1900	220	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Pentachlorophenol	ND		3800	1900	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Phenanthrene	**150000**	**E**	1900	290	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Phenol	ND		1900	300	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10
Pyrene	**76000**	**E**	1900	230	ug/Kg	☼	09/06/17 14:22	09/07/17 18:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*110*		*54 - 120*	*09/06/17 14:22*	*09/07/17 18:36*	*10*
2-Fluorobiphenyl	*86*		*60 - 120*	*09/06/17 14:22*	*09/07/17 18:36*	*10*
2-Fluorophenol	*74*		*52 - 120*	*09/06/17 14:22*	*09/07/17 18:36*	*10*
Nitrobenzene-d5	*77*		*53 - 120*	*09/06/17 14:22*	*09/07/17 18:36*	*10*
p-Terphenyl-d14	*92*		*65 - 121*	*09/06/17 14:22*	*09/07/17 18:36*	*10*
Phenol-d5	*77*		*54 - 120*	*09/06/17 14:22*	*09/07/17 18:36*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**29000**	**J**	39000	5700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
bis (2-chloroisopropyl) ether	ND		39000	7800	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2,4,5-Trichlorophenol	ND		39000	11000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200

Client Sample ID: WC-10 (11'-21.6')
Date Collected: 09/05/17 14:40
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-2
Matrix: Solid
Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		39000	7800	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2,4-Dichlorophenol	ND		39000	4100	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2,4-Dimethylphenol	ND		39000	9400	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2,4-Dinitrophenol	ND		380000	180000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2,4-Dinitrotoluene	ND		39000	8000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2,6-Dinitrotoluene	ND		39000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2-Chloronaphthalene	ND		39000	6400	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2-Chlorophenol	ND		39000	7100	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2-Methylnaphthalene	**220000**		39000	7800	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2-Methylphenol	ND		39000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2-Nitroaniline	ND		76000	5700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
2-Nitrophenol	ND		39000	11000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
3,3'-Dichlorobenzidine	ND		76000	46000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
3-Nitroaniline	ND		76000	11000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
4,6-Dinitro-2-methylphenol	ND		76000	39000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
4-Bromophenyl phenyl ether	ND		39000	5500	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
4-Chloro-3-methylphenol	ND		39000	9600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
4-Chloroaniline	ND		39000	9600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
4-Chlorophenyl phenyl ether	ND		39000	4800	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
4-Methylphenol	ND		76000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
4-Nitroaniline	ND		76000	20000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
4-Nitrophenol	ND		76000	27000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Acenaphthene	**60000**		39000	5700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Acenaphthylene	**67000**		39000	5000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Acetophenone	ND		39000	5300	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Anthracene	**41000**		39000	9600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Atrazine	ND		39000	14000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Benzaldehyde	ND		39000	31000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Benzo[a]anthracene	**28000**	**J**	39000	3900	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Benzo[a]pyrene	**25000**	**J**	39000	5700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Benzo[b]fluoranthene	**19000**	**J**	39000	6200	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Benzo[g,h,i]perylene	**12000**	**J**	39000	4100	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Benzo[k]fluoranthene	**5800**	**J**	39000	5000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Bis(2-chloroethoxy)methane	ND		39000	8300	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Bis(2-chloroethyl)ether	ND		39000	5000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Bis(2-ethylhexyl) phthalate	ND		39000	13000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Butyl benzyl phthalate	ND		39000	6400	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Caprolactam	ND		39000	12000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Carbazole	ND		39000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Chrysene	**28000**	**J**	39000	8700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Di-n-butyl phthalate	ND		39000	6700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Di-n-octyl phthalate	ND		39000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Dibenz(a,h)anthracene	ND		39000	6900	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Dibenzofuran	ND		39000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Diethyl phthalate	ND		39000	5000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Dimethyl phthalate	ND		39000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Fluoranthene	**48000**		39000	4100	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Fluorene	**56000**		39000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Hexachlorobenzene	ND		39000	5300	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200

Client Sample ID: WC-10 (11'-21.6')
Date Collected: 09/05/17 14:40
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-2
Matrix: Solid
Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		39000	5700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Hexachlorocyclopentadiene	ND		39000	5300	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Hexachloroethane	ND		39000	5000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Indeno[1,2,3-cd]pyrene	**8600**	**J**	39000	4800	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Isophorone	ND		39000	8300	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
N-Nitrosodi-n-propylamine	ND		39000	6700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
N-Nitrosodiphenylamine	ND		39000	32000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Naphthalene	**450000**		39000	5000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Nitrobenzene	ND		39000	4400	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Pentachlorophenol	ND		76000	39000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Phenanthrene	**160000**		39000	5700	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Phenol	ND		39000	6000	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200
Pyrene	**83000**		39000	4600	ug/Kg	☼	09/06/17 14:22	09/08/17 15:55	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*09/06/17 14:22*	*09/08/17 15:55*	*200*
2-Fluorobiphenyl	*0*	*X*	*60 - 120*	*09/06/17 14:22*	*09/08/17 15:55*	*200*
2-Fluorophenol	*0*	*X*	*52 - 120*	*09/06/17 14:22*	*09/08/17 15:55*	*200*
Nitrobenzene-d5	*0*	*X*	*53 - 120*	*09/06/17 14:22*	*09/08/17 15:55*	*200*
p-Terphenyl-d14	*0*	*X*	*65 - 121*	*09/06/17 14:22*	*09/08/17 15:55*	*200*
Phenol-d5	*0*	*X*	*54 - 120*	*09/06/17 14:22*	*09/08/17 15:55*	*200*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	**540**	**B**	140	38	mg/Kg	☼	09/12/17 21:08	09/13/17 00:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*0*	*X*	*46 - 156*	*09/12/17 21:08*	*09/13/17 00:52*	*100*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3900**		950	290	mg/Kg	☼	09/06/17 14:15	09/11/17 12:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*129*	*X*	*48 - 125*	*09/06/17 14:15*	*09/11/17 12:52*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	09/08/17 11:22	09/11/17 16:25	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	09/08/17 11:22	09/11/17 16:25	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	09/08/17 11:22	09/11/17 16:25	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	09/08/17 11:22	09/11/17 16:25	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	09/08/17 11:22	09/11/17 16:25	1
PCB-1254	ND		0.21	0.099	mg/Kg	☼	09/08/17 11:22	09/11/17 16:25	1
PCB-1260	ND		0.21	0.099	mg/Kg	☼	09/08/17 11:22	09/11/17 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*60 - 154*	*09/08/17 11:22*	*09/11/17 16:25*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*09/08/17 11:22*	*09/11/17 16:25*	*1*
DCB Decachlorobiphenyl	*95*		*65 - 174*	*09/08/17 11:22*	*09/11/17 16:25*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*09/08/17 11:22*	*09/11/17 16:25*	*1*

Client Sample ID: WC-10 (11'-21.6')

Date Collected: 09/05/17 14:40
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-2

Matrix: Solid
Percent Solids: 85.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12100		11.4	5.0	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Sulfur	0.34		0.0056	0.0029	%	☼	09/09/17 18:40	09/10/17 23:04	1
Antimony	ND		17.1	0.46	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Arsenic	7.8		2.3	0.46	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Barium	120		0.57	0.13	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Beryllium	0.61		0.23	0.032	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Cadmium	ND		0.23	0.034	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Calcium	7390	B	57.0	3.8	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Chromium	18.2	B	0.57	0.23	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Cobalt	9.5		0.57	0.057	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Copper	23.4		1.1	0.24	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Iron	21700	^	11.4	4.0	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Lead	13.0		1.1	0.27	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Magnesium	5410		22.8	1.1	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Manganese	825		0.23	0.036	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Nickel	22.1		5.7	0.26	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Potassium	3090		34.2	22.8	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Selenium	ND		4.6	0.46	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Silver	ND		0.68	0.23	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Sodium	137	J	160	14.8	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Thallium	ND		6.8	0.34	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Vanadium	23.7		0.57	0.13	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1
Zinc	56.4		2.3	0.73	mg/Kg	☼	09/07/17 13:42	09/08/17 15:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.022	0.0089	mg/Kg	☼	09/08/17 11:20	09/08/17 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.54	J	1.1	0.52	mg/Kg	☼	09/07/17 06:31	09/07/17 10:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	DNF		2.00	2.00	BTU/lb		09/18/17 08:24	09/18/17 12:38	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-376688/4	Lab Control Sample	90	97	102	102
MB 480-376688/6	Method Blank	95	94	100	101

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-123628-1	WC-10 (0.5'-11')	94	95	101	101
LB 480-376319/1-A	Method Blank	95	91	103	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-123628-2	WC-10 (11'-21.6')	106	99	103	107
LCS 480-375642/1-A	Lab Control Sample	94	102	102	96
LCSD 480-375642/2-A	Lab Control Sample Dup	98	99	100	98
MB 480-375642/3-A	Method Blank	101	96	102	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-123628-2	WC-10 (11'-21.6')	110	86	74	77	92	77
480-123628-2 - DL	WC-10 (11'-21.6')	0 X	0 X	0 X	0 X	0 X	0 X
LCS 480-375475/2-A	Lab Control Sample	79	73	65	71	80	67

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
MB 480-375475/1-A	Method Blank	68	75	69	70	83	71

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(59-136)	(22-120)
LCS 480-376529/2-A	Lab Control Sample	104	82	44	78	99	35
LCSD 480-376529/3-A	Lab Control Sample Dup	101	80	42	81	90	33
MB 480-376529/1-A	Method Blank	89	79	44	76	102	30

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-123628-1	WC-10 (0.5'-11')	91	81	45	76	32	99
LB 480-376306/1-D	Method Blank	92	80	43	79	30	106

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT2 (46-156)
480-123628-2	WC-10 (11'-21.6')	0 X
LCS 480-376466/2-A	Lab Control Sample	82
LCSD 480-376466/3-A	Lab Control Sample Dup	82
MB 480-376466/1-A	Method Blank	77

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTPH (48-125)
480-123628-2	WC-10 (11'-21.6')	129 X
LCS 480-375469/2-A	Lab Control Sample	69
MB 480-375469/1-A	Method Blank	67

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (20-120)	DCB2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
LCS 480-376625/2-A	Lab Control Sample	66	61	90	71
LCSD 480-376625/3-A	Lab Control Sample Dup	69	63	102	77
MB 480-376625/1-A	Method Blank	63	67	95	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (20-120)	DCB2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
480-123628-1	WC-10 (0.5'-11')	86	79	95	72
LB 480-376306/1-F	Method Blank	74	72	94	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(65-174)	(65-174)	(60-154)	(60-154)
480-123628-1	WC-10 (0.5'-11')	99	115	107	109
480-123628-1 MS	WC-10 (0.5'-11')	96	112	103	101
480-123628-1 MSD	WC-10 (0.5'-11')	106	123	114	113
480-123628-2	WC-10 (11'-21.6')	95	118	84	99
LCS 480-375883/2-A	Lab Control Sample	100	120	112	111
MB 480-375883/1-A	Method Blank	105	119	105	112

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
LCS 480-376626/2-A	Lab Control Sample	48	51
LCSD 480-376626/3-A	Lab Control Sample Dup	40 X	55
MB 480-376626/1-A	Method Blank	36 X	40 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
480-123628-1	WC-10 (0.5'-11')	17 X	18 X
LB 480-376306/1-G	Method Blank	18 X	20 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-376688/6
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/13/17 20:57	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/13/17 20:57	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/13/17 20:57	1
Benzene	ND		0.0010	0.00041	mg/L			09/13/17 20:57	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/13/17 20:57	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/13/17 20:57	1
Chloroform	ND		0.0010	0.00034	mg/L			09/13/17 20:57	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/13/17 20:57	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/13/17 20:57	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/13/17 20:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*09/13/17 20:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*09/13/17 20:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/13/17 20:57*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/13/17 20:57*	*1*

Lab Sample ID: LCS 480-376688/4
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0224		mg/L		90	66 - 127
1,2-Dichloroethane	0.0250	0.0227		mg/L		91	75 - 120
2-Butanone (MEK)	0.125	0.0839		mg/L		67	57 - 140
Benzene	0.0250	0.0249		mg/L		99	71 - 124
Carbon tetrachloride	0.0250	0.0251		mg/L		100	72 - 134
Chlorobenzene	0.0250	0.0247		mg/L		99	80 - 120
Chloroform	0.0250	0.0245		mg/L		98	73 - 127
Tetrachloroethene	0.0250	0.0255		mg/L		102	74 - 122
Trichloroethene	0.0250	0.0243		mg/L		97	74 - 123
Vinyl chloride	0.0250	0.0213		mg/L		85	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: LB 480-376319/1-A
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/13/17 21:33	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/13/17 21:33	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/13/17 21:33	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-376319/1-A
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			09/13/17 21:33	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/13/17 21:33	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/13/17 21:33	10
Chloroform	ND		0.010	0.0034	mg/L			09/13/17 21:33	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/13/17 21:33	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/13/17 21:33	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/13/17 21:33	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*09/13/17 21:33*	*10*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*09/13/17 21:33*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/13/17 21:33*	*10*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/13/17 21:33*	*10*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-375642/3-A
Matrix: Solid
Analysis Batch: 376280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,1-Dichloroethane	ND		100	31	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,1-Dichloroethene	ND		100	35	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,2-Dichloroethane	ND		100	41	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
2-Butanone (MEK)	ND		500	300	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
2-Hexanone	ND		500	210	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Acetone	ND		500	410	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Benzene	ND		100	19	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Bromoform	ND		100	50	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Bromomethane	ND		100	22	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Carbon disulfide	ND		100	46	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Carbon tetrachloride	ND		100	26	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Chlorobenzene	ND		100	13	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Dibromochloromethane	ND		100	48	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Chloroethane	ND		100	21	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Chloroform	ND		100	69	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Chloromethane	ND		100	24	ug/Kg		09/07/17 11:51	09/12/17 13:42	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-375642/3-A
Matrix: Solid
Analysis Batch: 376280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Cyclohexane	ND		100	22	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Bromodichloromethane	ND		100	20	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Ethylbenzene	ND		100	29	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
1,2-Dibromoethane	ND		100	18	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Isopropylbenzene	ND		100	15	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Methyl acetate	ND		500	48	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Methylcyclohexane	ND		100	47	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Methylene Chloride	32.2	J	100	20	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Tetrachloroethene	ND		100	13	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Toluene	ND		100	27	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Trichloroethene	ND		100	28	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Trichlorofluoromethane	ND		100	47	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Vinyl chloride	ND		100	34	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Xylenes, Total	ND		200	55	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		09/07/17 11:51	09/12/17 13:42	1
Styrene	ND		100	24	ug/Kg		09/07/17 11:51	09/12/17 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*53 - 146*	*09/07/17 11:51*	*09/12/17 13:42*	*1*
4-Bromofluorobenzene (Surr)	*96*		*49 - 148*	*09/07/17 11:51*	*09/12/17 13:42*	*1*
Toluene-d8 (Surr)	*102*		*50 - 149*	*09/07/17 11:51*	*09/12/17 13:42*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*09/07/17 11:51*	*09/12/17 13:42*	*1*

Lab Sample ID: LCS 480-375642/1-A
Matrix: Solid
Analysis Batch: 376280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2690		ug/Kg		108	68 - 130
1,1,2,2-Tetrachloroethane	2500	2330		ug/Kg		93	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2970		ug/Kg		119	10 - 179
1,1,2-Trichloroethane	2500	2420		ug/Kg		97	80 - 120
1,1-Dichloroethane	2500	2510		ug/Kg		101	78 - 121
1,1-Dichloroethene	2500	2640		ug/Kg		105	48 - 133
1,2,4-Trichlorobenzene	2500	2320		ug/Kg		93	70 - 140
1,2-Dibromo-3-Chloropropane	2500	1940		ug/Kg		78	56 - 122
1,2-Dichlorobenzene	2500	2630		ug/Kg		105	78 - 125
1,2-Dichloroethane	2500	2390		ug/Kg		96	74 - 127
1,2-Dichloropropane	2500	2520		ug/Kg		101	80 - 120
1,3-Dichlorobenzene	2500	2600		ug/Kg		104	80 - 120
1,4-Dichlorobenzene	2500	2620		ug/Kg		105	80 - 120
2-Butanone (MEK)	12500	10400		ug/Kg		84	54 - 149

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-375642/1-A
Matrix: Solid
Analysis Batch: 376280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	12500	10600		ug/Kg		85	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	11500		ug/Kg		92	74 - 120
Acetone	12500	9740		ug/Kg		78	47 - 141
Benzene	2500	2540		ug/Kg		102	77 - 125
Bromoform	2500	2390		ug/Kg		95	48 - 125
Bromomethane	2500	1950		ug/Kg		78	39 - 149
Carbon disulfide	2500	2520		ug/Kg		101	40 - 136
Carbon tetrachloride	2500	2750		ug/Kg		110	54 - 135
Chlorobenzene	2500	2600		ug/Kg		104	76 - 126
Dibromochloromethane	2500	2640		ug/Kg		105	64 - 120
Chloroethane	2500	1420		ug/Kg		57	23 - 150
Chloroform	2500	2510		ug/Kg		101	78 - 120
Chloromethane	2500	2510		ug/Kg		101	61 - 124
cis-1,2-Dichloroethene	2500	2480		ug/Kg		99	79 - 124
Cyclohexane	2500	2920		ug/Kg		117	49 - 129
Bromodichloromethane	2500	2380		ug/Kg		95	71 - 121
Dichlorodifluoromethane	2500	2770		ug/Kg		111	10 - 150
Ethylbenzene	2500	2710		ug/Kg		109	78 - 124
1,2-Dibromoethane	2500	2490		ug/Kg		99	80 - 120
Isopropylbenzene	2500	2740		ug/Kg		110	76 - 120
Methyl acetate	12500	11000		ug/Kg		88	71 - 123
Methyl tert-butyl ether	2500	2430		ug/Kg		97	67 - 137
Methylcyclohexane	2500	3000		ug/Kg		120	50 - 130
Methylene Chloride	2500	2340		ug/Kg		94	75 - 118
Tetrachloroethene	2500	2960		ug/Kg		119	73 - 133
Toluene	2500	2710		ug/Kg		108	75 - 124
trans-1,2-Dichloroethene	2500	2480		ug/Kg		99	74 - 129
trans-1,3-Dichloropropene	2500	2620		ug/Kg		105	73 - 120
Trichloroethene	2500	2730		ug/Kg		109	75 - 131
Trichlorofluoromethane	2500	2710		ug/Kg		108	29 - 158
Vinyl chloride	2500	2820		ug/Kg		113	59 - 124
cis-1,3-Dichloropropene	2500	2470		ug/Kg		99	75 - 121
Styrene	2500	2620		ug/Kg		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*53 - 146*
4-Bromofluorobenzene (Surr)	*102*		*49 - 148*
Toluene-d8 (Surr)	*102*		*50 - 149*
Dibromofluoromethane (Surr)	*96*		*60 - 140*

Lab Sample ID: LCSD 480-375642/2-A
Matrix: Solid
Analysis Batch: 376280

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375642

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	2500	2510		ug/Kg		100	68 - 130	7	20
1,1,2,2-Tetrachloroethane	2500	2110		ug/Kg		84	73 - 120	10	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-375642/2-A
Matrix: Solid
Analysis Batch: 376280

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375642

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane			2500	2620		ug/Kg		105	10 - 179	12	20
1,1,2-Trichloroethane			2500	2230		ug/Kg		89	80 - 120	8	20
1,1-Dichloroethane			2500	2320		ug/Kg		93	78 - 121	8	20
1,1-Dichloroethene			2500	2360		ug/Kg		94	48 - 133	11	20
1,2,4-Trichlorobenzene			2500	2320		ug/Kg		93	70 - 140	0	20
1,2-Dibromo-3-Chloropropane			2500	2030		ug/Kg		81	56 - 122	5	20
1,2-Dichlorobenzene			2500	2380		ug/Kg		95	78 - 125	10	20
1,2-Dichloroethane			2500	2290		ug/Kg		92	74 - 127	4	20
1,2-Dichloropropane			2500	2310		ug/Kg		93	80 - 120	8	20
1,3-Dichlorobenzene			2500	2340		ug/Kg		93	80 - 120	11	20
1,4-Dichlorobenzene			2500	2390		ug/Kg		95	80 - 120	9	20
2-Butanone (MEK)			12500	9830		ug/Kg		79	54 - 149	6	20
2-Hexanone			12500	9680		ug/Kg		77	59 - 127	9	20
4-Methyl-2-pentanone (MIBK)			12500	10400		ug/Kg		83	74 - 120	10	20
Acetone			12500	9490		ug/Kg		76	47 - 141	3	20
Benzene			2500	2400		ug/Kg		96	77 - 125	6	20
Bromoform			2500	2230		ug/Kg		89	48 - 125	7	20
Bromomethane			2500	1730		ug/Kg		69	39 - 149	12	20
Carbon disulfide			2500	2410		ug/Kg		96	40 - 136	4	20
Carbon tetrachloride			2500	2600		ug/Kg		104	54 - 135	5	20
Chlorobenzene			2500	2380		ug/Kg		95	76 - 126	9	20
Dibromochloromethane			2500	2300		ug/Kg		92	64 - 120	14	20
Chloroethane			2500	1280		ug/Kg		51	23 - 150	10	20
Chloroform			2500	2290		ug/Kg		92	78 - 120	9	20
Chloromethane			2500	2360		ug/Kg		94	61 - 124	6	20
cis-1,2-Dichloroethene			2500	2350		ug/Kg		94	79 - 124	6	20
Cyclohexane			2500	2670		ug/Kg		107	49 - 129	9	20
Bromodichloromethane			2500	2340		ug/Kg		94	71 - 121	2	20
Dichlorodifluoromethane			2500	2620		ug/Kg		105	10 - 150	6	20
Ethylbenzene			2500	2410		ug/Kg		96	78 - 124	12	20
1,2-Dibromoethane			2500	2300		ug/Kg		92	80 - 120	8	20
Isopropylbenzene			2500	2480		ug/Kg		99	76 - 120	10	20
Methyl acetate			12500	10600		ug/Kg		85	71 - 123	4	20
Methyl tert-butyl ether			2500	2230		ug/Kg		89	67 - 137	8	20
Methylcyclohexane			2500	2780		ug/Kg		111	50 - 130	8	20
Methylene Chloride			2500	2110		ug/Kg		84	75 - 118	10	20
Tetrachloroethene			2500	2670		ug/Kg		107	73 - 133	11	20
Toluene			2500	2440		ug/Kg		97	75 - 124	11	20
trans-1,2-Dichloroethene			2500	2300		ug/Kg		92	74 - 129	8	20
trans-1,3-Dichloropropene			2500	2380		ug/Kg		95	73 - 120	10	20
Trichloroethene			2500	2650		ug/Kg		106	75 - 131	3	20
Trichlorofluoromethane			2500	2290		ug/Kg		91	29 - 158	17	20
Vinyl chloride			2500	2470		ug/Kg		99	59 - 124	13	20
cis-1,3-Dichloropropene			2500	2340		ug/Kg		94	75 - 121	5	20
Styrene			2500	2340		ug/Kg		93	80 - 120	12	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-375642/2-A
Matrix: Solid
Analysis Batch: 376280

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375642

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*53 - 146*
4-Bromofluorobenzene (Surr)	*99*		*49 - 148*
Toluene-d8 (Surr)	*100*		*50 - 149*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-375475/1-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	24	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
bis (2-chloroisopropyl) ether	ND		170	33	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2-Chloronaphthalene	ND		170	27	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2-Chlorophenol	ND		170	30	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2-Methylnaphthalene	ND		170	33	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2-Methylphenol	ND		170	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2-Nitroaniline	ND		320	24	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
2-Nitrophenol	ND		170	47	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
3,3'-Dichlorobenzidine	ND		320	200	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
3-Nitroaniline	ND		320	46	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
4,6-Dinitro-2-methylphenol	ND		320	170	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
4-Bromophenyl phenyl ether	ND		170	23	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
4-Chloroaniline	ND		170	41	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
4-Methylphenol	ND		320	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
4-Nitroaniline	ND		320	87	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
4-Nitrophenol	ND		320	120	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Acenaphthene	ND		170	24	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Acenaphthylene	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Acetophenone	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Anthracene	ND		170	41	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Atrazine	ND		170	58	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Benzaldehyde	ND		170	130	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Benzo[a]pyrene	ND		170	24	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-375475/1-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Butyl benzyl phthalate	ND		170	27	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Caprolactam	ND		170	50	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Carbazole	ND		170	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Chrysene	ND		170	37	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Di-n-butyl phthalate	ND		170	28	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Dibenzofuran	ND		170	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Diethyl phthalate	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Fluoranthene	ND		170	18	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Fluorene	ND		170	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Hexachlorobenzene	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Hexachlorobutadiene	ND		170	24	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Hexachlorocyclopentadiene	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Hexachloroethane	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Isophorone	ND		170	35	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
N-Nitrosodi-n-propylamine	ND		170	28	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
N-Nitrosodiphenylamine	ND		170	130	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Naphthalene	ND		170	22	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Nitrobenzene	ND		170	19	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Pentachlorophenol	ND		320	170	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Phenanthrene	ND		170	24	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Phenol	ND		170	25	ug/Kg		09/06/17 14:22	09/07/17 13:47	1
Pyrene	ND		170	20	ug/Kg		09/06/17 14:22	09/07/17 13:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*54 - 120*	*09/06/17 14:22*	*09/07/17 13:47*	*1*
2-Fluorobiphenyl	*75*		*60 - 120*	*09/06/17 14:22*	*09/07/17 13:47*	*1*
2-Fluorophenol	*69*		*52 - 120*	*09/06/17 14:22*	*09/07/17 13:47*	*1*
Nitrobenzene-d5	*70*		*53 - 120*	*09/06/17 14:22*	*09/07/17 13:47*	*1*
p-Terphenyl-d14	*83*		*65 - 121*	*09/06/17 14:22*	*09/07/17 13:47*	*1*
Phenol-d5	*71*		*54 - 120*	*09/06/17 14:22*	*09/07/17 13:47*	*1*

Lab Sample ID: LCS 480-375475/2-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1660	1210		ug/Kg		73	59 - 120
bis (2-chloroisopropyl) ether	1660	1100		ug/Kg		66	44 - 120
2,4,5-Trichlorophenol	1660	1290		ug/Kg		78	59 - 126
2,4,6-Trichlorophenol	1660	1230		ug/Kg		74	59 - 123
2,4-Dichlorophenol	1660	1220		ug/Kg		74	61 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-375475/2-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	1660	1210		ug/Kg		73	59 - 120
2,4-Dinitrophenol	3310	2640		ug/Kg		80	41 - 146
2,4-Dinitrotoluene	1660	1350		ug/Kg		82	63 - 120
2,6-Dinitrotoluene	1660	1240		ug/Kg		75	66 - 120
2-Chloronaphthalene	1660	1200		ug/Kg		73	57 - 120
2-Chlorophenol	1660	1100		ug/Kg		67	53 - 120
2-Methylnaphthalene	1660	1180		ug/Kg		71	59 - 120
2-Methylphenol	1660	1160		ug/Kg		70	54 - 120
2-Nitroaniline	1660	1240		ug/Kg		75	61 - 120
2-Nitrophenol	1660	1150		ug/Kg		70	56 - 120
3,3'-Dichlorobenzidine	3310	2540		ug/Kg		77	54 - 120
3-Nitroaniline	1660	1140		ug/Kg		69	48 - 120
4,6-Dinitro-2-methylphenol	3310	2710		ug/Kg		82	49 - 122
4-Bromophenyl phenyl ether	1660	1320		ug/Kg		79	58 - 120
4-Chloro-3-methylphenol	1660	1200		ug/Kg		73	61 - 120
4-Chloroaniline	1660	1040		ug/Kg		63	38 - 120
4-Chlorophenyl phenyl ether	1660	1250		ug/Kg		75	63 - 124
4-Methylphenol	1660	1160		ug/Kg		70	55 - 120
4-Nitroaniline	1660	1260		ug/Kg		76	56 - 120
4-Nitrophenol	3310	2660		ug/Kg		80	43 - 147
Acenaphthene	1660	1250		ug/Kg		75	62 - 120
Acenaphthylene	1660	1230		ug/Kg		74	58 - 121
Acetophenone	1660	1110		ug/Kg		67	54 - 120
Anthracene	1660	1300		ug/Kg		78	62 - 120
Atrazine	3310	2820		ug/Kg		85	60 - 127
Benzaldehyde	3310	1870		ug/Kg		57	10 - 150
Benzo[a]anthracene	1660	1310		ug/Kg		79	65 - 120
Benzo[a]pyrene	1660	1350		ug/Kg		81	64 - 120
Benzo[b]fluoranthene	1660	1280		ug/Kg		78	64 - 120
Benzo[g,h,i]perylene	1660	1540		ug/Kg		93	45 - 145
Benzo[k]fluoranthene	1660	1370		ug/Kg		83	65 - 120
Bis(2-chloroethoxy)methane	1660	1190		ug/Kg		72	55 - 120
Bis(2-chloroethyl)ether	1660	1060		ug/Kg		64	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1320		ug/Kg		80	61 - 133
Butyl benzyl phthalate	1660	1250		ug/Kg		76	61 - 129
Caprolactam	3310	2550		ug/Kg		77	47 - 120
Carbazole	1660	1320		ug/Kg		80	65 - 120
Chrysene	1660	1330		ug/Kg		80	64 - 120
Di-n-butyl phthalate	1660	1260		ug/Kg		76	58 - 130
Di-n-octyl phthalate	1660	1310		ug/Kg		79	57 - 133
Dibenz(a,h)anthracene	1660	1450		ug/Kg		87	54 - 132
Dibenzofuran	1660	1230		ug/Kg		74	63 - 120
Diethyl phthalate	1660	1270		ug/Kg		77	66 - 120
Dimethyl phthalate	1660	1220		ug/Kg		74	65 - 124
Fluoranthene	1660	1320		ug/Kg		80	62 - 120
Fluorene	1660	1230		ug/Kg		74	63 - 120
Hexachlorobenzene	1660	1360		ug/Kg		82	60 - 120
Hexachlorobutadiene	1660	1140		ug/Kg		69	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-375475/2-A
Matrix: Solid
Analysis Batch: 375643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	1660	1100		ug/Kg		67	47 - 120
Hexachloroethane	1660	1090		ug/Kg		66	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1470		ug/Kg		89	56 - 134
Isophorone	1660	1190		ug/Kg		72	56 - 120
N-Nitrosodi-n-propylamine	1660	1100		ug/Kg		67	52 - 120
Naphthalene	1660	1160		ug/Kg		70	55 - 120
Nitrobenzene	1660	1140		ug/Kg		69	54 - 120
Pentachlorophenol	3310	2460		ug/Kg		74	51 - 120
Phenanthrene	1660	1330		ug/Kg		80	60 - 120
Phenol	1660	1130		ug/Kg		68	53 - 120
Pyrene	1660	1350		ug/Kg		81	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*79*		*54 - 120*
2-Fluorobiphenyl	*73*		*60 - 120*
2-Fluorophenol	*65*		*52 - 120*
Nitrobenzene-d5	*71*		*53 - 120*
p-Terphenyl-d14	*80*		*65 - 121*
Phenol-d5	*67*		*54 - 120*

Lab Sample ID: MB 480-376529/1-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		09/13/17 10:21	09/14/17 15:59	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1
Pyridine	ND		0.0063	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		09/13/17 10:21	09/14/17 15:59	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		09/13/17 10:21	09/14/17 15:59	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		09/13/17 10:21	09/14/17 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*41 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
2-Fluorobiphenyl	*79*		*48 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
2-Fluorophenol	*44*		*35 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
Nitrobenzene-d5	*76*		*46 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
p-Terphenyl-d14	*102*		*59 - 136*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
Phenol-d5	*30*		*22 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376529/2-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376529

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			0.0500	0.0310		mg/L		62	51 - 120		
2,4,5-Trichlorophenol			0.0500	0.0511		mg/L		102	65 - 126		
2,4,6-Trichlorophenol			0.0500	0.0482		mg/L		96	64 - 120		
2,4-Dinitrotoluene			0.0500	0.0526		mg/L		105	69 - 120		
3-Methylphenol			0.0500	0.0357		mg/L		71	39 - 120		
2-Methylphenol			0.0500	0.0361		mg/L		72	39 - 120		
Pyridine			0.100	0.0327		mg/L		33	10 - 120		
4-Methylphenol			0.0500	0.0357		mg/L		71	29 - 131		
Hexachlorobenzene			0.0500	0.0477		mg/L		95	61 - 120		
Hexachlorobutadiene			0.0500	0.0302		mg/L		60	35 - 120		
Hexachloroethane			0.0500	0.0252		mg/L		50	43 - 120		
Nitrobenzene			0.0500	0.0405		mg/L		81	53 - 123		
Pentachlorophenol			0.100	0.0862		mg/L		86	29 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*41 - 120*
2-Fluorobiphenyl	*82*		*48 - 120*
2-Fluorophenol	*44*		*35 - 120*
Nitrobenzene-d5	*78*		*46 - 120*
p-Terphenyl-d14	*99*		*59 - 136*
Phenol-d5	*35*		*22 - 120*

Lab Sample ID: LCSD 480-376529/3-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376529

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0288		mg/L		58	51 - 120	7	36
2,4,5-Trichlorophenol			0.0500	0.0484		mg/L		97	65 - 126	5	18
2,4,6-Trichlorophenol			0.0500	0.0471		mg/L		94	64 - 120	2	19
2,4-Dinitrotoluene			0.0500	0.0514		mg/L		103	69 - 120	2	20
3-Methylphenol			0.0500	0.0338		mg/L		68	39 - 120	5	30
2-Methylphenol			0.0500	0.0356		mg/L		71	39 - 120	1	27
Pyridine			0.100	0.0332		mg/L		33	10 - 120	2	49
4-Methylphenol			0.0500	0.0338		mg/L		68	29 - 131	5	24
Hexachlorobenzene			0.0500	0.0474		mg/L		95	61 - 120	1	15
Hexachlorobutadiene			0.0500	0.0297		mg/L		59	35 - 120	2	44
Hexachloroethane			0.0500	0.0237		mg/L		47	43 - 120	6	46
Nitrobenzene			0.0500	0.0394		mg/L		79	53 - 123	3	24
Pentachlorophenol			0.100	0.0825		mg/L		82	29 - 136	4	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*41 - 120*
2-Fluorobiphenyl	*80*		*48 - 120*
2-Fluorophenol	*42*		*35 - 120*
Nitrobenzene-d5	*81*		*46 - 120*
p-Terphenyl-d14	*90*		*59 - 136*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-376529/3-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376529

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5	*33*		*22 - 120*

Lab Sample ID: LB 480-376306/1-D
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376529

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/13/17 10:21	09/14/17 17:18	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/13/17 10:21	09/14/17 17:18	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/13/17 10:21	09/14/17 17:18	1
Pyridine	ND		0.025	0.00041	mg/L		09/13/17 10:21	09/14/17 17:18	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/13/17 10:21	09/14/17 17:18	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/13/17 10:21	09/14/17 17:18	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/13/17 10:21	09/14/17 17:18	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*41 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
2-Fluorobiphenyl	*80*		*48 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
2-Fluorophenol	*43*		*35 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
Nitrobenzene-d5	*79*		*46 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
p-Terphenyl-d14	*106*		*59 - 136*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
Phenol-d5	*30*		*22 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 480-376466/1-A
Matrix: Solid
Analysis Batch: 376458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.591	J	1.3	0.33	mg/Kg		09/12/17 21:08	09/12/17 22:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*46 - 156*	*09/12/17 21:08*	*09/12/17 22:01*	*1*

Lab Sample ID: LCS 480-376466/2-A
Matrix: Solid
Analysis Batch: 376458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C6-C10)	10.0	9.69		mg/Kg		97	64 - 129

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 480-376466/2-A
Matrix: Solid
Analysis Batch: 376458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376466

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	*82*		*46 - 156*

Lab Sample ID: LCSD 480-376466/3-A
Matrix: Solid
Analysis Batch: 376458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376466

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)			10.0	9.59		mg/Kg		96	64 - 129	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	*82*		*46 - 156*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-375469/1-A
Matrix: Solid
Analysis Batch: 375874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		09/06/17 14:15	09/09/17 05:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*67*		*48 - 125*	*09/06/17 14:15*	*09/09/17 05:33*	*1*

Lab Sample ID: LCS 480-375469/2-A
Matrix: Solid
Analysis Batch: 375874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375469

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			50.0	35.3		mg/Kg		71	63 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	*69*		*48 - 125*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-376625/1-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		09/13/17 14:15	09/15/17 12:45	1
Endrin	ND		0.000050	0.0000035	mg/L		09/13/17 14:15	09/15/17 12:45	1
gamma-BHC (Lindane)	0.0000131	J	0.000050	0.0000015	mg/L		09/13/17 14:15	09/15/17 12:45	1
Heptachlor	ND		0.000050	0.0000021	mg/L		09/13/17 14:15	09/15/17 12:45	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		09/13/17 14:15	09/15/17 12:45	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-376625/1-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.000050	0.0000035	mg/L		09/13/17 14:15	09/15/17 12:45	1
Toxaphene	ND		0.00050	0.000030	mg/L		09/13/17 14:15	09/15/17 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*
DCB Decachlorobiphenyl	*67*		*20 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*
Tetrachloro-m-xylene	*95*		*44 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*
Tetrachloro-m-xylene	*74*		*44 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*

Lab Sample ID: LCS 480-376625/2-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000545		mg/L		109	65 - 135
gamma-BHC (Lindane)	0.000500	0.000402		mg/L		80	56 - 120
Heptachlor	0.000500	0.000442		mg/L		88	58 - 120
Heptachlor epoxide	0.000500	0.000499		mg/L		100	65 - 125
Methoxychlor	0.000500	0.000581		mg/L		116	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*20 - 120*
DCB Decachlorobiphenyl	*61*		*20 - 120*
Tetrachloro-m-xylene	*90*		*44 - 120*
Tetrachloro-m-xylene	*71*		*44 - 120*

Lab Sample ID: LCSD 480-376625/3-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000578		mg/L		116	65 - 135	6	24
gamma-BHC (Lindane)	0.000500	0.000425		mg/L		85	56 - 120	6	24
Heptachlor	0.000500	0.000479		mg/L		96	58 - 120	8	25
Heptachlor epoxide	0.000500	0.000525		mg/L		105	65 - 125	5	23
Methoxychlor	0.000500	0.000607		mg/L		121	50 - 150	4	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*20 - 120*
DCB Decachlorobiphenyl	*63*		*20 - 120*
Tetrachloro-m-xylene	*102*		*44 - 120*
Tetrachloro-m-xylene	*77*		*44 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 480-376306/1-F
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376625

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/13/17 14:15	09/15/17 13:44	1
Endrin	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 13:44	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/13/17 14:15	09/15/17 13:44	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/13/17 14:15	09/15/17 13:44	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/13/17 14:15	09/15/17 13:44	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 13:44	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/13/17 14:15	09/15/17 13:44	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*20 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
DCB Decachlorobiphenyl	*72*		*20 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
Tetrachloro-m-xylene	*94*		*44 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
Tetrachloro-m-xylene	*72*		*44 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-375883/1-A
Matrix: Solid
Analysis Batch: 376144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1221	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1232	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1242	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1248	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1254	ND		0.23	0.11	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1260	ND		0.23	0.11	mg/Kg		09/08/17 11:22	09/11/17 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*65 - 174*	*09/08/17 11:22*	*09/11/17 15:08*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*09/08/17 11:22*	*09/11/17 15:08*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*09/08/17 11:22*	*09/11/17 15:08*	*1*
Tetrachloro-m-xylene	*112*		*60 - 154*	*09/08/17 11:22*	*09/11/17 15:08*	*1*

Lab Sample ID: LCS 480-375883/2-A
Matrix: Solid
Analysis Batch: 376144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375883

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.49	2.87		mg/Kg		115	51 - 185		
PCB-1260			2.49	2.92		mg/Kg		117	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*100*		*65 - 174*
DCB Decachlorobiphenyl	*120*		*65 - 174*
Tetrachloro-m-xylene	*112*		*60 - 154*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-375883/2-A
Matrix: Solid
Analysis Batch: 376144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375883

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*111*		*60 - 154*

Lab Sample ID: 480-123628-1 MS
Matrix: Solid
Analysis Batch: 376144

Client Sample ID: WC-10 (0.5'-11')
Prep Type: Total/NA
Prep Batch: 375883

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		2.44	1.91		mg/Kg	☼	78	50 - 177
PCB-1260	ND		2.44	2.01		mg/Kg	☼	83	33 - 200

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*65 - 174*
DCB Decachlorobiphenyl	*112*		*65 - 174*
Tetrachloro-m-xylene	*103*		*60 - 154*
Tetrachloro-m-xylene	*101*		*60 - 154*

Lab Sample ID: 480-123628-1 MSD
Matrix: Solid
Analysis Batch: 376144

Client Sample ID: WC-10 (0.5'-11')
Prep Type: Total/NA
Prep Batch: 375883

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.73	2.89		mg/Kg	☼	106	50 - 177	41	50
PCB-1260	ND		2.73	2.98		mg/Kg	☼	109	33 - 200	39	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*65 - 174*
DCB Decachlorobiphenyl	*123*		*65 - 174*
Tetrachloro-m-xylene	*114*		*60 - 154*
Tetrachloro-m-xylene	*113*		*60 - 154*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-376626/1-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		09/13/17 14:22	09/14/17 22:17	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		09/13/17 14:22	09/14/17 22:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*36*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 22:17*	*1*
2,4-Dichlorophenylacetic acid	*40*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 22:17*	*1*

Method: 8151 - TCLP Herbicides (Continued)

Lab Sample ID: LCS 480-376626/2-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376626

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.00200	0.00168		mg/L		84	36 - 150		
Silvex (2,4,5-TP)			0.00200	0.00124		mg/L		62	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*48*		*48 - 132*
2,4-Dichlorophenylacetic acid	*51*		*48 - 132*

Lab Sample ID: LCSD 480-376626/3-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376626

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.00200	0.00143		mg/L		72	36 - 150	16	50
Silvex (2,4,5-TP)			0.00200	0.000991		mg/L		50	49 - 150	22	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*40*	*X*	*48 - 132*
2,4-Dichlorophenylacetic acid	*55*		*48 - 132*

Lab Sample ID: LB 480-376306/1-G
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376626

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/13/17 14:22	09/14/17 23:46	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/13/17 14:22	09/14/17 23:46	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*18*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 23:46*	*1*
2,4-Dichlorophenylacetic acid	*20*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 23:46*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-375627/1-A
Matrix: Solid
Analysis Batch: 376078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.4	4.1	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Antimony	ND		14.1	0.38	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Arsenic	ND		1.9	0.38	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Barium	ND		0.47	0.10	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Beryllium	ND		0.19	0.026	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Cadmium	ND		0.19	0.028	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Calcium	4.00	J	46.9	3.1	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Chromium	0.259	J	0.47	0.19	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Cobalt	ND		0.47	0.047	mg/Kg		09/07/17 13:42	09/08/17 13:48	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-375627/1-A
Matrix: Solid
Analysis Batch: 376078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.94	0.20	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Iron	ND		9.4	3.3	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Lead	ND		0.94	0.23	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Magnesium	ND		18.8	0.87	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Manganese	ND		0.19	0.030	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Nickel	ND		4.7	0.22	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Potassium	ND		28.2	18.8	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Selenium	ND		3.8	0.38	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Silver	ND		0.56	0.19	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Sodium	ND		131	12.2	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Thallium	ND		5.6	0.28	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Vanadium	ND		0.47	0.10	mg/Kg		09/07/17 13:42	09/08/17 13:48	1
Zinc	ND		1.9	0.60	mg/Kg		09/07/17 13:42	09/08/17 13:48	1

Lab Sample ID: LCDSRM 480-375627/25-A
Matrix: Solid
Analysis Batch: 376078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375627

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			8090	8122		mg/Kg		100.4	39.6 - 160.7	4	20
Antimony			99.3	62.31		mg/Kg		62.7	21.6 - 256.8	3	20
Arsenic			100	85.40		mg/Kg		85.4	69.6 - 131.0	1	20
Barium			217	180.5		mg/Kg		83.2	73.7 - 128.1	0	20
Beryllium			147	126.2		mg/Kg		85.8	75.5 - 125.9	1	20
Cadmium			83.7	69.06		mg/Kg		82.5	73.2 - 131.4	1	20
Calcium			6010	5188		mg/Kg		86.3	73.7 - 126.3	2	20
Chromium			107	91.33		mg/Kg		85.4	69.4 - 134.6	2	20
Cobalt			123	119.6		mg/Kg		97.2	74.3 - 130.1	1	20
Copper			166	137.1		mg/Kg		82.6	75.3 - 128.3	0	20
Iron			14600	15210		mg/Kg		104.2	36.1 - 163.7	2	20
Lead			88.4	86.09		mg/Kg		97.4	69.9 - 130.1	3	20
Magnesium			2930	2603		mg/Kg		88.8	65.9 - 134.5	2	20
Manganese			311	266.2		mg/Kg		85.6	74.9 - 125.4	6	20
Nickel			49.8	48.93		mg/Kg		98.3	69.1 - 135.1	1	20
Potassium			2620	2468		mg/Kg		94.2	61.1 - 138.9	3	20
Selenium			87.7	76.61		mg/Kg		87.4	64.1 - 135.7	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCDSRM 480-375627/25-A
Matrix: Solid
Analysis Batch: 376078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375627

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	41.4	34.52		mg/Kg		83.4	65.9 - 133.8	0	20
Sodium	252	219.5		mg/Kg		87.1	32.9 - 167.5	4	20
Thallium	58.1	58.78		mg/Kg		101.2	63.9 - 136.3	2	20
Vanadium	140	127.9		mg/Kg		91.4	69.9 - 129.3	0	20
Zinc	145	128.6		mg/Kg		88.7	67.7 - 132.4	1	20

Lab Sample ID: LCSSRM 480-375627/2-A
Matrix: Solid
Analysis Batch: 376078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375627

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	8420		mg/Kg		104.1	39.6 - 160.7
Antimony	99.3	60.72		mg/Kg		61.1	21.6 - 256.8
Arsenic	100	85.83		mg/Kg		85.8	69.6 - 131.0
Barium	217	180.5		mg/Kg		83.2	73.7 - 128.1
Beryllium	147	124.9		mg/Kg		85.0	75.5 - 125.9
Cadmium	83.7	69.89		mg/Kg		83.5	73.2 - 131.4
Calcium	6010	5093		mg/Kg		84.7	73.7 - 126.3
Chromium	107	93.40		mg/Kg		87.3	69.4 - 134.6
Cobalt	123	120.3		mg/Kg		97.8	74.3 - 130.1
Copper	166	137.6		mg/Kg		82.9	75.3 - 128.3
Iron	14600	14960		mg/Kg		102.4	36.1 - 163.7
Lead	88.4	89.15		mg/Kg		100.8	69.9 - 130.1
Magnesium	2930	2665		mg/Kg		91.0	65.9 - 134.5
Manganese	311	283.4		mg/Kg		91.1	74.9 - 125.4
Nickel	49.8	49.21		mg/Kg		98.8	69.1 - 135.1
Potassium	2620	2541		mg/Kg		97.0	61.1 - 138.9
Selenium	87.7	77.53		mg/Kg		88.4	64.1 - 135.7
Silver	41.4	34.63		mg/Kg		83.7	65.9 - 133.8
Sodium	252	229.0		mg/Kg		90.9	32.9 - 167.5

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-375627/2-A
Matrix: Solid
Analysis Batch: 376078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375627

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	58.1	57.85		mg/Kg		99.6	63.9 - 136.3
Vanadium	140	127.3		mg/Kg		90.9	69.9 - 129.3
Zinc	145	130.5		mg/Kg		90.0	67.7 - 132.4

Lab Sample ID: MB 480-376521/2-A
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 19:07	1
Barium	ND		1.0	0.10	mg/L		09/13/17 10:04	09/13/17 19:07	1
Cadmium	ND		0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 19:07	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 19:07	1
Lead	ND		0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 19:07	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 19:07	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 19:07	1

Lab Sample ID: LCS 480-376521/3-A
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.06		mg/L		106	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Cadmium	1.00	1.06		mg/L		106	80 - 120
Chromium	1.00	1.02		mg/L		102	80 - 120
Lead	1.00	1.04		mg/L		104	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Silver	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: MB 490-458841/1-A
Matrix: Solid
Analysis Batch: 458911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 458841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	ND		0.0048	0.0025	%		09/09/17 18:40	09/10/17 20:48	1

Lab Sample ID: LCS 490-458841/2-A
Matrix: Solid
Analysis Batch: 458911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 458841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfur	0.0952	0.0931		%		98	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 480-376306/1-C
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376521

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 18:52	1
Barium	ND		1.0	0.10	mg/L		09/13/17 10:04	09/13/17 18:52	1
Cadmium	ND		0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 18:52	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 18:52	1
Lead	ND		0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 18:52	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 18:52	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 18:52	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-376569/2-A
Matrix: Solid
Analysis Batch: 376699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 17:55	1

Lab Sample ID: LCS 480-376569/3-A
Matrix: Solid
Analysis Batch: 376699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00590		mg/L		88	80 - 120

Lab Sample ID: LB 480-376306/1-E
Matrix: Solid
Analysis Batch: 376699

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376569

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 17:53	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-375897/1-A
Matrix: Solid
Analysis Batch: 375943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0076	mg/Kg		09/08/17 11:20	09/08/17 14:57	1

Lab Sample ID: LCDSRM 480-375897/3-A ^10
Matrix: Solid
Analysis Batch: 375943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375897

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.6	11.06		mg/Kg		87.8	44.4 - 128.6	1	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-375897/2-A ^10
Matrix: Solid
Analysis Batch: 375943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375897

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.6	10.92		mg/Kg		86.6	44.4 - 128.6

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-377089/1
Matrix: Solid
Analysis Batch: 377089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-376011/1-A
Matrix: Solid
Analysis Batch: 376143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		09/10/17 10:00	09/11/17 10:11	1

Lab Sample ID: LCS 480-376011/2-A
Matrix: Solid
Analysis Batch: 376143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	ND		mg/Kg		20	10 - 100

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-375551/1-A
Matrix: Solid
Analysis Batch: 375635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.88	0.42	mg/Kg		09/07/17 06:31	09/07/17 10:28	1

Lab Sample ID: LCSSRM 480-375551/2-A
Matrix: Solid
Analysis Batch: 375635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375551

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	39.6	43.38		mg/Kg		109.5	33.3 - 195.2

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-376012/1-A
Matrix: Solid
Analysis Batch: 376155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		09/10/17 10:00	09/11/17 12:00	1

Lab Sample ID: LCS 480-376012/2-A
Matrix: Solid
Analysis Batch: 376155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	860	761.4		mg/Kg		89	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-376226/1
Matrix: Solid
Analysis Batch: 376226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: D240-87 - Heat of Combustion

Lab Sample ID: LCS 680-494991/1-A
Matrix: Solid
Analysis Batch: 495068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
BTU	5740	5200		BTU/lb		91	70 - 130

GC/MS VOA

Prep Batch: 375642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	5035A_H	
MB 480-375642/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-375642/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-375642/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 376280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	8260C	375642
MB 480-375642/3-A	Method Blank	Total/NA	Solid	8260C	375642
LCS 480-375642/1-A	Lab Control Sample	Total/NA	Solid	8260C	375642
LCSD 480-375642/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	375642

Leach Batch: 376319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	1311	
LB 480-376319/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 376688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	8260C	376319
LB 480-376319/1-A	Method Blank	TCLP	Solid	8260C	376319
MB 480-376688/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-376688/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 375475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	3550C	
480-123628-2 - DL	WC-10 (11'-21.6')	Total/NA	Solid	3550C	
MB 480-375475/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-375475/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 375643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	8270D	375475
MB 480-375475/1-A	Method Blank	Total/NA	Solid	8270D	375475
LCS 480-375475/2-A	Lab Control Sample	Total/NA	Solid	8270D	375475

Analysis Batch: 375922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2 - DL	WC-10 (11'-21.6')	Total/NA	Solid	8270D	375475

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	1311	
LB 480-376306/1-D	Method Blank	TCLP	Solid	1311	

GC/MS Semi VOA (Continued)

Prep Batch: 376529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	3510C	376306
LB 480-376306/1-D	Method Blank	TCLP	Solid	3510C	376306
MB 480-376529/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-376529/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-376529/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 376846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	8270D	376529
LB 480-376306/1-D	Method Blank	TCLP	Solid	8270D	376529
MB 480-376529/1-A	Method Blank	Total/NA	Solid	8270D	376529
LCS 480-376529/2-A	Lab Control Sample	Total/NA	Solid	8270D	376529
LCSD 480-376529/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	376529

GC VOA

Analysis Batch: 376458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	8015D	376466
MB 480-376466/1-A	Method Blank	Total/NA	Solid	8015D	376466
LCS 480-376466/2-A	Lab Control Sample	Total/NA	Solid	8015D	376466
LCSD 480-376466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	376466

Prep Batch: 376466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	5035A_H	
MB 480-376466/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-376466/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-376466/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

GC Semi VOA

Prep Batch: 375469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	3550C	
MB 480-375469/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-375469/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 375874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-375469/1-A	Method Blank	Total/NA	Solid	8015D	375469
LCS 480-375469/2-A	Lab Control Sample	Total/NA	Solid	8015D	375469

Prep Batch: 375883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	3550C	
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	3550C	
MB 480-375883/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-375883/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-123628-1 MS	WC-10 (0.5'-11')	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 375883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1 MSD	WC-10 (0.5'-11')	Total/NA	Solid	3550C	

Analysis Batch: 376115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	8015D	375469

Analysis Batch: 376144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	8082A	375883
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	8082A	375883
MB 480-375883/1-A	Method Blank	Total/NA	Solid	8082A	375883
LCS 480-375883/2-A	Lab Control Sample	Total/NA	Solid	8082A	375883
480-123628-1 MS	WC-10 (0.5'-11')	Total/NA	Solid	8082A	375883
480-123628-1 MSD	WC-10 (0.5'-11')	Total/NA	Solid	8082A	375883

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	1311	
LB 480-376306/1-F	Method Blank	TCLP	Solid	1311	
LB 480-376306/1-G	Method Blank	TCLP	Solid	1311	

Prep Batch: 376625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	3510C	376306
LB 480-376306/1-F	Method Blank	TCLP	Solid	3510C	376306
MB 480-376625/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-376625/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-376625/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Prep Batch: 376626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	8151A	376306
LB 480-376306/1-G	Method Blank	TCLP	Solid	8151A	376306
MB 480-376626/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-376626/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-376626/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 376893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	8151	376626
LB 480-376306/1-G	Method Blank	TCLP	Solid	8151	376626
MB 480-376626/1-A	Method Blank	Total/NA	Solid	8151	376626
LCS 480-376626/2-A	Lab Control Sample	Total/NA	Solid	8151	376626
LCSD 480-376626/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	376626

Analysis Batch: 377016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	8081B	376625
LB 480-376306/1-F	Method Blank	TCLP	Solid	8081B	376625
MB 480-376625/1-A	Method Blank	Total/NA	Solid	8081B	376625
LCS 480-376625/2-A	Lab Control Sample	Total/NA	Solid	8081B	376625

GC Semi VOA (Continued)

Analysis Batch: 377016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-376625/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	376625

Metals

Prep Batch: 375627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	3050B	
MB 480-375627/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-375627/25-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-375627/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 375897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	7471B	
MB 480-375897/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-375897/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-375897/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 375943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	7471B	375897
MB 480-375897/1-A	Method Blank	Total/NA	Solid	7471B	375897
LCDSRM 480-375897/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	375897
LCSSRM 480-375897/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	375897

Analysis Batch: 376078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	6010C	375627
MB 480-375627/1-A	Method Blank	Total/NA	Solid	6010C	375627
LCDSRM 480-375627/25-A	Lab Control Sample Dup	Total/NA	Solid	6010C	375627
LCSSRM 480-375627/2-A	Lab Control Sample	Total/NA	Solid	6010C	375627

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	1311	
LB 480-376306/1-C	Method Blank	TCLP	Solid	1311	
LB 480-376306/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 376521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	3010A	376306
LB 480-376306/1-C	Method Blank	TCLP	Solid	3010A	376306
MB 480-376521/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-376521/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 376569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	7470A	376306
LB 480-376306/1-E	Method Blank	TCLP	Solid	7470A	376306
MB 480-376569/2-A	Method Blank	Total/NA	Solid	7470A	

Metals (Continued)

Prep Batch: 376569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-376569/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 376699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	7470A	376569
LB 480-376306/1-E	Method Blank	TCLP	Solid	7470A	376569
MB 480-376569/2-A	Method Blank	Total/NA	Solid	7470A	376569
LCS 480-376569/3-A	Lab Control Sample	Total/NA	Solid	7470A	376569

Analysis Batch: 376766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	TCLP	Solid	6010C	376521
LB 480-376306/1-C	Method Blank	TCLP	Solid	6010C	376521
MB 480-376521/2-A	Method Blank	Total/NA	Solid	6010C	376521
LCS 480-376521/3-A	Lab Control Sample	Total/NA	Solid	6010C	376521

Prep Batch: 458841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	3051A	
MB 490-458841/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-458841/2-A	Lab Control Sample	Total/NA	Solid	3051A	

Analysis Batch: 458911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	6010C	458841
MB 490-458841/1-A	Method Blank	Total/NA	Solid	6010C	458841
LCS 490-458841/2-A	Lab Control Sample	Total/NA	Solid	6010C	458841

General Chemistry

Analysis Batch: 375545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	Moisture	

Prep Batch: 375551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	9012B	
MB 480-375551/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-375551/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 375635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	9012B	375551
MB 480-375551/1-A	Method Blank	Total/NA	Solid	9012B	375551
LCSSRM 480-375551/2-A	Lab Control Sample	Total/NA	Solid	9012B	375551

Prep Batch: 376011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	7.3.3	
MB 480-376011/1-A	Method Blank	Total/NA	Solid	7.3.3	

General Chemistry (Continued)

Prep Batch: 376011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-376011/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 376012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	7.3.4	
MB 480-376012/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-376012/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 376143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	9012	376011
MB 480-376011/1-A	Method Blank	Total/NA	Solid	9012	376011
LCS 480-376011/2-A	Lab Control Sample	Total/NA	Solid	9012	376011

Analysis Batch: 376155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	9034	376012
MB 480-376012/1-A	Method Blank	Total/NA	Solid	9034	376012
LCS 480-376012/2-A	Lab Control Sample	Total/NA	Solid	9034	376012

Analysis Batch: 376185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	Moisture	

Analysis Batch: 376209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	9095B	

Analysis Batch: 376226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	9045D	
LCS 480-376226/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 377089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-1	WC-10 (0.5'-11')	Total/NA	Solid	1010A	
LCS 480-377089/1	Lab Control Sample	Total/NA	Solid	1010A	

Prep Batch: 494991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	D240-87	
LCS 680-494991/1-A	Lab Control Sample	Total/NA	Solid	D240-87	

Analysis Batch: 495068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123628-2	WC-10 (11'-21.6')	Total/NA	Solid	D240-87	494991
LCS 680-494991/1-A	Lab Control Sample	Total/NA	Solid	D240-87	494991

Client Sample ID: WC-10 (0.5'-11')

Lab Sample ID: 480-123628-1

Date Collected: 09/05/17 12:50

Matrix: Solid

Date Received: 09/06/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			376319	09/12/17 10:07	NMC	TAL BUF
TCLP	Analysis	8260C		10	376688	09/13/17 22:19	NEA	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3510C			376529	09/13/17 10:21	JMP	TAL BUF
TCLP	Analysis	8270D		1	376846	09/14/17 17:44	PJQ	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3510C			376625	09/13/17 14:15	SMP	TAL BUF
TCLP	Analysis	8081B		1	377016	09/15/17 14:42	MAN	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	8151A			376626	09/13/17 14:22	RLT	TAL BUF
TCLP	Analysis	8151		1	376893	09/15/17 00:16	JMO	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3010A			376521	09/13/17 10:04	EMB	TAL BUF
TCLP	Analysis	6010C		1	376766	09/13/17 19:14	LMH	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	7470A			376569	09/13/17 12:15	MVZ	TAL BUF
TCLP	Analysis	7470A		1	376699	09/13/17 17:58	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377089	09/15/17 13:36	LAW	TAL BUF
Total/NA	Prep	7.3.3			376011	09/10/17 10:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	376143	09/11/17 10:40	MDL	TAL BUF
Total/NA	Prep	7.3.4			376012	09/10/17 10:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	376155	09/11/17 12:00	MDL	TAL BUF
Total/NA	Analysis	9045D		1	376226	09/11/17 14:10	ALZ	TAL BUF
Total/NA	Analysis	9095B		1	376209	09/11/17 15:10	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	375545	09/07/17 06:10	CSW	TAL BUF

Client Sample ID: WC-10 (0.5'-11')

Lab Sample ID: 480-123628-1

Date Collected: 09/05/17 12:50

Matrix: Solid

Date Received: 09/06/17 09:00

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			375883	09/08/17 11:22	NMC	TAL BUF
Total/NA	Analysis	8082A		1	376144	09/11/17 16:09	JMO	TAL BUF

Client Sample ID: WC-10 (11'-21.6')

Lab Sample ID: 480-123628-2

Date Collected: 09/05/17 14:40

Matrix: Solid

Date Received: 09/06/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	D240-87			494991	09/18/17 08:24	CFJ	TAL SAV
Total/NA	Analysis	D240-87		1	495068	09/18/17 12:38	CFJ	TAL SAV
Total/NA	Analysis	Moisture		1	376185	09/11/17 15:32	MJH	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Client Sample ID: WC-10 (11'-21.6')

Date Collected: 09/05/17 14:40
Date Received: 09/06/17 09:00

Lab Sample ID: 480-123628-2

Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			375642	09/07/17 11:51	CDC	TAL BUF
Total/NA	Analysis	8260C		50	376280	09/12/17 15:30	NEA	TAL BUF
Total/NA	Prep	3550C			375475	09/06/17 14:22	SMP	TAL BUF
Total/NA	Analysis	8270D		10	375643	09/07/17 18:36	MKP	TAL BUF
Total/NA	Prep	3550C	DL		375475	09/06/17 14:22	SMP	TAL BUF
Total/NA	Analysis	8270D	DL	200	375922	09/08/17 15:55	MKP	TAL BUF
Total/NA	Prep	5035A_H			376466	09/12/17 21:08	MRB	TAL BUF
Total/NA	Analysis	8015D		100	376458	09/13/17 00:52	MRB	TAL BUF
Total/NA	Prep	3550C			375469	09/06/17 14:15	SMP	TAL BUF
Total/NA	Analysis	8015D		50	376115	09/11/17 12:52	JMO	TAL BUF
Total/NA	Prep	3550C			375883	09/08/17 11:22	NMC	TAL BUF
Total/NA	Analysis	8082A		1	376144	09/11/17 16:25	JMO	TAL BUF
Total/NA	Prep	3050B			375627	09/07/17 13:42	EMB	TAL BUF
Total/NA	Analysis	6010C		1	376078	09/08/17 15:38	LMH	TAL BUF
Total/NA	Prep	3051A			458841	09/09/17 18:40	BVH	TAL NSH
Total/NA	Analysis	6010C		1	458911	09/10/17 23:04	LCS	TAL NSH
Total/NA	Prep	7471B			375897	09/08/17 11:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	375943	09/08/17 15:35	BMB	TAL BUF
Total/NA	Prep	9012B			375551	09/07/17 06:31	BEV	TAL BUF
Total/NA	Analysis	9012B		1	375635	09/07/17 10:52	KRT	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-17 *
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Laboratory: TestAmerica Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17 *
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17 *
Wyoming (UST)	A2LA	8	453.07	12-31-17

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	11-05-17 *
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: ARCADIS U.S. Inc
TestAmerica Job ID: 480-123628-1
Project/Site: National Grid - North Albany Project

Laboratory: TestAmerica Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17 *
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-17
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL NSH
7470A	TCLP Mercury	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
D240-87	Heat of Combustion	ASTM	TAL SAV
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123628-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-123628-1	WC-10 (0.5'-11')	Solid	09/05/17 12:50	09/06/17 09:00
480-123628-2	WC-10 (11'-21.6')	Solid	09/05/17 14:40	09/06/17 09:00

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-123628 COC

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Arcadis U.S Inc	David Cornell / Michael Jones	9/5/17	296310

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
One Lincoln Center 110 West Fayette St. Suite 300	(518) 396-7296		Page 1 of 2

City	State	Zip Code	Site Contact	Lab Contact
Syracuse	NY	13202	Michael Jones	Melissa Deyo

Project Name and Location (State)	Carrier/Waybill Number
National Grid North Albany, NY	

Contract/Purchase Order/Quote No.
BG036648.1401.00006

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	MeOH	Analysis (Attach list if more space is needed): 9012_Reactive CN, 9034 Reactive S	9095B Paint Filter	6010C, 7470A, 8081B, 8151A, 8270D (SIM)	8260C - TCLP VOA	1010A, 9045D	8082A - PCBs	Cyanide 9012B	6010C, 7471B	8082A, 8270D	8015D_DRO - B20	8015D-GRO - GRO	6010C - Percent Sulfur	Special Instructions/ Conditions of Receipt
NC-10 (0.5'-11')	9/5/17	1250				X	X							1	1	1	1	1	1							short holding time
NC-10 (11'-21.6')	9/5/17	1440				X							X							1	1	1	1	3	1	

Cyanide 9/5/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other Standard

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Cindy Thomas	9/5/17	1630	Karl Gardner	9/5/17	1630
2. Relinquished By	Date	Time	2. Received By	Date	Time
Karl Gardner	9/5/17	1800	Wallace	9/6/17	1945
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

#12.2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Arcadis U.S. Inc	David Cornell (Michael Jones)	9/5/17	296309

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
One Lincoln Center 110 West Fayette St. Suite 300	(518) 396-7296		Page 2 of 2

City	State	Zip Code	Site Contact	Lab Contact
Syracuse	NY	13202	Michael Jones	Melissa Deyo

Project Name and Location (State)	Carrier/Waybill Number
National Gnd North Albany, NY	

Contract/Purchase Order/Quote No.: B00366418.1401.00006

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	O1	Analysis: 8240-87-BTEX	8260C-TCL VOCs	Percent Solid	Special Instructions/ Conditions of Receipt
WC-10 (0.5'-11')	9/5/17	1250				X											Short holding time
WC-10 (11-21.6')	9/5/17	1440				X							X	1	3	1	

9/5/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other Standard

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.		9/5/17	1630		9/5/17	1630
2.		9/5/17	1800		9/6/17	1945
3.						

Comments

#12.2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

480-123628 Chain of Custody

Cooler Received/Opened On 9/7/2017 @1000

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 8862 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID_17960353_____ pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 3.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ES

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated ~~correctly~~? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) ES

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA ES 9-7-17

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) ES

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) ES

I certify that I attached a label with the unique LIMS number to each container (intial) ES

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# ES

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480-123628

America
THE ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L		.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York		Job #: 480-123628-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/18/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C/3051A Percent Sulfur	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-10 (11'-21.6') (480-123628-2)	9/5/17	14:40 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 9/6/17 1600	Company	Received by:	Date/Time: 9-7-17 1000	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3

9/19/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-37022.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-123628-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 9/18/2017			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87/D240_87_P Heat of Combustion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-10 (11'-21.6') (480-123628-2)	9/5/17	14:40 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/6/17 1600	TAB	[signature]	9/7/17 0910	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2.7(29)	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/19/2017

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123628-1

Login Number: 123628
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	FREEZER ON 06SEPT2017 @1400
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123628-1

Login Number: 123628
List Number: 3
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 09/07/17 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123628-1

Login Number: 123628
List Number: 2
Creator: Chamberlain, Kim A

List Source: TestAmerica Savannah
List Creation: 09/07/17 10:45 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-123714-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Melissa Deyo

Authorized for release by:
9/25/2017 3:42:52 PM

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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-123714-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-123714-1

Receipt
The samples were received on 9/7/2017 1:30 AM and 9/8/2017 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.5º C and 0.6º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-376688 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-11 (0.5'-11') (480-123714-1).

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-11 (0.5'-11') (480-123714-1) and (LB 480-376319/1-A). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 480-376018 recovered outside control limits for the following analyte: Methylcyclohexane. This analyte was biased high in the LCSD and was not detected in the associated sample; therefore, the data have been reported. The following sample is impacted: WC-11 (11-19.3) (480-123778-1).

Method(s) 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 480-376018 recovered outside control limits for the following analytes: Bromomethane, Acetone, Chloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane and Bromoform. The following sample was non-detect for the affected analytes: WC-11 (11-19.3) (480-123778-1).

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the abundance of non-target analytes: WC-11 (11-19.3) (480-123778-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to color and viscosity: WC-11 (11'-19.3') (480-123714-2). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-376571 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. The following sample is impacted: WC-11 (11'-19.3') (480-123714-2).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-376571 recovered above the upper control limit for 2,2'-oxybis[1-chloropropane]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-11 (11'-19.3') (480-123714-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) 8015D: The method blank for preparation batch 480-376466 and contained GRO (C6-C10) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-376893 recovered above the upper control limit for 2,4-D. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The

Job ID: 480-123714-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

following sample is impacted: WC-11 (0.5'-11') (480-123714-1).

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-11 (0.5'-11') (480-123714-1) and (LB 480-376306/1-G). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: The following samples are associated with a method blank (MB 480-376626/1-A) that had recoveries for the surrogate 2,4-Dichlorophenylacetic acid: WC-11 (0.5'-11') (480-123714-1). The LCS and LCSD surrogate recoveries are within limits. Therefore, the data has been reported.

Method(s) 8015D: The following sample was diluted due to the abundance of target analytes: WC-11 (11'-19.3') (480-123714-2). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8081B: All primary data for analytical batch 377016 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 376144 is reported from the ZB-35 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: All primary data for analytical batch 376893 is reported from the RTX-CLPII column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010, 6010C: The method blank for preparation batch 480-375625 contained Total Chromium above the reporting limit (RL). Associated sample(s) WC-11 (11'-19.3') (480-123714-2) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-11 (0.5'-11') (480-123714-1).

Method(s) 9012B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 480-375856 and analytical batch 480-375947 recovered outside control limits for the following analytes: Total Cyanide. Individual recoveries for the LCS and the LCSD were both within control limits, data are reported. WC-11 (11'-19.3') (480-123714-2), (480-123714-D-2-B DU) and (480-123714-D-2-C MS)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-376529.

Method(s) 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-376626.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Client Sample ID: WC-11 (0.5'-11')

Lab Sample ID: 480-123714-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	Passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.011		0.010	0.0041	mg/L	10		8260C	TCLP
gamma-BHC (Lindane)	0.000057	J B	0.00020	0.0000060	mg/L	1		8081B	TCLP
Barium	0.71	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0025		0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.034		0.020	0.0030	mg/L	1		6010C	TCLP
Sulfide, Reactive	60.0		10	10	mg/Kg	1		9034	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	20.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-11 (11'-19.3')

Lab Sample ID: 480-123714-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biphenyl	700	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	10000		1000	200	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	14000		1000	150	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	2100		1000	130	ug/Kg	5	☼	8270D	Total/NA
Anthracene	8000		1000	250	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	5800		1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	6700		1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	4800		1000	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4400		1000	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	3900		1000	130	ug/Kg	5	☼	8270D	Total/NA
Carbazole	310	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	6200		1000	230	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	1100		1000	120	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	14000		1000	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	7500		1000	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3100		1000	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	13000		1000	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	24000		1000	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	18000		1000	120	ug/Kg	5	☼	8270D	Total/NA
GRO (C6-C10)	7.8	B	1.5	0.39	mg/Kg	1	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	580		200	59	mg/Kg	10	☼	8015D	Total/NA
Aluminum	10400		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Sulfur	0.029		0.0057	0.0030	%	1	☼	6010C	Total/NA
Arsenic	4.7		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	67.3		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.57		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.049	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	1970	B	57.0	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.3	B	0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.7		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	24.1		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	20400	B	11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	12.1		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3540		22.8	1.1	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-11 (11'-19.3') (Continued)

Lab Sample ID: 480-123714-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	158	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	21.7		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2150		34.2	22.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	349		160	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.3		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	62.2		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.022	J	0.023	0.0092	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.8	*	1.1	0.55	mg/Kg	1	☼	9012B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
BTU	DNF		2.00	2.00	BTU/lb	1		D240-87	Total/NA

Client Sample ID: WC-11 (11-19.3)

Lab Sample ID: 480-123778-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	710	J	1100	210	ug/Kg	10	☼	8260C	Total/NA
Ethylbenzene	2400		1100	320	ug/Kg	10	☼	8260C	Total/NA
Isopropylbenzene	380	J	1100	160	ug/Kg	10	☼	8260C	Total/NA
Methylene Chloride	220	J	1100	220	ug/Kg	10	☼	8260C	Total/NA
Toluene	380	J	1100	290	ug/Kg	10	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-11 (0.5'-11')

Date Collected: 09/06/17 09:40
Date Received: 09/07/17 01:30

Lab Sample ID: 480-123714-1

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/13/17 22:42	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/13/17 22:42	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/13/17 22:42	10
Benzene	**0.011**		0.010	0.0041	mg/L			09/13/17 22:42	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/13/17 22:42	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/13/17 22:42	10
Chloroform	ND		0.010	0.0034	mg/L			09/13/17 22:42	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/13/17 22:42	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/13/17 22:42	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/13/17 22:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*09/13/17 22:42*	*10*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*09/13/17 22:42*	*10*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/13/17 22:42*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/13/17 22:42*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/13/17 10:21	09/14/17 18:10	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/13/17 10:21	09/14/17 18:10	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/13/17 10:21	09/14/17 18:10	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/13/17 10:21	09/14/17 18:10	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/13/17 10:21	09/14/17 18:10	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/13/17 10:21	09/14/17 18:10	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/13/17 10:21	09/14/17 18:10	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/13/17 10:21	09/14/17 18:10	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/13/17 10:21	09/14/17 18:10	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/13/17 10:21	09/14/17 18:10	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/13/17 10:21	09/14/17 18:10	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/13/17 10:21	09/14/17 18:10	1
Pyridine	ND		0.025	0.00041	mg/L		09/13/17 10:21	09/14/17 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*41 - 120*	*09/13/17 10:21*	*09/14/17 18:10*	*1*
2-Fluorobiphenyl	*76*		*48 - 120*	*09/13/17 10:21*	*09/14/17 18:10*	*1*
2-Fluorophenol	*38*		*35 - 120*	*09/13/17 10:21*	*09/14/17 18:10*	*1*
Nitrobenzene-d5	*74*		*46 - 120*	*09/13/17 10:21*	*09/14/17 18:10*	*1*
Phenol-d5	*30*		*22 - 120*	*09/13/17 10:21*	*09/14/17 18:10*	*1*
p-Terphenyl-d14	*105*		*59 - 136*	*09/13/17 10:21*	*09/14/17 18:10*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/13/17 14:15	09/15/17 15:02	1
Endrin	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 15:02	1
gamma-BHC (Lindane)	**0.000057**	**J B**	0.00020	0.0000060	mg/L		09/13/17 14:15	09/15/17 15:02	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/13/17 14:15	09/15/17 15:02	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/13/17 14:15	09/15/17 15:02	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 15:02	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/13/17 14:15	09/15/17 15:02	1

Client Sample ID: WC-11 (0.5'-11')

Date Collected: 09/06/17 09:40
Date Received: 09/07/17 01:30

Lab Sample ID: 480-123714-1
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*20 - 120*	*09/13/17 14:15*	*09/15/17 15:02*	*1*
DCB Decachlorobiphenyl	*87*		*20 - 120*	*09/13/17 14:15*	*09/15/17 15:02*	*1*
Tetrachloro-m-xylene	*93*		*44 - 120*	*09/13/17 14:15*	*09/15/17 15:02*	*1*
Tetrachloro-m-xylene	*69*		*44 - 120*	*09/13/17 14:15*	*09/15/17 15:02*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/13/17 14:22	09/15/17 00:46	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/13/17 14:22	09/15/17 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*19*	*X*	*48 - 132*	*09/13/17 14:22*	*09/15/17 00:46*	*1*
2,4-Dichlorophenylacetic acid	*21*	*X*	*48 - 132*	*09/13/17 14:22*	*09/15/17 00:46*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 19:18	1
Barium	**0.71**	**J**	1.0	0.10	mg/L		09/13/17 10:04	09/13/17 19:18	1
Cadmium	**0.0025**		0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 19:18	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 19:18	1
Lead	**0.034**		0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 19:18	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 19:18	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 19:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 18:00	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**Passed**				mL/100g			09/07/17 15:22	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/10/17 10:00	09/11/17 10:41	1
Sulfide, Reactive	**60.0**		10	10	mg/Kg		09/10/17 10:00	09/11/17 12:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			09/18/17 08:41	1
pH	**7.7**	**HF**	0.1	0.1	SU			09/11/17 14:10	1
Temperature	**20.8**	**HF**	0.001	0.001	Degrees C			09/11/17 14:10	1

Client Sample ID: WC-11 (0.5'-11')

Date Collected: 09/06/17 09:40
Date Received: 09/07/17 01:30

Lab Sample ID: 480-123714-1
Matrix: Solid
Percent Solids: 83.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.056	mg/Kg	☼	09/08/17 11:22	09/11/17 18:27	1
PCB-1221	ND		0.29	0.056	mg/Kg	☼	09/08/17 11:22	09/11/17 18:27	1
PCB-1232	ND		0.29	0.056	mg/Kg	☼	09/08/17 11:22	09/11/17 18:27	1
PCB-1242	ND		0.29	0.056	mg/Kg	☼	09/08/17 11:22	09/11/17 18:27	1
PCB-1248	ND		0.29	0.056	mg/Kg	☼	09/08/17 11:22	09/11/17 18:27	1
PCB-1254	ND		0.29	0.13	mg/Kg	☼	09/08/17 11:22	09/11/17 18:27	1

Client Sample ID: WC-11 (0.5'-11')

Lab Sample ID: 480-123714-1
Date Collected: 09/06/17 09:40
Matrix: Solid
Date Received: 09/07/17 01:30
Percent Solids: 83.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.29	0.13	mg/Kg	☼	09/08/17 11:22	09/11/17 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*09/08/17 11:22*	*09/11/17 18:27*	*1*
DCB Decachlorobiphenyl	*117*		*65 - 174*	*09/08/17 11:22*	*09/11/17 18:27*	*1*
Tetrachloro-m-xylene	*94*		*60 - 154*	*09/08/17 11:22*	*09/11/17 18:27*	*1*
Tetrachloro-m-xylene	*107*		*60 - 154*	*09/08/17 11:22*	*09/11/17 18:27*	*1*

Client Sample ID: WC-11 (11'-19.3')

Lab Sample ID: 480-123714-2
Date Collected: 09/06/17 11:00
Matrix: Solid
Date Received: 09/07/17 01:30
Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**700**	**J**	1000	150	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
bis (2-chloroisopropyl) ether	ND		1000	200	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2,4,5-Trichlorophenol	ND		1000	270	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2,4,6-Trichlorophenol	ND		1000	200	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2,4-Dichlorophenol	ND		1000	110	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2,4-Dimethylphenol	ND		1000	240	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2,4-Dinitrophenol	ND		9800	4700	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2,6-Dinitrotoluene	ND		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2-Chloronaphthalene	ND		1000	170	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2-Chlorophenol	ND		1000	180	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2-Methylnaphthalene	**10000**		1000	200	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2-Methylphenol	ND		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2-Nitroaniline	ND		2000	150	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
2-Nitrophenol	ND		1000	280	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
3,3'-Dichlorobenzidine	ND		2000	1200	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
3-Nitroaniline	ND		2000	280	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
4,6-Dinitro-2-methylphenol	ND		2000	1000	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
4-Bromophenyl phenyl ether	ND		1000	140	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
4-Chloro-3-methylphenol	ND		1000	250	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
4-Chloroaniline	ND		1000	250	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
4-Chlorophenyl phenyl ether	ND		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
4-Methylphenol	ND		2000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
4-Nitroaniline	ND		2000	530	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
4-Nitrophenol	ND		2000	710	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Acenaphthene	**14000**		1000	150	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Acenaphthylene	**2100**		1000	130	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Acetophenone	ND		1000	140	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Anthracene	**8000**		1000	250	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Atrazine	ND		1000	350	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Benzaldehyde	ND		1000	800	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Benzo[a]anthracene	**5800**		1000	100	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Benzo[a]pyrene	**6700**		1000	150	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Benzo[b]fluoranthene	**4800**		1000	160	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Benzo[g,h,i]perylene	**4400**		1000	110	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Benzo[k]fluoranthene	**3900**		1000	130	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5

Client Sample ID: WC-11 (11'-19.3')
Date Collected: 09/06/17 11:00
Date Received: 09/07/17 01:30

Lab Sample ID: 480-123714-2
Matrix: Solid
Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		1000	210	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Bis(2-chloroethyl)ether	ND		1000	130	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Bis(2-ethylhexyl) phthalate	ND		1000	340	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Butyl benzyl phthalate	ND		1000	170	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Caprolactam	ND		1000	300	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Carbazole	**310**	**J**	1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Chrysene	**6200**		1000	230	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Di-n-butyl phthalate	ND		1000	170	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Di-n-octyl phthalate	ND		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Dibenzofuran	**1100**		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Diethyl phthalate	ND		1000	130	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Dimethyl phthalate	ND		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Fluoranthene	**14000**		1000	110	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Fluorene	**7500**		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Hexachlorobenzene	ND		1000	140	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Hexachlorocyclopentadiene	ND		1000	140	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Hexachloroethane	ND		1000	130	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Indeno[1,2,3-cd]pyrene	**3100**		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Isophorone	ND		1000	210	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
N-Nitrosodi-n-propylamine	ND		1000	170	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
N-Nitrosodiphenylamine	ND		1000	820	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Naphthalene	**13000**		1000	130	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Nitrobenzene	ND		1000	110	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Pentachlorophenol	ND		2000	1000	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Phenanthrene	**24000**		1000	150	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Phenol	ND		1000	150	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5
Pyrene	**18000**		1000	120	ug/Kg	☼	09/12/17 14:41	09/13/17 17:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*54 - 120*	*09/12/17 14:41*	*09/13/17 17:41*	*5*
2-Fluorobiphenyl	*97*		*60 - 120*	*09/12/17 14:41*	*09/13/17 17:41*	*5*
2-Fluorophenol	*77*		*52 - 120*	*09/12/17 14:41*	*09/13/17 17:41*	*5*
Nitrobenzene-d5	*79*		*53 - 120*	*09/12/17 14:41*	*09/13/17 17:41*	*5*
p-Terphenyl-d14	*93*		*65 - 121*	*09/12/17 14:41*	*09/13/17 17:41*	*5*
Phenol-d5	*80*		*54 - 120*	*09/12/17 14:41*	*09/13/17 17:41*	*5*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	**7.8**	**B**	1.5	0.39	mg/Kg	☼	09/12/17 21:08	09/13/17 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*57*		*46 - 156*	*09/12/17 21:08*	*09/13/17 00:17*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**580**		200	59	mg/Kg	☼	09/07/17 14:23	09/15/17 15:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*7*	*X*	*48 - 125*	*09/07/17 14:23*	*09/15/17 15:35*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.039	mg/Kg	☼	09/08/17 11:22	09/11/17 18:43	1
PCB-1221	ND		0.20	0.039	mg/Kg	☼	09/08/17 11:22	09/11/17 18:43	1
PCB-1232	ND		0.20	0.039	mg/Kg	☼	09/08/17 11:22	09/11/17 18:43	1
PCB-1242	ND		0.20	0.039	mg/Kg	☼	09/08/17 11:22	09/11/17 18:43	1
PCB-1248	ND		0.20	0.039	mg/Kg	☼	09/08/17 11:22	09/11/17 18:43	1
PCB-1254	ND		0.20	0.094	mg/Kg	☼	09/08/17 11:22	09/11/17 18:43	1
PCB-1260	ND		0.20	0.094	mg/Kg	☼	09/08/17 11:22	09/11/17 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*60 - 154*	*09/08/17 11:22*	*09/11/17 18:43*	*1*
Tetrachloro-m-xylene	*118*		*60 - 154*	*09/08/17 11:22*	*09/11/17 18:43*	*1*
DCB Decachlorobiphenyl	*104*		*65 - 174*	*09/08/17 11:22*	*09/11/17 18:43*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*09/08/17 11:22*	*09/11/17 18:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10400**		11.4	5.0	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Sulfur	**0.029**		0.0057	0.0030	%	☼	09/09/17 18:40	09/10/17 23:09	1
Antimony	ND		17.1	0.46	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Arsenic	**4.7**		2.3	0.46	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Barium	**67.3**		0.57	0.13	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Beryllium	**0.57**		0.23	0.032	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Cadmium	**0.049**	**J**	0.23	0.034	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Calcium	**1970**	**B**	57.0	3.8	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Chromium	**14.3**	**B**	0.57	0.23	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Cobalt	**9.7**		0.57	0.057	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Copper	**24.1**		1.1	0.24	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Iron	**20400**	**B**	11.4	4.0	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Lead	**12.1**		1.1	0.27	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Magnesium	**3540**		22.8	1.1	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Manganese	**158**	**B**	0.23	0.037	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Nickel	**21.7**		5.7	0.26	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Potassium	**2150**		34.2	22.8	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Selenium	ND		4.6	0.46	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Silver	ND		0.68	0.23	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Sodium	**349**		160	14.8	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Thallium	ND		6.8	0.34	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Vanadium	**20.3**		0.57	0.13	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1
Zinc	**62.2**		2.3	0.73	mg/Kg	☼	09/07/17 13:42	09/08/17 13:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**	**J**	0.023	0.0092	mg/Kg	☼	09/11/17 14:05	09/11/17 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**1.8**	*****	1.1	0.55	mg/Kg	☼	09/08/17 11:40	09/08/17 15:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**DNF**		2.00	2.00	BTU/lb		09/22/17 08:11	09/22/17 12:11	1

Client Sample ID: WC-11 (11-19.3)
Date Collected: 09/06/17 11:00
Date Received: 09/08/17 01:45

Lab Sample ID: 480-123778-1
Matrix: Solid
Percent Solids: 83.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1100	300	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,1,2,2-Tetrachloroethane	ND		1100	180	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	1100	540	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,1,2-Trichloroethane	ND		1100	230	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,1-Dichloroethane	ND		1100	340	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,1-Dichloroethene	ND		1100	380	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,2,4-Trichlorobenzene	ND		1100	410	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,2-Dibromo-3-Chloropropane	ND		1100	540	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,2-Dibromoethane	ND		1100	190	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,2-Dichlorobenzene	ND		1100	280	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,2-Dichloroethane	ND		1100	450	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,2-Dichloropropane	ND		1100	180	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,3-Dichlorobenzene	ND		1100	290	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
1,4-Dichlorobenzene	ND		1100	150	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
2-Butanone (MEK)	ND		5400	3200	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
2-Hexanone	ND		5400	2200	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
4-Methyl-2-pentanone (MIBK)	ND		5400	350	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Acetone	ND	*	5400	4500	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Benzene	**710**	**J**	1100	210	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Bromodichloromethane	ND		1100	220	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Bromoform	ND	*	1100	540	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Bromomethane	ND	*	1100	240	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Carbon disulfide	ND		1100	500	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Carbon tetrachloride	ND		1100	280	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Chlorobenzene	ND		1100	140	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Chloroethane	ND	*	1100	230	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Chloroform	ND		1100	750	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Chloromethane	ND		1100	260	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
cis-1,2-Dichloroethene	ND		1100	300	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
cis-1,3-Dichloropropene	ND		1100	260	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Cyclohexane	ND		1100	240	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Dibromochloromethane	ND		1100	530	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Dichlorodifluoromethane	ND		1100	480	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Ethylbenzene	**2400**		1100	320	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Isopropylbenzene	**380**	**J**	1100	160	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Methyl acetate	ND		5400	520	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Methyl tert-butyl ether	ND		1100	410	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Methylcyclohexane	ND	*	1100	510	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Methylene Chloride	**220**	**J**	1100	220	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Styrene	ND		1100	260	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Tetrachloroethene	ND		1100	150	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Toluene	**380**	**J**	1100	290	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
trans-1,2-Dichloroethene	ND		1100	260	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
trans-1,3-Dichloropropene	ND		1100	110	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Trichloroethene	ND		1100	300	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Trichlorofluoromethane	ND		1100	510	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Vinyl chloride	ND		1100	370	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10
Xylenes, Total	ND		2200	600	ug/Kg	☼	09/10/17 10:00	09/19/17 14:44	10

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Client Sample ID: WC-11 (11-19.3)
Date Collected: 09/06/17 11:00
Date Received: 09/08/17 01:45

Lab Sample ID: 480-123778-1
Matrix: Solid
Percent Solids: 83.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		53 - 146	09/10/17 10:00	09/19/17 14:44	10
4-Bromofluorobenzene (Surr)	104		49 - 148	09/10/17 10:00	09/19/17 14:44	10
Dibromofluoromethane (Surr)	103		60 - 140	09/10/17 10:00	09/19/17 14:44	10
Toluene-d8 (Surr)	100		50 - 149	09/10/17 10:00	09/19/17 14:44	10

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-376688/4	Lab Control Sample	90	97	102	102
MB 480-376688/6	Method Blank	95	94	101	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-123714-1	WC-11 (0.5'-11')	90	93	98	99
LB 480-376319/1-A	Method Blank	95	91	103	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(60-140)	(50-149)
480-123778-1	WC-11 (11-19.3)	98	104	103	100
LCS 480-376018/1-A	Lab Control Sample	101	99	105	100
LCSD 480-376018/2-A	Lab Control Sample Dup	95	97	104	99
MB 480-376018/3-A	Method Blank	96	96	99	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-123714-2	WC-11 (11'-19.3')	82	97	77	79	93	80
LCS 480-376395/2-A	Lab Control Sample	72	86	73	82	86	72
MB 480-376395/1-A	Method Blank	57	86	74	73	87	74

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(59-136)	(22-120)
LCS 480-376529/2-A	Lab Control Sample	104	82	44	78	99	35
LCSD 480-376529/3-A	Lab Control Sample Dup	101	80	42	81	90	33
MB 480-376529/1-A	Method Blank	89	79	44	76	102	30

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-123714-1	WC-11 (0.5'-11')	98	76	38	74	30	105
LB 480-376306/1-D	Method Blank	92	80	43	79	30	106

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	Client Sample ID	(46-156)
480-123714-2	WC-11 (11'-19.3')	57
LCS 480-376466/2-A	Lab Control Sample	82
LCSD 480-376466/3-A	Lab Control Sample Dup	82
MB 480-376466/1-A	Method Blank	77

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTPH (48-125)
480-123714-2	WC-11 (11'-19.3')	7 X
LCS 480-375679/2-A	Lab Control Sample	84
LCSD 480-375679/3-A	Lab Control Sample Dup	85
MB 480-375679/1-A	Method Blank	85

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (20-120)	DCB2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
LCS 480-376625/2-A	Lab Control Sample	66	61	90	71
LCSD 480-376625/3-A	Lab Control Sample Dup	69	63	102	77
MB 480-376625/1-A	Method Blank	63	67	95	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (20-120)	DCB2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
480-123714-1	WC-11 (0.5'-11')	87	87	93	69
LB 480-376306/1-F	Method Blank	74	72	94	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (65-174)	DCB2 (65-174)	TCX1 (60-154)	TCX2 (60-154)
480-123714-1	WC-11 (0.5'-11')	98	117	94	107
480-123714-2	WC-11 (11'-19.3')	104	125	94	118
LCS 480-375883/2-A	Lab Control Sample	100	120	112	111
MB 480-375883/1-A	Method Blank	105	119	105	112

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
LCS 480-376626/2-A	Lab Control Sample	48	51
LCSD 480-376626/3-A	Lab Control Sample Dup	40 X	55
MB 480-376626/1-A	Method Blank	36 X	40 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
480-123714-1	WC-11 (0.5'-11')	19 X	21 X
LB 480-376306/1-G	Method Blank	18 X	20 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-376688/6
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/13/17 20:57	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/13/17 20:57	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/13/17 20:57	1
Benzene	ND		0.0010	0.00041	mg/L			09/13/17 20:57	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/13/17 20:57	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/13/17 20:57	1
Chloroform	ND		0.0010	0.00034	mg/L			09/13/17 20:57	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/13/17 20:57	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/13/17 20:57	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/13/17 20:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*09/13/17 20:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*09/13/17 20:57*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/13/17 20:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/13/17 20:57*	*1*

Lab Sample ID: LCS 480-376688/4
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0224		mg/L		90	66 - 127
1,2-Dichloroethane	0.0250	0.0227		mg/L		91	75 - 120
2-Butanone (MEK)	0.125	0.0839		mg/L		67	57 - 140
Benzene	0.0250	0.0249		mg/L		99	71 - 124
Carbon tetrachloride	0.0250	0.0251		mg/L		100	72 - 134
Chlorobenzene	0.0250	0.0247		mg/L		99	80 - 120
Chloroform	0.0250	0.0245		mg/L		98	73 - 127
Tetrachloroethene	0.0250	0.0255		mg/L		102	74 - 122
Trichloroethene	0.0250	0.0243		mg/L		97	74 - 123
Vinyl chloride	0.0250	0.0213		mg/L		85	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LB 480-376319/1-A
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/13/17 21:33	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/13/17 21:33	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/13/17 21:33	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-376319/1-A
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			09/13/17 21:33	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/13/17 21:33	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/13/17 21:33	10
Chloroform	ND		0.010	0.0034	mg/L			09/13/17 21:33	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/13/17 21:33	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/13/17 21:33	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/13/17 21:33	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*09/13/17 21:33*	*10*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*09/13/17 21:33*	*10*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/13/17 21:33*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/13/17 21:33*	*10*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-376018/3-A
Matrix: Solid
Analysis Batch: 377499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,1-Dichloroethane	ND		100	31	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,1-Dichloroethene	ND		100	35	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,2-Dibromoethane	ND		100	18	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,2-Dichloroethane	ND		100	41	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
2-Butanone (MEK)	ND		500	300	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
2-Hexanone	ND		500	210	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Acetone	ND		500	410	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Benzene	ND		100	19	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Bromodichloromethane	ND		100	20	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Bromoform	ND		100	50	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Bromomethane	ND		100	22	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Carbon disulfide	ND		100	46	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Carbon tetrachloride	ND		100	26	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Chlorobenzene	ND		100	13	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Chloroethane	ND		100	21	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Chloroform	ND		100	69	ug/Kg		09/10/17 10:00	09/19/17 13:50	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-376018/3-A
Matrix: Solid
Analysis Batch: 377499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		100	24	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Cyclohexane	ND		100	22	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Dibromochloromethane	ND		100	48	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Ethylbenzene	ND		100	29	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Isopropylbenzene	ND		100	15	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Methyl acetate	ND		500	48	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Methylcyclohexane	ND		100	47	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Methylene Chloride	22.4	J	100	20	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Styrene	ND		100	24	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Tetrachloroethene	ND		100	13	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Toluene	ND		100	27	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Trichloroethene	ND		100	28	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Trichlorofluoromethane	ND		100	47	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Vinyl chloride	ND		100	34	ug/Kg		09/10/17 10:00	09/19/17 13:50	1
Xylenes, Total	ND		200	55	ug/Kg		09/10/17 10:00	09/19/17 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*53 - 146*	*09/10/17 10:00*	*09/19/17 13:50*	*1*
4-Bromofluorobenzene (Surr)	*96*		*49 - 148*	*09/10/17 10:00*	*09/19/17 13:50*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*09/10/17 10:00*	*09/19/17 13:50*	*1*
Toluene-d8 (Surr)	*100*		*50 - 149*	*09/10/17 10:00*	*09/19/17 13:50*	*1*

Lab Sample ID: LCS 480-376018/1-A
Matrix: Solid
Analysis Batch: 377499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2540		ug/Kg		102	68 - 130
1,1,2,2-Tetrachloroethane	2500	2040		ug/Kg		82	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2470		ug/Kg		99	10 - 179
1,1,2-Trichloroethane	2500	2190		ug/Kg		87	80 - 120
1,1-Dichloroethane	2500	2550		ug/Kg		102	78 - 121
1,1-Dichloroethene	2500	2160		ug/Kg		87	48 - 133
1,2,4-Trichlorobenzene	2500	1900		ug/Kg		76	70 - 140
1,2-Dibromo-3-Chloropropane	2500	1570		ug/Kg		63	56 - 122
1,2-Dibromoethane	2500	2260		ug/Kg		91	80 - 120
1,2-Dichlorobenzene	2500	2410		ug/Kg		97	78 - 125
1,2-Dichloroethane	2500	2330		ug/Kg		93	74 - 127
1,2-Dichloropropane	2500	2490		ug/Kg		99	80 - 120
1,3-Dichlorobenzene	2500	2450		ug/Kg		98	80 - 120
1,4-Dichlorobenzene	2500	2410		ug/Kg		96	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-376018/1-A
Matrix: Solid
Analysis Batch: 377499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	12500	8930		ug/Kg		71	54 - 149
2-Hexanone	12500	8080		ug/Kg		65	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	9330		ug/Kg		75	74 - 120
Acetone	12500	9250		ug/Kg		74	47 - 141
Benzene	2500	2610		ug/Kg		104	77 - 125
Bromodichloromethane	2500	2490		ug/Kg		99	71 - 121
Bromoform	2500	2020		ug/Kg		81	48 - 125
Bromomethane	2500	1800		ug/Kg		72	39 - 149
Carbon disulfide	2500	2450		ug/Kg		98	40 - 136
Carbon tetrachloride	2500	2800		ug/Kg		112	54 - 135
Chlorobenzene	2500	2430		ug/Kg		97	76 - 126
Chloroethane	2500	1420		ug/Kg		57	23 - 150
Chloroform	2500	2490		ug/Kg		100	78 - 120
Chloromethane	2500	2280		ug/Kg		91	61 - 124
cis-1,2-Dichloroethene	2500	2710		ug/Kg		108	79 - 124
cis-1,3-Dichloropropene	2500	2330		ug/Kg		93	75 - 121
Cyclohexane	2500	2730		ug/Kg		109	49 - 129
Dibromochloromethane	2500	2220		ug/Kg		89	64 - 120
Dichlorodifluoromethane	2500	2980		ug/Kg		119	10 - 150
Ethylbenzene	2500	2430		ug/Kg		97	78 - 124
Isopropylbenzene	2500	2540		ug/Kg		101	76 - 120
Methyl acetate	12500	8980		ug/Kg		72	71 - 123
Methyl tert-butyl ether	2500	2300		ug/Kg		92	67 - 137
Methylcyclohexane	2500	3080		ug/Kg		123	50 - 130
Methylene Chloride	2500	2390	B	ug/Kg		96	75 - 118
Styrene	2500	2360		ug/Kg		94	80 - 120
Tetrachloroethene	2500	2820		ug/Kg		113	73 - 133
Toluene	2500	2400		ug/Kg		96	75 - 124
trans-1,2-Dichloroethene	2500	2630		ug/Kg		105	74 - 129
trans-1,3-Dichloropropene	2500	2310		ug/Kg		93	73 - 120
Trichloroethene	2500	2780		ug/Kg		111	75 - 131
Trichlorofluoromethane	2500	2730		ug/Kg		109	29 - 158
Vinyl chloride	2500	2540		ug/Kg		102	59 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*53 - 146*
4-Bromofluorobenzene (Surr)	*99*		*49 - 148*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*100*		*50 - 149*

Lab Sample ID: LCSD 480-376018/2-A
Matrix: Solid
Analysis Batch: 377499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376018

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	2500	3020		ug/Kg		121	68 - 130	17	20
1,1,2,2-Tetrachloroethane	2500	2320		ug/Kg		93	73 - 120	13	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-376018/2-A
Matrix: Solid
Analysis Batch: 377499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376018

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	3210	*	ug/Kg		128	10 - 179	26	20
1,1,2-Trichloroethane	2500	2440		ug/Kg		97	80 - 120	11	20
1,1-Dichloroethane	2500	2770		ug/Kg		111	78 - 121	8	20
1,1-Dichloroethene	2500	2580		ug/Kg		103	48 - 133	17	20
1,2,4-Trichlorobenzene	2500	2230		ug/Kg		89	70 - 140	16	20
1,2-Dibromo-3-Chloropropane	2500	1800		ug/Kg		72	56 - 122	14	20
1,2-Dibromoethane	2500	2560		ug/Kg		102	80 - 120	12	20
1,2-Dichlorobenzene	2500	2700		ug/Kg		108	78 - 125	11	20
1,2-Dichloroethane	2500	2570		ug/Kg		103	74 - 127	10	20
1,2-Dichloropropane	2500	2810		ug/Kg		112	80 - 120	12	20
1,3-Dichlorobenzene	2500	2760		ug/Kg		110	80 - 120	12	20
1,4-Dichlorobenzene	2500	2770		ug/Kg		111	80 - 120	14	20
2-Butanone (MEK)	12500	10000		ug/Kg		80	54 - 149	12	20
2-Hexanone	12500	9210		ug/Kg		74	59 - 127	13	20
4-Methyl-2-pentanone (MIBK)	12500	10500		ug/Kg		84	74 - 120	11	20
Acetone	12500	11600	*	ug/Kg		93	47 - 141	23	20
Benzene	2500	2850		ug/Kg		114	77 - 125	9	20
Bromodichloromethane	2500	2750		ug/Kg		110	71 - 121	10	20
Bromoform	2500	2500	*	ug/Kg		100	48 - 125	21	20
Bromomethane	2500	1450	*	ug/Kg		58	39 - 149	22	20
Carbon disulfide	2500	2530		ug/Kg		101	40 - 136	3	20
Carbon tetrachloride	2500	3170		ug/Kg		127	54 - 135	12	20
Chlorobenzene	2500	2810		ug/Kg		112	76 - 126	15	20
Chloroethane	2500	1130	*	ug/Kg		45	23 - 150	23	20
Chloroform	2500	2800		ug/Kg		112	78 - 120	12	20
Chloromethane	2500	1930		ug/Kg		77	61 - 124	17	20
cis-1,2-Dichloroethene	2500	2810		ug/Kg		112	79 - 124	4	20
cis-1,3-Dichloropropene	2500	2620		ug/Kg		105	75 - 121	12	20
Cyclohexane	2500	3060		ug/Kg		122	49 - 129	11	20
Dibromochloromethane	2500	2710		ug/Kg		109	64 - 120	20	20
Dichlorodifluoromethane	2500	2630		ug/Kg		105	10 - 150	13	20
Ethylbenzene	2500	2790		ug/Kg		112	78 - 124	14	20
Isopropylbenzene	2500	2930		ug/Kg		117	76 - 120	14	20
Methyl acetate	12500	9920		ug/Kg		79	71 - 123	10	20
Methyl tert-butyl ether	2500	2500		ug/Kg		100	67 - 137	8	20
Methylcyclohexane	2500	3270	*	ug/Kg		131	50 - 130	6	20
Methylene Chloride	2500	2520	B	ug/Kg		101	75 - 118	5	20
Styrene	2500	2620		ug/Kg		105	80 - 120	11	20
Tetrachloroethene	2500	3100		ug/Kg		124	73 - 133	10	20
Toluene	2500	2790		ug/Kg		112	75 - 124	15	20
trans-1,2-Dichloroethene	2500	2740		ug/Kg		109	74 - 129	4	20
trans-1,3-Dichloropropene	2500	2550		ug/Kg		102	73 - 120	10	20
Trichloroethene	2500	3100		ug/Kg		124	75 - 131	11	20
Trichlorofluoromethane	2500	2320		ug/Kg		93	29 - 158	16	20
Vinyl chloride	2500	2150		ug/Kg		86	59 - 124	17	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-376018/2-A
Matrix: Solid
Analysis Batch: 377499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376018

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*53 - 146*
4-Bromofluorobenzene (Surr)	*97*		*49 - 148*
Dibromofluoromethane (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*99*		*50 - 149*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-376395/1-A
Matrix: Solid
Analysis Batch: 376571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2-Chlorophenol	ND		170	31	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2-Methylphenol	ND		170	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2-Nitroaniline	ND		330	25	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
2-Nitrophenol	ND		170	47	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
3-Nitroaniline	ND		330	46	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
4-Chloroaniline	ND		170	41	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
4-Methylphenol	ND		330	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
4-Nitroaniline	ND		330	88	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
4-Nitrophenol	ND		330	120	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Acenaphthene	ND		170	25	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Acenaphthylene	ND		170	22	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Acetophenone	ND		170	23	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Anthracene	ND		170	41	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Atrazine	ND		170	58	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Benzaldehyde	ND		170	130	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/12/17 14:41	09/13/17 14:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-376395/1-A
Matrix: Solid
Analysis Batch: 376571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Caprolactam	ND		170	50	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Carbazole	ND		170	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Chrysene	ND		170	38	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Dibenzofuran	ND		170	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Diethyl phthalate	ND		170	22	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Fluoranthene	ND		170	18	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Fluorene	ND		170	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Hexachloroethane	ND		170	22	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Isophorone	ND		170	36	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Naphthalene	ND		170	22	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Nitrobenzene	ND		170	19	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Pentachlorophenol	ND		330	170	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Phenanthrene	ND		170	25	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Phenol	ND		170	26	ug/Kg		09/12/17 14:41	09/13/17 14:35	1
Pyrene	ND		170	20	ug/Kg		09/12/17 14:41	09/13/17 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*54 - 120*	*09/12/17 14:41*	*09/13/17 14:35*	*1*
2-Fluorobiphenyl	*86*		*60 - 120*	*09/12/17 14:41*	*09/13/17 14:35*	*1*
2-Fluorophenol	*74*		*52 - 120*	*09/12/17 14:41*	*09/13/17 14:35*	*1*
Nitrobenzene-d5	*73*		*53 - 120*	*09/12/17 14:41*	*09/13/17 14:35*	*1*
p-Terphenyl-d14	*87*		*65 - 121*	*09/12/17 14:41*	*09/13/17 14:35*	*1*
Phenol-d5	*74*		*54 - 120*	*09/12/17 14:41*	*09/13/17 14:35*	*1*

Lab Sample ID: LCS 480-376395/2-A
Matrix: Solid
Analysis Batch: 376571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1640	1520		ug/Kg		93	59 - 120
bis (2-chloroisopropyl) ether	1640	1360		ug/Kg		83	44 - 120
2,4,5-Trichlorophenol	1640	1420		ug/Kg		86	59 - 126
2,4,6-Trichlorophenol	1640	1380		ug/Kg		84	59 - 123
2,4-Dichlorophenol	1640	1270		ug/Kg		77	61 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376395/2-A
Matrix: Solid
Analysis Batch: 376571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	1640	1390		ug/Kg		85	59 - 120
2,4-Dinitrophenol	3280	2980		ug/Kg		91	41 - 146
2,4-Dinitrotoluene	1640	1370		ug/Kg		84	63 - 120
2,6-Dinitrotoluene	1640	1410		ug/Kg		86	66 - 120
2-Chloronaphthalene	1640	1350		ug/Kg		82	57 - 120
2-Chlorophenol	1640	1110		ug/Kg		68	53 - 120
2-Methylnaphthalene	1640	1280		ug/Kg		78	59 - 120
2-Methylphenol	1640	1240		ug/Kg		76	54 - 120
2-Nitroaniline	1640	1620		ug/Kg		99	61 - 120
2-Nitrophenol	1640	1300		ug/Kg		80	56 - 120
3,3'-Dichlorobenzidine	3280	2500		ug/Kg		76	54 - 120
3-Nitroaniline	1640	1320		ug/Kg		81	48 - 120
4,6-Dinitro-2-methylphenol	3280	2570		ug/Kg		78	49 - 122
4-Bromophenyl phenyl ether	1640	1380		ug/Kg		84	58 - 120
4-Chloro-3-methylphenol	1640	1380		ug/Kg		84	61 - 120
4-Chloroaniline	1640	1140		ug/Kg		69	38 - 120
4-Chlorophenyl phenyl ether	1640	1610		ug/Kg		98	63 - 124
4-Methylphenol	1640	1230		ug/Kg		75	55 - 120
4-Nitroaniline	1640	1450		ug/Kg		88	56 - 120
4-Nitrophenol	3280	2980		ug/Kg		91	43 - 147
Acenaphthene	1640	1510		ug/Kg		92	62 - 120
Acenaphthylene	1640	1530		ug/Kg		93	58 - 121
Acetophenone	1640	1220		ug/Kg		74	54 - 120
Anthracene	1640	1360		ug/Kg		83	62 - 120
Atrazine	3280	3160		ug/Kg		96	60 - 127
Benzaldehyde	3280	1470		ug/Kg		45	10 - 150
Benzo[a]anthracene	1640	1490		ug/Kg		91	65 - 120
Benzo[a]pyrene	1640	1620		ug/Kg		99	64 - 120
Benzo[b]fluoranthene	1640	1680		ug/Kg		103	64 - 120
Benzo[g,h,i]perylene	1640	1420		ug/Kg		87	45 - 145
Benzo[k]fluoranthene	1640	1650		ug/Kg		101	65 - 120
Bis(2-chloroethoxy)methane	1640	1420		ug/Kg		86	55 - 120
Bis(2-chloroethyl)ether	1640	1260		ug/Kg		77	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1560		ug/Kg		95	61 - 133
Butyl benzyl phthalate	1640	1530		ug/Kg		93	61 - 129
Caprolactam	3280	2740		ug/Kg		84	47 - 120
Carbazole	1640	1400		ug/Kg		85	65 - 120
Chrysene	1640	1470		ug/Kg		90	64 - 120
Di-n-butyl phthalate	1640	1450		ug/Kg		88	58 - 130
Di-n-octyl phthalate	1640	1570		ug/Kg		96	57 - 133
Dibenz(a,h)anthracene	1640	1360		ug/Kg		83	54 - 132
Dibenzofuran	1640	1500		ug/Kg		92	63 - 120
Diethyl phthalate	1640	1610		ug/Kg		98	66 - 120
Dimethyl phthalate	1640	1440		ug/Kg		88	65 - 124
Fluoranthene	1640	1490		ug/Kg		91	62 - 120
Fluorene	1640	1530		ug/Kg		93	63 - 120
Hexachlorobenzene	1640	1240		ug/Kg		76	60 - 120
Hexachlorobutadiene	1640	1340		ug/Kg		82	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376395/2-A
Matrix: Solid
Analysis Batch: 376571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	1640	1430		ug/Kg		87	47 - 120
Hexachloroethane	1640	1020		ug/Kg		62	41 - 120
Indeno[1,2,3-cd]pyrene	1640	1380		ug/Kg		84	56 - 134
Isophorone	1640	1440		ug/Kg		88	56 - 120
N-Nitrosodi-n-propylamine	1640	1250		ug/Kg		76	52 - 120
Naphthalene	1640	1310		ug/Kg		80	55 - 120
Nitrobenzene	1640	1400		ug/Kg		85	54 - 120
Pentachlorophenol	3280	2440		ug/Kg		74	51 - 120
Phenanthrene	1640	1360		ug/Kg		83	60 - 120
Phenol	1640	1280		ug/Kg		78	53 - 120
Pyrene	1640	1580		ug/Kg		97	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*72*		*54 - 120*
2-Fluorobiphenyl	*86*		*60 - 120*
2-Fluorophenol	*73*		*52 - 120*
Nitrobenzene-d5	*82*		*53 - 120*
p-Terphenyl-d14	*86*		*65 - 121*
Phenol-d5	*72*		*54 - 120*

Lab Sample ID: MB 480-376529/1-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		09/13/17 10:21	09/14/17 15:59	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1
Pyridine	ND		0.0063	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		09/13/17 10:21	09/14/17 15:59	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		09/13/17 10:21	09/14/17 15:59	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		09/13/17 10:21	09/14/17 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*41 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
2-Fluorobiphenyl	*79*		*48 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
2-Fluorophenol	*44*		*35 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
Nitrobenzene-d5	*76*		*46 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
p-Terphenyl-d14	*102*		*59 - 136*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
Phenol-d5	*30*		*22 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376529/2-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376529

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			0.0500	0.0310		mg/L		62	51 - 120		
2,4,5-Trichlorophenol			0.0500	0.0511		mg/L		102	65 - 126		
2,4,6-Trichlorophenol			0.0500	0.0482		mg/L		96	64 - 120		
2,4-Dinitrotoluene			0.0500	0.0526		mg/L		105	69 - 120		
3-Methylphenol			0.0500	0.0357		mg/L		71	39 - 120		
2-Methylphenol			0.0500	0.0361		mg/L		72	39 - 120		
Pyridine			0.100	0.0327		mg/L		33	10 - 120		
4-Methylphenol			0.0500	0.0357		mg/L		71	29 - 131		
Hexachlorobenzene			0.0500	0.0477		mg/L		95	61 - 120		
Hexachlorobutadiene			0.0500	0.0302		mg/L		60	35 - 120		
Hexachloroethane			0.0500	0.0252		mg/L		50	43 - 120		
Nitrobenzene			0.0500	0.0405		mg/L		81	53 - 123		
Pentachlorophenol			0.100	0.0862		mg/L		86	29 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*41 - 120*
2-Fluorobiphenyl	*82*		*48 - 120*
2-Fluorophenol	*44*		*35 - 120*
Nitrobenzene-d5	*78*		*46 - 120*
p-Terphenyl-d14	*99*		*59 - 136*
Phenol-d5	*35*		*22 - 120*

Lab Sample ID: LCSD 480-376529/3-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376529

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0288		mg/L		58	51 - 120	7	36
2,4,5-Trichlorophenol			0.0500	0.0484		mg/L		97	65 - 126	5	18
2,4,6-Trichlorophenol			0.0500	0.0471		mg/L		94	64 - 120	2	19
2,4-Dinitrotoluene			0.0500	0.0514		mg/L		103	69 - 120	2	20
3-Methylphenol			0.0500	0.0338		mg/L		68	39 - 120	5	30
2-Methylphenol			0.0500	0.0356		mg/L		71	39 - 120	1	27
Pyridine			0.100	0.0332		mg/L		33	10 - 120	2	49
4-Methylphenol			0.0500	0.0338		mg/L		68	29 - 131	5	24
Hexachlorobenzene			0.0500	0.0474		mg/L		95	61 - 120	1	15
Hexachlorobutadiene			0.0500	0.0297		mg/L		59	35 - 120	2	44
Hexachloroethane			0.0500	0.0237		mg/L		47	43 - 120	6	46
Nitrobenzene			0.0500	0.0394		mg/L		79	53 - 123	3	24
Pentachlorophenol			0.100	0.0825		mg/L		82	29 - 136	4	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*41 - 120*
2-Fluorobiphenyl	*80*		*48 - 120*
2-Fluorophenol	*42*		*35 - 120*
Nitrobenzene-d5	*81*		*46 - 120*
p-Terphenyl-d14	*90*		*59 - 136*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-376529/3-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376529

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5	*33*		*22 - 120*

Lab Sample ID: LB 480-376306/1-D
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376529

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/13/17 10:21	09/14/17 17:18	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/13/17 10:21	09/14/17 17:18	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/13/17 10:21	09/14/17 17:18	1
Pyridine	ND		0.025	0.00041	mg/L		09/13/17 10:21	09/14/17 17:18	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/13/17 10:21	09/14/17 17:18	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/13/17 10:21	09/14/17 17:18	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/13/17 10:21	09/14/17 17:18	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*41 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
2-Fluorobiphenyl	*80*		*48 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
2-Fluorophenol	*43*		*35 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
Nitrobenzene-d5	*79*		*46 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
p-Terphenyl-d14	*106*		*59 - 136*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
Phenol-d5	*30*		*22 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 480-376466/1-A
Matrix: Solid
Analysis Batch: 376458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.591	J	1.3	0.33	mg/Kg		09/12/17 21:08	09/12/17 22:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*46 - 156*	*09/12/17 21:08*	*09/12/17 22:01*	*1*

Lab Sample ID: LCS 480-376466/2-A
Matrix: Solid
Analysis Batch: 376458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C6-C10)	10.0	9.69		mg/Kg		97	64 - 129

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 480-376466/2-A
Matrix: Solid
Analysis Batch: 376458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376466

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	*82*		*46 - 156*

Lab Sample ID: LCSD 480-376466/3-A
Matrix: Solid
Analysis Batch: 376458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376466

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)			10.0	9.59		mg/Kg		96	64 - 129	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	*82*		*46 - 156*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-375679/1-A
Matrix: Solid
Analysis Batch: 376537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		09/07/17 14:23	09/13/17 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*85*		*48 - 125*	*09/07/17 14:23*	*09/13/17 21:22*	*1*

Lab Sample ID: LCS 480-375679/2-A
Matrix: Solid
Analysis Batch: 376537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375679

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			49.6	43.5		mg/Kg		88	63 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	*84*		*48 - 125*

Lab Sample ID: LCSD 480-375679/3-A
Matrix: Solid
Analysis Batch: 376537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375679

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			49.1	46.0		mg/Kg		94	63 - 127	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	*85*		*48 - 125*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-376625/1-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		09/13/17 14:15	09/15/17 12:45	1
Endrin	ND		0.000050	0.0000035	mg/L		09/13/17 14:15	09/15/17 12:45	1
gamma-BHC (Lindane)	0.0000131	J	0.000050	0.0000015	mg/L		09/13/17 14:15	09/15/17 12:45	1
Heptachlor	ND		0.000050	0.0000021	mg/L		09/13/17 14:15	09/15/17 12:45	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		09/13/17 14:15	09/15/17 12:45	1
Methoxychlor	ND		0.000050	0.0000035	mg/L		09/13/17 14:15	09/15/17 12:45	1
Toxaphene	ND		0.00050	0.000030	mg/L		09/13/17 14:15	09/15/17 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*
DCB Decachlorobiphenyl	*67*		*20 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*
Tetrachloro-m-xylene	*95*		*44 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*
Tetrachloro-m-xylene	*74*		*44 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*

Lab Sample ID: LCS 480-376625/2-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000545		mg/L		109	65 - 135
gamma-BHC (Lindane)	0.000500	0.000402		mg/L		80	56 - 120
Heptachlor	0.000500	0.000442		mg/L		88	58 - 120
Heptachlor epoxide	0.000500	0.000499		mg/L		100	65 - 125
Methoxychlor	0.000500	0.000581		mg/L		116	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*20 - 120*
DCB Decachlorobiphenyl	*61*		*20 - 120*
Tetrachloro-m-xylene	*90*		*44 - 120*
Tetrachloro-m-xylene	*71*		*44 - 120*

Lab Sample ID: LCSD 480-376625/3-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000578		mg/L		116	65 - 135	6	24
gamma-BHC (Lindane)	0.000500	0.000425		mg/L		85	56 - 120	6	24
Heptachlor	0.000500	0.000479		mg/L		96	58 - 120	8	25
Heptachlor epoxide	0.000500	0.000525		mg/L		105	65 - 125	5	23
Methoxychlor	0.000500	0.000607		mg/L		121	50 - 150	4	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*20 - 120*
DCB Decachlorobiphenyl	*63*		*20 - 120*
Tetrachloro-m-xylene	*102*		*44 - 120*
Tetrachloro-m-xylene	*77*		*44 - 120*

Lab Sample ID: LB 480-376306/1-F
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376625

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/13/17 14:15	09/15/17 13:44	1
Endrin	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 13:44	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/13/17 14:15	09/15/17 13:44	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/13/17 14:15	09/15/17 13:44	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/13/17 14:15	09/15/17 13:44	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 13:44	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/13/17 14:15	09/15/17 13:44	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*20 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
DCB Decachlorobiphenyl	*72*		*20 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
Tetrachloro-m-xylene	*94*		*44 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
Tetrachloro-m-xylene	*72*		*44 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-375883/1-A
Matrix: Solid
Analysis Batch: 376144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1221	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1232	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1242	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1248	ND		0.23	0.044	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1254	ND		0.23	0.11	mg/Kg		09/08/17 11:22	09/11/17 15:08	1
PCB-1260	ND		0.23	0.11	mg/Kg		09/08/17 11:22	09/11/17 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*65 - 174*	*09/08/17 11:22*	*09/11/17 15:08*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*09/08/17 11:22*	*09/11/17 15:08*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*09/08/17 11:22*	*09/11/17 15:08*	*1*
Tetrachloro-m-xylene	*112*		*60 - 154*	*09/08/17 11:22*	*09/11/17 15:08*	*1*

Lab Sample ID: LCS 480-375883/2-A
Matrix: Solid
Analysis Batch: 376144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.49	2.87		mg/Kg		115	51 - 185
PCB-1260	2.49	2.92		mg/Kg		117	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*100*		*65 - 174*
DCB Decachlorobiphenyl	*120*		*65 - 174*
Tetrachloro-m-xylene	*112*		*60 - 154*
Tetrachloro-m-xylene	*111*		*60 - 154*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-376626/1-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		09/13/17 14:22	09/14/17 22:17	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		09/13/17 14:22	09/14/17 22:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*36*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 22:17*	*1*
2,4-Dichlorophenylacetic acid	*40*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 22:17*	*1*

Lab Sample ID: LCS 480-376626/2-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376626

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.00200	0.00168		mg/L		84	36 - 150		
Silvex (2,4,5-TP)			0.00200	0.00124		mg/L		62	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*48*		*48 - 132*
2,4-Dichlorophenylacetic acid	*51*		*48 - 132*

Lab Sample ID: LCSD 480-376626/3-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376626

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.00200	0.00143		mg/L		72	36 - 150	16	50
Silvex (2,4,5-TP)			0.00200	0.000991		mg/L		50	49 - 150	22	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*40*	*X*	*48 - 132*
2,4-Dichlorophenylacetic acid	*55*		*48 - 132*

Lab Sample ID: LB 480-376306/1-G
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376626

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/13/17 14:22	09/14/17 23:46	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/13/17 14:22	09/14/17 23:46	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*18*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 23:46*	*1*
2,4-Dichlorophenylacetic acid	*20*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 23:46*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-375625/1-A
Matrix: Solid
Analysis Batch: 376077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.9	4.4	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Antimony	ND		14.8	0.40	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Arsenic	ND		2.0	0.40	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Barium	ND		0.49	0.11	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Beryllium	ND		0.20	0.028	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Cadmium	ND		0.20	0.030	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Calcium	3.52	J	49.5	3.3	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Chromium	0.851		0.49	0.20	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Cobalt	ND		0.49	0.049	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Copper	ND		0.99	0.21	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Iron	3.90	J	9.9	3.5	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Lead	ND		0.99	0.24	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Magnesium	ND		19.8	0.92	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Manganese	0.0475	J	0.20	0.032	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Nickel	ND		4.9	0.23	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Potassium	ND		29.7	19.8	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Selenium	ND		4.0	0.40	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Silver	ND		0.59	0.20	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Sodium	ND		139	12.9	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Thallium	ND		5.9	0.30	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Vanadium	ND		0.49	0.11	mg/Kg		09/07/17 13:42	09/08/17 11:48	1
Zinc	ND		2.0	0.63	mg/Kg		09/07/17 13:42	09/08/17 11:48	1

Lab Sample ID: LCDSRM 480-375625/3-A
Matrix: Solid
Analysis Batch: 376077

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375625

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	8090	8913		mg/Kg		110.2	39.6 - 160.7	2	20
Antimony	99.3	61.84		mg/Kg		62.3	21.6 - 256.8	7	20
Arsenic	100	86.71		mg/Kg		86.7	69.6 - 131.0	0	20
Barium	217	185.0		mg/Kg		85.2	73.7 - 128.1	1	20
Beryllium	147	125.6		mg/Kg		85.4	75.5 - 125.9	1	20
Cadmium	83.7	71.39		mg/Kg		85.3	73.2 - 131.4	0	20
Calcium	6010	5198		mg/Kg		86.5	73.7 - 126.3	3	20
Chromium	107	94.42		mg/Kg		88.2	69.4 - 134.6	2	20
Cobalt	123	124.6		mg/Kg		101.3	74.3 - 130.1	2	20
Copper	166	141.0		mg/Kg		85.0	75.3 - 128.3	0	20
Iron	14600	15160		mg/Kg		103.8	36.1 - 163.7	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCDSRM 480-375625/3-A
Matrix: Solid
Analysis Batch: 376077

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375625

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	88.4	87.95		mg/Kg		99.5	69.9 - 130.1	2	20
Magnesium	2930	2705		mg/Kg		92.3	65.9 - 134.5	1	20
Manganese	311	293.1		mg/Kg		94.2	74.9 - 125.4	3	20
Nickel	49.8	51.06		mg/Kg		102.5	69.1 - 135.1	2	20
Potassium	2620	2666		mg/Kg		101.7	61.1 - 138.9	3	20
Selenium	87.7	76.94		mg/Kg		87.7	64.1 - 135.7	1	20
Silver	41.4	34.53		mg/Kg		83.4	65.9 - 133.8	1	20
Sodium	252	233.9		mg/Kg		92.8	32.9 - 167.5	2	20
Thallium	58.1	59.17		mg/Kg		101.8	63.9 - 136.3	2	20
Vanadium	140	128.3		mg/Kg		91.7	69.9 - 129.3	2	20
Zinc	145	128.4		mg/Kg		88.5	67.7 - 132.4	1	20

Lab Sample ID: LCSSRM 480-375625/2-A
Matrix: Solid
Analysis Batch: 376077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375625

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	8711		mg/Kg		107.7	39.6 - 160.7
Antimony	99.3	66.48		mg/Kg		66.9	21.6 - 256.8
Arsenic	100	86.94		mg/Kg		86.9	69.6 - 131.0
Barium	217	183.8		mg/Kg		84.7	73.7 - 128.1
Beryllium	147	127.5		mg/Kg		86.7	75.5 - 125.9
Cadmium	83.7	71.17		mg/Kg		85.0	73.2 - 131.4
Calcium	6010	5336		mg/Kg		88.8	73.7 - 126.3
Chromium	107	96.63		mg/Kg		90.3	69.4 - 134.6
Cobalt	123	127.6		mg/Kg		103.7	74.3 - 130.1
Copper	166	140.7		mg/Kg		84.7	75.3 - 128.3
Iron	14600	14920		mg/Kg		102.2	36.1 - 163.7
Lead	88.4	89.53		mg/Kg		101.3	69.9 - 130.1
Magnesium	2930	2673		mg/Kg		91.2	65.9 - 134.5

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-375625/2-A
Matrix: Solid
Analysis Batch: 376077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375625

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	311	285.6		mg/Kg		91.8	74.9 - 125.4
Nickel	49.8	51.85		mg/Kg		104.1	69.1 - 135.1
Potassium	2620	2584		mg/Kg		98.6	61.1 - 138.9
Selenium	87.7	77.65		mg/Kg		88.5	64.1 - 135.7
Silver	41.4	34.80		mg/Kg		84.1	65.9 - 133.8
Sodium	252	239.3		mg/Kg		95.0	32.9 - 167.5
Thallium	58.1	60.59		mg/Kg		104.3	63.9 - 136.3
Vanadium	140	130.7		mg/Kg		93.4	69.9 - 129.3
Zinc	145	129.5		mg/Kg		89.3	67.7 - 132.4

Lab Sample ID: MB 480-376521/2-A
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 19:07	1
Barium	ND		1.0	0.10	mg/L		09/13/17 10:04	09/13/17 19:07	1
Cadmium	ND		0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 19:07	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 19:07	1
Lead	ND		0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 19:07	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 19:07	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 19:07	1

Lab Sample ID: LCS 480-376521/3-A
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.06		mg/L		106	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Cadmium	1.00	1.06		mg/L		106	80 - 120
Chromium	1.00	1.02		mg/L		102	80 - 120
Lead	1.00	1.04		mg/L		104	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Silver	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: MB 490-458841/1-A
Matrix: Solid
Analysis Batch: 458911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 458841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	ND		0.0048	0.0025	%		09/09/17 18:40	09/10/17 20:48	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 490-458841/2-A
Matrix: Solid
Analysis Batch: 458911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 458841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfur	0.0952	0.0931		%		98	80 - 120

Lab Sample ID: LB 480-376306/1-C
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376521

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 18:52	1
Barium	ND		1.0	0.10	mg/L		09/13/17 10:04	09/13/17 18:52	1
Cadmium	ND		0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 18:52	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 18:52	1
Lead	ND		0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 18:52	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 18:52	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 18:52	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-376569/2-A
Matrix: Solid
Analysis Batch: 376699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 17:55	1

Lab Sample ID: LCS 480-376569/3-A
Matrix: Solid
Analysis Batch: 376699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00590		mg/L		88	80 - 120

Lab Sample ID: LB 480-376306/1-E
Matrix: Solid
Analysis Batch: 376699

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376569

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 17:53	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-376139/1-A
Matrix: Solid
Analysis Batch: 376213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0082	mg/Kg		09/11/17 14:05	09/11/17 15:51	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCDSRM 480-376139/3-A ^10
Matrix: Solid
Analysis Batch: 376213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376139

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			12.6	10.02		mg/Kg		79.6	44.4 - 128.6	5	20

Lab Sample ID: LCSSRM 480-376139/2-A ^10
Matrix: Solid
Analysis Batch: 376213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376139

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury			12.6	10.54		mg/Kg		83.6	44.4 - 128.6

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-377440/1
Matrix: Solid
Analysis Batch: 377440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint			81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-376011/1-A
Matrix: Solid
Analysis Batch: 376143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		09/10/17 10:00	09/11/17 10:11	1

Lab Sample ID: LCS 480-376011/2-A
Matrix: Solid
Analysis Batch: 376143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376011

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive			1000	ND		mg/Kg		20	10 - 100

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-375856/1-A
Matrix: Solid
Analysis Batch: 375947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.92	0.45	mg/Kg		09/08/17 11:40	09/08/17 15:53	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-375856/2-A
Matrix: Solid
Analysis Batch: 375947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375856

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			22.0	18.23		mg/Kg		83	29 - 122		

Lab Sample ID: LCSD 480-375856/3-A
Matrix: Solid
Analysis Batch: 375947

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375856

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total			24.1	22.04	*	mg/Kg		92	29 - 122	19	15

Lab Sample ID: 480-123714-2 MS
Matrix: Solid
Analysis Batch: 375947

Client Sample ID: WC-11 (11'-19.3')
Prep Type: Total/NA
Prep Batch: 375856

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	1.8	*	11.7	11.80		mg/Kg	☼	86	85 - 115		

Lab Sample ID: 480-123714-2 DU
Matrix: Solid
Analysis Batch: 375947

Client Sample ID: WC-11 (11'-19.3')
Prep Type: Total/NA
Prep Batch: 375856

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	1.8	*		1.53	*	mg/Kg	☼			15	15

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-376012/1-A
Matrix: Solid
Analysis Batch: 376155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		09/10/17 10:00	09/11/17 12:00	1

Lab Sample ID: LCS 480-376012/2-A
Matrix: Solid
Analysis Batch: 376155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376012

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide, Reactive			860	761.4		mg/Kg		89	10 - 100		

Method: 9045D - pH

Lab Sample ID: LCS 480-376226/23
Matrix: Solid
Analysis Batch: 376226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Method: 9095B - Paint Filter

Lab Sample ID: 480-123714-1 DU
Matrix: Solid
Analysis Batch: 375722

Client Sample ID: WC-11 (0.5'-11')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Free Liquid	Passed			Passed		mL/100g				NC	

Method: D240-87 - Heat of Combustion

Lab Sample ID: LCS 680-495627/1-A
Matrix: Solid
Analysis Batch: 495701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495627

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
BTU			5740	5109		BTU/lb		89	70 - 130		

Lab Sample ID: LCSD 680-495627/5-A
Matrix: Solid
Analysis Batch: 495701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 495627

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
BTU			5740	5296		BTU/lb		92	70 - 130	4	30

GC/MS VOA

Prep Batch: 376018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123778-1	WC-11 (11-19.3)	Total/NA	Solid	5035A_H	
MB 480-376018/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-376018/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-376018/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Leach Batch: 376319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	1311	
LB 480-376319/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 376688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	8260C	376319
LB 480-376319/1-A	Method Blank	TCLP	Solid	8260C	376319
MB 480-376688/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-376688/4	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 377499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123778-1	WC-11 (11-19.3)	Total/NA	Solid	8260C	376018
MB 480-376018/3-A	Method Blank	Total/NA	Solid	8260C	376018
LCS 480-376018/1-A	Lab Control Sample	Total/NA	Solid	8260C	376018
LCSD 480-376018/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	376018

GC/MS Semi VOA

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	1311	
LB 480-376306/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 376395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	3550C	
MB 480-376395/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-376395/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 376529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	3510C	376306
LB 480-376306/1-D	Method Blank	TCLP	Solid	3510C	376306
MB 480-376529/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-376529/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-376529/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 376571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	8270D	376395
MB 480-376395/1-A	Method Blank	Total/NA	Solid	8270D	376395
LCS 480-376395/2-A	Lab Control Sample	Total/NA	Solid	8270D	376395

GC/MS Semi VOA (Continued)

Analysis Batch: 376846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	8270D	376529
LB 480-376306/1-D	Method Blank	TCLP	Solid	8270D	376529
MB 480-376529/1-A	Method Blank	Total/NA	Solid	8270D	376529
LCS 480-376529/2-A	Lab Control Sample	Total/NA	Solid	8270D	376529
LCSD 480-376529/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	376529

GC VOA

Analysis Batch: 376458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	8015D	376466
MB 480-376466/1-A	Method Blank	Total/NA	Solid	8015D	376466
LCS 480-376466/2-A	Lab Control Sample	Total/NA	Solid	8015D	376466
LCSD 480-376466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	376466

Prep Batch: 376466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	5035A_H	
MB 480-376466/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-376466/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-376466/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

GC Semi VOA

Prep Batch: 375679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	3550C	
MB 480-375679/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-375679/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-375679/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Prep Batch: 375883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	3550C	
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	3550C	
MB 480-375883/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-375883/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 376144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	8082A	375883
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	8082A	375883
MB 480-375883/1-A	Method Blank	Total/NA	Solid	8082A	375883
LCS 480-375883/2-A	Lab Control Sample	Total/NA	Solid	8082A	375883

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	1311	
LB 480-376306/1-F	Method Blank	TCLP	Solid	1311	
LB 480-376306/1-G	Method Blank	TCLP	Solid	1311	

GC Semi VOA (Continued)

Analysis Batch: 376537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-375679/1-A	Method Blank	Total/NA	Solid	8015D	375679
LCS 480-375679/2-A	Lab Control Sample	Total/NA	Solid	8015D	375679
LCSD 480-375679/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	375679

Prep Batch: 376625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	3510C	376306
LB 480-376306/1-F	Method Blank	TCLP	Solid	3510C	376306
MB 480-376625/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-376625/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-376625/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Prep Batch: 376626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	8151A	376306
LB 480-376306/1-G	Method Blank	TCLP	Solid	8151A	376306
MB 480-376626/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-376626/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-376626/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 376893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	8151	376626
LB 480-376306/1-G	Method Blank	TCLP	Solid	8151	376626
MB 480-376626/1-A	Method Blank	Total/NA	Solid	8151	376626
LCS 480-376626/2-A	Lab Control Sample	Total/NA	Solid	8151	376626
LCSD 480-376626/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	376626

Analysis Batch: 377016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	8081B	376625
LB 480-376306/1-F	Method Blank	TCLP	Solid	8081B	376625
MB 480-376625/1-A	Method Blank	Total/NA	Solid	8081B	376625
LCS 480-376625/2-A	Lab Control Sample	Total/NA	Solid	8081B	376625
LCSD 480-376625/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	376625

Analysis Batch: 377095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	8015D	375679

Metals

Prep Batch: 375625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	3050B	
MB 480-375625/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-375625/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-375625/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 376077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	6010C	375625
MB 480-375625/1-A	Method Blank	Total/NA	Solid	6010C	375625
LCDSRM 480-375625/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	375625
LCSSRM 480-375625/2-A	Lab Control Sample	Total/NA	Solid	6010C	375625

Prep Batch: 376139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	7471B	
MB 480-376139/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-376139/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-376139/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 376213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	7471B	376139
MB 480-376139/1-A	Method Blank	Total/NA	Solid	7471B	376139
LCDSRM 480-376139/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	376139
LCSSRM 480-376139/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	376139

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	1311	
LB 480-376306/1-C	Method Blank	TCLP	Solid	1311	
LB 480-376306/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 376521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	3010A	376306
LB 480-376306/1-C	Method Blank	TCLP	Solid	3010A	376306
MB 480-376521/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-376521/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 376569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	7470A	376306
LB 480-376306/1-E	Method Blank	TCLP	Solid	7470A	376306
MB 480-376569/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-376569/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 376699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	7470A	376569
LB 480-376306/1-E	Method Blank	TCLP	Solid	7470A	376569
MB 480-376569/2-A	Method Blank	Total/NA	Solid	7470A	376569
LCS 480-376569/3-A	Lab Control Sample	Total/NA	Solid	7470A	376569

Analysis Batch: 376766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	TCLP	Solid	6010C	376521
LB 480-376306/1-C	Method Blank	TCLP	Solid	6010C	376521
MB 480-376521/2-A	Method Blank	Total/NA	Solid	6010C	376521

Metals (Continued)

Analysis Batch: 376766 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-376521/3-A	Lab Control Sample	Total/NA	Solid	6010C	376521

Prep Batch: 458841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	3051A	
MB 490-458841/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-458841/2-A	Lab Control Sample	Total/NA	Solid	3051A	

Analysis Batch: 458911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	6010C	458841
MB 490-458841/1-A	Method Blank	Total/NA	Solid	6010C	458841
LCS 490-458841/2-A	Lab Control Sample	Total/NA	Solid	6010C	458841

General Chemistry

Analysis Batch: 375722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	9095B	
480-123714-1 DU	WC-11 (0.5'-11')	Total/NA	Solid	9095B	

Analysis Batch: 375817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	Moisture	
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	Moisture	
480-123778-1	WC-11 (11-19.3)	Total/NA	Solid	Moisture	

Prep Batch: 375856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	9012B	
MB 480-375856/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-375856/2-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSD 480-375856/3-A	Lab Control Sample Dup	Total/NA	Solid	9012B	
480-123714-2 MS	WC-11 (11'-19.3')	Total/NA	Solid	9012B	
480-123714-2 DU	WC-11 (11'-19.3')	Total/NA	Solid	9012B	

Analysis Batch: 375947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	9012B	375856
MB 480-375856/1-A	Method Blank	Total/NA	Solid	9012B	375856
LCS 480-375856/2-A	Lab Control Sample	Total/NA	Solid	9012B	375856
LCSD 480-375856/3-A	Lab Control Sample Dup	Total/NA	Solid	9012B	375856
480-123714-2 MS	WC-11 (11'-19.3')	Total/NA	Solid	9012B	375856
480-123714-2 DU	WC-11 (11'-19.3')	Total/NA	Solid	9012B	375856

Prep Batch: 376011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	7.3.3	
MB 480-376011/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-376011/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

General Chemistry (Continued)

Prep Batch: 376012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	7.3.4	
MB 480-376012/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-376012/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 376143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	9012	376011
MB 480-376011/1-A	Method Blank	Total/NA	Solid	9012	376011
LCS 480-376011/2-A	Lab Control Sample	Total/NA	Solid	9012	376011

Analysis Batch: 376155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	9034	376012
MB 480-376012/1-A	Method Blank	Total/NA	Solid	9034	376012
LCS 480-376012/2-A	Lab Control Sample	Total/NA	Solid	9034	376012

Analysis Batch: 376226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	9045D	
LCS 480-376226/23	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 377440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-1	WC-11 (0.5'-11')	Total/NA	Solid	1010A	
LCS 480-377440/1	Lab Control Sample	Total/NA	Solid	1010A	

Prep Batch: 495627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	D240-87	
LCS 680-495627/1-A	Lab Control Sample	Total/NA	Solid	D240-87	
LCSD 680-495627/5-A	Lab Control Sample Dup	Total/NA	Solid	D240-87	

Analysis Batch: 495701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123714-2	WC-11 (11'-19.3')	Total/NA	Solid	D240-87	495627
LCS 680-495627/1-A	Lab Control Sample	Total/NA	Solid	D240-87	495627
LCSD 680-495627/5-A	Lab Control Sample Dup	Total/NA	Solid	D240-87	495627

Client Sample ID: WC-11 (0.5'-11')

Lab Sample ID: 480-123714-1

Date Collected: 09/06/17 09:40

Matrix: Solid

Date Received: 09/07/17 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			376319	09/12/17 10:07	NMC	TAL BUF
TCLP	Analysis	8260C		10	376688	09/13/17 22:42	NEA	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3510C			376529	09/13/17 10:21	JMP	TAL BUF
TCLP	Analysis	8270D		1	376846	09/14/17 18:10	PJQ	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3510C			376625	09/13/17 14:15	SMP	TAL BUF
TCLP	Analysis	8081B		1	377016	09/15/17 15:02	MAN	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	8151A			376626	09/13/17 14:22	RLT	TAL BUF
TCLP	Analysis	8151		1	376893	09/15/17 00:46	JMO	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3010A			376521	09/13/17 10:04	EMB	TAL BUF
TCLP	Analysis	6010C		1	376766	09/13/17 19:18	LMH	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	7470A			376569	09/13/17 12:15	MVZ	TAL BUF
TCLP	Analysis	7470A		1	376699	09/13/17 18:00	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377440	09/18/17 08:41	DSC	TAL BUF
Total/NA	Prep	7.3.3			376011	09/10/17 10:00	MDL	TAL BUF
Total/NA	Analysis	9012		1	376143	09/11/17 10:41	MDL	TAL BUF
Total/NA	Prep	7.3.4			376012	09/10/17 10:00	MDL	TAL BUF
Total/NA	Analysis	9034		1	376155	09/11/17 12:00	MDL	TAL BUF
Total/NA	Analysis	9045D		1	376226	09/11/17 14:10	ALZ	TAL BUF
Total/NA	Analysis	9095B		1	375722	09/07/17 15:22	DSC	TAL BUF
Total/NA	Analysis	Moisture		1	375817	09/08/17 08:36	CSW	TAL BUF

Client Sample ID: WC-11 (0.5'-11')

Lab Sample ID: 480-123714-1

Date Collected: 09/06/17 09:40

Matrix: Solid

Date Received: 09/07/17 01:30

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			375883	09/08/17 11:22	NMC	TAL BUF
Total/NA	Analysis	8082A		1	376144	09/11/17 18:27	JMO	TAL BUF

Client Sample ID: WC-11 (11'-19.3')

Lab Sample ID: 480-123714-2

Date Collected: 09/06/17 11:00

Matrix: Solid

Date Received: 09/07/17 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	D240-87			495627	09/22/17 08:11	CFJ	TAL SAV
Total/NA	Analysis	D240-87		1	495701	09/22/17 12:11	CFJ	TAL SAV
Total/NA	Analysis	Moisture		1	375817	09/08/17 08:36	CSW	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Client Sample ID: WC-11 (11'-19.3')

Lab Sample ID: 480-123714-2

Date Collected: 09/06/17 11:00
Matrix: Solid
Date Received: 09/07/17 01:30
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			376395	09/12/17 14:41	BEK	TAL BUF
Total/NA	Analysis	8270D		5	376571	09/13/17 17:41	DMR	TAL BUF
Total/NA	Prep	5035A_H			376466	09/12/17 21:08	MRB	TAL BUF
Total/NA	Analysis	8015D		1	376458	09/13/17 00:17	MRB	TAL BUF
Total/NA	Prep	3550C			375679	09/07/17 14:23	SMP	TAL BUF
Total/NA	Analysis	8015D		10	377095	09/15/17 15:35	JLS	TAL BUF
Total/NA	Prep	3550C			375883	09/08/17 11:22	NMC	TAL BUF
Total/NA	Analysis	8082A		1	376144	09/11/17 18:43	JMO	TAL BUF
Total/NA	Prep	3050B			375625	09/07/17 13:42	EMB	TAL BUF
Total/NA	Analysis	6010C		1	376077	09/08/17 13:23	AMH	TAL BUF
Total/NA	Prep	3051A			458841	09/09/17 18:40	BVH	TAL NSH
Total/NA	Analysis	6010C		1	458911	09/10/17 23:09	LCS	TAL NSH
Total/NA	Prep	7471B			376139	09/11/17 14:05	EMB	TAL BUF
Total/NA	Analysis	7471B		1	376213	09/11/17 16:34	BMB	TAL BUF
Total/NA	Prep	9012B			375856	09/08/17 11:40	CLT	TAL BUF
Total/NA	Analysis	9012B		1	375947	09/08/17 15:58	KRT	TAL BUF

Client Sample ID: WC-11 (11-19.3)

Lab Sample ID: 480-123778-1

Date Collected: 09/06/17 11:00
Matrix: Solid
Date Received: 09/08/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	375817	09/11/17 15:51	CSW	TAL BUF

Client Sample ID: WC-11 (11-19.3)

Lab Sample ID: 480-123778-1

Date Collected: 09/06/17 11:00
Matrix: Solid
Date Received: 09/08/17 01:45
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			376018	09/10/17 10:00	NEA	TAL BUF
Total/NA	Analysis	8260C		10	377499	09/19/17 14:44	ARS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Laboratory: TestAmerica Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17 *
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17 *
Wyoming (UST)	A2LA	8	453.07	12-31-17

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	11-05-17 *
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: ARCADIS U.S. Inc
TestAmerica Job ID: 480-123714-1
Project/Site: National Grid - North Albany Project

Laboratory: TestAmerica Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17 *
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-17
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL NSH
7470A	TCLP Mercury	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
D240-87	Heat of Combustion	ASTM	TAL SAV
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123714-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-123714-1	WC-11 (0.5'-11')	Solid	09/06/17 09:40	09/07/17 01:30
480-123714-2	WC-11 (11'-19.3')	Solid	09/06/17 11:00	09/07/17 01:30
480-123778-1	WC-11 (11-19.3)	Solid	09/06/17 11:00	09/08/17 01:45

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-123714 COC

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Arcadis U.S. Inc	David Cornell / Michael Jones	9/6/17	296308

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
One Lincoln Center 110 West Fayette St. Suite 300	(518) 396-7296		Page 1 of 2

City	State	Zip Code	Site Contact	Lab Contact
Syracuse	NY	13202	Michael Jones	Melissa Deyo

Project Name and Location (State)	Carrier/Waybill Number
National Grid North Albany, NY	

Contract/Purchase Order/Quote No.: B00366648.1401

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	MeOH	Analysis (Attach list if more space is needed): 9012_Reactivity 9034	9095B - Paint Filter	6010C, 7470A, 8151A, 8270D	8260C - TCLP Volatiles	1616A, 9045D	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8321A, 8270D	8015D - DRO - DRO	8015D_GRO - GRO	6010C - Percent Solids	Special Instructions/ Conditions of Receipt
WC-11 (0.5-11)	9/6/17	0940				X	X							1	1	1	1	1	1							short holding time
WC-11 (11-19.3)	9/6/17	1100				X							X							1	1	1	1	3	1		

9/6/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	9/6/17	1600	[signature]	9/6/17	1630
2. Relinquished By	Date	Time	2. Received By	Date	Time
[signature]	9/6/17	1800	[signature] TRD 9-7-17	0130	
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

0.5 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Arcadis U.S. Inc	David Cornell / Michael Jones	9/6/17	296314

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
One Lincoln Center 110 West Fayette St. Suite 300	(518) 396-7296		Page 2 of 2

City	State	Zip Code	Site Contact	Lab Contact
Syracuse	NY	13202	Michael Jones	Melissa Deyo

Project Name and Location (State)	Carrier/Waybill Number
National Grid - North Albany, NY	

Contract/Purchase Order/Quote No.: B003648.1401

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	01	D246-87-BTU	8260C-TCL VOCs	Percent Solid	
WC-11 (0.5-11)	9/6/17	0940				X	X						X	1	1	1	Short holding time
WC-11 (11-19.3)	9/6/17	1100				X							X				

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9/6/17	1600	1. Received By	9/6/17	1630
2. Relinquished By	9/6/17	1800	2. Received By	9-7-17	0130
3. Relinquished By			3. Received By		

Comments

0.5 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-123778 COC

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Arcadis U.S. Inc	David Cornell / Michael Jones	9/6/17	296308

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
One Lincoln Center 110 West Fayette St. Suite 300	(518) 396-7296		Page 1 of

City	State	Zip Code	Site Contact	Lab Contact
Syracuse	NY	13202	Michael Jones	Melissa Deyo

Project Name and Location (State)	Carrier/Waybill Number
National Grid North Albany, NY	

Contract/Purchase Order/Quote No.
B00366481401

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined in one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	MeOH	9012_Reactive CN 9034_Reactive	9095B - Paint Filter	6010C, 7470A, 8151A, 8270C	8260C - TCL P VOA	1610A, 9045D	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8021A, 8270D	8151D_D20 - D80	8151D_G20 - G80	6010C - Percent Solids	Special Instructions/ Conditions of
WC-11 (0.5-11)	9/6/17	0940				X	X							1	1	1	1	1	1							Short hold req
WC-11 (11-19.3)	9/6/17	1100				X							X							1	1	1	1	3	1	

9/6/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	9/6/17	1600	[signature]	9/6/17	1
2. Relinquished By	Date	Time	2. Received By	Date	Time
[signature]	9/6/17	1800	[signature] TDS 9-8-17 0145		
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

0.6 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Numb
Arcadis U.S. Inc	David Cornell / Michael Jones	9/6/17	296314

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
One Lincoln Center 110 West Fayette St. Suite 300	(518) 396-7296		2 of

City	State	Zip Code	Site Contact	Lab Contact
Syracuse	NY	13202	Michael Jones	Melissa Deyo

Project Name and Location (State)	Carrier/Waybill Number
National Grid - North Albany, NY	

Contract/Purchase Order/Quote No.: B003646 48.1401

Analysis (Attach list if more space is needed)

Special Instructions/Conditions of

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260C-TCL VOCs	Percent Solid	
WC-11 (0.5-11)	9/6/17	0940				X	X						1	1	Short holdin
WC-11 (11-19.3)	9/6/17	1100				X						X	1	1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9/6/17	1600	1. Received By	9/4/17	1
2. Relinquished By	9/6/17	1800	2. Received By TAS 9-8-17 0145		
3. Relinquished By			3. Received By		

Comments

0.6 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

480-123714 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 9/8/17 1000

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 8895 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 31470366 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 5.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) HG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA es 9-8-17

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) es

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) es

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) es

I certify that I attached a label with the unique LIMS number to each container (intial) es

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# es

BIS = Broken in shipment

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480-123714

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	C No: 0-37062.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York	Job #: 480-123714-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/19/2017		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: National Grid - North Albany Project	Project #: 48016528		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C/3051A Percent Sulfur	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-11 (11'-19.3') (480-123714-2)	9/6/17	11:00 Eastern		Solid			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 9/7/17 1600	Company TAB	Received by:		Date/Time: 9-8-17 1000		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:		Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 5.0				

9/25/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-37198.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-123714-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 9/20/2017			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87/D240_87_P Heat of Combustion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-11 (11'-19.3') (480-123714-2)	9/6/17	11:00 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/15/17 1600	TAB	[signature]	9/16/17 1000	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.1 (43)	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-37198.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-123714-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 9/20/2017			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87/D240_87_P Heat of Combustion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-11 (11'-19.3') (480-123714-2)	9/6/17	11:00 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/20/17 1600	TAB	MTH	9/21/17 915	TASAU
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.8°C (CF) 1.1°C -1.4°C (CF) 1.7°C

9/25/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-37400.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: ryan.vandette@testamericainc.com	State of Origin: Colorado	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 480-124484-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/6/2017			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Marshall landfill	Project #: 48005073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8_CWA/FIELD_FLTRD (MOD) Prio Pollutants - D, As only (CC	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
T3-3 (480-124484-12)	9/15/17	11:30 Mountain		Water			X	1	Please use collision cell technology!
T5-2 (480-124484-14)	9/15/17	14:50 Mountain		Water			X	1	Please use collision cell technology!
CDPO (480-124484-15)	9/15/17	15:36 Mountain		Water			X	1	Please use collision cell technology!
SW-3 (480-124484-19)	9/16/17	08:10 Mountain		Water			X	1	Please use collision cell technology!
EQ BLANK (480-124484-21)	9/15/17	16:05 Mountain		Water			X	1	Please use collision cell technology!
FIELD BLANK (480-124484-22)	9/15/17	16:25 Mountain		Water			X	1	Please use collision cell technology!

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 9/20/17 1600	Company: TAB	Received by: MTyl	Date/Time: 9/21/17 915	Company: TAL-BUF		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.8°C (CF) 1.1°C 1.4°C (CF) 1.1°C

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123714-1

Login Number: 123714
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	FREEZER ON 07SEPT2017 @ 0630
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123714-1

Login Number: 123714
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 09/08/17 03:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123714-1

Login Number: 123714
List Number: 3
Creator: Tyler, Matthew M

List Source: TestAmerica Savannah
List Creation: 09/21/17 10:56 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123714-1

Login Number: 123778

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-123850-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Melissa Deyo

Authorized for release by:
9/22/2017 1:23:32 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-123850-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-123850-1

Receipt
The samples were received on 9/9/2017 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-376688 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: WC-9 (0.5-9.0) (480-123850-1), WC-9 (10.5-26.4) (480-123850-2) and (LB 480-376319/1-A).

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-9 (0.5-9.0) (480-123850-1) and (LB 480-376319/1-A). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted due to the abundance of non-target analytes: WC-9 (10.5-26.4) (480-123850-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: All primary data for analytical batch 377016 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 376534 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8082A: The continuing calibration verification (CCV 480-376534/6) associated with analytical batch 376534 recovered above the upper control limit for PCB-1262. The sample associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following sample is impacted: (MB 480-376495/1-A).

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-376893 recovered above the upper control limit for 2,4-D. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: WC-9 (0.5-9.0) (480-123850-1) and WC-9 (10.5-26.4) (480-123850-2).

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-9 (0.5-9.0) (480-123850-1), WC-9 (10.5-26.4) (480-123850-2) and (LB 480-376306/1-G). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: The following samples are associated with a method blank (MB 480-376626/1-A) that had recoveries for the surrogate 2,4-Dichlorophenylacetic acid: WC-9 (0.5-9.0) (480-123850-1) and WC-9 (10.5-26.4) (480-123850-2). The LCS and LCSD surrogate recoveries are within limits. Therefore, the data has been reported.

Method(s) 8151A: All primary data for analytical batch 376893 is reported from the RTX-CLPII column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 480-123850-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

General Chemistry

Method(s) 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-9 (0.5-9.0) (480-123850-1) and WC-9 (10.5-26.4) (480-123850-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-376306 and 480-376529.

Method(s) 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-376306 and 480-376626.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123850-1

Client Sample ID: WC-9 (0.5-9.0)

Lab Sample ID: 480-123850-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.19	J	0.24	0.11	mg/Kg	1	☼	8082A	Total/NA
Barium	0.46	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0010	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0070	J	0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	10.9	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	25.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-9 (10.5-26.4)

Lab Sample ID: 480-123850-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.056		0.010	0.0041	mg/L	10		8260C	TCLP
gamma-BHC (Lindane)	0.00010	J B	0.00020	0.0000060	mg/L	1		8081B	TCLP
Arsenic	0.0079	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	1.2		1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.00056	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0098	J	0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	10.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	24.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-9 (0.5-9.0)
Date Collected: 09/08/17 08:00
Date Received: 09/09/17 01:45

Lab Sample ID: 480-123850-1
Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/13/17 23:52	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/13/17 23:52	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/13/17 23:52	10
Benzene	ND		0.010	0.0041	mg/L			09/13/17 23:52	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/13/17 23:52	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/13/17 23:52	10
Chloroform	ND		0.010	0.0034	mg/L			09/13/17 23:52	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/13/17 23:52	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/13/17 23:52	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/13/17 23:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*09/13/17 23:52*	*10*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/13/17 23:52*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*09/13/17 23:52*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/13/17 23:52*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/13/17 10:21	09/14/17 19:30	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/13/17 10:21	09/14/17 19:30	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/13/17 10:21	09/14/17 19:30	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/13/17 10:21	09/14/17 19:30	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/13/17 10:21	09/14/17 19:30	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/13/17 10:21	09/14/17 19:30	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/13/17 10:21	09/14/17 19:30	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/13/17 10:21	09/14/17 19:30	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/13/17 10:21	09/14/17 19:30	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/13/17 10:21	09/14/17 19:30	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/13/17 10:21	09/14/17 19:30	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/13/17 10:21	09/14/17 19:30	1
Pyridine	ND		0.025	0.00041	mg/L		09/13/17 10:21	09/14/17 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*96*		*41 - 120*	*09/13/17 10:21*	*09/14/17 19:30*	*1*
2-Fluorobiphenyl	*78*		*48 - 120*	*09/13/17 10:21*	*09/14/17 19:30*	*1*
2-Fluorophenol	*37*		*35 - 120*	*09/13/17 10:21*	*09/14/17 19:30*	*1*
Nitrobenzene-d5	*69*		*46 - 120*	*09/13/17 10:21*	*09/14/17 19:30*	*1*
Phenol-d5	*27*		*22 - 120*	*09/13/17 10:21*	*09/14/17 19:30*	*1*
p-Terphenyl-d14	*99*		*59 - 136*	*09/13/17 10:21*	*09/14/17 19:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/13/17 14:15	09/15/17 14:03	1
Endrin	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 14:03	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/13/17 14:15	09/15/17 14:03	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/13/17 14:15	09/15/17 14:03	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/13/17 14:15	09/15/17 14:03	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 14:03	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/13/17 14:15	09/15/17 14:03	1

Client Sample ID: WC-9 (0.5-9.0)

Lab Sample ID: 480-123850-1

Date Collected: 09/08/17 08:00

Matrix: Solid

Date Received: 09/09/17 01:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*20 - 120*	*09/13/17 14:15*	*09/15/17 14:03*	*1*
DCB Decachlorobiphenyl	*89*		*20 - 120*	*09/13/17 14:15*	*09/15/17 14:03*	*1*
Tetrachloro-m-xylene	*94*		*44 - 120*	*09/13/17 14:15*	*09/15/17 14:03*	*1*
Tetrachloro-m-xylene	*72*		*44 - 120*	*09/13/17 14:15*	*09/15/17 14:03*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/13/17 14:22	09/15/17 01:16	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/13/17 14:22	09/15/17 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*15*	*X*	*48 - 132*	*09/13/17 14:22*	*09/15/17 01:16*	*1*
2,4-Dichlorophenylacetic acid	*16*	*X*	*48 - 132*	*09/13/17 14:22*	*09/15/17 01:16*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 19:22	1
Barium	**0.46**	**J**	1.0	0.10	mg/L		09/13/17 10:04	09/13/17 19:22	1
Cadmium	**0.0010**	**J**	0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 19:22	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 19:22	1
Lead	**0.0070**	**J**	0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 19:22	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 19:22	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 19:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 18:01	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/11/17 15:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/14/17 03:00	09/14/17 12:10	1
Sulfide, Reactive	ND		10	10	mg/Kg		09/14/17 03:00	09/14/17 12:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		50.0	50.0	Degrees F			09/15/17 13:36	1
pH	**10.9**	**HF**	0.1	0.1	SU			09/11/17 19:30	1
Temperature	**25.1**	**HF**	0.001	0.001	Degrees C			09/11/17 19:30	1

Client Sample ID: WC-9 (0.5-9.0)

Lab Sample ID: 480-123850-1

Date Collected: 09/08/17 08:00

Matrix: Solid

Date Received: 09/09/17 01:45

Percent Solids: 94.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	09/13/17 08:18	09/14/17 04:06	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	09/13/17 08:18	09/14/17 04:06	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	09/13/17 08:18	09/14/17 04:06	1
PCB-1242	ND		0.24	0.048	mg/Kg	☼	09/13/17 08:18	09/14/17 04:06	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	09/13/17 08:18	09/14/17 04:06	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	09/13/17 08:18	09/14/17 04:06	1

Client Sample ID: WC-9 (0.5-9.0)

Lab Sample ID: 480-123850-1
Date Collected: 09/08/17 08:00
Matrix: Solid
Date Received: 09/09/17 01:45
Percent Solids: 94.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	0.19	J	0.24	0.11	mg/Kg	☼	09/13/17 08:18	09/14/17 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*09/13/17 08:18*	*09/14/17 04:06*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*09/13/17 08:18*	*09/14/17 04:06*	*1*
Tetrachloro-m-xylene	*115*		*60 - 154*	*09/13/17 08:18*	*09/14/17 04:06*	*1*
Tetrachloro-m-xylene	*97*		*60 - 154*	*09/13/17 08:18*	*09/14/17 04:06*	*1*

Client Sample ID: WC-9 (10.5-26.4)

Lab Sample ID: 480-123850-2
Date Collected: 09/08/17 11:00
Matrix: Solid
Date Received: 09/09/17 01:45

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/14/17 00:15	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/14/17 00:15	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/14/17 00:15	10
Benzene	0.056		0.010	0.0041	mg/L			09/14/17 00:15	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/14/17 00:15	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/14/17 00:15	10
Chloroform	ND		0.010	0.0034	mg/L			09/14/17 00:15	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/14/17 00:15	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/14/17 00:15	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/14/17 00:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/14/17 00:15*	*10*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*09/14/17 00:15*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/14/17 00:15*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/14/17 00:15*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/13/17 10:21	09/14/17 19:57	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/13/17 10:21	09/14/17 19:57	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/13/17 10:21	09/14/17 19:57	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/13/17 10:21	09/14/17 19:57	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/13/17 10:21	09/14/17 19:57	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/13/17 10:21	09/14/17 19:57	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/13/17 10:21	09/14/17 19:57	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/13/17 10:21	09/14/17 19:57	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/13/17 10:21	09/14/17 19:57	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/13/17 10:21	09/14/17 19:57	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/13/17 10:21	09/14/17 19:57	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/13/17 10:21	09/14/17 19:57	1
Pyridine	ND		0.025	0.00041	mg/L		09/13/17 10:21	09/14/17 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*41 - 120*	*09/13/17 10:21*	*09/14/17 19:57*	*1*
2-Fluorobiphenyl	*81*		*48 - 120*	*09/13/17 10:21*	*09/14/17 19:57*	*1*
2-Fluorophenol	*39*		*35 - 120*	*09/13/17 10:21*	*09/14/17 19:57*	*1*

Client Sample ID: WC-9 (10.5-26.4)
Date Collected: 09/08/17 11:00
Date Received: 09/09/17 01:45

Lab Sample ID: 480-123850-2
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*73*		*46 - 120*	*09/13/17 10:21*	*09/14/17 19:57*	*1*
Phenol-d5	*27*		*22 - 120*	*09/13/17 10:21*	*09/14/17 19:57*	*1*
p-Terphenyl-d14	*102*		*59 - 136*	*09/13/17 10:21*	*09/14/17 19:57*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/13/17 14:15	09/15/17 14:23	1
Endrin	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 14:23	1
gamma-BHC (Lindane)	**0.00010**	**J B**	0.00020	0.0000060	mg/L		09/13/17 14:15	09/15/17 14:23	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/13/17 14:15	09/15/17 14:23	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/13/17 14:15	09/15/17 14:23	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 14:23	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/13/17 14:15	09/15/17 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*81*		*20 - 120*	*09/13/17 14:15*	*09/15/17 14:23*	*1*
DCB Decachlorobiphenyl	*76*		*20 - 120*	*09/13/17 14:15*	*09/15/17 14:23*	*1*
Tetrachloro-m-xylene	*89*		*44 - 120*	*09/13/17 14:15*	*09/15/17 14:23*	*1*
Tetrachloro-m-xylene	*73*		*44 - 120*	*09/13/17 14:15*	*09/15/17 14:23*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/13/17 14:22	09/15/17 01:46	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/13/17 14:22	09/15/17 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*15*	*X*	*48 - 132*	*09/13/17 14:22*	*09/15/17 01:46*	*1*
2,4-Dichlorophenylacetic acid	*18*	*X*	*48 - 132*	*09/13/17 14:22*	*09/15/17 01:46*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0079**	**J**	0.015	0.0056	mg/L		09/13/17 10:04	09/14/17 13:27	1
Barium	**1.2**		1.0	0.10	mg/L		09/13/17 10:04	09/13/17 19:51	1
Cadmium	**0.00056**	**J**	0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 19:51	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 19:51	1
Lead	**0.0098**	**J**	0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 19:51	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 19:51	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 19:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 18:12	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/11/17 15:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/14/17 03:00	09/14/17 12:10	1
Sulfide, Reactive	ND		10	10	mg/Kg		09/14/17 03:00	09/14/17 12:15	1

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123850-1

Client Sample ID: WC-9 (10.5-26.4) — **Lab Sample ID: 480-123850-2**
Date Collected: 09/08/17 11:00 — **Matrix: Solid**
Date Received: 09/09/17 01:45

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			09/15/17 13:36	1
pH	10.8	HF	0.1	0.1	SU			09/11/17 19:30	1
Temperature	24.9	HF	0.001	0.001	Degrees C			09/11/17 19:30	1

Client Sample ID: WC-9 (10.5-26.4) — **Lab Sample ID: 480-123850-2**
Date Collected: 09/08/17 11:00 — **Matrix: Solid**
Date Received: 09/09/17 01:45 — **Percent Solids: 89.0**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	09/13/17 08:18	09/14/17 04:22	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	09/13/17 08:18	09/14/17 04:22	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	09/13/17 08:18	09/14/17 04:22	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	09/13/17 08:18	09/14/17 04:22	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	09/13/17 08:18	09/14/17 04:22	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	09/13/17 08:18	09/14/17 04:22	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	09/13/17 08:18	09/14/17 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*09/13/17 08:18*	*09/14/17 04:22*	*1*
DCB Decachlorobiphenyl	*90*		*65 - 174*	*09/13/17 08:18*	*09/14/17 04:22*	*1*
Tetrachloro-m-xylene	*85*		*60 - 154*	*09/13/17 08:18*	*09/14/17 04:22*	*1*
Tetrachloro-m-xylene	*89*		*60 - 154*	*09/13/17 08:18*	*09/14/17 04:22*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123850-1

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-376688/4	Lab Control Sample	90	97	102	102
MB 480-376688/6	Method Blank	95	94	101	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-123850-1	WC-9 (0.5-9.0)	97	97	104	102
480-123850-2	WC-9 (10.5-26.4)	103	98	101	101
LB 480-376319/1-A	Method Blank	95	91	103	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
LCS 480-376529/2-A	Lab Control Sample	104	82	44	78	35	99
LCSD 480-376529/3-A	Lab Control Sample Dup	101	80	42	81	33	90
MB 480-376529/1-A	Method Blank	89	79	44	76	30	102

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-123850-1	WC-9 (0.5-9.0)	96	78	37	69	27	99

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-123850-2	WC-9 (10.5-26.4)	94	81	39	73	27	102
LB 480-376306/1-D	Method Blank	92	80	43	79	30	106

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
LCS 480-376625/2-A	Lab Control Sample	66	61	90	71
LCSD 480-376625/3-A	Lab Control Sample Dup	69	63	102	77
MB 480-376625/1-A	Method Blank	63	67	95	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-123850-1	WC-9 (0.5-9.0)	91	89	94	72
480-123850-2	WC-9 (10.5-26.4)	81	76	89	73
LB 480-376306/1-F	Method Blank	74	72	94	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(65-174)	(65-174)	(60-154)	(60-154)
480-123850-1	WC-9 (0.5-9.0)	122	109	115	97
480-123850-2	WC-9 (10.5-26.4)	97	90	85	89
LCS 480-376495/2-A	Lab Control Sample	168	144	153	120
MB 480-376495/1-A	Method Blank	130	121	129	106

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPA1 (48-132)	DCPA2 (48-132)
LCS 480-376626/2-A	Lab Control Sample	48	51
LCSD 480-376626/3-A	Lab Control Sample Dup	40 X	55
MB 480-376626/1-A	Method Blank	36 X	40 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPA1 (48-132)	DCPA2 (48-132)
480-123850-1	WC-9 (0.5-9.0)	15 X	16 X
480-123850-2	WC-9 (10.5-26.4)	15 X	18 X
LB 480-376306/1-G	Method Blank	18 X	20 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-376688/6
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/13/17 20:57	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/13/17 20:57	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/13/17 20:57	1
Benzene	ND		0.0010	0.00041	mg/L			09/13/17 20:57	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/13/17 20:57	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/13/17 20:57	1
Chloroform	ND		0.0010	0.00034	mg/L			09/13/17 20:57	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/13/17 20:57	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/13/17 20:57	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/13/17 20:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*09/13/17 20:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*09/13/17 20:57*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/13/17 20:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/13/17 20:57*	*1*

Lab Sample ID: LCS 480-376688/4
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0224		mg/L		90	66 - 127
1,2-Dichloroethane	0.0250	0.0227		mg/L		91	75 - 120
2-Butanone (MEK)	0.125	0.0839		mg/L		67	57 - 140
Benzene	0.0250	0.0249		mg/L		99	71 - 124
Carbon tetrachloride	0.0250	0.0251		mg/L		100	72 - 134
Chlorobenzene	0.0250	0.0247		mg/L		99	80 - 120
Chloroform	0.0250	0.0245		mg/L		98	73 - 127
Tetrachloroethene	0.0250	0.0255		mg/L		102	74 - 122
Trichloroethene	0.0250	0.0243		mg/L		97	74 - 123
Vinyl chloride	0.0250	0.0213		mg/L		85	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LB 480-376319/1-A
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/13/17 21:33	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/13/17 21:33	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/13/17 21:33	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-376319/1-A
Matrix: Solid
Analysis Batch: 376688

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			09/13/17 21:33	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/13/17 21:33	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/13/17 21:33	10
Chloroform	ND		0.010	0.0034	mg/L			09/13/17 21:33	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/13/17 21:33	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/13/17 21:33	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/13/17 21:33	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*09/13/17 21:33*	*10*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*09/13/17 21:33*	*10*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/13/17 21:33*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/13/17 21:33*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-376529/1-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		09/13/17 10:21	09/14/17 15:59	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		09/13/17 10:21	09/14/17 15:59	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		09/13/17 10:21	09/14/17 15:59	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		09/13/17 10:21	09/14/17 15:59	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		09/13/17 10:21	09/14/17 15:59	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		09/13/17 10:21	09/14/17 15:59	1
Pyridine	ND		0.0063	0.00010	mg/L		09/13/17 10:21	09/14/17 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*41 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
2-Fluorobiphenyl	*79*		*48 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
2-Fluorophenol	*44*		*35 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
Nitrobenzene-d5	*76*		*46 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
Phenol-d5	*30*		*22 - 120*	*09/13/17 10:21*	*09/14/17 15:59*	*1*
p-Terphenyl-d14	*102*		*59 - 136*	*09/13/17 10:21*	*09/14/17 15:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376529/2-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376529

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			0.0500	0.0310		mg/L		62	51 - 120		
2,4,5-Trichlorophenol			0.0500	0.0511		mg/L		102	65 - 126		
2,4,6-Trichlorophenol			0.0500	0.0482		mg/L		96	64 - 120		
2,4-Dinitrotoluene			0.0500	0.0526		mg/L		105	69 - 120		
2-Methylphenol			0.0500	0.0361		mg/L		72	39 - 120		
3-Methylphenol			0.0500	0.0357		mg/L		71	39 - 120		
4-Methylphenol			0.0500	0.0357		mg/L		71	29 - 131		
Hexachlorobenzene			0.0500	0.0477		mg/L		95	61 - 120		
Hexachlorobutadiene			0.0500	0.0302		mg/L		60	35 - 120		
Hexachloroethane			0.0500	0.0252		mg/L		50	43 - 120		
Nitrobenzene			0.0500	0.0405		mg/L		81	53 - 123		
Pentachlorophenol			0.100	0.0862		mg/L		86	29 - 136		
Pyridine			0.100	0.0327		mg/L		33	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*41 - 120*
2-Fluorobiphenyl	*82*		*48 - 120*
2-Fluorophenol	*44*		*35 - 120*
Nitrobenzene-d5	*78*		*46 - 120*
Phenol-d5	*35*		*22 - 120*
p-Terphenyl-d14	*99*		*59 - 136*

Lab Sample ID: LCSD 480-376529/3-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376529

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0288		mg/L		58	51 - 120	7	36
2,4,5-Trichlorophenol			0.0500	0.0484		mg/L		97	65 - 126	5	18
2,4,6-Trichlorophenol			0.0500	0.0471		mg/L		94	64 - 120	2	19
2,4-Dinitrotoluene			0.0500	0.0514		mg/L		103	69 - 120	2	20
2-Methylphenol			0.0500	0.0356		mg/L		71	39 - 120	1	27
3-Methylphenol			0.0500	0.0338		mg/L		68	39 - 120	5	30
4-Methylphenol			0.0500	0.0338		mg/L		68	29 - 131	5	24
Hexachlorobenzene			0.0500	0.0474		mg/L		95	61 - 120	1	15
Hexachlorobutadiene			0.0500	0.0297		mg/L		59	35 - 120	2	44
Hexachloroethane			0.0500	0.0237		mg/L		47	43 - 120	6	46
Nitrobenzene			0.0500	0.0394		mg/L		79	53 - 123	3	24
Pentachlorophenol			0.100	0.0825		mg/L		82	29 - 136	4	37
Pyridine			0.100	0.0332		mg/L		33	10 - 120	2	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*41 - 120*
2-Fluorobiphenyl	*80*		*48 - 120*
2-Fluorophenol	*42*		*35 - 120*
Nitrobenzene-d5	*81*		*46 - 120*
Phenol-d5	*33*		*22 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-376529/3-A
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376529

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl-d14	*90*		*59 - 136*

Lab Sample ID: LB 480-376306/1-D
Matrix: Solid
Analysis Batch: 376846

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376529

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/13/17 10:21	09/14/17 17:18	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/13/17 10:21	09/14/17 17:18	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/13/17 10:21	09/14/17 17:18	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/13/17 10:21	09/14/17 17:18	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/13/17 10:21	09/14/17 17:18	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/13/17 10:21	09/14/17 17:18	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/13/17 10:21	09/14/17 17:18	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/13/17 10:21	09/14/17 17:18	1
Pyridine	ND		0.025	0.00041	mg/L		09/13/17 10:21	09/14/17 17:18	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	*92*		*41 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
2-Fluorobiphenyl	*80*		*48 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
2-Fluorophenol	*43*		*35 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
Nitrobenzene-d5	*79*		*46 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
Phenol-d5	*30*		*22 - 120*	*09/13/17 10:21*	*09/14/17 17:18*	*1*
p-Terphenyl-d14	*106*		*59 - 136*	*09/13/17 10:21*	*09/14/17 17:18*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-376625/1-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		09/13/17 14:15	09/15/17 12:45	1
Endrin	ND		0.000050	0.0000035	mg/L		09/13/17 14:15	09/15/17 12:45	1
gamma-BHC (Lindane)	0.0000131	J	0.000050	0.0000015	mg/L		09/13/17 14:15	09/15/17 12:45	1
Heptachlor	ND		0.000050	0.0000021	mg/L		09/13/17 14:15	09/15/17 12:45	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		09/13/17 14:15	09/15/17 12:45	1
Methoxychlor	ND		0.000050	0.0000035	mg/L		09/13/17 14:15	09/15/17 12:45	1
Toxaphene	ND		0.00050	0.000030	mg/L		09/13/17 14:15	09/15/17 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*63*		*20 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*
DCB Decachlorobiphenyl	*67*		*20 - 120*	*09/13/17 14:15*	*09/15/17 12:45*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-376625/1-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376625

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		44 - 120	09/13/17 14:15	09/15/17 12:45	1
Tetrachloro-m-xylene	74		44 - 120	09/13/17 14:15	09/15/17 12:45	1

Lab Sample ID: LCS 480-376625/2-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000545		mg/L		109	65 - 135
gamma-BHC (Lindane)	0.000500	0.000402		mg/L		80	56 - 120
Heptachlor	0.000500	0.000442		mg/L		88	58 - 120
Heptachlor epoxide	0.000500	0.000499		mg/L		100	65 - 125
Methoxychlor	0.000500	0.000581		mg/L		116	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	66		20 - 120
DCB Decachlorobiphenyl	61		20 - 120
Tetrachloro-m-xylene	90		44 - 120
Tetrachloro-m-xylene	71		44 - 120

Lab Sample ID: LCSD 480-376625/3-A
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000578		mg/L		116	65 - 135	6	24
gamma-BHC (Lindane)	0.000500	0.000425		mg/L		85	56 - 120	6	24
Heptachlor	0.000500	0.000479		mg/L		96	58 - 120	8	25
Heptachlor epoxide	0.000500	0.000525		mg/L		105	65 - 125	5	23
Methoxychlor	0.000500	0.000607		mg/L		121	50 - 150	4	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	69		20 - 120
DCB Decachlorobiphenyl	63		20 - 120
Tetrachloro-m-xylene	102		44 - 120
Tetrachloro-m-xylene	77		44 - 120

Lab Sample ID: LB 480-376306/1-F
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376625

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/13/17 14:15	09/15/17 13:44	1
Endrin	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 13:44	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/13/17 14:15	09/15/17 13:44	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/13/17 14:15	09/15/17 13:44	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/13/17 14:15	09/15/17 13:44	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 480-376306/1-F
Matrix: Solid
Analysis Batch: 377016

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376625

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.00020	0.000014	mg/L		09/13/17 14:15	09/15/17 13:44	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/13/17 14:15	09/15/17 13:44	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*20 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
DCB Decachlorobiphenyl	*72*		*20 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
Tetrachloro-m-xylene	*94*		*44 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*
Tetrachloro-m-xylene	*72*		*44 - 120*	*09/13/17 14:15*	*09/15/17 13:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-376495/1-A
Matrix: Solid
Analysis Batch: 376534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg		09/13/17 08:18	09/13/17 22:50	1
PCB-1221	ND		0.24	0.047	mg/Kg		09/13/17 08:18	09/13/17 22:50	1
PCB-1232	ND		0.24	0.047	mg/Kg		09/13/17 08:18	09/13/17 22:50	1
PCB-1242	ND		0.24	0.047	mg/Kg		09/13/17 08:18	09/13/17 22:50	1
PCB-1248	ND		0.24	0.047	mg/Kg		09/13/17 08:18	09/13/17 22:50	1
PCB-1254	ND		0.24	0.11	mg/Kg		09/13/17 08:18	09/13/17 22:50	1
PCB-1260	ND		0.24	0.11	mg/Kg		09/13/17 08:18	09/13/17 22:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*09/13/17 08:18*	*09/13/17 22:50*	*1*
DCB Decachlorobiphenyl	*121*		*65 - 174*	*09/13/17 08:18*	*09/13/17 22:50*	*1*
Tetrachloro-m-xylene	*129*		*60 - 154*	*09/13/17 08:18*	*09/13/17 22:50*	*1*
Tetrachloro-m-xylene	*106*		*60 - 154*	*09/13/17 08:18*	*09/13/17 22:50*	*1*

Lab Sample ID: LCS 480-376495/2-A
Matrix: Solid
Analysis Batch: 376534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376495

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.24	3.32		mg/Kg		148	51 - 185		
PCB-1260			2.24	3.94		mg/Kg		176	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*168*		*65 - 174*
DCB Decachlorobiphenyl	*144*		*65 - 174*
Tetrachloro-m-xylene	*153*		*60 - 154*
Tetrachloro-m-xylene	*120*		*60 - 154*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-376626/1-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		09/13/17 14:22	09/14/17 22:17	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		09/13/17 14:22	09/14/17 22:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*36*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 22:17*	*1*
2,4-Dichlorophenylacetic acid	*40*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 22:17*	*1*

Lab Sample ID: LCS 480-376626/2-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376626

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.00200	0.00168		mg/L		84	36 - 150		
Silvex (2,4,5-TP)			0.00200	0.00124		mg/L		62	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*48*		*48 - 132*
2,4-Dichlorophenylacetic acid	*51*		*48 - 132*

Lab Sample ID: LCSD 480-376626/3-A
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376626

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.00200	0.00143		mg/L		72	36 - 150	16	50
Silvex (2,4,5-TP)			0.00200	0.000991		mg/L		50	49 - 150	22	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*40*	*X*	*48 - 132*
2,4-Dichlorophenylacetic acid	*55*		*48 - 132*

Lab Sample ID: LB 480-376306/1-G
Matrix: Solid
Analysis Batch: 376893

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376626

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/13/17 14:22	09/14/17 23:46	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/13/17 14:22	09/14/17 23:46	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*18*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 23:46*	*1*
2,4-Dichlorophenylacetic acid	*20*	*X*	*48 - 132*	*09/13/17 14:22*	*09/14/17 23:46*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-376521/2-A
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 19:07	1
Barium	ND		1.0	0.10	mg/L		09/13/17 10:04	09/13/17 19:07	1
Cadmium	ND		0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 19:07	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 19:07	1
Lead	ND		0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 19:07	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 19:07	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 19:07	1

Lab Sample ID: LCS 480-376521/3-A
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.06		mg/L		106	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Cadmium	1.00	1.06		mg/L		106	80 - 120
Chromium	1.00	1.02		mg/L		102	80 - 120
Lead	1.00	1.04		mg/L		104	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Silver	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: LB 480-376306/1-C
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 376521

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/13/17 10:04	09/13/17 18:52	1
Barium	ND		1.0	0.10	mg/L		09/13/17 10:04	09/13/17 18:52	1
Cadmium	ND		0.0020	0.00050	mg/L		09/13/17 10:04	09/13/17 18:52	1
Chromium	ND		0.020	0.010	mg/L		09/13/17 10:04	09/13/17 18:52	1
Lead	ND		0.020	0.0030	mg/L		09/13/17 10:04	09/13/17 18:52	1
Selenium	ND		0.025	0.0087	mg/L		09/13/17 10:04	09/13/17 18:52	1
Silver	ND		0.0060	0.0017	mg/L		09/13/17 10:04	09/13/17 18:52	1

Lab Sample ID: 480-123850-1 MS
Matrix: Solid
Analysis Batch: 376766

Client Sample ID: WC-9 (0.5-9.0)
Prep Type: TCLP
Prep Batch: 376521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.05		mg/L		105	75 - 125
Barium	0.46	J	1.00	1.41		mg/L		95	75 - 125
Cadmium	0.0010	J	1.00	1.06		mg/L		106	75 - 125
Chromium	ND		1.00	0.948		mg/L		95	75 - 125
Lead	0.0070	J	1.00	1.03		mg/L		102	75 - 125
Selenium	ND		1.00	1.06		mg/L		106	75 - 125
Silver	ND		1.00	1.06		mg/L		106	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-123850-1 MSD — **Client Sample ID: WC-9 (0.5-9.0)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 376766 — **Prep Batch: 376521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.12		mg/L		112	75 - 125	6	20
Barium	0.46	J	1.00	1.48		mg/L		102	75 - 125	5	20
Cadmium	0.0010	J	1.00	1.12		mg/L		111	75 - 125	5	20
Chromium	ND		1.00	0.991		mg/L		99	75 - 125	4	20
Lead	0.0070	J	1.00	1.08		mg/L		108	75 - 125	5	20
Selenium	ND		1.00	1.11		mg/L		111	75 - 125	5	20
Silver	ND		1.00	1.12		mg/L		112	75 - 125	5	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-376569/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 376699 — **Prep Batch: 376569**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 17:55	1

Lab Sample ID: LCS 480-376569/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 376699 — **Prep Batch: 376569**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00590		mg/L		88	80 - 120

Lab Sample ID: LB 480-376306/1-E — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 376699 — **Prep Batch: 376569**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/17 12:15	09/13/17 17:53	1

Lab Sample ID: 480-123850-1 MS — **Client Sample ID: WC-9 (0.5-9.0)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 376699 — **Prep Batch: 376569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00668	0.00562		mg/L		84	80 - 120

Lab Sample ID: 480-123850-1 MSD — **Client Sample ID: WC-9 (0.5-9.0)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 376699 — **Prep Batch: 376569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00668	0.00558		mg/L		84	80 - 120	1	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-377089/1
Matrix: Solid
Analysis Batch: 377089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Flashpoint			81.0	82.00		Degrees F		101	97.5 - 102.5		

Lab Sample ID: 480-123850-1 DU
Matrix: Solid
Analysis Batch: 377089

Client Sample ID: WC-9 (0.5-9.0)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Flashpoint	>176			>176		Degrees F				NC	10

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-376785/1-A
Matrix: Solid
Analysis Batch: 376844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		09/14/17 03:00	09/14/17 12:10	1

Lab Sample ID: LCS 480-376785/2-A
Matrix: Solid
Analysis Batch: 376844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376785

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Reactive			1000	372.5		mg/Kg		37	10 - 100		

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-376790/1-A
Matrix: Solid
Analysis Batch: 376848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		09/14/17 03:00	09/14/17 12:15	1

Lab Sample ID: LCS 480-376790/2-A
Matrix: Solid
Analysis Batch: 376848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376790

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide, Reactive			820	761.4		mg/Kg		93	10 - 100		

Method: 9045D - pH

Lab Sample ID: LCS 480-376234/1
Matrix: Solid
Analysis Batch: 376234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			10.0	10.1		SU		101	99 - 101		

Lab Sample ID: 480-123850-2 DU
Matrix: Solid
Analysis Batch: 376234

Client Sample ID: WC-9 (10.5-26.4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	10.8	HF		10.6		SU				2	5
Temperature	24.9	HF		25.0		Degrees C				0.4	10

Method: 9095B - Paint Filter

Lab Sample ID: 480-123850-1 DU
Matrix: Solid
Analysis Batch: 376209

Client Sample ID: WC-9 (0.5-9.0)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Free Liquid	passed			passed		mL/100g				NC	

GC/MS VOA

Leach Batch: 376319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	1311	
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	1311	
LB 480-376319/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 376688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	8260C	376319
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	8260C	376319
LB 480-376319/1-A	Method Blank	TCLP	Solid	8260C	376319
MB 480-376688/6	Method Blank	Total/NA	Solid	8260C	
LCS 480-376688/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	1311	
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	1311	
LB 480-376306/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 376529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	3510C	376306
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	3510C	376306
LB 480-376306/1-D	Method Blank	TCLP	Solid	3510C	376306
MB 480-376529/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-376529/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-376529/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 376846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	8270D	376529
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	8270D	376529
LB 480-376306/1-D	Method Blank	TCLP	Solid	8270D	376529
MB 480-376529/1-A	Method Blank	Total/NA	Solid	8270D	376529
LCS 480-376529/2-A	Lab Control Sample	Total/NA	Solid	8270D	376529
LCSD 480-376529/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	376529

GC Semi VOA

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	1311	
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	1311	
LB 480-376306/1-F	Method Blank	TCLP	Solid	1311	
LB 480-376306/1-G	Method Blank	TCLP	Solid	1311	

Prep Batch: 376495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 376495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	3550C	
MB 480-376495/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-376495/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 376534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	8082A	376495
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	8082A	376495
MB 480-376495/1-A	Method Blank	Total/NA	Solid	8082A	376495
LCS 480-376495/2-A	Lab Control Sample	Total/NA	Solid	8082A	376495

Prep Batch: 376625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	3510C	376306
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	3510C	376306
LB 480-376306/1-F	Method Blank	TCLP	Solid	3510C	376306
MB 480-376625/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-376625/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-376625/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Prep Batch: 376626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	8151A	376306
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	8151A	376306
LB 480-376306/1-G	Method Blank	TCLP	Solid	8151A	376306
MB 480-376626/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-376626/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-376626/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 376893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	8151	376626
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	8151	376626
LB 480-376306/1-G	Method Blank	TCLP	Solid	8151	376626
MB 480-376626/1-A	Method Blank	Total/NA	Solid	8151	376626
LCS 480-376626/2-A	Lab Control Sample	Total/NA	Solid	8151	376626
LCSD 480-376626/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	376626

Analysis Batch: 377016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	8081B	376625
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	8081B	376625
LB 480-376306/1-F	Method Blank	TCLP	Solid	8081B	376625
MB 480-376625/1-A	Method Blank	Total/NA	Solid	8081B	376625
LCS 480-376625/2-A	Lab Control Sample	Total/NA	Solid	8081B	376625
LCSD 480-376625/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	376625

Metals

Leach Batch: 376306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	1311	
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	1311	
LB 480-376306/1-C	Method Blank	TCLP	Solid	1311	
LB 480-376306/1-E	Method Blank	TCLP	Solid	1311	
480-123850-1 MS	WC-9 (0.5-9.0)	TCLP	Solid	1311	
480-123850-1 MSD	WC-9 (0.5-9.0)	TCLP	Solid	1311	

Prep Batch: 376521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	3010A	376306
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	3010A	376306
LB 480-376306/1-C	Method Blank	TCLP	Solid	3010A	376306
MB 480-376521/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-376521/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-123850-1 MS	WC-9 (0.5-9.0)	TCLP	Solid	3010A	376306
480-123850-1 MSD	WC-9 (0.5-9.0)	TCLP	Solid	3010A	376306

Prep Batch: 376569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	7470A	376306
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	7470A	376306
LB 480-376306/1-E	Method Blank	TCLP	Solid	7470A	376306
MB 480-376569/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-376569/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-123850-1 MS	WC-9 (0.5-9.0)	TCLP	Solid	7470A	376306
480-123850-1 MSD	WC-9 (0.5-9.0)	TCLP	Solid	7470A	376306

Analysis Batch: 376699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	7470A	376569
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	7470A	376569
LB 480-376306/1-E	Method Blank	TCLP	Solid	7470A	376569
MB 480-376569/2-A	Method Blank	Total/NA	Solid	7470A	376569
LCS 480-376569/3-A	Lab Control Sample	Total/NA	Solid	7470A	376569
480-123850-1 MS	WC-9 (0.5-9.0)	TCLP	Solid	7470A	376569
480-123850-1 MSD	WC-9 (0.5-9.0)	TCLP	Solid	7470A	376569

Analysis Batch: 376766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	TCLP	Solid	6010C	376521
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	6010C	376521
LB 480-376306/1-C	Method Blank	TCLP	Solid	6010C	376521
MB 480-376521/2-A	Method Blank	Total/NA	Solid	6010C	376521
LCS 480-376521/3-A	Lab Control Sample	Total/NA	Solid	6010C	376521
480-123850-1 MS	WC-9 (0.5-9.0)	TCLP	Solid	6010C	376521
480-123850-1 MSD	WC-9 (0.5-9.0)	TCLP	Solid	6010C	376521

Analysis Batch: 377350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-2	WC-9 (10.5-26.4)	TCLP	Solid	6010C	376521

General Chemistry

Analysis Batch: 375977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	Moisture	
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	Moisture	

Analysis Batch: 376209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	9095B	
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	9095B	
480-123850-1 DU	WC-9 (0.5-9.0)	Total/NA	Solid	9095B	

Analysis Batch: 376234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	9045D	
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	9045D	
LCS 480-376234/1	Lab Control Sample	Total/NA	Solid	9045D	
480-123850-2 DU	WC-9 (10.5-26.4)	Total/NA	Solid	9045D	

Prep Batch: 376785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	7.3.3	
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	7.3.3	
MB 480-376785/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-376785/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 376790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	7.3.4	
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	7.3.4	
MB 480-376790/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-376790/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 376844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	9012	376785
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	9012	376785
MB 480-376785/1-A	Method Blank	Total/NA	Solid	9012	376785
LCS 480-376785/2-A	Lab Control Sample	Total/NA	Solid	9012	376785

Analysis Batch: 376848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	9034	376790
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	9034	376790
MB 480-376790/1-A	Method Blank	Total/NA	Solid	9034	376790
LCS 480-376790/2-A	Lab Control Sample	Total/NA	Solid	9034	376790

Analysis Batch: 377089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123850-1	WC-9 (0.5-9.0)	Total/NA	Solid	1010A	
480-123850-2	WC-9 (10.5-26.4)	Total/NA	Solid	1010A	
LCS 480-377089/1	Lab Control Sample	Total/NA	Solid	1010A	
480-123850-1 DU	WC-9 (0.5-9.0)	Total/NA	Solid	1010A	

Client Sample ID: WC-9 (0.5-9.0) — **Lab Sample ID: 480-123850-1**
Date Collected: 09/08/17 08:00 — **Matrix: Solid**
Date Received: 09/09/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			376319	09/12/17 10:07	NMC	TAL BUF
TCLP	Analysis	8260C		10	376688	09/13/17 23:52	NEA	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3510C			376529	09/13/17 10:21	JMP	TAL BUF
TCLP	Analysis	8270D		1	376846	09/14/17 19:30	PJQ	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3510C			376625	09/13/17 14:15	SMP	TAL BUF
TCLP	Analysis	8081B		1	377016	09/15/17 14:03	MAN	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	8151A			376626	09/13/17 14:22	RLT	TAL BUF
TCLP	Analysis	8151		1	376893	09/15/17 01:16	JMO	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3010A			376521	09/13/17 10:04	EMB	TAL BUF
TCLP	Analysis	6010C		1	376766	09/13/17 19:22	LMH	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	7470A			376569	09/13/17 12:15	MVZ	TAL BUF
TCLP	Analysis	7470A		1	376699	09/13/17 18:01	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377089	09/15/17 13:36	LAW	TAL BUF
Total/NA	Prep	7.3.3			376785	09/14/17 03:00	LAW	TAL BUF
Total/NA	Analysis	9012		1	376844	09/14/17 12:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			376790	09/14/17 03:00	LAW	TAL BUF
Total/NA	Analysis	9034		1	376848	09/14/17 12:15	MDL	TAL BUF
Total/NA	Analysis	9045D		1	376234	09/11/17 19:30	ALZ	TAL BUF
Total/NA	Analysis	9095B		1	376209	09/11/17 15:10	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	375977	09/09/17 07:42	CSW	TAL BUF

Client Sample ID: WC-9 (0.5-9.0) — **Lab Sample ID: 480-123850-1**
Date Collected: 09/08/17 08:00 — **Matrix: Solid**
Date Received: 09/09/17 01:45 — **Percent Solids: 94.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			376495	09/13/17 08:18	CAM	TAL BUF
Total/NA	Analysis	8082A		1	376534	09/14/17 04:06	JMO	TAL BUF

Client Sample ID: WC-9 (10.5-26.4) — **Lab Sample ID: 480-123850-2**
Date Collected: 09/08/17 11:00 — **Matrix: Solid**
Date Received: 09/09/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			376319	09/12/17 10:07	NMC	TAL BUF
TCLP	Analysis	8260C		10	376688	09/14/17 00:15	NEA	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3510C			376529	09/13/17 10:21	JMP	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123850-1

Client Sample ID: WC-9 (10.5-26.4) — **Lab Sample ID: 480-123850-2**
Date Collected: 09/08/17 11:00 — **Matrix: Solid**
Date Received: 09/09/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	8270D		1	376846	09/14/17 19:57	PJQ	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3510C			376625	09/13/17 14:15	SMP	TAL BUF
TCLP	Analysis	8081B		1	377016	09/15/17 14:23	MAN	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	8151A			376626	09/13/17 14:22	RLT	TAL BUF
TCLP	Analysis	8151		1	376893	09/15/17 01:46	JMO	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3010A			376521	09/13/17 10:04	EMB	TAL BUF
TCLP	Analysis	6010C		1	376766	09/13/17 19:51	LMH	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	3010A			376521	09/13/17 10:04	EMB	TAL BUF
TCLP	Analysis	6010C		1	377350	09/14/17 13:27	LMH	TAL BUF
TCLP	Leach	1311			376306	09/12/17 09:45	NMC	TAL BUF
TCLP	Prep	7470A			376569	09/13/17 12:15	MVZ	TAL BUF
TCLP	Analysis	7470A		1	376699	09/13/17 18:12	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377089	09/15/17 13:36	LAW	TAL BUF
Total/NA	Prep	7.3.3			376785	09/14/17 03:00	LAW	TAL BUF
Total/NA	Analysis	9012		1	376844	09/14/17 12:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			376790	09/14/17 03:00	LAW	TAL BUF
Total/NA	Analysis	9034		1	376848	09/14/17 12:15	MDL	TAL BUF
Total/NA	Analysis	9045D		1	376234	09/11/17 19:30	ALZ	TAL BUF
Total/NA	Analysis	9095B		1	376209	09/11/17 15:10	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	375977	09/09/17 07:42	CSW	TAL BUF

Client Sample ID: WC-9 (10.5-26.4) — **Lab Sample ID: 480-123850-2**
Date Collected: 09/08/17 11:00 — **Matrix: Solid**
Date Received: 09/09/17 01:45 — **Percent Solids: 89.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			376495	09/13/17 08:18	CAM	TAL BUF
Total/NA	Analysis	8082A		1	376534	09/14/17 04:22	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123850-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123850-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-123850-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-123850-1	WC-9 (0.5-9.0)	Solid	09/08/17 08:00	09/09/17 01:45
480-123850-2	WC-9 (10.5-26.4)	Solid	09/08/17 11:00	09/09/17 01:45

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
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480-123850 COC

Client Information	Sampler: AThomas	Lab PM: Deyo, Melissa L	COC No: 480-101161-24047.1
Client Contact: Mr. Michael Jones	Phone: (518)396-7296	E-Mail: melissa.deyo@testamericainc.com	Page: Page 1 of 4
Company: ARCADIS U.S. Inc			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:		
City: Syracuse	TAT Requested (days): Standard		
State, Zip: NY, 13202			
Phone: -	PO #: B0036648.1401.00006		
Email: michael.jones@arcadis.com	WO #:		
Project Name: National Grid - North Albany Project	Project #: 48016528		
Site: National Grid - N Albany	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012_ReactiveCN, 9034_Reactive	9095B - Paint Filter	6010C, 7470A, 8081B, 8151A, 8270D	8260C - TCLP Volatiles	1010A, 9045D	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - DRO	8015D_GRO - GRO	6010C - Percent Sulfur	D240_87 - BTU	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	N		
WC-9 (0.5-9.0)	9/8/17	0800	C	Solid	N	N	1	1	1	1	1	1								6	short holding time
WC-9 (10.5-26.4)	9/8/17	1100	C	Solid	N	N	1	1	1	1	1	1								6	short holding time
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

N/A 9/8/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Cindy Thomas	9/8/17 1500	Arcadis	Kyle Zacher	9/8/17 1500	TA
2	Kyle Zacher	9/8/17 1800	TA		9-9-17 0145	
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.5 #1

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-123850-1

Login Number: 123850

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-124032-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Melissa Deyo

Authorized for release by:
9/26/2017 2:47:56 PM

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-124032-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-124032-1

Receipt
The samples were received on 9/13/2017 2:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8° C.

GC/MS VOA
Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: WC-8 (8-16) (480-124032-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-8 (0.5-8) (480-124032-1) and (LB 480-377280/1-A). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-378141 recovered outside acceptance criteria, low biased, for Vinyl chloride and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample ise impacted: WC-8 (0.5-8) (480-124032-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to color and, viscosity: WC-8 (8-16) (480-124032-2). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377366 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane] . A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples is impacted:WC-8 (8-16) (480-124032-2).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377366 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-8 (8-16) (480-124032-2).

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: WC-8 (8-16) (480-124032-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377597 recovered above the upper control limit for 2,4-Dinitrophenol and 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-8 (8-16) (480-124032-2).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377597 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane] and Benzaldehyde. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-8 (8-16) (480-124032-2).

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-8 (8-16) (480-124032-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted due to abundance of target analytes: WC-8 (8-16) (480-124032-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377861 recovered above the upper control limit for 2,4-Dinitrophenol, 4-Nitrophenol and, Atrazine. The samples associated with this CCV were non-detects for the affected analytes;

Job ID: 480-124032-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

therefore, the data have been reported. The following sample is impacted: WC-8 (8-16) (480-124032-2).

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-377832 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The following sample is impacted: WC-8 (0.5-8) (480-124032-1).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377832 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-8 (0.5-8) (480-124032-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) 8015D: The method blank for preparation batch 480-377030 and analytical batch 480-377014 contained GRO (C6-C10) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The following sample is impacted: WC-8 (8-16) (480-124032-2).

Method(s) 8015D: The following sample was diluted due to the abundance of target analytes: WC-8 (8-16) (480-124032-2). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015D: The following sample was diluted due to the abundance of target analytes: WC-8 (8-16) (480-124032-2). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8151A: The following samples are associated with a Method Blank (MB 480-377621/1-A) that has recoveries for the surrogate 2,4-Dichlorophenylacetic acid that were slightly below acceptance limits: WC-8 (0.5-8) (480-124032-1). The surrogate recoveries in all other batch QC are within limits. Therefore, the data has been reported.

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-8 (0.5-8) (480-124032-1) and (LB 480-377279/1-E). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-378208 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-8 (0.5-8) (480-124032-1).

Method(s) 8081B: All primary data for analytical batch 377761 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 376534 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: All primary data for analytical batch 378208 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-378275/32) associated with batch 480-378275, contained Total Iron above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples WC-8 (8-16)

Job ID: 480-124032-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-124032-2), (LCSSRM 480-377569/2-) and (MB 480-377569/1-A) was not performed.

Method(s) 6010C: The TCLP leachate blank (LB 480-377279) for batch 480-377279 and 480-377539 contained Lead above the reporting limit (RL). This target analyte concentration was less than the TCLP Regulatory Limit. The associated sample WC-8 (0.5-8) (480-124032-1) was also below the TCLP Regulatory Limit for this analyte; therefore, re-extraction was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-8 (0.5-8) (480-124032-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550C: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: WC-8 (8-16) (480-124032-2). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3550C: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: WC-8 (8-16) (480-124032-2). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Client Sample ID: WC-8 (0.5-8)

Lab Sample ID: 480-124032-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0076	J	0.010	0.0041	mg/L	10		8260C	TCLP
Tetrachloroethene	0.0037	J	0.010	0.0036	mg/L	10		8260C	TCLP
Arsenic	0.0094	J B	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.57	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0013	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.020	B	0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	20.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-8 (8-16)

Lab Sample ID: 480-124032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	270000		5400	1000	ug/Kg	100	☼	8260C	Total/NA
Ethylbenzene	490000		5400	1600	ug/Kg	100	☼	8260C	Total/NA
Isopropylbenzene	4500	J	5400	810	ug/Kg	100	☼	8260C	Total/NA
Toluene	210000		5400	1400	ug/Kg	100	☼	8260C	Total/NA
Xylenes, Total	190000		11000	3000	ug/Kg	100	☼	8260C	Total/NA
Biphenyl	420000	E	12000	1700	ug/Kg	20	☼	8270D	Total/NA
2-Methylnaphthalene	870000	E	12000	2300	ug/Kg	20	☼	8270D	Total/NA
Acenaphthene	630000	E	12000	1700	ug/Kg	20	☼	8270D	Total/NA
Acenaphthylene	920000	E	12000	1500	ug/Kg	20	☼	8270D	Total/NA
Anthracene	670000	E	12000	2900	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	440000	E	12000	1200	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	570000	E	12000	1700	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	400000	E	12000	1800	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	410000	E	12000	1200	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	240000		12000	1500	ug/Kg	20	☼	8270D	Total/NA
Carbazole	15000		12000	1400	ug/Kg	20	☼	8270D	Total/NA
Chrysene	430000	E	12000	2600	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	41000		12000	1400	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	1500000	E	12000	1200	ug/Kg	20	☼	8270D	Total/NA
Fluorene	600000	E	12000	1400	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	260000		12000	1400	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	5700000	E	12000	1500	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	3000000	E	12000	1700	ug/Kg	20	☼	8270D	Total/NA
Pyrene	2000000	E	12000	1400	ug/Kg	20	☼	8270D	Total/NA
Biphenyl - DL	400000		230000	34000	ug/Kg	400	☼	8270D	Total/NA
2-Methylnaphthalene - DL	860000		230000	46000	ug/Kg	400	☼	8270D	Total/NA
Acenaphthene - DL	610000		230000	34000	ug/Kg	400	☼	8270D	Total/NA
Acenaphthylene - DL	850000		230000	30000	ug/Kg	400	☼	8270D	Total/NA
Anthracene - DL	630000		230000	57000	ug/Kg	400	☼	8270D	Total/NA
Benzo[a]anthracene - DL	420000		230000	23000	ug/Kg	400	☼	8270D	Total/NA
Benzo[a]pyrene - DL	510000		230000	34000	ug/Kg	400	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	390000		230000	37000	ug/Kg	400	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	360000		230000	25000	ug/Kg	400	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	200000	J	230000	30000	ug/Kg	400	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Client Sample ID: WC-8 (8-16) (Continued)

Lab Sample ID: 480-124032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene - DL	440000		230000	52000	ug/Kg	400	☼	8270D	Total/NA
Dibenzofuran - DL	44000	J	230000	27000	ug/Kg	400	☼	8270D	Total/NA
Fluoranthene - DL	1400000		230000	25000	ug/Kg	400	☼	8270D	Total/NA
Fluorene - DL	590000		230000	27000	ug/Kg	400	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	240000		230000	29000	ug/Kg	400	☼	8270D	Total/NA
Naphthalene - DL	6300000	E	230000	30000	ug/Kg	400	☼	8270D	Total/NA
Phenanthrene - DL	3000000		230000	34000	ug/Kg	400	☼	8270D	Total/NA
Pyrene - DL	1900000		230000	27000	ug/Kg	400	☼	8270D	Total/NA
Biphenyl - DL2	410000	J	1200000	170000	ug/Kg	2000	☼	8270D	Total/NA
2-Methylnaphthalene - DL2	870000	J	1200000	230000	ug/Kg	2000	☼	8270D	Total/NA
Acenaphthene - DL2	620000	J	1200000	170000	ug/Kg	2000	☼	8270D	Total/NA
Acenaphthylene - DL2	820000	J	1200000	150000	ug/Kg	2000	☼	8270D	Total/NA
Anthracene - DL2	680000	J	1200000	290000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[a]anthracene - DL2	450000	J	1200000	120000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[a]pyrene - DL2	470000	J	1200000	170000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL2	390000	J	1200000	180000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL2	340000	J	1200000	120000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL2	190000	J	1200000	150000	ug/Kg	2000	☼	8270D	Total/NA
Chrysene - DL2	500000	J	1200000	260000	ug/Kg	2000	☼	8270D	Total/NA
Fluoranthene - DL2	1400000		1200000	120000	ug/Kg	2000	☼	8270D	Total/NA
Fluorene - DL2	570000	J	1200000	140000	ug/Kg	2000	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL2	230000	J	1200000	140000	ug/Kg	2000	☼	8270D	Total/NA
Naphthalene - DL2	6100000		1200000	150000	ug/Kg	2000	☼	8270D	Total/NA
Phenanthrene - DL2	3100000		1200000	170000	ug/Kg	2000	☼	8270D	Total/NA
Pyrene - DL2	1900000		1200000	140000	ug/Kg	2000	☼	8270D	Total/NA
GRO (C6-C10)	1800	B	290	75	mg/Kg	200	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	38000		14000	4300	mg/Kg	250	☼	8015D	Total/NA
Aluminum	12600		11.9	5.3	mg/Kg	1	☼	6010C	Total/NA
Sulfur	1.7		0.0059	0.0031	%	1	☼	6010C	Total/NA
Arsenic	5.1		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	87.9		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.59		0.24	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.16	J	0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	1900		59.7	3.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.0	B	0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.4		0.60	0.060	mg/Kg	1	☼	6010C	Total/NA
Copper	21.1		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	22600	^	11.9	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	26.9		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5980		23.9	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	398	B	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	24.2		6.0	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	2490		35.8	23.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.48	J	4.8	0.48	mg/Kg	1	☼	6010C	Total/NA
Sodium	200		167	15.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.7		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	66.0		2.4	0.76	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.042		0.025	0.010	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.1		1.1	0.54	mg/Kg	1	☼	9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Client Sample ID: WC-8 (8-16) (Continued)

Lab Sample ID: 480-124032-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
BTU	DNF		2.00	2.00	BTU/lb	1		D240-87	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-8 (0.5-8)

Date Collected: 09/12/17 11:50
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-1

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/22/17 03:19	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/22/17 03:19	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/22/17 03:19	10
Benzene	**0.0076**	**J**	0.010	0.0041	mg/L			09/22/17 03:19	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/22/17 03:19	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/22/17 03:19	10
Chloroform	ND		0.010	0.0034	mg/L			09/22/17 03:19	10
Tetrachloroethene	**0.0037**	**J**	0.010	0.0036	mg/L			09/22/17 03:19	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/22/17 03:19	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/22/17 03:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/22/17 03:19*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/22/17 03:19*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*09/22/17 03:19*	*10*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/22/17 03:19*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/19/17 14:15	09/21/17 01:14	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/19/17 14:15	09/21/17 01:14	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/19/17 14:15	09/21/17 01:14	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/19/17 14:15	09/21/17 01:14	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/19/17 14:15	09/21/17 01:14	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/19/17 14:15	09/21/17 01:14	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/19/17 14:15	09/21/17 01:14	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/19/17 14:15	09/21/17 01:14	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/19/17 14:15	09/21/17 01:14	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/19/17 14:15	09/21/17 01:14	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/19/17 14:15	09/21/17 01:14	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/19/17 14:15	09/21/17 01:14	1
Pyridine	ND		0.025	0.00041	mg/L		09/19/17 14:15	09/21/17 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*58*		*41 - 120*	*09/19/17 14:15*	*09/21/17 01:14*	*1*
2-Fluorobiphenyl	*79*		*48 - 120*	*09/19/17 14:15*	*09/21/17 01:14*	*1*
2-Fluorophenol	*44*		*35 - 120*	*09/19/17 14:15*	*09/21/17 01:14*	*1*
Nitrobenzene-d5	*72*		*46 - 120*	*09/19/17 14:15*	*09/21/17 01:14*	*1*
Phenol-d5	*32*		*22 - 120*	*09/19/17 14:15*	*09/21/17 01:14*	*1*
p-Terphenyl-d14	*83*		*59 - 136*	*09/19/17 14:15*	*09/21/17 01:14*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/19/17 14:29	09/20/17 13:54	1
Endrin	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 13:54	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/19/17 14:29	09/20/17 13:54	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/19/17 14:29	09/20/17 13:54	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/19/17 14:29	09/20/17 13:54	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 13:54	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/19/17 14:29	09/20/17 13:54	1

Client Sample ID: WC-8 (0.5-8)

Lab Sample ID: 480-124032-1

Date Collected: 09/12/17 11:50

Matrix: Solid

Date Received: 09/13/17 02:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*20 - 120*	*09/19/17 14:29*	*09/20/17 13:54*	*1*
DCB Decachlorobiphenyl	*98*		*20 - 120*	*09/19/17 14:29*	*09/20/17 13:54*	*1*
Tetrachloro-m-xylene	*96*		*44 - 120*	*09/19/17 14:29*	*09/20/17 13:54*	*1*
Tetrachloro-m-xylene	*68*		*44 - 120*	*09/19/17 14:29*	*09/20/17 13:54*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/19/17 14:21	09/22/17 16:50	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/19/17 14:21	09/22/17 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*22*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 16:50*	*1*
2,4-Dichlorophenylacetic acid	*21*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 16:50*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0094**	**J B**	0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:45	1
Barium	**0.57**	**J**	1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:45	1
Cadmium	**0.0013**	**J**	0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:45	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:45	1
Lead	**0.020**	**B**	0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:45	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:45	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:31	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/18/17 19:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/14/17 03:00	09/14/17 12:10	1
Sulfide, Reactive	ND		10	10	mg/Kg		09/14/17 03:00	09/14/17 12:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			09/18/17 08:41	1
pH	**8.4**	**HF**	0.1	0.1	SU			09/17/17 09:56	1
Temperature	**20.9**	**HF**	0.001	0.001	Degrees C			09/17/17 09:56	1

Client Sample ID: WC-8 (0.5-8)

Lab Sample ID: 480-124032-1

Date Collected: 09/12/17 11:50

Matrix: Solid

Date Received: 09/13/17 02:15

Percent Solids: 88.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	09/13/17 08:31	09/13/17 22:02	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	09/13/17 08:31	09/13/17 22:02	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	09/13/17 08:31	09/13/17 22:02	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	09/13/17 08:31	09/13/17 22:02	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	09/13/17 08:31	09/13/17 22:02	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	09/13/17 08:31	09/13/17 22:02	1

Client Sample ID: WC-8 (0.5-8)

Lab Sample ID: 480-124032-1
Date Collected: 09/12/17 11:50
Matrix: Solid
Date Received: 09/13/17 02:15
Percent Solids: 88.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.26	0.12	mg/Kg	☼	09/13/17 08:31	09/13/17 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*09/13/17 08:31*	*09/13/17 22:02*	*1*
DCB Decachlorobiphenyl	*113*		*65 - 174*	*09/13/17 08:31*	*09/13/17 22:02*	*1*
Tetrachloro-m-xylene	*88*		*60 - 154*	*09/13/17 08:31*	*09/13/17 22:02*	*1*
Tetrachloro-m-xylene	*89*		*60 - 154*	*09/13/17 08:31*	*09/13/17 22:02*	*1*

Client Sample ID: WC-8 (8-16)

Lab Sample ID: 480-124032-2
Date Collected: 09/12/17 13:15
Matrix: Solid
Date Received: 09/13/17 02:15
Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5400	1500	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,1,2,2-Tetrachloroethane	ND		5400	880	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5400	2700	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,1,2-Trichloroethane	ND		5400	1100	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,1-Dichloroethane	ND		5400	1700	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,1-Dichloroethene	ND		5400	1900	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,2,4-Trichlorobenzene	ND		5400	2000	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,2-Dibromo-3-Chloropropane	ND		5400	2700	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,2-Dichlorobenzene	ND		5400	1400	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,2-Dichloroethane	ND		5400	2200	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,2-Dichloropropane	ND		5400	870	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,3-Dichlorobenzene	ND		5400	1400	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,4-Dichlorobenzene	ND		5400	750	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
2-Butanone (MEK)	ND		27000	16000	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
2-Hexanone	ND		27000	11000	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
4-Methyl-2-pentanone (MIBK)	ND		27000	1700	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Acetone	ND		27000	22000	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Benzene	**270000**		5400	1000	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Bromoform	ND		5400	2700	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Bromomethane	ND		5400	1200	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Carbon disulfide	ND		5400	2500	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Carbon tetrachloride	ND		5400	1400	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Chlorobenzene	ND		5400	710	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Dibromochloromethane	ND		5400	2600	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Chloroethane	ND		5400	1100	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Chloroform	ND		5400	3700	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Chloromethane	ND		5400	1300	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
cis-1,2-Dichloroethene	ND		5400	1500	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Cyclohexane	ND		5400	1200	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Bromodichloromethane	ND		5400	1100	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Dichlorodifluoromethane	ND		5400	2400	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Ethylbenzene	**490000**		5400	1600	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
1,2-Dibromoethane	ND		5400	940	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Isopropylbenzene	**4500**	**J**	5400	810	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Methyl acetate	ND		27000	2600	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Methyl tert-butyl ether	ND		5400	2000	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100

Client Sample ID: WC-8 (8-16)

Date Collected: 09/12/17 13:15
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-2

Matrix: Solid
Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		5400	2500	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Methylene Chloride	ND		5400	1100	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Tetrachloroethene	ND		5400	720	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Toluene	**210000**		5400	1400	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
trans-1,2-Dichloroethene	ND		5400	1300	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
trans-1,3-Dichloropropene	ND		5400	530	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Trichloroethene	ND		5400	1500	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Trichlorofluoromethane	ND		5400	2500	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Vinyl chloride	ND		5400	1800	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Xylenes, Total	**190000**		11000	3000	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
cis-1,3-Dichloropropene	ND		5400	1300	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100
Styrene	ND		5400	1300	ug/Kg	☼	09/17/17 14:30	09/18/17 13:07	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*53 - 146*	*09/17/17 14:30*	*09/18/17 13:07*	*100*
4-Bromofluorobenzene (Surr)	*101*		*49 - 148*	*09/17/17 14:30*	*09/18/17 13:07*	*100*
Toluene-d8 (Surr)	*101*		*50 - 149*	*09/17/17 14:30*	*09/18/17 13:07*	*100*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*09/17/17 14:30*	*09/18/17 13:07*	*100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**420000**	**E**	12000	1700	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
bis (2-chloroisopropyl) ether	ND		12000	2300	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2,4,5-Trichlorophenol	ND		12000	3100	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2,4,6-Trichlorophenol	ND		12000	2300	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2,4-Dichlorophenol	ND		12000	1200	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2,4-Dimethylphenol	ND		12000	2800	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2,4-Dinitrophenol	ND		110000	53000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2,4-Dinitrotoluene	ND		12000	2400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2,6-Dinitrotoluene	ND		12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2-Chloronaphthalene	ND		12000	1900	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2-Chlorophenol	ND		12000	2100	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2-Methylnaphthalene	**870000**	**E**	12000	2300	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2-Methylphenol	ND		12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2-Nitroaniline	ND		23000	1700	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
2-Nitrophenol	ND		12000	3300	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
3,3'-Dichlorobenzidine	ND		23000	14000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
3-Nitroaniline	ND		23000	3200	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
4,6-Dinitro-2-methylphenol	ND		23000	12000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
4-Bromophenyl phenyl ether	ND		12000	1600	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
4-Chloro-3-methylphenol	ND		12000	2900	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
4-Chloroaniline	ND		12000	2900	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
4-Chlorophenyl phenyl ether	ND		12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
4-Methylphenol	ND		23000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
4-Nitroaniline	ND		23000	6100	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
4-Nitrophenol	ND		23000	8100	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Acenaphthene	**630000**	**E**	12000	1700	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Acenaphthylene	**920000**	**E**	12000	1500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Acetophenone	ND		12000	1600	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Anthracene	**670000**	**E**	12000	2900	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20

Client Sample ID: WC-8 (8-16)
Date Collected: 09/12/17 13:15
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-2
Matrix: Solid
Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		12000	4000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Benzaldehyde	ND		12000	9200	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Benzo[a]anthracene	**440000**	**E**	12000	1200	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Benzo[a]pyrene	**570000**	**E**	12000	1700	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Benzo[b]fluoranthene	**400000**	**E**	12000	1800	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Benzo[g,h,i]perylene	**410000**	**E**	12000	1200	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Benzo[k]fluoranthene	**240000**		12000	1500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Bis(2-chloroethoxy)methane	ND		12000	2500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Bis(2-chloroethyl)ether	ND		12000	1500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Bis(2-ethylhexyl) phthalate	ND		12000	4000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Butyl benzyl phthalate	ND		12000	1900	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Caprolactam	ND		12000	3500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Carbazole	**15000**		12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Chrysene	**430000**	**E**	12000	2600	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Di-n-butyl phthalate	ND		12000	2000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Di-n-octyl phthalate	ND		12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Dibenz(a,h)anthracene	ND		12000	2000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Dibenzofuran	**41000**		12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Diethyl phthalate	ND		12000	1500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Dimethyl phthalate	ND		12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Fluoranthene	**1500000**	**E**	12000	1200	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Fluorene	**600000**	**E**	12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Hexachlorobenzene	ND		12000	1600	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Hexachlorobutadiene	ND		12000	1700	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Hexachlorocyclopentadiene	ND		12000	1600	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Hexachloroethane	ND		12000	1500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Indeno[1,2,3-cd]pyrene	**260000**		12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Isophorone	ND		12000	2500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
N-Nitrosodi-n-propylamine	ND		12000	2000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
N-Nitrosodiphenylamine	ND		12000	9400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Naphthalene	**5700000**	**E**	12000	1500	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Nitrobenzene	ND		12000	1300	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Pentachlorophenol	ND		23000	12000	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Phenanthrene	**3000000**	**E**	12000	1700	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Phenol	ND		12000	1800	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20
Pyrene	**2000000**	**E**	12000	1400	ug/Kg	☼	09/15/17 06:53	09/18/17 20:09	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*137*	*X*	*54 - 120*	*09/15/17 06:53*	*09/18/17 20:09*	*20*
2-Fluorobiphenyl	*77*		*60 - 120*	*09/15/17 06:53*	*09/18/17 20:09*	*20*
2-Fluorophenol	*59*		*52 - 120*	*09/15/17 06:53*	*09/18/17 20:09*	*20*
Nitrobenzene-d5	*76*		*53 - 120*	*09/15/17 06:53*	*09/18/17 20:09*	*20*
p-Terphenyl-d14	*86*		*65 - 121*	*09/15/17 06:53*	*09/18/17 20:09*	*20*
Phenol-d5	*84*		*54 - 120*	*09/15/17 06:53*	*09/18/17 20:09*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**400000**		230000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
bis (2-chloroisopropyl) ether	ND		230000	46000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2,4,5-Trichlorophenol	ND		230000	63000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400

Client Sample ID: WC-8 (8-16)
Date Collected: 09/12/17 13:15
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-2
Matrix: Solid
Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		230000	46000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2,4-Dichlorophenol	ND		230000	25000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2,4-Dimethylphenol	ND		230000	56000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2,4-Dinitrophenol	ND		2300000	1100000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2,4-Dinitrotoluene	ND		230000	48000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2,6-Dinitrotoluene	ND		230000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2-Chloronaphthalene	ND		230000	38000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2-Chlorophenol	ND		230000	42000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2-Methylnaphthalene	**860000**		230000	46000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2-Methylphenol	ND		230000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2-Nitroaniline	ND		450000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
2-Nitrophenol	ND		230000	65000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
3,3'-Dichlorobenzidine	ND		450000	270000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
3-Nitroaniline	ND		450000	64000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
4,6-Dinitro-2-methylphenol	ND		450000	230000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
4-Bromophenyl phenyl ether	ND		230000	33000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
4-Chloro-3-methylphenol	ND		230000	57000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
4-Chloroaniline	ND		230000	57000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
4-Chlorophenyl phenyl ether	ND		230000	29000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
4-Methylphenol	ND		450000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
4-Nitroaniline	ND		450000	120000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
4-Nitrophenol	ND		450000	160000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Acenaphthene	**610000**		230000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Acenaphthylene	**850000**		230000	30000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Acetophenone	ND		230000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Anthracene	**630000**		230000	57000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Atrazine	ND		230000	80000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Benzaldehyde	ND		230000	180000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Benzo[a]anthracene	**420000**		230000	23000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Benzo[a]pyrene	**510000**		230000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Benzo[b]fluoranthene	**390000**		230000	37000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Benzo[g,h,i]perylene	**360000**		230000	25000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Benzo[k]fluoranthene	**200000**	**J**	230000	30000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Bis(2-chloroethoxy)methane	ND		230000	49000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Bis(2-chloroethyl)ether	ND		230000	30000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Bis(2-ethylhexyl) phthalate	ND		230000	79000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Butyl benzyl phthalate	ND		230000	38000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Caprolactam	ND		230000	70000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Carbazole	ND		230000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Chrysene	**440000**		230000	52000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Di-n-butyl phthalate	ND		230000	40000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Di-n-octyl phthalate	ND		230000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Dibenz(a,h)anthracene	ND		230000	41000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Dibenzofuran	**44000**	**J**	230000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Diethyl phthalate	ND		230000	30000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Dimethyl phthalate	ND		230000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Fluoranthene	**1400000**		230000	25000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Fluorene	**590000**		230000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Hexachlorobenzene	ND		230000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400

Client Sample ID: WC-8 (8-16)
Date Collected: 09/12/17 13:15
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-2
Matrix: Solid
Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		230000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Hexachlorocyclopentadiene	ND		230000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Hexachloroethane	ND		230000	30000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Indeno[1,2,3-cd]pyrene	**240000**		230000	29000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Isophorone	ND		230000	49000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
N-Nitrosodi-n-propylamine	ND		230000	40000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
N-Nitrosodiphenylamine	ND		230000	190000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Naphthalene	**6300000**	**E**	230000	30000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Nitrobenzene	ND		230000	26000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Pentachlorophenol	ND		450000	230000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Phenanthrene	**3000000**		230000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Phenol	ND		230000	35000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400
Pyrene	**1900000**		230000	27000	ug/Kg	☼	09/15/17 06:53	09/19/17 16:37	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*09/15/17 06:53*	*09/19/17 16:37*	*400*
2-Fluorobiphenyl	*0*	*X*	*60 - 120*	*09/15/17 06:53*	*09/19/17 16:37*	*400*
2-Fluorophenol	*0*	*X*	*52 - 120*	*09/15/17 06:53*	*09/19/17 16:37*	*400*
Nitrobenzene-d5	*0*	*X*	*53 - 120*	*09/15/17 06:53*	*09/19/17 16:37*	*400*
p-Terphenyl-d14	*0*	*X*	*65 - 121*	*09/15/17 06:53*	*09/19/17 16:37*	*400*
Phenol-d5	*0*	*X*	*54 - 120*	*09/15/17 06:53*	*09/19/17 16:37*	*400*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**410000**	**J**	1200000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
bis (2-chloroisopropyl) ether	ND		1200000	230000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2,4,5-Trichlorophenol	ND		1200000	310000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2,4,6-Trichlorophenol	ND		1200000	230000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2,4-Dichlorophenol	ND		1200000	120000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2,4-Dimethylphenol	ND		1200000	280000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2,4-Dinitrophenol	ND		11000000	5300000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2,4-Dinitrotoluene	ND		1200000	240000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2,6-Dinitrotoluene	ND		1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2-Chloronaphthalene	ND		1200000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2-Chlorophenol	ND		1200000	210000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2-Methylnaphthalene	**870000**	**J**	1200000	230000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2-Methylphenol	ND		1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2-Nitroaniline	ND		2300000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
2-Nitrophenol	ND		1200000	330000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
3,3'-Dichlorobenzidine	ND		2300000	1400000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
3-Nitroaniline	ND		2300000	320000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
4,6-Dinitro-2-methylphenol	ND		2300000	1200000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
4-Bromophenyl phenyl ether	ND		1200000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
4-Chloro-3-methylphenol	ND		1200000	290000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
4-Chloroaniline	ND		1200000	290000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
4-Chlorophenyl phenyl ether	ND		1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
4-Methylphenol	ND		2300000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
4-Nitroaniline	ND		2300000	610000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
4-Nitrophenol	ND		2300000	810000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Acenaphthene	**620000**	**J**	1200000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000

Client Sample ID: WC-8 (8-16)
Date Collected: 09/12/17 13:15
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-2
Matrix: Solid
Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**820000**	**J**	1200000	150000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Acetophenone	ND		1200000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Anthracene	**680000**	**J**	1200000	290000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Atrazine	ND		1200000	400000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Benzaldehyde	ND		1200000	920000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Benzo[a]anthracene	**450000**	**J**	1200000	120000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Benzo[a]pyrene	**470000**	**J**	1200000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Benzo[b]fluoranthene	**390000**	**J**	1200000	180000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Benzo[g,h,i]perylene	**340000**	**J**	1200000	120000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Benzo[k]fluoranthene	**190000**	**J**	1200000	150000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Bis(2-chloroethoxy)methane	ND		1200000	250000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Bis(2-chloroethyl)ether	ND		1200000	150000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Bis(2-ethylhexyl) phthalate	ND		1200000	400000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Butyl benzyl phthalate	ND		1200000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Caprolactam	ND		1200000	350000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Carbazole	ND		1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Chrysene	**500000**	**J**	1200000	260000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Di-n-butyl phthalate	ND		1200000	200000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Di-n-octyl phthalate	ND		1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Dibenz(a,h)anthracene	ND		1200000	200000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Dibenzofuran	ND		1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Diethyl phthalate	ND		1200000	150000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Dimethyl phthalate	ND		1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Fluoranthene	**1400000**		1200000	120000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Fluorene	**570000**	**J**	1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Hexachlorobenzene	ND		1200000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Hexachlorobutadiene	ND		1200000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Hexachlorocyclopentadiene	ND		1200000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Hexachloroethane	ND		1200000	150000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Indeno[1,2,3-cd]pyrene	**230000**	**J**	1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Isophorone	ND		1200000	250000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
N-Nitrosodi-n-propylamine	ND		1200000	200000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
N-Nitrosodiphenylamine	ND		1200000	940000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Naphthalene	**6100000**		1200000	150000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Nitrobenzene	ND		1200000	130000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Pentachlorophenol	ND		2300000	1200000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Phenanthrene	**3100000**		1200000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Phenol	ND		1200000	180000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000
Pyrene	**1900000**		1200000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 16:46	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*09/15/17 06:53*	*09/20/17 16:46*	*2000*
2-Fluorobiphenyl	*0*	*X*	*60 - 120*	*09/15/17 06:53*	*09/20/17 16:46*	*2000*
2-Fluorophenol	*0*	*X*	*52 - 120*	*09/15/17 06:53*	*09/20/17 16:46*	*2000*
Nitrobenzene-d5	*0*	*X*	*53 - 120*	*09/15/17 06:53*	*09/20/17 16:46*	*2000*
p-Terphenyl-d14	*0*	*X*	*65 - 121*	*09/15/17 06:53*	*09/20/17 16:46*	*2000*
Phenol-d5	*0*	*X*	*54 - 120*	*09/15/17 06:53*	*09/20/17 16:46*	*2000*

Client Sample ID: WC-8 (8-16)

Date Collected: 09/12/17 13:15
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-2

Matrix: Solid
Percent Solids: 83.0

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	1800	B	290	75	mg/Kg	☼	09/15/17 09:20	09/15/17 13:26	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*0*	*X*	*46 - 156*	*09/15/17 09:20*	*09/15/17 13:26*	*200*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38000		14000	4300	mg/Kg	☼	09/14/17 06:05	09/15/17 16:10	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*114*		*48 - 125*	*09/14/17 06:05*	*09/15/17 16:10*	*250*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	09/13/17 08:31	09/13/17 22:18	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	09/13/17 08:31	09/13/17 22:18	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	09/13/17 08:31	09/13/17 22:18	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	09/13/17 08:31	09/13/17 22:18	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	09/13/17 08:31	09/13/17 22:18	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	09/13/17 08:31	09/13/17 22:18	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	09/13/17 08:31	09/13/17 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*60 - 154*	*09/13/17 08:31*	*09/13/17 22:18*	*1*
Tetrachloro-m-xylene	*84*		*60 - 154*	*09/13/17 08:31*	*09/13/17 22:18*	*1*
DCB Decachlorobiphenyl	*92*		*65 - 174*	*09/13/17 08:31*	*09/13/17 22:18*	*1*
DCB Decachlorobiphenyl	*123*		*65 - 174*	*09/13/17 08:31*	*09/13/17 22:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12600		11.9	5.3	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Sulfur	1.7		0.0059	0.0031	%	☼	09/15/17 16:47	09/19/17 14:40	1
Antimony	ND		17.9	0.48	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Arsenic	5.1		2.4	0.48	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Barium	87.9		0.60	0.13	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Beryllium	0.59		0.24	0.033	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Cadmium	0.16	J	0.24	0.036	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Calcium	1900		59.7	3.9	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Chromium	19.0	B	0.60	0.24	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Cobalt	8.4		0.60	0.060	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Copper	21.1		1.2	0.25	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Iron	22600	^	11.9	4.2	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Lead	26.9		1.2	0.29	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Magnesium	5980		23.9	1.1	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Manganese	398	B	0.24	0.038	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Nickel	24.2		6.0	0.27	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Potassium	2490		35.8	23.9	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Selenium	0.48	J	4.8	0.48	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Silver	ND		0.72	0.24	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Sodium	200		167	15.5	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Thallium	ND		7.2	0.36	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1

Client Sample ID: WC-8 (8-16)
Date Collected: 09/12/17 13:15
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-2
Matrix: Solid
Percent Solids: 83.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	21.7		0.60	0.13	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1
Zinc	66.0		2.4	0.76	mg/Kg	☼	09/19/17 15:43	09/20/17 15:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.025	0.010	mg/Kg	☼	09/15/17 15:50	09/15/17 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.1		1.1	0.54	mg/Kg	☼	09/14/17 11:00	09/14/17 17:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	DNF		2.00	2.00	BTU/lb		09/22/17 08:11	09/22/17 12:11	1

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-378141/4	Lab Control Sample	99	106	95	108
MB 480-378141/8	Method Blank	100	104	93	108

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-124032-1	WC-8 (0.5-8)	104	100	106	95
LB 480-377280/1-A	Method Blank	104	99	115	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-124032-2	WC-8 (8-16)	101	101	101	101
LCS 480-377228/1-A	Lab Control Sample	95	98	99	100
MB 480-377228/2-A	Method Blank	97	97	99	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(59-136)	(22-120)
LCS 480-377619/2-A	Lab Control Sample	67	89	55	94	90	40
LCSD 480-377619/3-A	Lab Control Sample Dup	67	90	50	90	87	36
MB 480-377619/1-A	Method Blank	47	89	53	84	88	35

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-124032-2	WC-8 (8-16)	137 X	77	59	76	86	84
480-124032-2 - DL	WC-8 (8-16)	0 X	0 X	0 X	0 X	0 X	0 X
480-124032-2 - DL2	WC-8 (8-16)	0 X	0 X	0 X	0 X	0 X	0 X
LCS 480-376995/2-A	Lab Control Sample	92	83	73	84	84	78
MB 480-376995/1-A	Method Blank	81	85	74	82	91	81

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-124032-1	WC-8 (0.5-8)	58	79	44	72	32	83
LB 480-377279/1-D	Method Blank	60	85	47	78	33	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	Client Sample ID	(46-156)
480-124032-2	WC-8 (8-16)	0 X
LCS 480-377030/2-A	Lab Control Sample	74
LCSD 480-377030/3-A	Lab Control Sample Dup	75
MB 480-377030/1-A	Method Blank	78

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTPH (48-125)
480-124032-2	WC-8 (8-16)	114
LCS 480-376723/2-A	Lab Control Sample	77
MB 480-376723/1-A	Method Blank	78

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (20-120)	DCB2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
LCS 480-377625/2-A	Lab Control Sample	69	67	100	79
LCSD 480-377625/3-A	Lab Control Sample Dup	67	63	100	81
MB 480-377625/1-A	Method Blank	57	62	91	77

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (20-120)	DCB2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
480-124032-1	WC-8 (0.5-8)	114	98	96	68
LB 480-377279/1-F	Method Blank	81	75	96	70

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (65-174)	DCB2 (65-174)	TCX1 (60-154)	TCX2 (60-154)
480-124032-1	WC-8 (0.5-8)	111	113	88	89
480-124032-2	WC-8 (8-16)	92	123	83	84
LCS 480-376497/2-A	Lab Control Sample	137	122	138	113
MB 480-376497/1-A	Method Blank	149	131	144	130

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
LCS 480-377621/2-A	Lab Control Sample	85	102
LCSD 480-377621/3-A	Lab Control Sample Dup	51	60
MB 480-377621/1-A	Method Blank	37 X	48

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
480-124032-1	WC-8 (0.5-8)	22 X	21 X
LB 480-377279/1-E	Method Blank	24 X	29 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-378141/8
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/22/17 01:58	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/22/17 01:58	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/22/17 01:58	1
Benzene	ND		0.0010	0.00041	mg/L			09/22/17 01:58	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/22/17 01:58	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/22/17 01:58	1
Chloroform	ND		0.0010	0.00034	mg/L			09/22/17 01:58	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/22/17 01:58	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/22/17 01:58	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/22/17 01:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*09/22/17 01:58*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/22/17 01:58*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/22/17 01:58*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*09/22/17 01:58*	*1*

Lab Sample ID: LCS 480-378141/4
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0236		mg/L		94	66 - 127
1,2-Dichloroethane	0.0250	0.0254		mg/L		102	75 - 120
2-Butanone (MEK)	0.125	0.0905		mg/L		72	57 - 140
Benzene	0.0250	0.0257		mg/L		103	71 - 124
Carbon tetrachloride	0.0250	0.0311		mg/L		124	72 - 134
Chlorobenzene	0.0250	0.0250		mg/L		100	80 - 120
Chloroform	0.0250	0.0277		mg/L		111	73 - 127
Tetrachloroethene	0.0250	0.0277		mg/L		111	74 - 122
Trichloroethene	0.0250	0.0289		mg/L		116	74 - 123
Vinyl chloride	0.0250	0.0200		mg/L		80	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Lab Sample ID: LB 480-377280/1-A
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/22/17 02:25	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/22/17 02:25	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/22/17 02:25	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-377280/1-A
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			09/22/17 02:25	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/22/17 02:25	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/22/17 02:25	10
Chloroform	ND		0.010	0.0034	mg/L			09/22/17 02:25	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/22/17 02:25	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/22/17 02:25	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/22/17 02:25	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/22/17 02:25*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/22/17 02:25*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/22/17 02:25*	*10*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*09/22/17 02:25*	*10*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-377228/2-A
Matrix: Solid
Analysis Batch: 377299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,1-Dichloroethane	ND		100	31	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,1-Dichloroethene	ND		100	35	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,2-Dichloroethane	ND		100	41	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
2-Butanone (MEK)	ND		500	300	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
2-Hexanone	ND		500	210	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Acetone	ND		500	410	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Benzene	ND		100	19	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Bromoform	ND		100	50	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Bromomethane	ND		100	22	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Carbon disulfide	ND		100	46	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Carbon tetrachloride	ND		100	26	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Chlorobenzene	ND		100	13	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Dibromochloromethane	ND		100	48	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Chloroethane	ND		100	21	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Chloroform	ND		100	69	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Chloromethane	ND		100	24	ug/Kg		09/17/17 14:30	09/18/17 12:32	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-377228/2-A
Matrix: Solid
Analysis Batch: 377299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Cyclohexane	ND		100	22	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Bromodichloromethane	ND		100	20	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Ethylbenzene	ND		100	29	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
1,2-Dibromoethane	ND		100	18	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Isopropylbenzene	ND		100	15	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Methyl acetate	ND		500	48	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Methylcyclohexane	ND		100	47	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Methylene Chloride	ND		100	20	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Tetrachloroethene	ND		100	13	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Toluene	ND		100	27	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Trichloroethene	ND		100	28	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Trichlorofluoromethane	ND		100	47	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Vinyl chloride	ND		100	34	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Xylenes, Total	ND		200	55	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		09/17/17 14:30	09/18/17 12:32	1
Styrene	ND		100	24	ug/Kg		09/17/17 14:30	09/18/17 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*53 - 146*	*09/17/17 14:30*	*09/18/17 12:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*49 - 148*	*09/17/17 14:30*	*09/18/17 12:32*	*1*
Toluene-d8 (Surr)	*99*		*50 - 149*	*09/17/17 14:30*	*09/18/17 12:32*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*09/17/17 14:30*	*09/18/17 12:32*	*1*

Lab Sample ID: LCS 480-377228/1-A
Matrix: Solid
Analysis Batch: 377299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2760		ug/Kg		111	68 - 130
1,1,2,2-Tetrachloroethane	2500	2320		ug/Kg		93	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2780		ug/Kg		111	10 - 179
1,1,2-Trichloroethane	2500	2450		ug/Kg		98	80 - 120
1,1-Dichloroethane	2500	2680		ug/Kg		107	78 - 121
1,1-Dichloroethene	2500	2250		ug/Kg		90	48 - 133
1,2,4-Trichlorobenzene	2500	2040		ug/Kg		81	70 - 140
1,2-Dibromo-3-Chloropropane	2500	1710		ug/Kg		68	56 - 122
1,2-Dichlorobenzene	2500	2620		ug/Kg		105	78 - 125
1,2-Dichloroethane	2500	2470		ug/Kg		99	74 - 127
1,2-Dichloropropane	2500	2640		ug/Kg		106	80 - 120
1,3-Dichlorobenzene	2500	2770		ug/Kg		111	80 - 120
1,4-Dichlorobenzene	2500	2770		ug/Kg		111	80 - 120
2-Butanone (MEK)	12500	9530		ug/Kg		76	54 - 149

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-377228/1-A
Matrix: Solid
Analysis Batch: 377299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	12500	9020		ug/Kg		72	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	10300		ug/Kg		83	74 - 120
Acetone	12500	9630		ug/Kg		77	47 - 141
Benzene	2500	2720		ug/Kg		109	77 - 125
Bromoform	2500	2420		ug/Kg		97	48 - 125
Bromomethane	2500	1880		ug/Kg		75	39 - 149
Carbon disulfide	2500	2700		ug/Kg		108	40 - 136
Carbon tetrachloride	2500	2910		ug/Kg		116	54 - 135
Chlorobenzene	2500	2690		ug/Kg		108	76 - 126
Dibromochloromethane	2500	2520		ug/Kg		101	64 - 120
Chloroethane	2500	1450		ug/Kg		58	23 - 150
Chloroform	2500	2640		ug/Kg		106	78 - 120
Chloromethane	2500	2390		ug/Kg		95	61 - 124
cis-1,2-Dichloroethene	2500	2800		ug/Kg		112	79 - 124
Cyclohexane	2500	2950		ug/Kg		118	49 - 129
Bromodichloromethane	2500	2580		ug/Kg		103	71 - 121
Dichlorodifluoromethane	2500	2560		ug/Kg		102	10 - 150
Ethylbenzene	2500	2690		ug/Kg		108	78 - 124
1,2-Dibromoethane	2500	2380		ug/Kg		95	80 - 120
Isopropylbenzene	2500	2900		ug/Kg		116	76 - 120
Methyl acetate	12500	10600		ug/Kg		85	71 - 123
Methyl tert-butyl ether	2500	2450		ug/Kg		98	67 - 137
Methylcyclohexane	2500	3070		ug/Kg		123	50 - 130
Methylene Chloride	2500	2460		ug/Kg		99	75 - 118
Tetrachloroethene	2500	3000		ug/Kg		120	73 - 133
Toluene	2500	2690		ug/Kg		108	75 - 124
trans-1,2-Dichloroethene	2500	2690		ug/Kg		108	74 - 129
trans-1,3-Dichloropropene	2500	2620		ug/Kg		105	73 - 120
Trichloroethene	2500	3010		ug/Kg		120	75 - 131
Trichlorofluoromethane	2500	2660		ug/Kg		106	29 - 158
Vinyl chloride	2500	2640		ug/Kg		106	59 - 124
cis-1,3-Dichloropropene	2500	2530		ug/Kg		101	75 - 121
Styrene	2500	2600		ug/Kg		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*53 - 146*
4-Bromofluorobenzene (Surr)	*98*		*49 - 148*
Toluene-d8 (Surr)	*99*		*50 - 149*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-376995/1-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-376995/1-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Chlorophenol	ND		170	31	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Methylphenol	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Nitroaniline	ND		330	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Nitrophenol	ND		170	48	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
3-Nitroaniline	ND		330	47	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Chloroaniline	ND		170	42	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Methylphenol	ND		330	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Nitroaniline	ND		330	88	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Nitrophenol	ND		330	120	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Acenaphthene	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Acenaphthylene	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Acetophenone	ND		170	23	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Anthracene	ND		170	42	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Atrazine	ND		170	58	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzaldehyde	ND		170	130	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Caprolactam	ND		170	51	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Carbazole	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Chrysene	ND		170	38	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Dibenzofuran	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Diethyl phthalate	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-376995/1-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		170	18	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Fluorene	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Hexachloroethane	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Isophorone	ND		170	36	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Naphthalene	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Nitrobenzene	ND		170	19	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Pentachlorophenol	ND		330	170	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Phenanthrene	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Phenol	ND		170	26	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Pyrene	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*54 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
2-Fluorobiphenyl	*85*		*60 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
2-Fluorophenol	*74*		*52 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
Nitrobenzene-d5	*82*		*53 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
p-Terphenyl-d14	*91*		*65 - 121*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
Phenol-d5	*81*		*54 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*

Lab Sample ID: LCS 480-376995/2-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1660	1450		ug/Kg		87	59 - 120
bis (2-chloroisopropyl) ether	1660	943		ug/Kg		57	44 - 120
2,4,5-Trichlorophenol	1660	1590		ug/Kg		96	59 - 126
2,4,6-Trichlorophenol	1660	1600		ug/Kg		96	59 - 123
2,4-Dichlorophenol	1660	1460		ug/Kg		88	61 - 120
2,4-Dimethylphenol	1660	1520		ug/Kg		92	59 - 120
2,4-Dinitrophenol	3320	3120		ug/Kg		94	41 - 146
2,4-Dinitrotoluene	1660	1650		ug/Kg		100	63 - 120
2,6-Dinitrotoluene	1660	1560		ug/Kg		94	66 - 120
2-Chloronaphthalene	1660	1470		ug/Kg		88	57 - 120
2-Chlorophenol	1660	1380		ug/Kg		83	53 - 120
2-Methylnaphthalene	1660	1420		ug/Kg		85	59 - 120
2-Methylphenol	1660	1410		ug/Kg		85	54 - 120
2-Nitroaniline	1660	1680		ug/Kg		101	61 - 120
2-Nitrophenol	1660	1460		ug/Kg		88	56 - 120
3,3'-Dichlorobenzidine	3320	2800		ug/Kg		84	54 - 120
3-Nitroaniline	1660	1410		ug/Kg		85	48 - 120
4,6-Dinitro-2-methylphenol	3320	3370		ug/Kg		101	49 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376995/2-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Bromophenyl phenyl ether	1660	1490		ug/Kg		90	58 - 120
4-Chloro-3-methylphenol	1660	1660		ug/Kg		100	61 - 120
4-Chloroaniline	1660	1200		ug/Kg		72	38 - 120
4-Chlorophenyl phenyl ether	1660	1470		ug/Kg		89	63 - 124
4-Methylphenol	1660	1500		ug/Kg		90	55 - 120
4-Nitroaniline	1660	1550		ug/Kg		93	56 - 120
4-Nitrophenol	3320	3820		ug/Kg		115	43 - 147
Acenaphthene	1660	1490		ug/Kg		90	62 - 120
Acenaphthylene	1660	1500		ug/Kg		90	58 - 121
Acetophenone	1660	1450		ug/Kg		87	54 - 120
Anthracene	1660	1530		ug/Kg		92	62 - 120
Atrazine	3320	3520		ug/Kg		106	60 - 127
Benzaldehyde	3320	1840		ug/Kg		55	10 - 150
Benzo[a]anthracene	1660	1520		ug/Kg		91	65 - 120
Benzo[a]pyrene	1660	1580		ug/Kg		95	64 - 120
Benzo[b]fluoranthene	1660	1560		ug/Kg		94	64 - 120
Benzo[g,h,i]perylene	1660	1670		ug/Kg		100	45 - 145
Benzo[k]fluoranthene	1660	1620		ug/Kg		97	65 - 120
Bis(2-chloroethoxy)methane	1660	1300		ug/Kg		79	55 - 120
Bis(2-chloroethyl)ether	1660	1220		ug/Kg		74	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1630		ug/Kg		98	61 - 133
Butyl benzyl phthalate	1660	1650		ug/Kg		99	61 - 129
Caprolactam	3320	2340		ug/Kg		70	47 - 120
Carbazole	1660	1570		ug/Kg		95	65 - 120
Chrysene	1660	1520		ug/Kg		92	64 - 120
Di-n-butyl phthalate	1660	1610		ug/Kg		97	58 - 130
Di-n-octyl phthalate	1660	1620		ug/Kg		98	57 - 133
Dibenz(a,h)anthracene	1660	1610		ug/Kg		97	54 - 132
Dibenzofuran	1660	1500		ug/Kg		90	63 - 120
Diethyl phthalate	1660	1690		ug/Kg		102	66 - 120
Dimethyl phthalate	1660	1660		ug/Kg		100	65 - 124
Fluoranthene	1660	1580		ug/Kg		95	62 - 120
Fluorene	1660	1520		ug/Kg		91	63 - 120
Hexachlorobenzene	1660	1580		ug/Kg		95	60 - 120
Hexachlorobutadiene	1660	1480		ug/Kg		89	45 - 120
Hexachlorocyclopentadiene	1660	1300		ug/Kg		78	47 - 120
Hexachloroethane	1660	1320		ug/Kg		79	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1650		ug/Kg		99	56 - 134
Isophorone	1660	1370		ug/Kg		82	56 - 120
N-Nitrosodi-n-propylamine	1660	1330		ug/Kg		80	52 - 120
Naphthalene	1660	1330		ug/Kg		80	55 - 120
Nitrobenzene	1660	1320		ug/Kg		79	54 - 120
Pentachlorophenol	3320	2590		ug/Kg		78	51 - 120
Phenanthrene	1660	1540		ug/Kg		93	60 - 120
Phenol	1660	1340		ug/Kg		80	53 - 120
Pyrene	1660	1490		ug/Kg		90	61 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376995/2-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376995

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	92		54 - 120
2-Fluorobiphenyl	83		60 - 120
2-Fluorophenol	73		52 - 120
Nitrobenzene-d5	84		53 - 120
p-Terphenyl-d14	84		65 - 121
Phenol-d5	78		54 - 120

Lab Sample ID: MB 480-377619/1-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		09/19/17 14:15	09/20/17 22:34	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
Pyridine	ND		0.0063	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		09/19/17 14:15	09/20/17 22:34	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		09/19/17 14:15	09/20/17 22:34	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		09/19/17 14:15	09/20/17 22:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		41 - 120	09/19/17 14:15	09/20/17 22:34	1
2-Fluorobiphenyl	89		48 - 120	09/19/17 14:15	09/20/17 22:34	1
2-Fluorophenol	53		35 - 120	09/19/17 14:15	09/20/17 22:34	1
Nitrobenzene-d5	84		46 - 120	09/19/17 14:15	09/20/17 22:34	1
p-Terphenyl-d14	88		59 - 136	09/19/17 14:15	09/20/17 22:34	1
Phenol-d5	35		22 - 120	09/19/17 14:15	09/20/17 22:34	1

Lab Sample ID: LCS 480-377619/2-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0321		mg/L		64	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0449		mg/L		90	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0455		mg/L		91	64 - 120
2,4-Dinitrotoluene	0.0500	0.0460		mg/L		92	69 - 120
3-Methylphenol	0.0500	0.0394		mg/L		79	39 - 120
2-Methylphenol	0.0500	0.0400		mg/L		80	39 - 120
Pyridine	0.100	0.0538		mg/L		54	10 - 120
4-Methylphenol	0.0500	0.0394		mg/L		79	29 - 131
Hexachlorobenzene	0.0500	0.0387		mg/L		77	61 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-377619/2-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	0.0500	0.0327		mg/L		65	35 - 120
Hexachloroethane	0.0500	0.0293		mg/L		59	43 - 120
Nitrobenzene	0.0500	0.0511		mg/L		102	53 - 123
Pentachlorophenol	0.100	0.0737		mg/L		74	29 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*67*		*41 - 120*
2-Fluorobiphenyl	*89*		*48 - 120*
2-Fluorophenol	*55*		*35 - 120*
Nitrobenzene-d5	*94*		*46 - 120*
p-Terphenyl-d14	*90*		*59 - 136*
Phenol-d5	*40*		*22 - 120*

Lab Sample ID: LCSD 480-377619/3-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377619

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0500	0.0296		mg/L		59	51 - 120	8	36
2,4,5-Trichlorophenol	0.0500	0.0465		mg/L		93	65 - 126	4	18
2,4,6-Trichlorophenol	0.0500	0.0456		mg/L		91	64 - 120	0	19
2,4-Dinitrotoluene	0.0500	0.0466		mg/L		93	69 - 120	1	20
3-Methylphenol	0.0500	0.0361		mg/L		72	39 - 120	9	30
2-Methylphenol	0.0500	0.0367		mg/L		73	39 - 120	8	27
Pyridine	0.100	0.0506		mg/L		51	10 - 120	6	49
4-Methylphenol	0.0500	0.0361		mg/L		72	29 - 131	9	24
Hexachlorobenzene	0.0500	0.0366		mg/L		73	61 - 120	6	15
Hexachlorobutadiene	0.0500	0.0290		mg/L		58	35 - 120	12	44
Hexachloroethane	0.0500	0.0259		mg/L		52	43 - 120	12	46
Nitrobenzene	0.0500	0.0472		mg/L		94	53 - 123	8	24
Pentachlorophenol	0.100	0.0738		mg/L		74	29 - 136	0	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*67*		*41 - 120*
2-Fluorobiphenyl	*90*		*48 - 120*
2-Fluorophenol	*50*		*35 - 120*
Nitrobenzene-d5	*90*		*46 - 120*
p-Terphenyl-d14	*87*		*59 - 136*
Phenol-d5	*36*		*22 - 120*

Lab Sample ID: LB 480-377279/1-D
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377619

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/19/17 14:15	09/20/17 23:54	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/19/17 14:15	09/20/17 23:54	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/19/17 14:15	09/20/17 23:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-377279/1-D
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377619

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/19/17 14:15	09/20/17 23:54	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/19/17 14:15	09/20/17 23:54	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/19/17 14:15	09/20/17 23:54	1
Pyridine	ND		0.025	0.00041	mg/L		09/19/17 14:15	09/20/17 23:54	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/19/17 14:15	09/20/17 23:54	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/19/17 14:15	09/20/17 23:54	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/19/17 14:15	09/20/17 23:54	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*41 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
2-Fluorophenol	*47*		*35 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
Nitrobenzene-d5	*78*		*46 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
Phenol-d5	*33*		*22 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 480-377030/1-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.409	J	1.2	0.33	mg/Kg		09/15/17 09:20	09/15/17 10:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*46 - 156*	*09/15/17 09:20*	*09/15/17 10:04*	*1*

Lab Sample ID: LCS 480-377030/2-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377030

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C6-C10)			9.58	9.49		mg/Kg		99	64 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*74*		*46 - 156*

Lab Sample ID: LCSD 480-377030/3-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)			9.92	10.4		mg/Kg		105	64 - 129	9	35

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCSD 480-377030/3-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377030

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	75		46 - 156

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-376723/1-A
Matrix: Solid
Analysis Batch: 376806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		09/14/17 06:05	09/14/17 13:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		48 - 125	09/14/17 06:05	09/14/17 13:27	1

Lab Sample ID: LCS 480-376723/2-A
Matrix: Solid
Analysis Batch: 376806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	49.8	37.7		mg/Kg		76	63 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	77		48 - 125

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-377625/1-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		09/19/17 14:29	09/20/17 11:56	1
Endrin	ND		0.000050	0.0000035	mg/L		09/19/17 14:29	09/20/17 11:56	1
gamma-BHC (Lindane)	ND		0.000050	0.0000015	mg/L		09/19/17 14:29	09/20/17 11:56	1
Heptachlor	ND		0.000050	0.0000021	mg/L		09/19/17 14:29	09/20/17 11:56	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		09/19/17 14:29	09/20/17 11:56	1
Methoxychlor	ND		0.000050	0.0000035	mg/L		09/19/17 14:29	09/20/17 11:56	1
Toxaphene	ND		0.00050	0.000030	mg/L		09/19/17 14:29	09/20/17 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		20 - 120	09/19/17 14:29	09/20/17 11:56	1
DCB Decachlorobiphenyl	62		20 - 120	09/19/17 14:29	09/20/17 11:56	1
Tetrachloro-m-xylene	91		44 - 120	09/19/17 14:29	09/20/17 11:56	1
Tetrachloro-m-xylene	77		44 - 120	09/19/17 14:29	09/20/17 11:56	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-377625/2-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000558		mg/L		112	65 - 135
gamma-BHC (Lindane)	0.000500	0.000466		mg/L		93	56 - 120
Heptachlor	0.000500	0.000477		mg/L		95	58 - 120
Heptachlor epoxide	0.000500	0.000530		mg/L		106	65 - 125
Methoxychlor	0.000500	0.000536		mg/L		107	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*20 - 120*
DCB Decachlorobiphenyl	*67*		*20 - 120*
Tetrachloro-m-xylene	*100*		*44 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*

Lab Sample ID: LCSD 480-377625/3-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000553		mg/L		111	65 - 135	1	24
gamma-BHC (Lindane)	0.000500	0.000469		mg/L		94	56 - 120	1	24
Heptachlor	0.000500	0.000484		mg/L		97	58 - 120	2	25
Heptachlor epoxide	0.000500	0.000526		mg/L		105	65 - 125	1	23
Methoxychlor	0.000500	0.000547		mg/L		109	50 - 150	2	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*20 - 120*
DCB Decachlorobiphenyl	*63*		*20 - 120*
Tetrachloro-m-xylene	*100*		*44 - 120*
Tetrachloro-m-xylene	*81*		*44 - 120*

Lab Sample ID: LB 480-377279/1-F
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377625

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/19/17 14:29	09/20/17 12:55	1
Endrin	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 12:55	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/19/17 14:29	09/20/17 12:55	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/19/17 14:29	09/20/17 12:55	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/19/17 14:29	09/20/17 12:55	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 12:55	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/19/17 14:29	09/20/17 12:55	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*20 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
DCB Decachlorobiphenyl	*75*		*20 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
Tetrachloro-m-xylene	*96*		*44 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
Tetrachloro-m-xylene	*70*		*44 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-376497/1-A
Matrix: Solid
Analysis Batch: 376534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg		09/13/17 08:31	09/13/17 20:10	1
PCB-1221	ND		0.24	0.046	mg/Kg		09/13/17 08:31	09/13/17 20:10	1
PCB-1232	ND		0.24	0.046	mg/Kg		09/13/17 08:31	09/13/17 20:10	1
PCB-1242	ND		0.24	0.046	mg/Kg		09/13/17 08:31	09/13/17 20:10	1
PCB-1248	ND		0.24	0.046	mg/Kg		09/13/17 08:31	09/13/17 20:10	1
PCB-1254	ND		0.24	0.11	mg/Kg		09/13/17 08:31	09/13/17 20:10	1
PCB-1260	ND		0.24	0.11	mg/Kg		09/13/17 08:31	09/13/17 20:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*149*		*65 - 174*	*09/13/17 08:31*	*09/13/17 20:10*	*1*
DCB Decachlorobiphenyl	*131*		*65 - 174*	*09/13/17 08:31*	*09/13/17 20:10*	*1*
Tetrachloro-m-xylene	*144*		*60 - 154*	*09/13/17 08:31*	*09/13/17 20:10*	*1*
Tetrachloro-m-xylene	*130*		*60 - 154*	*09/13/17 08:31*	*09/13/17 20:10*	*1*

Lab Sample ID: LCS 480-376497/2-A
Matrix: Solid
Analysis Batch: 376534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.35	3.09		mg/Kg		132	51 - 185
PCB-1260	2.35	3.55		mg/Kg		151	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*137*		*65 - 174*
DCB Decachlorobiphenyl	*122*		*65 - 174*
Tetrachloro-m-xylene	*138*		*60 - 154*
Tetrachloro-m-xylene	*113*		*60 - 154*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-377621/1-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		09/19/17 14:21	09/22/17 13:51	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		09/19/17 14:21	09/22/17 13:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*37*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 13:51*	*1*
2,4-Dichlorophenylacetic acid	*48*		*48 - 132*	*09/19/17 14:21*	*09/22/17 13:51*	*1*

Method: 8151 - TCLP Herbicides (Continued)

Lab Sample ID: LCS 480-377621/2-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377621

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.00200	0.00183		mg/L		92	36 - 150		
Silvex (2,4,5-TP)			0.00200	0.00184		mg/L		92	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*85*		*48 - 132*
2,4-Dichlorophenylacetic acid	*102*		*48 - 132*

Lab Sample ID: LCSD 480-377621/3-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377621

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.00200	0.00178		mg/L		89	36 - 150	3	50
Silvex (2,4,5-TP)			0.00200	0.00167		mg/L		83	49 - 150	10	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*51*		*48 - 132*
2,4-Dichlorophenylacetic acid	*60*		*48 - 132*

Lab Sample ID: LB 480-377279/1-E
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377621

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/19/17 14:21	09/22/17 15:20	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/19/17 14:21	09/22/17 15:20	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*24*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 15:20*	*1*
2,4-Dichlorophenylacetic acid	*29*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 15:20*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-377539/2-A
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:23	1
Barium	ND		1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:23	1
Cadmium	ND		0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:23	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:23	1
Lead	ND		0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:23	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:23	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:23	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-377539/3-A
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.997		mg/L		100	80 - 120
Barium	1.00	0.950	J	mg/L		95	80 - 120
Cadmium	1.00	0.985		mg/L		98	80 - 120
Chromium	1.00	0.916		mg/L		92	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Silver	1.00	0.960		mg/L		96	80 - 120

Lab Sample ID: MB 480-377569/1-A
Matrix: Solid
Analysis Batch: 378275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.8	4.3	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Antimony	ND		14.6	0.39	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Arsenic	ND		2.0	0.39	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Barium	ND		0.49	0.11	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Beryllium	ND		0.20	0.027	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Cadmium	ND		0.20	0.029	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Calcium	ND		48.8	3.2	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Chromium	0.241	J	0.49	0.20	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Cobalt	ND		0.49	0.049	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Copper	ND		0.98	0.21	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Iron	ND	^	9.8	3.4	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Lead	ND		0.98	0.23	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Magnesium	ND		19.5	0.91	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Manganese	0.0430	J	0.20	0.031	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Nickel	ND		4.9	0.22	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Potassium	ND		29.3	19.5	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Selenium	ND		3.9	0.39	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Silver	ND		0.59	0.20	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Sodium	ND		137	12.7	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Thallium	ND		5.9	0.29	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Vanadium	ND		0.49	0.11	mg/Kg		09/19/17 15:43	09/20/17 14:45	1
Zinc	ND		2.0	0.63	mg/Kg		09/19/17 15:43	09/20/17 14:45	1

Lab Sample ID: LCSSRM 480-377569/2-A
Matrix: Solid
Analysis Batch: 378275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377569

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	8127		mg/Kg		100.5	39.6 - 160.7
Antimony	99.3	63.30		mg/Kg		63.7	21.6 - 256.8
Arsenic	100	81.49		mg/Kg		81.5	69.6 - 131.0
Barium	217	181.9		mg/Kg		83.8	73.7 - 128.1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-377569/2-A
Matrix: Solid
Analysis Batch: 378275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377569

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	147	119.9		mg/Kg		81.6	75.5 - 125.9
Cadmium	83.7	67.93		mg/Kg		81.2	73.2 - 131.4
Calcium	6010	4885		mg/Kg		81.3	73.7 - 126.3
Chromium	107	88.38		mg/Kg		82.6	69.4 - 134.6
Cobalt	123	117.3		mg/Kg		95.4	74.3 - 130.1
Copper	166	137.2		mg/Kg		82.7	75.3 - 128.3
Iron	14600	13950	^	mg/Kg		95.5	36.1 - 163.7
Lead	88.4	81.97		mg/Kg		92.7	69.9 - 130.1
Magnesium	2930	2486		mg/Kg		84.8	65.9 - 134.5
Manganese	311	352.4		mg/Kg		113.3	74.9 - 125.4
Nickel	49.8	47.86		mg/Kg		96.1	69.1 - 135.1
Potassium	2620	2554		mg/Kg		97.5	61.1 - 138.9
Selenium	87.7	74.06		mg/Kg		84.4	64.1 - 135.7
Silver	41.4	31.81		mg/Kg		76.8	65.9 - 133.8
Sodium	252	234.7		mg/Kg		93.2	32.9 - 167.5
Thallium	58.1	54.66		mg/Kg		94.1	63.9 - 136.3
Vanadium	140	120.4		mg/Kg		86.0	69.9 - 129.3
Zinc	145	116.9		mg/Kg		80.6	67.7 - 132.4

Lab Sample ID: MB 490-460312/1-A
Matrix: Solid
Analysis Batch: 461110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	ND		0.0049	0.0026	%		09/15/17 16:47	09/19/17 12:58	1

Lab Sample ID: LCS 490-460312/2-A
Matrix: Solid
Analysis Batch: 461110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfur	0.0967	0.0948		%		98	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 480-377279/1-B
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377539

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00805	J	0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:19	1
Barium	ND		1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:19	1
Cadmium	ND		0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:19	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:19	1
Lead	0.0620		0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:19	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:19	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:19	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-377563/2-A
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:26	1

Lab Sample ID: LCS 480-377563/3-A
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00618		mg/L		93	80 - 120

Lab Sample ID: LB 480-377279/1-C
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377563

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:24	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-377122/1-A
Matrix: Solid
Analysis Batch: 377160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0084	mg/Kg		09/15/17 15:50	09/15/17 17:31	1

Lab Sample ID: LCDSRM 480-377122/23-A ^10
Matrix: Solid
Analysis Batch: 377160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377122

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.6	9.64		mg/Kg		76.5	44.4 - 128.6	11	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-377122/2-A ^10
Matrix: Solid
Analysis Batch: 377160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377122

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.6	10.79		mg/Kg		85.7	44.4 - 128.6

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-377440/1
Matrix: Solid
Analysis Batch: 377440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-376785/1-A
Matrix: Solid
Analysis Batch: 376844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		09/14/17 03:00	09/14/17 12:10	1

Lab Sample ID: LCS 480-376785/2-A
Matrix: Solid
Analysis Batch: 376844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	372.5		mg/Kg		37	10 - 100

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-376757/1-A
Matrix: Solid
Analysis Batch: 376949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.95	0.46	mg/Kg		09/14/17 11:00	09/14/17 17:01	1

Lab Sample ID: LCSSRM 480-376757/2-A ^2
Matrix: Solid
Analysis Batch: 376949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376757

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	86.4	71.55		mg/Kg		82.8	29.1 - 119.2

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-376790/1-A
Matrix: Solid
Analysis Batch: 376848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		09/14/17 03:00	09/14/17 12:15	1

Lab Sample ID: LCS 480-376790/2-A
Matrix: Solid
Analysis Batch: 376848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376790

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	820	761.4		mg/Kg		93	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-377233/1
Matrix: Solid
Analysis Batch: 377233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: D240-87 - Heat of Combustion

Lab Sample ID: LCS 680-495627/1-A
Matrix: Solid
Analysis Batch: 495701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
BTU	5740	5109		BTU/lb		89	70 - 130

Lab Sample ID: LCSD 680-495627/5-A
Matrix: Solid
Analysis Batch: 495701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 495627

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
BTU	5740	5296		BTU/lb		92	70 - 130	4	30

GC/MS VOA

Prep Batch: 377228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	5035A_H	
MB 480-377228/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-377228/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Leach Batch: 377280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	1311	
LB 480-377280/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 377299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	8260C	377228
MB 480-377228/2-A	Method Blank	Total/NA	Solid	8260C	377228
LCS 480-377228/1-A	Lab Control Sample	Total/NA	Solid	8260C	377228

Analysis Batch: 378141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	8260C	377280
LB 480-377280/1-A	Method Blank	TCLP	Solid	8260C	377280
MB 480-378141/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-378141/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 376995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2 - DL	WC-8 (8-16)	Total/NA	Solid	3550C	
480-124032-2 - DL2	WC-8 (8-16)	Total/NA	Solid	3550C	
480-124032-2	WC-8 (8-16)	Total/NA	Solid	3550C	
MB 480-376995/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-376995/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	1311	
LB 480-377279/1-D	Method Blank	TCLP	Solid	1311	

Analysis Batch: 377366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	8270D	376995
MB 480-376995/1-A	Method Blank	Total/NA	Solid	8270D	376995
LCS 480-376995/2-A	Lab Control Sample	Total/NA	Solid	8270D	376995

Analysis Batch: 377597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2 - DL	WC-8 (8-16)	Total/NA	Solid	8270D	376995

Prep Batch: 377619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	3510C	377279

GC/MS Semi VOA (Continued)

Prep Batch: 377619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-377279/1-D	Method Blank	TCLP	Solid	3510C	377279
MB 480-377619/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-377619/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-377619/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 377832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	8270D	377619
LB 480-377279/1-D	Method Blank	TCLP	Solid	8270D	377619
MB 480-377619/1-A	Method Blank	Total/NA	Solid	8270D	377619
LCS 480-377619/2-A	Lab Control Sample	Total/NA	Solid	8270D	377619
LCSD 480-377619/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	377619

Analysis Batch: 377861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2 - DL2	WC-8 (8-16)	Total/NA	Solid	8270D	376995

GC VOA

Analysis Batch: 377014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	8015D	377030
MB 480-377030/1-A	Method Blank	Total/NA	Solid	8015D	377030
LCS 480-377030/2-A	Lab Control Sample	Total/NA	Solid	8015D	377030
LCSD 480-377030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	377030

Prep Batch: 377030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	5035A_H	
MB 480-377030/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-377030/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-377030/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

GC Semi VOA

Prep Batch: 376497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	3550C	
480-124032-2	WC-8 (8-16)	Total/NA	Solid	3550C	
MB 480-376497/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-376497/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 376534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	8082A	376497
480-124032-2	WC-8 (8-16)	Total/NA	Solid	8082A	376497
MB 480-376497/1-A	Method Blank	Total/NA	Solid	8082A	376497
LCS 480-376497/2-A	Lab Control Sample	Total/NA	Solid	8082A	376497

GC Semi VOA (Continued)

Prep Batch: 376723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	3550C	
MB 480-376723/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-376723/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 376806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-376723/1-A	Method Blank	Total/NA	Solid	8015D	376723
LCS 480-376723/2-A	Lab Control Sample	Total/NA	Solid	8015D	376723

Analysis Batch: 377095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	8015D	376723

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	1311	
LB 480-377279/1-E	Method Blank	TCLP	Solid	1311	
LB 480-377279/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 377621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	8151A	377279
LB 480-377279/1-E	Method Blank	TCLP	Solid	8151A	377279
MB 480-377621/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-377621/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-377621/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Prep Batch: 377625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	3510C	377279
LB 480-377279/1-F	Method Blank	TCLP	Solid	3510C	377279
MB 480-377625/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-377625/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-377625/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 377761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	8081B	377625
LB 480-377279/1-F	Method Blank	TCLP	Solid	8081B	377625
MB 480-377625/1-A	Method Blank	Total/NA	Solid	8081B	377625
LCS 480-377625/2-A	Lab Control Sample	Total/NA	Solid	8081B	377625
LCSD 480-377625/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	377625

Analysis Batch: 378208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	8151	377621
LB 480-377279/1-E	Method Blank	TCLP	Solid	8151	377621
MB 480-377621/1-A	Method Blank	Total/NA	Solid	8151	377621
LCS 480-377621/2-A	Lab Control Sample	Total/NA	Solid	8151	377621
LCSD 480-377621/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	377621

Metals

Prep Batch: 377122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	7471B	
MB 480-377122/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-377122/23-A ^	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-377122/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 377160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	7471B	377122
MB 480-377122/1-A	Method Blank	Total/NA	Solid	7471B	377122
LCDSRM 480-377122/23-A ^	Lab Control Sample Dup	Total/NA	Solid	7471B	377122
LCSSRM 480-377122/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	377122

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	1311	
LB 480-377279/1-B	Method Blank	TCLP	Solid	1311	
LB 480-377279/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 377539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	3010A	377279
LB 480-377279/1-B	Method Blank	TCLP	Solid	3010A	377279
MB 480-377539/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-377539/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 377563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	7470A	377279
LB 480-377279/1-C	Method Blank	TCLP	Solid	7470A	377279
MB 480-377563/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-377563/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 377569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	3050B	
MB 480-377569/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-377569/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 377742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	6010C	377539
LB 480-377279/1-B	Method Blank	TCLP	Solid	6010C	377539
MB 480-377539/2-A	Method Blank	Total/NA	Solid	6010C	377539
LCS 480-377539/3-A	Lab Control Sample	Total/NA	Solid	6010C	377539

Analysis Batch: 377824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	TCLP	Solid	7470A	377563
LB 480-377279/1-C	Method Blank	TCLP	Solid	7470A	377563
MB 480-377563/2-A	Method Blank	Total/NA	Solid	7470A	377563
LCS 480-377563/3-A	Lab Control Sample	Total/NA	Solid	7470A	377563

Analysis Batch: 378275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	6010C	377569
MB 480-377569/1-A	Method Blank	Total/NA	Solid	6010C	377569
LCSSRM 480-377569/2-A	Lab Control Sample	Total/NA	Solid	6010C	377569

Prep Batch: 460312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	3051A	
MB 490-460312/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-460312/2-A	Lab Control Sample	Total/NA	Solid	3051A	

Analysis Batch: 461110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	6010C	460312
MB 490-460312/1-A	Method Blank	Total/NA	Solid	6010C	460312
LCS 490-460312/2-A	Lab Control Sample	Total/NA	Solid	6010C	460312

General Chemistry

Analysis Batch: 376666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	Moisture	
480-124032-2	WC-8 (8-16)	Total/NA	Solid	Moisture	

Prep Batch: 376757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	9012B	
MB 480-376757/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-376757/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	

Prep Batch: 376785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	7.3.3	
MB 480-376785/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-376785/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 376790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	7.3.4	
MB 480-376790/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-376790/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 376844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	9012	376785
MB 480-376785/1-A	Method Blank	Total/NA	Solid	9012	376785
LCS 480-376785/2-A	Lab Control Sample	Total/NA	Solid	9012	376785

Analysis Batch: 376848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	9034	376790
MB 480-376790/1-A	Method Blank	Total/NA	Solid	9034	376790
LCS 480-376790/2-A	Lab Control Sample	Total/NA	Solid	9034	376790

General Chemistry (Continued)

Analysis Batch: 376949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	9012B	376757
MB 480-376757/1-A	Method Blank	Total/NA	Solid	9012B	376757
LCSSRM 480-376757/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	376757

Analysis Batch: 377233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	9045D	
LCS 480-377233/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 377440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	1010A	
LCS 480-377440/1	Lab Control Sample	Total/NA	Solid	1010A	

Analysis Batch: 377457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-1	WC-8 (0.5-8)	Total/NA	Solid	9095B	

Prep Batch: 495627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	D240-87	
LCS 680-495627/1-A	Lab Control Sample	Total/NA	Solid	D240-87	
LCSD 680-495627/5-A	Lab Control Sample Dup	Total/NA	Solid	D240-87	

Analysis Batch: 495701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124032-2	WC-8 (8-16)	Total/NA	Solid	D240-87	495627
LCS 680-495627/1-A	Lab Control Sample	Total/NA	Solid	D240-87	495627
LCSD 680-495627/5-A	Lab Control Sample Dup	Total/NA	Solid	D240-87	495627

Client Sample ID: WC-8 (0.5-8)

Lab Sample ID: 480-124032-1

Date Collected: 09/12/17 11:50

Matrix: Solid

Date Received: 09/13/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			377280	09/18/17 08:59	NMC	TAL BUF
TCLP	Analysis	8260C		10	378141	09/22/17 03:19	RJF	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377619	09/19/17 14:15	RLT	TAL BUF
TCLP	Analysis	8270D		1	377832	09/21/17 01:14	DMR	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377625	09/19/17 14:29	RLT	TAL BUF
TCLP	Analysis	8081B		1	377761	09/20/17 13:54	MAN	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	8151A			377621	09/19/17 14:21	RLT	TAL BUF
TCLP	Analysis	8151		1	378208	09/22/17 16:50	JMO	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3010A			377539	09/19/17 10:30	EMB	TAL BUF
TCLP	Analysis	6010C		1	377742	09/20/17 00:45	LMH	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	7470A			377563	09/19/17 12:00	BMB	TAL BUF
TCLP	Analysis	7470A		1	377824	09/19/17 16:31	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377440	09/18/17 08:41	DSC	TAL BUF
Total/NA	Prep	7.3.3			376785	09/14/17 03:00	LAW	TAL BUF
Total/NA	Analysis	9012		1	376844	09/14/17 12:10	MDL	TAL BUF
Total/NA	Prep	7.3.4			376790	09/14/17 03:00	LAW	TAL BUF
Total/NA	Analysis	9034		1	376848	09/14/17 12:15	MDL	TAL BUF
Total/NA	Analysis	9045D		1	377233	09/17/17 09:56	DSC	TAL BUF
Total/NA	Analysis	9095B		1	377457	09/18/17 19:25	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	376666	09/13/17 16:08	MJH	TAL BUF

Client Sample ID: WC-8 (0.5-8)

Lab Sample ID: 480-124032-1

Date Collected: 09/12/17 11:50

Matrix: Solid

Date Received: 09/13/17 02:15

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			376497	09/13/17 08:31	CAM	TAL BUF
Total/NA	Analysis	8082A		1	376534	09/13/17 22:02	JMO	TAL BUF

Client Sample ID: WC-8 (8-16)

Lab Sample ID: 480-124032-2

Date Collected: 09/12/17 13:15

Matrix: Solid

Date Received: 09/13/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	D240-87			495627	09/22/17 08:11	CFJ	TAL SAV
Total/NA	Analysis	D240-87		1	495701	09/22/17 12:11	CFJ	TAL SAV
Total/NA	Analysis	Moisture		1	376666	09/13/17 16:08	MJH	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Client Sample ID: WC-8 (8-16)

Date Collected: 09/12/17 13:15
Date Received: 09/13/17 02:15

Lab Sample ID: 480-124032-2

Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			377228	09/17/17 14:30	NEA	TAL BUF
Total/NA	Analysis	8260C		100	377299	09/18/17 13:07	ARS	TAL BUF
Total/NA	Prep	3550C			376995	09/15/17 06:53	CAM	TAL BUF
Total/NA	Analysis	8270D		20	377366	09/18/17 20:09	DMR	TAL BUF
Total/NA	Prep	3550C	DL		376995	09/15/17 06:53	CAM	TAL BUF
Total/NA	Analysis	8270D	DL	400	377597	09/19/17 16:37	DMR	TAL BUF
Total/NA	Prep	3550C	DL2		376995	09/15/17 06:53	CAM	TAL BUF
Total/NA	Analysis	8270D	DL2	2000	377861	09/20/17 16:46	DMR	TAL BUF
Total/NA	Prep	5035A_H			377030	09/15/17 09:20	JLS	TAL BUF
Total/NA	Analysis	8015D		200	377014	09/15/17 13:26	JLS	TAL BUF
Total/NA	Prep	3550C			376723	09/14/17 06:05	CAM	TAL BUF
Total/NA	Analysis	8015D		250	377095	09/15/17 16:10	JLS	TAL BUF
Total/NA	Prep	3550C			376497	09/13/17 08:31	CAM	TAL BUF
Total/NA	Analysis	8082A		1	376534	09/13/17 22:18	JMO	TAL BUF
Total/NA	Prep	3050B			377569	09/19/17 15:43	EMB	TAL BUF
Total/NA	Analysis	6010C		1	378275	09/20/17 15:35	AMH	TAL BUF
Total/NA	Prep	3051A			460312	09/15/17 16:47	BVH	TAL NSH
Total/NA	Analysis	6010C		1	461110	09/19/17 14:40	LCS	TAL NSH
Total/NA	Prep	7471B			377122	09/15/17 15:50	BMB	TAL BUF
Total/NA	Analysis	7471B		1	377160	09/15/17 18:15	BMB	TAL BUF
Total/NA	Prep	9012B			376757	09/14/17 11:00	CLT	TAL BUF
Total/NA	Analysis	9012B		1	376949	09/14/17 17:24	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11342	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6010C	3051A	Solid	Sulfur

Laboratory: TestAmerica Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
D240-87	D240-87	Solid	BTU

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL NSH
7470A	TCLP Mercury	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
D240-87	Heat of Combustion	ASTM	TAL SAV
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124032-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-124032-1	WC-8 (0.5-8)	Solid	09/12/17 11:50	09/13/17 02:15
480-124032-2	WC-8 (8-16)	Solid	09/12/17 13:15	09/13/17 02:15

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480501-Albany

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-124032 COC

Client Information	Sampler: Lera Terrell	Lab PM: Deyo, Melissa L	Carr:	COC No: 480-101161-24047.3
Client Contact: Mr. Michael Jones	Phone:	E-Mail: melissa.deyo@testamericainc.com		Page: Page 3 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone: (315) 446-9120	PO #: B0036648.1401.00006			
Email: michael.jones@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid - North Albany	SSOW#:			

Analysis Reque

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012_ReactiveCN, 9034_Reactive	9095B - Paint Filter	6010C, 7470A, 8081B, 8151A, 8270D	8260C - TCLP Volatiles	1010A, 9045D	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - DRO	8015D_GRO - GRO	6010C - Percent Sulfur	D240_87 - BTU	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	N		
NC-8 (0.5-8)	9/12/17	1150	C	Solid	N	N	1	1	1	1	1	1									Short holding time
NC-8 (8-16)	9/12/17	1315	C	Solid	N	N							1	1	1	1	3	1	1		Short holding time
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

9/12/17

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/12/17 1655	Arcadis	[signature]	9/12/17 1655	TA
2	[signature]	9/12/17 1800	TA	[signature]	9-13-17 0215	TAS
3						

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8 #1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480501-Albany

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Levia Terrell	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-101161-24047.4
Client Contact: Mr. Michael Jones	Phone:	E-Mail: melissa.deyo@testamericainc.com		Page: Page 4 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone: (315) 446-9120	PO #: B0036648.1401.00006			
Email: michael.jones@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: Natural Grid - North Albany	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	Percent Solid	Total Number of containers	Special Instructions/Note:
Preservation Code:							N			
WC-8 (0.5-8)	9/12/17		C	Solid	N	N				
WC-8 (8-16)	9/12/17		C	Solid	N	N	3	1		Short holding time
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

9/12/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9/12/17 1655	Arcadis		9/12/17 1655	TA
2		9/12/17 1800	TA		9-13-17 0215	TAS
3						

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8 #1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-37284.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-124032-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 9/25/2017			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87/D240_87_P Heat of Combustion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-8 (8-16) (480-124032-2)	9/12/17	13:15 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/15/17 1600	TAB	[signature]	9/16/17 1000	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.1(4.9)	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/26/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-37284.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-124032-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 9/25/2017			Preservation Codes:
City: Savannah	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87/D240_87_P Heat of Combustion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-8 (8-16) (480-124032-2)	9/12/17	13:15 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/20/17 1600	TAB	MTyh	9/21/17 915	TALW
2						
3						

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.8°C (CF) 1.1°C 1.4°C (CF) 1.7°C

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124032-1

Login Number: 124032
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	FREEZER ON 13SEPT2017 @ 0800
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124032-1

Login Number: 124032
List Number: 2
Creator: Dawson, Keith M

List Source: TestAmerica Nashville
List Creation: 09/15/17 09:31 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124032-1

Login Number: 124032
List Number: 3
Creator: Tyler, Matthew M

List Source: TestAmerica Savannah
List Creation: 09/21/17 10:56 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-124116-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Melissa Deyo

Authorized for release by:
9/27/2017 2:09:58 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-124116-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-124116-1

Receipt
The samples were received on 9/14/2017 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0º C.

GC/MS VOA
Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-376970 and analytical batch 480-377968 recovered outside control limits for the following analytes: cis-1,2-Dichloroethene, Chloroform, Tetrachloroethene and Methylcyclohexane. These analytes were biased high in the LCS and were not detected in the associated sample; therefore, the data have been reported. The following sample is impacted: WC-7 (7-16) (480-124116-2)

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-377968 recovered above the upper control limit for Carbon Tetrachloride, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Trichlorofluoromethane and Trichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-7 (7-16) (480-124116-2).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-377968 recovered outside acceptance criteria, low biased, for 2-Hexanone, Chloromethane and 2-Butanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-7 (7-16) (480-124116-2).

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: WC-7 (7-16) (480-124116-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-7 (0.5-7) (480-124116-1) and (LB 480-377280/1-A). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-378141 recovered outside acceptance criteria, low biased, for Vinyl chloride and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample ise impacted: WC-7 (0.5-7) (480-124116-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to color and, viscosity: WC-7 (7-16) (480-124116-2). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377366 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane] . A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples is impacted:WC-7 (7-16) (480-124116-2).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377366 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-7 (7-16) (480-124116-2).

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: WC-7 (7-16) (480-124116-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377597 recovered above the upper control limit for 2,4-Dinitrophenol and 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the

Job ID: 480-124116-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

data have been reported. The following sample is impacted: WC-7 (7-16) (480-124116-2).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377597 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane] and Benzaldehyde. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-7 (7-16) (480-124116-2).

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-7 (7-16) (480-124116-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted due to abundance of target analytes : WC-7 (7-16) (480-124116-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-7 (7-16) (480-124116-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377861 recovered above the upper control limit for 2,4-Dinitrophenol, 4-Nitrophenol and, Atrazine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-7 (7-16) (480-124116-2).

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-377832 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The following sample is impacted: WC-7 (0.5-7) (480-124116-1).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377832 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-7 (0.5-7) (480-124116-1).

Method(s) 8270D: The following sample was diluted due to abundance of target analytes: WC-7 (7-16) (480-124116-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) 8015D: The following sample was diluted due to the abundance of target analytes: WC-7 (7-16) (480-124116-2). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8015D: The method blank for preparation batch 480-377030 and analytical batch 480-377014 contained GRO (C6-C10) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015D: The following sample is diluted to bring the concentration of target analytes within the calibration range: WC-7 (7-16) (480-124116-2). Elevated reporting limits (RLs) are provided.

Method(s) 8015D: Surrogate recovery for the following sample was outside control limits: WC-7 (7-16) (480-124116-2). Dilution and evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8151A: The following samples are associated with a Method Blank (MB 480-377621/1-A) that has recoveries for the surrogate 2,4-Dichlorophenylacetic acid that were slightly below acceptance limits: WC-7 (0.5-7) (480-124116-1). The surrogate recoveries in all other batch QC are within limits. Therefore, the data has been reported.

Job ID: 480-124116-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-7 (0.5-7) (480-124116-1) and (LB 480-377279/1-E). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-378208 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-7 (0.5-7) (480-124116-1).

Method(s) 8081B: All primary data for analytical batch 377761 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 377115 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: All primary data for analytical batch 378208 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The TCLP leachate blank (LB 480-377279) for batch 480-377279 and 480-377472 contained Lead above the reporting limit (RL). This target analyte concentration was less than the TCLP Regulatory Limit. The associated sample WC-7 (0.5-7) (480-124116-1) was also below the TCLP Regulatory Limit for this analyte; therefore, re-extraction was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-7 (0.5-7) (480-124116-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3550C: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: WC-7 (7-16) (480-124116-2). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: WC-7 (7-16) (480-124116-2). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Client Sample ID: WC-7 (0.5-7) — Lab Sample ID: 480-124116-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0082	J	0.010	0.0041	mg/L	10		8260C	TCLP
PCB-1242	0.27		0.27	0.053	mg/Kg	1	☼	8082A	Total/NA
Arsenic	0.0091	J B	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.48	J	1.0	0.10	mg/L	1		6010C	TCLP
Lead	0.069	B	0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	21.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-7 (7-16) — Lab Sample ID: 480-124116-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	820000		15000	2800	ug/Kg	100	☼	8260C	Total/NA
Ethylbenzene	1200000		15000	4300	ug/Kg	100	☼	8260C	Total/NA
Isopropylbenzene	15000		15000	2200	ug/Kg	100	☼	8260C	Total/NA
Methylene Chloride	6100	J B	15000	2900	ug/Kg	100	☼	8260C	Total/NA
Toluene	480000		15000	3900	ug/Kg	100	☼	8260C	Total/NA
Xylenes, Total	430000		29000	8100	ug/Kg	100	☼	8260C	Total/NA
Biphenyl	620000	E	13000	1900	ug/Kg	20	☼	8270D	Total/NA
2-Methylnaphthalene	1200000	E	13000	2600	ug/Kg	20	☼	8270D	Total/NA
Acenaphthene	1800000	E	13000	1900	ug/Kg	20	☼	8270D	Total/NA
Acenaphthylene	430000	E	13000	1700	ug/Kg	20	☼	8270D	Total/NA
Anthracene	710000	E	13000	3300	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	600000	E	13000	1300	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	810000	E	13000	1900	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	580000	E	13000	2100	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	510000	E	13000	1400	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	290000		13000	1700	ug/Kg	20	☼	8270D	Total/NA
Carbazole	14000		13000	1600	ug/Kg	20	☼	8270D	Total/NA
Chrysene	620000	E	13000	3000	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	36000		13000	1600	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	2000000	E	13000	1400	ug/Kg	20	☼	8270D	Total/NA
Fluorene	800000	E	13000	1600	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	380000	E	13000	1600	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	7600000	E	13000	1700	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	3800000	E	13000	1900	ug/Kg	20	☼	8270D	Total/NA
Pyrene	2500000	E	13000	1600	ug/Kg	20	☼	8270D	Total/NA
Biphenyl - DL	620000		260000	39000	ug/Kg	400	☼	8270D	Total/NA
2-Methylnaphthalene - DL	1200000		260000	53000	ug/Kg	400	☼	8270D	Total/NA
Acenaphthene - DL	1700000		260000	39000	ug/Kg	400	☼	8270D	Total/NA
Acenaphthylene - DL	420000		260000	34000	ug/Kg	400	☼	8270D	Total/NA
Anthracene - DL	690000		260000	65000	ug/Kg	400	☼	8270D	Total/NA
Benzo[a]anthracene - DL	620000		260000	26000	ug/Kg	400	☼	8270D	Total/NA
Benzo[a]pyrene - DL	760000		260000	39000	ug/Kg	400	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	590000		260000	42000	ug/Kg	400	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	570000		260000	28000	ug/Kg	400	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	290000		260000	34000	ug/Kg	400	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Client Sample ID: WC-7 (7-16) (Continued)

Lab Sample ID: 480-124116-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene - DL	630000		260000	59000	ug/Kg	400	☼	8270D	Total/NA
Dibenzofuran - DL	35000	J	260000	31000	ug/Kg	400	☼	8270D	Total/NA
Fluoranthene - DL	2000000		260000	28000	ug/Kg	400	☼	8270D	Total/NA
Fluorene - DL	760000		260000	31000	ug/Kg	400	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	380000		260000	33000	ug/Kg	400	☼	8270D	Total/NA
Naphthalene - DL	9400000	E	260000	34000	ug/Kg	400	☼	8270D	Total/NA
Phenanthrene - DL	4100000		260000	39000	ug/Kg	400	☼	8270D	Total/NA
Pyrene - DL	2700000		260000	31000	ug/Kg	400	☼	8270D	Total/NA
Biphenyl - DL2	640000	J	1300000	190000	ug/Kg	2000	☼	8270D	Total/NA
2-Methylnaphthalene - DL2	1100000	J	1300000	260000	ug/Kg	2000	☼	8270D	Total/NA
Acenaphthene - DL2	1700000		1300000	190000	ug/Kg	2000	☼	8270D	Total/NA
Acenaphthylene - DL2	320000	J	1300000	170000	ug/Kg	2000	☼	8270D	Total/NA
Anthracene - DL2	660000	J	1300000	330000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[a]anthracene - DL2	630000	J	1300000	130000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[a]pyrene - DL2	690000	J	1300000	190000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL2	550000	J	1300000	210000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL2	520000	J	1300000	140000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL2	330000	J	1300000	170000	ug/Kg	2000	☼	8270D	Total/NA
Chrysene - DL2	680000	J	1300000	300000	ug/Kg	2000	☼	8270D	Total/NA
Fluoranthene - DL2	2000000		1300000	140000	ug/Kg	2000	☼	8270D	Total/NA
Fluorene - DL2	720000	J	1300000	160000	ug/Kg	2000	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL2	330000	J	1300000	160000	ug/Kg	2000	☼	8270D	Total/NA
Naphthalene - DL2	8900000		1300000	170000	ug/Kg	2000	☼	8270D	Total/NA
Phenanthrene - DL2	3900000		1300000	190000	ug/Kg	2000	☼	8270D	Total/NA
Pyrene - DL2	2800000		1300000	160000	ug/Kg	2000	☼	8270D	Total/NA
GRO (C6-C10)	2400	B	320	83	mg/Kg	200	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	32000		2200	650	mg/Kg	10	☼	8015D	Total/NA
Aluminum	11900		12.5	5.5	mg/Kg	1	☼	6010C	Total/NA
Sulfur	0.20		0.0063	0.0033	%	1	☼	6010C	Total/NA
Antimony	2.8	J	18.8	0.50	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.1		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	117		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.63		0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.085	J	0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	4710	B	62.7	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	20.5	B	0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	10.0		0.63	0.063	mg/Kg	1	☼	6010C	Total/NA
Copper	29.3		1.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	24800	B	12.5	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	164		1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3340	B	25.1	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	572	B	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	33.9		6.3	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2170		37.6	25.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.3	J	5.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Sodium	337	B	176	16.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	31.3		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	150		2.5	0.80	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.23		0.027	0.011	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Client Sample ID: WC-7 (7-16) (Continued)

Lab Sample ID: 480-124116-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
BTU	DNF		2.00	2.00	BTU/lb	1		D240-87	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-7 (0.5-7)

Date Collected: 09/13/17 15:16
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-1

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/22/17 04:13	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/22/17 04:13	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/22/17 04:13	10
Benzene	**0.0082**	**J**	0.010	0.0041	mg/L			09/22/17 04:13	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/22/17 04:13	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/22/17 04:13	10
Chloroform	ND		0.010	0.0034	mg/L			09/22/17 04:13	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/22/17 04:13	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/22/17 04:13	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/22/17 04:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/22/17 04:13*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*09/22/17 04:13*	*10*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/22/17 04:13*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/22/17 04:13*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/19/17 14:15	09/21/17 02:07	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/19/17 14:15	09/21/17 02:07	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/19/17 14:15	09/21/17 02:07	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/19/17 14:15	09/21/17 02:07	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/19/17 14:15	09/21/17 02:07	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/19/17 14:15	09/21/17 02:07	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/19/17 14:15	09/21/17 02:07	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/19/17 14:15	09/21/17 02:07	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/19/17 14:15	09/21/17 02:07	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/19/17 14:15	09/21/17 02:07	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/19/17 14:15	09/21/17 02:07	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/19/17 14:15	09/21/17 02:07	1
Pyridine	ND		0.025	0.00041	mg/L		09/19/17 14:15	09/21/17 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*41 - 120*	*09/19/17 14:15*	*09/21/17 02:07*	*1*
2-Fluorobiphenyl	*83*		*48 - 120*	*09/19/17 14:15*	*09/21/17 02:07*	*1*
2-Fluorophenol	*44*		*35 - 120*	*09/19/17 14:15*	*09/21/17 02:07*	*1*
Nitrobenzene-d5	*75*		*46 - 120*	*09/19/17 14:15*	*09/21/17 02:07*	*1*
Phenol-d5	*32*		*22 - 120*	*09/19/17 14:15*	*09/21/17 02:07*	*1*
p-Terphenyl-d14	*85*		*59 - 136*	*09/19/17 14:15*	*09/21/17 02:07*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/19/17 14:29	09/20/17 14:33	1
Endrin	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 14:33	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/19/17 14:29	09/20/17 14:33	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/19/17 14:29	09/20/17 14:33	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/19/17 14:29	09/20/17 14:33	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 14:33	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/19/17 14:29	09/20/17 14:33	1

Client Sample ID: WC-7 (0.5-7)

Lab Sample ID: 480-124116-1

Date Collected: 09/13/17 15:16

Matrix: Solid

Date Received: 09/14/17 02:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*20 - 120*	*09/19/17 14:29*	*09/20/17 14:33*	*1*
DCB Decachlorobiphenyl	*100*		*20 - 120*	*09/19/17 14:29*	*09/20/17 14:33*	*1*
Tetrachloro-m-xylene	*117*		*44 - 120*	*09/19/17 14:29*	*09/20/17 14:33*	*1*
Tetrachloro-m-xylene	*75*		*44 - 120*	*09/19/17 14:29*	*09/20/17 14:33*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/19/17 14:21	09/22/17 17:50	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/19/17 14:21	09/22/17 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*24*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 17:50*	*1*
2,4-Dichlorophenylacetic acid	*24*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 17:50*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0091**	**J B**	0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:48	1
Barium	**0.48**	**J**	1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:48	1
Cadmium	ND		0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:48	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:48	1
Lead	**0.069**	**B**	0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:48	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:48	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:33	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/18/17 19:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/18/17 02:15	09/18/17 13:57	1
Sulfide, Reactive	ND		10	10	mg/Kg		09/18/17 02:15	09/18/17 14:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			09/18/17 08:41	1
pH	**8.0**	**HF**	0.1	0.1	SU			09/17/17 09:56	1
Temperature	**21.0**	**HF**	0.001	0.001	Degrees C			09/17/17 09:56	1

Client Sample ID: WC-7 (0.5-7)

Lab Sample ID: 480-124116-1

Date Collected: 09/13/17 15:16

Matrix: Solid

Date Received: 09/14/17 02:00

Percent Solids: 84.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 19:04	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 19:04	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 19:04	1
PCB-1242	**0.27**		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 19:04	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 19:04	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	09/15/17 11:20	09/15/17 19:04	1

Client Sample ID: WC-7 (0.5-7)

Lab Sample ID: 480-124116-1
Date Collected: 09/13/17 15:16
Matrix: Solid
Date Received: 09/14/17 02:00
Percent Solids: 84.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.27	0.13	mg/Kg	☼	09/15/17 11:20	09/15/17 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*65 - 174*	*09/15/17 11:20*	*09/15/17 19:04*	*1*
DCB Decachlorobiphenyl	*107*		*65 - 174*	*09/15/17 11:20*	*09/15/17 19:04*	*1*
Tetrachloro-m-xylene	*75*		*60 - 154*	*09/15/17 11:20*	*09/15/17 19:04*	*1*
Tetrachloro-m-xylene	*50*	*X*	*60 - 154*	*09/15/17 11:20*	*09/15/17 19:04*	*1*

Client Sample ID: WC-7 (7-16)

Lab Sample ID: 480-124116-2
Date Collected: 09/13/17 16:10
Matrix: Solid
Date Received: 09/14/17 02:00
Percent Solids: 75.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15000	4100	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,1,2,2-Tetrachloroethane	ND		15000	2400	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15000	7300	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,1,2-Trichloroethane	ND		15000	3100	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,1-Dichloroethane	ND		15000	4500	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,1-Dichloroethene	ND		15000	5100	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,2,4-Trichlorobenzene	ND		15000	5500	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,2-Dibromo-3-Chloropropane	ND		15000	7300	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,2-Dichlorobenzene	ND		15000	3700	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,2-Dichloroethane	ND		15000	6000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,2-Dichloropropane	ND		15000	2400	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,3-Dichlorobenzene	ND		15000	3900	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,4-Dichlorobenzene	ND		15000	2000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
2-Butanone (MEK)	ND		73000	43000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
2-Hexanone	ND		73000	30000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
4-Methyl-2-pentanone (MIBK)	ND		73000	4700	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Acetone	ND		73000	60000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Benzene	**820000**		15000	2800	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Bromoform	ND		15000	7300	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Bromomethane	ND		15000	3200	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Carbon disulfide	ND		15000	6700	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Carbon tetrachloride	ND		15000	3700	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Chlorobenzene	ND		15000	1900	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Dibromochloromethane	ND		15000	7100	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Chloroethane	ND		15000	3000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Chloroform	ND	*	15000	10000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Chloromethane	ND		15000	3500	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
cis-1,2-Dichloroethene	ND	*	15000	4000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Cyclohexane	ND		15000	3300	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Bromodichloromethane	ND		15000	2900	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Dichlorodifluoromethane	ND		15000	6400	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Ethylbenzene	**1200000**		15000	4300	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
1,2-Dibromoethane	ND		15000	2600	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Isopropylbenzene	**15000**		15000	2200	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Methyl acetate	ND		73000	7000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Methyl tert-butyl ether	ND		15000	5500	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100

Client Sample ID: WC-7 (7-16)

Date Collected: 09/13/17 16:10
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-2

Matrix: Solid
Percent Solids: 75.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND	*	15000	6900	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Methylene Chloride	**6100**	**J B**	15000	2900	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Tetrachloroethene	ND	*	15000	2000	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Toluene	**480000**		15000	3900	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
trans-1,2-Dichloroethene	ND		15000	3500	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
trans-1,3-Dichloropropene	ND		15000	1400	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Trichloroethene	ND		15000	4100	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Trichlorofluoromethane	ND		15000	6900	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Vinyl chloride	ND		15000	4900	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Xylenes, Total	**430000**		29000	8100	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
cis-1,3-Dichloropropene	ND		15000	3500	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100
Styrene	ND		15000	3500	ug/Kg	☼	09/14/17 20:02	09/21/17 15:50	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*53 - 146*	*09/14/17 20:02*	*09/21/17 15:50*	*100*
4-Bromofluorobenzene (Surr)	*103*		*49 - 148*	*09/14/17 20:02*	*09/21/17 15:50*	*100*
Toluene-d8 (Surr)	*97*		*50 - 149*	*09/14/17 20:02*	*09/21/17 15:50*	*100*
Dibromofluoromethane (Surr)	*112*		*60 - 140*	*09/14/17 20:02*	*09/21/17 15:50*	*100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**620000**	**E**	13000	1900	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
bis (2-chloroisopropyl) ether	ND		13000	2600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2,4,5-Trichlorophenol	ND		13000	3600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2,4,6-Trichlorophenol	ND		13000	2600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2,4-Dichlorophenol	ND		13000	1400	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2,4-Dimethylphenol	ND		13000	3200	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2,4-Dinitrophenol	ND		130000	61000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2,4-Dinitrotoluene	ND		13000	2700	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2,6-Dinitrotoluene	ND		13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2-Chloronaphthalene	ND		13000	2200	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2-Chlorophenol	ND		13000	2400	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2-Methylnaphthalene	**1200000**	**E**	13000	2600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2-Methylphenol	ND		13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2-Nitroaniline	ND		26000	1900	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
2-Nitrophenol	ND		13000	3700	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
3,3'-Dichlorobenzidine	ND		26000	16000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
3-Nitroaniline	ND		26000	3600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
4,6-Dinitro-2-methylphenol	ND		26000	13000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
4-Bromophenyl phenyl ether	ND		13000	1900	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
4-Chloro-3-methylphenol	ND		13000	3300	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
4-Chloroaniline	ND		13000	3300	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
4-Chlorophenyl phenyl ether	ND		13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
4-Methylphenol	ND		26000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
4-Nitroaniline	ND		26000	6900	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
4-Nitrophenol	ND		26000	9200	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Acenaphthene	**1800000**	**E**	13000	1900	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Acenaphthylene	**430000**	**E**	13000	1700	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Acetophenone	ND		13000	1800	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Anthracene	**710000**	**E**	13000	3300	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20

Client Sample ID: WC-7 (7-16)
Date Collected: 09/13/17 16:10
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-2
Matrix: Solid
Percent Solids: 75.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		13000	4600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Benzaldehyde	ND		13000	10000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Benzo[a]anthracene	**600000**	**E**	13000	1300	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Benzo[a]pyrene	**810000**	**E**	13000	1900	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Benzo[b]fluoranthene	**580000**	**E**	13000	2100	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Benzo[g,h,i]perylene	**510000**	**E**	13000	1400	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Benzo[k]fluoranthene	**290000**		13000	1700	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Bis(2-chloroethoxy)methane	ND		13000	2800	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Bis(2-chloroethyl)ether	ND		13000	1700	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Bis(2-ethylhexyl) phthalate	ND		13000	4500	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Butyl benzyl phthalate	ND		13000	2200	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Caprolactam	ND		13000	4000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Carbazole	**14000**		13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Chrysene	**620000**	**E**	13000	3000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Di-n-butyl phthalate	ND		13000	2300	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Di-n-octyl phthalate	ND		13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Dibenz(a,h)anthracene	ND		13000	2300	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Dibenzofuran	**36000**		13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Diethyl phthalate	ND		13000	1700	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Dimethyl phthalate	ND		13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Fluoranthene	**2000000**	**E**	13000	1400	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Fluorene	**800000**	**E**	13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Hexachlorobenzene	ND		13000	1800	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Hexachlorobutadiene	ND		13000	1900	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Hexachlorocyclopentadiene	ND		13000	1800	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Hexachloroethane	ND		13000	1700	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Indeno[1,2,3-cd]pyrene	**380000**	**E**	13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Isophorone	ND		13000	2800	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
N-Nitrosodi-n-propylamine	ND		13000	2300	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
N-Nitrosodiphenylamine	ND		13000	11000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Naphthalene	**7600000**	**E**	13000	1700	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Nitrobenzene	ND		13000	1500	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Pentachlorophenol	ND		26000	13000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Phenanthrene	**3800000**	**E**	13000	1900	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Phenol	ND		13000	2000	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20
Pyrene	**2500000**	**E**	13000	1600	ug/Kg	☼	09/15/17 06:53	09/19/17 01:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*133*	*X*	*54 - 120*	*09/15/17 06:53*	*09/19/17 01:28*	*20*
2-Fluorobiphenyl	*85*		*60 - 120*	*09/15/17 06:53*	*09/19/17 01:28*	*20*
2-Fluorophenol	*45*	*X*	*52 - 120*	*09/15/17 06:53*	*09/19/17 01:28*	*20*
Nitrobenzene-d5	*79*		*53 - 120*	*09/15/17 06:53*	*09/19/17 01:28*	*20*
p-Terphenyl-d14	*80*		*65 - 121*	*09/15/17 06:53*	*09/19/17 01:28*	*20*
Phenol-d5	*67*		*54 - 120*	*09/15/17 06:53*	*09/19/17 01:28*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**620000**		260000	39000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
bis (2-chloroisopropyl) ether	ND		260000	53000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2,4,5-Trichlorophenol	ND		260000	71000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400

Client Sample ID: WC-7 (7-16)
Date Collected: 09/13/17 16:10
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-2
Matrix: Solid
Percent Solids: 75.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		260000	53000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2,4-Dichlorophenol	ND		260000	28000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2,4-Dimethylphenol	ND		260000	64000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2,4-Dinitrophenol	ND		2600000	1200000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2,4-Dinitrotoluene	ND		260000	54000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2,6-Dinitrotoluene	ND		260000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2-Chloronaphthalene	ND		260000	43000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2-Chlorophenol	ND		260000	48000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2-Methylnaphthalene	**1200000**		260000	53000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2-Methylphenol	ND		260000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2-Nitroaniline	ND		510000	39000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
2-Nitrophenol	ND		260000	75000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
3,3'-Dichlorobenzidine	ND		510000	310000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
3-Nitroaniline	ND		510000	73000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
4,6-Dinitro-2-methylphenol	ND		510000	260000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
4-Bromophenyl phenyl ether	ND		260000	37000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
4-Chloro-3-methylphenol	ND		260000	65000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
4-Chloroaniline	ND		260000	65000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
4-Chlorophenyl phenyl ether	ND		260000	33000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
4-Methylphenol	ND		510000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
4-Nitroaniline	ND		510000	140000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
4-Nitrophenol	ND		510000	180000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Acenaphthene	**1700000**		260000	39000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Acenaphthylene	**420000**		260000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Acetophenone	ND		260000	36000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Anthracene	**690000**		260000	65000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Atrazine	ND		260000	92000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Benzaldehyde	ND		260000	210000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Benzo[a]anthracene	**620000**		260000	26000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Benzo[a]pyrene	**760000**		260000	39000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Benzo[b]fluoranthene	**590000**		260000	42000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Benzo[g,h,i]perylene	**570000**		260000	28000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Benzo[k]fluoranthene	**290000**		260000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Bis(2-chloroethoxy)methane	ND		260000	56000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Bis(2-chloroethyl)ether	ND		260000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Bis(2-ethylhexyl) phthalate	ND		260000	90000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Butyl benzyl phthalate	ND		260000	43000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Caprolactam	ND		260000	79000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Carbazole	ND		260000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Chrysene	**630000**		260000	59000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Di-n-butyl phthalate	ND		260000	45000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Di-n-octyl phthalate	ND		260000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Dibenz(a,h)anthracene	ND		260000	47000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Dibenzofuran	**35000**	**J**	260000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Diethyl phthalate	ND		260000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Dimethyl phthalate	ND		260000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Fluoranthene	**2000000**		260000	28000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Fluorene	**760000**		260000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Hexachlorobenzene	ND		260000	36000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400

Client Sample ID: WC-7 (7-16)
Date Collected: 09/13/17 16:10
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-2
Matrix: Solid
Percent Solids: 75.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		260000	39000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Hexachlorocyclopentadiene	ND		260000	36000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Hexachloroethane	ND		260000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Indeno[1,2,3-cd]pyrene	**380000**		260000	33000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Isophorone	ND		260000	56000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
N-Nitrosodi-n-propylamine	ND		260000	45000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
N-Nitrosodiphenylamine	ND		260000	210000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Naphthalene	**9400000**	**E**	260000	34000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Nitrobenzene	ND		260000	30000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Pentachlorophenol	ND		510000	260000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Phenanthrene	**4100000**		260000	39000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Phenol	ND		260000	40000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400
Pyrene	**2700000**		260000	31000	ug/Kg	☼	09/15/17 06:53	09/19/17 17:04	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*09/15/17 06:53*	*09/19/17 17:04*	*400*
2-Fluorobiphenyl	*0*	*X*	*60 - 120*	*09/15/17 06:53*	*09/19/17 17:04*	*400*
2-Fluorophenol	*0*	*X*	*52 - 120*	*09/15/17 06:53*	*09/19/17 17:04*	*400*
Nitrobenzene-d5	*0*	*X*	*53 - 120*	*09/15/17 06:53*	*09/19/17 17:04*	*400*
p-Terphenyl-d14	*0*	*X*	*65 - 121*	*09/15/17 06:53*	*09/19/17 17:04*	*400*
Phenol-d5	*0*	*X*	*54 - 120*	*09/15/17 06:53*	*09/19/17 17:04*	*400*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**640000**	**J**	1300000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
bis (2-chloroisopropyl) ether	ND		1300000	260000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2,4,5-Trichlorophenol	ND		1300000	360000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2,4,6-Trichlorophenol	ND		1300000	260000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2,4-Dichlorophenol	ND		1300000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2,4-Dimethylphenol	ND		1300000	320000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2,4-Dinitrophenol	ND		13000000	6100000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2,4-Dinitrotoluene	ND		1300000	270000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2,6-Dinitrotoluene	ND		1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2-Chloronaphthalene	ND		1300000	220000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2-Chlorophenol	ND		1300000	240000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2-Methylnaphthalene	**1100000**	**J**	1300000	260000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2-Methylphenol	ND		1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2-Nitroaniline	ND		2600000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
2-Nitrophenol	ND		1300000	370000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
3,3'-Dichlorobenzidine	ND		2600000	1600000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
3-Nitroaniline	ND		2600000	360000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
4,6-Dinitro-2-methylphenol	ND		2600000	1300000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
4-Bromophenyl phenyl ether	ND		1300000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
4-Chloro-3-methylphenol	ND		1300000	330000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
4-Chloroaniline	ND		1300000	330000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
4-Chlorophenyl phenyl ether	ND		1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
4-Methylphenol	ND		2600000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
4-Nitroaniline	ND		2600000	690000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
4-Nitrophenol	ND		2600000	920000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Acenaphthene	**1700000**		1300000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000

Client Sample ID: WC-7 (7-16)
Date Collected: 09/13/17 16:10
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-2
Matrix: Solid
Percent Solids: 75.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**320000**	**J**	1300000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Acetophenone	ND		1300000	180000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Anthracene	**660000**	**J**	1300000	330000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Atrazine	ND		1300000	460000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Benzaldehyde	ND		1300000	1000000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Benzo[a]anthracene	**630000**	**J**	1300000	130000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Benzo[a]pyrene	**690000**	**J**	1300000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Benzo[b]fluoranthene	**550000**	**J**	1300000	210000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Benzo[g,h,i]perylene	**520000**	**J**	1300000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Benzo[k]fluoranthene	**330000**	**J**	1300000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Bis(2-chloroethoxy)methane	ND		1300000	280000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Bis(2-chloroethyl)ether	ND		1300000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Bis(2-ethylhexyl) phthalate	ND		1300000	450000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Butyl benzyl phthalate	ND		1300000	220000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Caprolactam	ND		1300000	400000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Carbazole	ND		1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Chrysene	**680000**	**J**	1300000	300000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Di-n-butyl phthalate	ND		1300000	230000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Di-n-octyl phthalate	ND		1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Dibenz(a,h)anthracene	ND		1300000	230000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Dibenzofuran	ND		1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Diethyl phthalate	ND		1300000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Dimethyl phthalate	ND		1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Fluoranthene	**2000000**		1300000	140000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Fluorene	**720000**	**J**	1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Hexachlorobenzene	ND		1300000	180000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Hexachlorobutadiene	ND		1300000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Hexachlorocyclopentadiene	ND		1300000	180000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Hexachloroethane	ND		1300000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Indeno[1,2,3-cd]pyrene	**330000**	**J**	1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Isophorone	ND		1300000	280000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
N-Nitrosodi-n-propylamine	ND		1300000	230000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
N-Nitrosodiphenylamine	ND		1300000	1100000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Naphthalene	**8900000**		1300000	170000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Nitrobenzene	ND		1300000	150000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Pentachlorophenol	ND		2600000	1300000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Phenanthrene	**3900000**		1300000	190000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Phenol	ND		1300000	200000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000
Pyrene	**2800000**		1300000	160000	ug/Kg	☼	09/15/17 06:53	09/20/17 17:13	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*09/15/17 06:53*	*09/20/17 17:13*	*2000*
2-Fluorobiphenyl	*0*	*X*	*60 - 120*	*09/15/17 06:53*	*09/20/17 17:13*	*2000*
2-Fluorophenol	*0*	*X*	*52 - 120*	*09/15/17 06:53*	*09/20/17 17:13*	*2000*
Nitrobenzene-d5	*0*	*X*	*53 - 120*	*09/15/17 06:53*	*09/20/17 17:13*	*2000*
p-Terphenyl-d14	*0*	*X*	*65 - 121*	*09/15/17 06:53*	*09/20/17 17:13*	*2000*
Phenol-d5	*0*	*X*	*54 - 120*	*09/15/17 06:53*	*09/20/17 17:13*	*2000*

Client Sample ID: WC-7 (7-16)

Date Collected: 09/13/17 16:10
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-2

Matrix: Solid
Percent Solids: 75.5

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	2400	B	320	83	mg/Kg	☼	09/15/17 09:20	09/15/17 14:00	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*0*	*X*	*46 - 156*	*09/15/17 09:20*	*09/15/17 14:00*	*200*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32000		2200	650	mg/Kg	☼	09/19/17 13:27	09/21/17 22:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*317*	*X*	*48 - 125*	*09/19/17 13:27*	*09/21/17 22:57*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☼	09/15/17 11:20	09/15/17 19:20	1
PCB-1221	ND		0.29	0.057	mg/Kg	☼	09/15/17 11:20	09/15/17 19:20	1
PCB-1232	ND		0.29	0.057	mg/Kg	☼	09/15/17 11:20	09/15/17 19:20	1
PCB-1242	ND		0.29	0.057	mg/Kg	☼	09/15/17 11:20	09/15/17 19:20	1
PCB-1248	ND		0.29	0.057	mg/Kg	☼	09/15/17 11:20	09/15/17 19:20	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	09/15/17 11:20	09/15/17 19:20	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	09/15/17 11:20	09/15/17 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*60 - 154*	*09/15/17 11:20*	*09/15/17 19:20*	*1*
Tetrachloro-m-xylene	*40*	*X*	*60 - 154*	*09/15/17 11:20*	*09/15/17 19:20*	*1*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*09/15/17 11:20*	*09/15/17 19:20*	*1*
DCB Decachlorobiphenyl	*146*		*65 - 174*	*09/15/17 11:20*	*09/15/17 19:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11900		12.5	5.5	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Sulfur	0.20		0.0063	0.0033	%	☼	09/18/17 18:01	09/20/17 02:54	1
Antimony	2.8	J	18.8	0.50	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Arsenic	8.1		2.5	0.50	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Barium	117		0.63	0.14	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Beryllium	0.63		0.25	0.035	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Cadmium	0.085	J	0.25	0.038	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Calcium	4710	B	62.7	4.1	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Chromium	20.5	B	0.63	0.25	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Cobalt	10.0		0.63	0.063	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Copper	29.3		1.3	0.26	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Iron	24800	B	12.5	4.4	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Lead	164		1.3	0.30	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Magnesium	3340	B	25.1	1.2	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Manganese	572	B	0.25	0.040	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Nickel	33.9		6.3	0.29	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Potassium	2170		37.6	25.1	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Selenium	2.3	J	5.0	0.50	mg/Kg	☼	09/20/17 07:25	09/22/17 12:05	1
Silver	ND		0.75	0.25	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Sodium	337	B	176	16.3	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Thallium	ND		7.5	0.38	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1

Client Sample ID: WC-7 (7-16)
Date Collected: 09/13/17 16:10
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-2
Matrix: Solid
Percent Solids: 75.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	31.3		0.63	0.14	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1
Zinc	150		2.5	0.80	mg/Kg	☼	09/20/17 07:25	09/21/17 15:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.027	0.011	mg/Kg	☼	09/20/17 13:30	09/20/17 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.3	0.61	mg/Kg	☼	09/14/17 11:00	09/14/17 17:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	DNF		2.00	2.00	BTU/lb		09/22/17 08:11	09/22/17 12:11	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-378141/4	Lab Control Sample	99	106	95	108
MB 480-378141/8	Method Blank	100	104	93	108

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-124116-1	WC-7 (0.5-7)	99	101	103	97
LB 480-377280/1-A	Method Blank	104	99	115	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-124116-2	WC-7 (7-16)	103	103	97	112
LCS 480-376970/1-A	Lab Control Sample	103	101	98	112
LCSD 480-376970/2-A	Lab Control Sample Dup	102	102	98	108
MB 480-376970/3-A	Method Blank	106	102	99	114

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-124116-2	WC-7 (7-16)	133 X	85	45 X	79	80	67
480-124116-2 - DL	WC-7 (7-16)	0 X	0 X	0 X	0 X	0 X	0 X
480-124116-2 - DL2	WC-7 (7-16)	0 X	0 X	0 X	0 X	0 X	0 X

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
LCS 480-376995/2-A	Lab Control Sample	92	83	73	84	84	78
MB 480-376995/1-A	Method Blank	81	85	74	82	91	81

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(59-136)	(22-120)
LCS 480-377619/2-A	Lab Control Sample	67	89	55	94	90	40
LCSD 480-377619/3-A	Lab Control Sample Dup	67	90	50	90	87	36
MB 480-377619/1-A	Method Blank	47	89	53	84	88	35

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-124116-1	WC-7 (0.5-7)	59	83	44	75	32	85
LB 480-377279/1-D	Method Blank	60	85	47	78	33	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	Client Sample ID	(46-156)
480-124116-2	WC-7 (7-16)	0 X
LCS 480-377030/2-A	Lab Control Sample	74
LCSD 480-377030/3-A	Lab Control Sample Dup	75
MB 480-377030/1-A	Method Blank	78

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH
Lab Sample ID	Client Sample ID	(48-125)
480-124116-2	WC-7 (7-16)	317 X
LCS 480-377604/2-A	Lab Control Sample	84
MB 480-377604/1-A	Method Blank	84

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
LCS 480-377625/2-A	Lab Control Sample	69	67	100	79
LCSD 480-377625/3-A	Lab Control Sample Dup	67	63	100	81
MB 480-377625/1-A	Method Blank	57	62	91	77

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-124116-1	WC-7 (0.5-7)	110	100	117	75
LB 480-377279/1-F	Method Blank	81	75	96	70

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(65-174)	(65-174)	(60-154)	(60-154)
480-124116-1	WC-7 (0.5-7)	93	107	75	50 X
480-124116-2	WC-7 (7-16)	116	146	68	40 X
LCS 480-377052/2-A	Lab Control Sample	156	158	145	144
MB 480-377052/1-A	Method Blank	127	140	125	127

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
LCS 480-377621/2-A	Lab Control Sample	85	102
LCSD 480-377621/3-A	Lab Control Sample Dup	51	60
MB 480-377621/1-A	Method Blank	37 X	48

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
480-124116-1	WC-7 (0.5-7)	24 X	24 X
LB 480-377279/1-E	Method Blank	24 X	29 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-378141/8
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/22/17 01:58	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/22/17 01:58	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/22/17 01:58	1
Benzene	ND		0.0010	0.00041	mg/L			09/22/17 01:58	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/22/17 01:58	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/22/17 01:58	1
Chloroform	ND		0.0010	0.00034	mg/L			09/22/17 01:58	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/22/17 01:58	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/22/17 01:58	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/22/17 01:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*09/22/17 01:58*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/22/17 01:58*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/22/17 01:58*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*09/22/17 01:58*	*1*

Lab Sample ID: LCS 480-378141/4
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0236		mg/L		94	66 - 127
1,2-Dichloroethane	0.0250	0.0254		mg/L		102	75 - 120
2-Butanone (MEK)	0.125	0.0905		mg/L		72	57 - 140
Benzene	0.0250	0.0257		mg/L		103	71 - 124
Carbon tetrachloride	0.0250	0.0311		mg/L		124	72 - 134
Chlorobenzene	0.0250	0.0250		mg/L		100	80 - 120
Chloroform	0.0250	0.0277		mg/L		111	73 - 127
Tetrachloroethene	0.0250	0.0277		mg/L		111	74 - 122
Trichloroethene	0.0250	0.0289		mg/L		116	74 - 123
Vinyl chloride	0.0250	0.0200		mg/L		80	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Lab Sample ID: LB 480-377280/1-A
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/22/17 02:25	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/22/17 02:25	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/22/17 02:25	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-377280/1-A
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			09/22/17 02:25	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/22/17 02:25	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/22/17 02:25	10
Chloroform	ND		0.010	0.0034	mg/L			09/22/17 02:25	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/22/17 02:25	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/22/17 02:25	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/22/17 02:25	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/22/17 02:25*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/22/17 02:25*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/22/17 02:25*	*10*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*09/22/17 02:25*	*10*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-376970/3-A
Matrix: Solid
Analysis Batch: 377968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,1-Dichloroethane	ND		100	31	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,1-Dichloroethene	ND		100	35	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,2-Dichloroethane	ND		100	41	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
2-Butanone (MEK)	ND		500	300	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
2-Hexanone	ND		500	210	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Acetone	ND		500	410	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Benzene	ND		100	19	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Bromoform	ND		100	50	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Bromomethane	ND		100	22	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Carbon disulfide	ND		100	46	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Carbon tetrachloride	ND		100	26	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Chlorobenzene	ND		100	13	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Dibromochloromethane	ND		100	48	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Chloroethane	ND		100	21	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Chloroform	ND		100	69	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Chloromethane	ND		100	24	ug/Kg		09/14/17 20:02	09/21/17 14:03	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-376970/3-A
Matrix: Solid
Analysis Batch: 377968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Cyclohexane	ND		100	22	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Bromodichloromethane	ND		100	20	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Ethylbenzene	ND		100	29	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
1,2-Dibromoethane	ND		100	18	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Isopropylbenzene	ND		100	15	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Methyl acetate	ND		500	48	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Methylcyclohexane	ND		100	47	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Methylene Chloride	40.9	J	100	20	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Tetrachloroethene	ND		100	13	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Toluene	ND		100	27	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Trichloroethene	ND		100	28	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Trichlorofluoromethane	ND		100	47	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Vinyl chloride	ND		100	34	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Xylenes, Total	ND		200	55	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		09/14/17 20:02	09/21/17 14:03	1
Styrene	ND		100	24	ug/Kg		09/14/17 20:02	09/21/17 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*53 - 146*	*09/14/17 20:02*	*09/21/17 14:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*49 - 148*	*09/14/17 20:02*	*09/21/17 14:03*	*1*
Toluene-d8 (Surr)	*99*		*50 - 149*	*09/14/17 20:02*	*09/21/17 14:03*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 140*	*09/14/17 20:02*	*09/21/17 14:03*	*1*

Lab Sample ID: LCS 480-376970/1-A
Matrix: Solid
Analysis Batch: 377968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	3210		ug/Kg		129	68 - 130
1,1,2,2-Tetrachloroethane	2500	2380		ug/Kg		95	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	3060		ug/Kg		122	10 - 179
1,1,2-Trichloroethane	2500	2480		ug/Kg		99	80 - 120
1,1-Dichloroethane	2500	2720		ug/Kg		109	78 - 121
1,1-Dichloroethene	2500	2560		ug/Kg		102	48 - 133
1,2,4-Trichlorobenzene	2500	2330		ug/Kg		93	70 - 140
1,2-Dibromo-3-Chloropropane	2500	1920		ug/Kg		77	56 - 122
1,2-Dichlorobenzene	2500	2690		ug/Kg		108	78 - 125
1,2-Dichloroethane	2500	2750		ug/Kg		110	74 - 127
1,2-Dichloropropane	2500	2730		ug/Kg		109	80 - 120
1,3-Dichlorobenzene	2500	2860		ug/Kg		115	80 - 120
1,4-Dichlorobenzene	2500	2920		ug/Kg		117	80 - 120
2-Butanone (MEK)	12500	8460		ug/Kg		68	54 - 149

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-376970/1-A
Matrix: Solid
Analysis Batch: 377968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	12500	7990		ug/Kg		64	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	9680		ug/Kg		77	74 - 120
Acetone	12500	10000		ug/Kg		80	47 - 141
Benzene	2500	2860		ug/Kg		114	77 - 125
Bromoform	2500	2560		ug/Kg		102	48 - 125
Bromomethane	2500	2220		ug/Kg		89	39 - 149
Carbon disulfide	2500	2620		ug/Kg		105	40 - 136
Carbon tetrachloride	2500	3370		ug/Kg		135	54 - 135
Chlorobenzene	2500	2730		ug/Kg		109	76 - 126
Dibromochloromethane	2500	2800		ug/Kg		112	64 - 120
Chloroethane	2500	1610		ug/Kg		64	23 - 150
Chloroform	2500	3060	*	ug/Kg		122	78 - 120
Chloromethane	2500	2050		ug/Kg		82	61 - 124
cis-1,2-Dichloroethene	2500	3190	*	ug/Kg		128	79 - 124
Cyclohexane	2500	2790		ug/Kg		112	49 - 129
Bromodichloromethane	2500	2990		ug/Kg		120	71 - 121
Dichlorodifluoromethane	2500	3250		ug/Kg		130	10 - 150
Ethylbenzene	2500	2820		ug/Kg		113	78 - 124
1,2-Dibromoethane	2500	2600		ug/Kg		104	80 - 120
Isopropylbenzene	2500	2920		ug/Kg		117	76 - 120
Methyl acetate	12500	8910		ug/Kg		71	71 - 123
Methyl tert-butyl ether	2500	2670		ug/Kg		107	67 - 137
Methylcyclohexane	2500	3300	*	ug/Kg		132	50 - 130
Methylene Chloride	2500	2570		ug/Kg		103	75 - 118
Tetrachloroethene	2500	3340	*	ug/Kg		134	73 - 133
Toluene	2500	2800		ug/Kg		112	75 - 124
trans-1,2-Dichloroethene	2500	2910		ug/Kg		116	74 - 129
trans-1,3-Dichloropropene	2500	2650		ug/Kg		106	73 - 120
Trichloroethene	2500	3280		ug/Kg		131	75 - 131
Trichlorofluoromethane	2500	3200		ug/Kg		128	29 - 158
Vinyl chloride	2500	2380		ug/Kg		95	59 - 124
cis-1,3-Dichloropropene	2500	2620		ug/Kg		105	75 - 121
Styrene	2500	2670		ug/Kg		107	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*53 - 146*
4-Bromofluorobenzene (Surr)	*101*		*49 - 148*
Toluene-d8 (Surr)	*98*		*50 - 149*
Dibromofluoromethane (Surr)	*112*		*60 - 140*

Lab Sample ID: LCSD 480-376970/2-A
Matrix: Solid
Analysis Batch: 377968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	2500	3250		ug/Kg		130	68 - 130	1	20
1,1,2,2-Tetrachloroethane	2500	2210		ug/Kg		88	73 - 120	8	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-376970/2-A
Matrix: Solid
Analysis Batch: 377968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2770		ug/Kg		111	10 - 179	10	20
1,1,2-Trichloroethane	2500	2360		ug/Kg		94	80 - 120	5	20
1,1-Dichloroethane	2500	2670		ug/Kg		107	78 - 121	2	20
1,1-Dichloroethene	2500	2300		ug/Kg		92	48 - 133	11	20
1,2,4-Trichlorobenzene	2500	2300		ug/Kg		92	70 - 140	1	20
1,2-Dibromo-3-Chloropropane	2500	1830		ug/Kg		73	56 - 122	5	20
1,2-Dichlorobenzene	2500	2710		ug/Kg		108	78 - 125	1	20
1,2-Dichloroethane	2500	2720		ug/Kg		109	74 - 127	1	20
1,2-Dichloropropane	2500	2670		ug/Kg		107	80 - 120	2	20
1,3-Dichlorobenzene	2500	2730		ug/Kg		109	80 - 120	5	20
1,4-Dichlorobenzene	2500	2820		ug/Kg		113	80 - 120	3	20
2-Butanone (MEK)	12500	8950		ug/Kg		72	54 - 149	6	20
2-Hexanone	12500	8040		ug/Kg		64	59 - 127	1	20
4-Methyl-2-pentanone (MIBK)	12500	9770		ug/Kg		78	74 - 120	1	20
Acetone	12500	10400		ug/Kg		83	47 - 141	3	20
Benzene	2500	2870		ug/Kg		115	77 - 125	0	20
Bromoform	2500	2470		ug/Kg		99	48 - 125	3	20
Bromomethane	2500	2120		ug/Kg		85	39 - 149	5	20
Carbon disulfide	2500	2550		ug/Kg		102	40 - 136	3	20
Carbon tetrachloride	2500	3330		ug/Kg		133	54 - 135	1	20
Chlorobenzene	2500	2760		ug/Kg		110	76 - 126	1	20
Dibromochloromethane	2500	2720		ug/Kg		109	64 - 120	3	20
Chloroethane	2500	1580		ug/Kg		63	23 - 150	2	20
Chloroform	2500	2990		ug/Kg		120	78 - 120	2	20
Chloromethane	2500	2180		ug/Kg		87	61 - 124	6	20
cis-1,2-Dichloroethene	2500	2980		ug/Kg		119	79 - 124	7	20
Cyclohexane	2500	2840		ug/Kg		114	49 - 129	2	20
Bromodichloromethane	2500	2850		ug/Kg		114	71 - 121	5	20
Dichlorodifluoromethane	2500	3310		ug/Kg		132	10 - 150	2	20
Ethylbenzene	2500	2740		ug/Kg		110	78 - 124	3	20
1,2-Dibromoethane	2500	2590		ug/Kg		103	80 - 120	1	20
Isopropylbenzene	2500	2890		ug/Kg		116	76 - 120	1	20
Methyl acetate	12500	9100		ug/Kg		73	71 - 123	2	20
Methyl tert-butyl ether	2500	2610		ug/Kg		105	67 - 137	2	20
Methylcyclohexane	2500	3250		ug/Kg		130	50 - 130	2	20
Methylene Chloride	2500	2650		ug/Kg		106	75 - 118	3	20
Tetrachloroethene	2500	3190		ug/Kg		128	73 - 133	5	20
Toluene	2500	2700		ug/Kg		108	75 - 124	4	20
trans-1,2-Dichloroethene	2500	2860		ug/Kg		114	74 - 129	2	20
trans-1,3-Dichloropropene	2500	2550		ug/Kg		102	73 - 120	4	20
Trichloroethene	2500	3140		ug/Kg		126	75 - 131	4	20
Trichlorofluoromethane	2500	3170		ug/Kg		127	29 - 158	1	20
Vinyl chloride	2500	2370		ug/Kg		95	59 - 124	1	20
cis-1,3-Dichloropropene	2500	2720		ug/Kg		109	75 - 121	4	20
Styrene	2500	2650		ug/Kg		106	80 - 120	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-376970/2-A
Matrix: Solid
Analysis Batch: 377968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376970

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*53 - 146*
4-Bromofluorobenzene (Surr)	*102*		*49 - 148*
Toluene-d8 (Surr)	*98*		*50 - 149*
Dibromofluoromethane (Surr)	*108*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-376995/1-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Chlorophenol	ND		170	31	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Methylphenol	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Nitroaniline	ND		330	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
2-Nitrophenol	ND		170	48	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
3-Nitroaniline	ND		330	47	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Chloroaniline	ND		170	42	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Methylphenol	ND		330	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Nitroaniline	ND		330	88	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
4-Nitrophenol	ND		330	120	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Acenaphthene	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Acenaphthylene	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Acetophenone	ND		170	23	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Anthracene	ND		170	42	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Atrazine	ND		170	58	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzaldehyde	ND		170	130	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-376995/1-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Caprolactam	ND		170	51	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Carbazole	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Chrysene	ND		170	38	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Dibenzofuran	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Diethyl phthalate	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Fluoranthene	ND		170	18	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Fluorene	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Hexachloroethane	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Isophorone	ND		170	36	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Naphthalene	ND		170	22	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Nitrobenzene	ND		170	19	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Pentachlorophenol	ND		330	170	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Phenanthrene	ND		170	25	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Phenol	ND		170	26	ug/Kg		09/15/17 06:53	09/18/17 17:29	1
Pyrene	ND		170	20	ug/Kg		09/15/17 06:53	09/18/17 17:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*54 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
2-Fluorobiphenyl	*85*		*60 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
2-Fluorophenol	*74*		*52 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
Nitrobenzene-d5	*82*		*53 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
p-Terphenyl-d14	*91*		*65 - 121*	*09/15/17 06:53*	*09/18/17 17:29*	*1*
Phenol-d5	*81*		*54 - 120*	*09/15/17 06:53*	*09/18/17 17:29*	*1*

Lab Sample ID: LCS 480-376995/2-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1660	1450		ug/Kg		87	59 - 120
bis (2-chloroisopropyl) ether	1660	943		ug/Kg		57	44 - 120
2,4,5-Trichlorophenol	1660	1590		ug/Kg		96	59 - 126
2,4,6-Trichlorophenol	1660	1600		ug/Kg		96	59 - 123
2,4-Dichlorophenol	1660	1460		ug/Kg		88	61 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376995/2-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	1660	1520		ug/Kg		92	59 - 120
2,4-Dinitrophenol	3320	3120		ug/Kg		94	41 - 146
2,4-Dinitrotoluene	1660	1650		ug/Kg		100	63 - 120
2,6-Dinitrotoluene	1660	1560		ug/Kg		94	66 - 120
2-Chloronaphthalene	1660	1470		ug/Kg		88	57 - 120
2-Chlorophenol	1660	1380		ug/Kg		83	53 - 120
2-Methylnaphthalene	1660	1420		ug/Kg		85	59 - 120
2-Methylphenol	1660	1410		ug/Kg		85	54 - 120
2-Nitroaniline	1660	1680		ug/Kg		101	61 - 120
2-Nitrophenol	1660	1460		ug/Kg		88	56 - 120
3,3'-Dichlorobenzidine	3320	2800		ug/Kg		84	54 - 120
3-Nitroaniline	1660	1410		ug/Kg		85	48 - 120
4,6-Dinitro-2-methylphenol	3320	3370		ug/Kg		101	49 - 122
4-Bromophenyl phenyl ether	1660	1490		ug/Kg		90	58 - 120
4-Chloro-3-methylphenol	1660	1660		ug/Kg		100	61 - 120
4-Chloroaniline	1660	1200		ug/Kg		72	38 - 120
4-Chlorophenyl phenyl ether	1660	1470		ug/Kg		89	63 - 124
4-Methylphenol	1660	1500		ug/Kg		90	55 - 120
4-Nitroaniline	1660	1550		ug/Kg		93	56 - 120
4-Nitrophenol	3320	3820		ug/Kg		115	43 - 147
Acenaphthene	1660	1490		ug/Kg		90	62 - 120
Acenaphthylene	1660	1500		ug/Kg		90	58 - 121
Acetophenone	1660	1450		ug/Kg		87	54 - 120
Anthracene	1660	1530		ug/Kg		92	62 - 120
Atrazine	3320	3520		ug/Kg		106	60 - 127
Benzaldehyde	3320	1840		ug/Kg		55	10 - 150
Benzo[a]anthracene	1660	1520		ug/Kg		91	65 - 120
Benzo[a]pyrene	1660	1580		ug/Kg		95	64 - 120
Benzo[b]fluoranthene	1660	1560		ug/Kg		94	64 - 120
Benzo[g,h,i]perylene	1660	1670		ug/Kg		100	45 - 145
Benzo[k]fluoranthene	1660	1620		ug/Kg		97	65 - 120
Bis(2-chloroethoxy)methane	1660	1300		ug/Kg		79	55 - 120
Bis(2-chloroethyl)ether	1660	1220		ug/Kg		74	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1630		ug/Kg		98	61 - 133
Butyl benzyl phthalate	1660	1650		ug/Kg		99	61 - 129
Caprolactam	3320	2340		ug/Kg		70	47 - 120
Carbazole	1660	1570		ug/Kg		95	65 - 120
Chrysene	1660	1520		ug/Kg		92	64 - 120
Di-n-butyl phthalate	1660	1610		ug/Kg		97	58 - 130
Di-n-octyl phthalate	1660	1620		ug/Kg		98	57 - 133
Dibenz(a,h)anthracene	1660	1610		ug/Kg		97	54 - 132
Dibenzofuran	1660	1500		ug/Kg		90	63 - 120
Diethyl phthalate	1660	1690		ug/Kg		102	66 - 120
Dimethyl phthalate	1660	1660		ug/Kg		100	65 - 124
Fluoranthene	1660	1580		ug/Kg		95	62 - 120
Fluorene	1660	1520		ug/Kg		91	63 - 120
Hexachlorobenzene	1660	1580		ug/Kg		95	60 - 120
Hexachlorobutadiene	1660	1480		ug/Kg		89	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-376995/2-A
Matrix: Solid
Analysis Batch: 377366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	1660	1300		ug/Kg		78	47 - 120
Hexachloroethane	1660	1320		ug/Kg		79	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1650		ug/Kg		99	56 - 134
Isophorone	1660	1370		ug/Kg		82	56 - 120
N-Nitrosodi-n-propylamine	1660	1330		ug/Kg		80	52 - 120
Naphthalene	1660	1330		ug/Kg		80	55 - 120
Nitrobenzene	1660	1320		ug/Kg		79	54 - 120
Pentachlorophenol	3320	2590		ug/Kg		78	51 - 120
Phenanthrene	1660	1540		ug/Kg		93	60 - 120
Phenol	1660	1340		ug/Kg		80	53 - 120
Pyrene	1660	1490		ug/Kg		90	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*54 - 120*
2-Fluorobiphenyl	*83*		*60 - 120*
2-Fluorophenol	*73*		*52 - 120*
Nitrobenzene-d5	*84*		*53 - 120*
p-Terphenyl-d14	*84*		*65 - 121*
Phenol-d5	*78*		*54 - 120*

Lab Sample ID: MB 480-377619/1-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		09/19/17 14:15	09/20/17 22:34	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
Pyridine	ND		0.0063	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		09/19/17 14:15	09/20/17 22:34	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		09/19/17 14:15	09/20/17 22:34	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		09/19/17 14:15	09/20/17 22:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*47*		*41 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
2-Fluorobiphenyl	*89*		*48 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
2-Fluorophenol	*53*		*35 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
Nitrobenzene-d5	*84*		*46 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
Phenol-d5	*35*		*22 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-377619/2-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377619

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			0.0500	0.0321		mg/L		64	51 - 120		
2,4,5-Trichlorophenol			0.0500	0.0449		mg/L		90	65 - 126		
2,4,6-Trichlorophenol			0.0500	0.0455		mg/L		91	64 - 120		
2,4-Dinitrotoluene			0.0500	0.0460		mg/L		92	69 - 120		
3-Methylphenol			0.0500	0.0394		mg/L		79	39 - 120		
2-Methylphenol			0.0500	0.0400		mg/L		80	39 - 120		
Pyridine			0.100	0.0538		mg/L		54	10 - 120		
4-Methylphenol			0.0500	0.0394		mg/L		79	29 - 131		
Hexachlorobenzene			0.0500	0.0387		mg/L		77	61 - 120		
Hexachlorobutadiene			0.0500	0.0327		mg/L		65	35 - 120		
Hexachloroethane			0.0500	0.0293		mg/L		59	43 - 120		
Nitrobenzene			0.0500	0.0511		mg/L		102	53 - 123		
Pentachlorophenol			0.100	0.0737		mg/L		74	29 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*67*		*41 - 120*
2-Fluorobiphenyl	*89*		*48 - 120*
2-Fluorophenol	*55*		*35 - 120*
Nitrobenzene-d5	*94*		*46 - 120*
p-Terphenyl-d14	*90*		*59 - 136*
Phenol-d5	*40*		*22 - 120*

Lab Sample ID: LCSD 480-377619/3-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377619

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0296		mg/L		59	51 - 120	8	36
2,4,5-Trichlorophenol			0.0500	0.0465		mg/L		93	65 - 126	4	18
2,4,6-Trichlorophenol			0.0500	0.0456		mg/L		91	64 - 120	0	19
2,4-Dinitrotoluene			0.0500	0.0466		mg/L		93	69 - 120	1	20
3-Methylphenol			0.0500	0.0361		mg/L		72	39 - 120	9	30
2-Methylphenol			0.0500	0.0367		mg/L		73	39 - 120	8	27
Pyridine			0.100	0.0506		mg/L		51	10 - 120	6	49
4-Methylphenol			0.0500	0.0361		mg/L		72	29 - 131	9	24
Hexachlorobenzene			0.0500	0.0366		mg/L		73	61 - 120	6	15
Hexachlorobutadiene			0.0500	0.0290		mg/L		58	35 - 120	12	44
Hexachloroethane			0.0500	0.0259		mg/L		52	43 - 120	12	46
Nitrobenzene			0.0500	0.0472		mg/L		94	53 - 123	8	24
Pentachlorophenol			0.100	0.0738		mg/L		74	29 - 136	0	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*67*		*41 - 120*
2-Fluorobiphenyl	*90*		*48 - 120*
2-Fluorophenol	*50*		*35 - 120*
Nitrobenzene-d5	*90*		*46 - 120*
p-Terphenyl-d14	*87*		*59 - 136*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-377619/3-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377619

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5	*36*		*22 - 120*

Lab Sample ID: LB 480-377279/1-D
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377619

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/19/17 14:15	09/20/17 23:54	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/19/17 14:15	09/20/17 23:54	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/19/17 14:15	09/20/17 23:54	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/19/17 14:15	09/20/17 23:54	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/19/17 14:15	09/20/17 23:54	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/19/17 14:15	09/20/17 23:54	1
Pyridine	ND		0.025	0.00041	mg/L		09/19/17 14:15	09/20/17 23:54	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/19/17 14:15	09/20/17 23:54	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/19/17 14:15	09/20/17 23:54	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/19/17 14:15	09/20/17 23:54	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*41 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
2-Fluorophenol	*47*		*35 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
Nitrobenzene-d5	*78*		*46 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
Phenol-d5	*33*		*22 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 480-377030/1-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.409	J	1.2	0.33	mg/Kg		09/15/17 09:20	09/15/17 10:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*46 - 156*	*09/15/17 09:20*	*09/15/17 10:04*	*1*

Lab Sample ID: LCS 480-377030/2-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C6-C10)	9.58	9.49		mg/Kg		99	64 - 129

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 480-377030/2-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377030

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	*74*		*46 - 156*

Lab Sample ID: LCSD 480-377030/3-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)			9.92	10.4		mg/Kg		105	64 - 129	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	*75*		*46 - 156*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-377604/1-A
Matrix: Solid
Analysis Batch: 377759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		09/19/17 13:27	09/20/17 13:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*84*		*48 - 125*	*09/19/17 13:27*	*09/20/17 13:09*	*1*

Lab Sample ID: LCS 480-377604/2-A
Matrix: Solid
Analysis Batch: 377759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			48.9	42.8		mg/Kg		87	63 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	*84*		*48 - 125*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-377625/1-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		09/19/17 14:29	09/20/17 11:56	1
Endrin	ND		0.000050	0.0000035	mg/L		09/19/17 14:29	09/20/17 11:56	1
gamma-BHC (Lindane)	ND		0.000050	0.0000015	mg/L		09/19/17 14:29	09/20/17 11:56	1
Heptachlor	ND		0.000050	0.0000021	mg/L		09/19/17 14:29	09/20/17 11:56	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		09/19/17 14:29	09/20/17 11:56	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-377625/1-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.000050	0.0000035	mg/L		09/19/17 14:29	09/20/17 11:56	1
Toxaphene	ND		0.00050	0.000030	mg/L		09/19/17 14:29	09/20/17 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*20 - 120*	*09/19/17 14:29*	*09/20/17 11:56*	*1*
DCB Decachlorobiphenyl	*62*		*20 - 120*	*09/19/17 14:29*	*09/20/17 11:56*	*1*
Tetrachloro-m-xylene	*91*		*44 - 120*	*09/19/17 14:29*	*09/20/17 11:56*	*1*
Tetrachloro-m-xylene	*77*		*44 - 120*	*09/19/17 14:29*	*09/20/17 11:56*	*1*

Lab Sample ID: LCS 480-377625/2-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000558		mg/L		112	65 - 135
gamma-BHC (Lindane)	0.000500	0.000466		mg/L		93	56 - 120
Heptachlor	0.000500	0.000477		mg/L		95	58 - 120
Heptachlor epoxide	0.000500	0.000530		mg/L		106	65 - 125
Methoxychlor	0.000500	0.000536		mg/L		107	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*20 - 120*
DCB Decachlorobiphenyl	*67*		*20 - 120*
Tetrachloro-m-xylene	*100*		*44 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*

Lab Sample ID: LCSD 480-377625/3-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000553		mg/L		111	65 - 135	1	24
gamma-BHC (Lindane)	0.000500	0.000469		mg/L		94	56 - 120	1	24
Heptachlor	0.000500	0.000484		mg/L		97	58 - 120	2	25
Heptachlor epoxide	0.000500	0.000526		mg/L		105	65 - 125	1	23
Methoxychlor	0.000500	0.000547		mg/L		109	50 - 150	2	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*20 - 120*
DCB Decachlorobiphenyl	*63*		*20 - 120*
Tetrachloro-m-xylene	*100*		*44 - 120*
Tetrachloro-m-xylene	*81*		*44 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 480-377279/1-F
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377625

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/19/17 14:29	09/20/17 12:55	1
Endrin	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 12:55	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/19/17 14:29	09/20/17 12:55	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/19/17 14:29	09/20/17 12:55	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/19/17 14:29	09/20/17 12:55	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 12:55	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/19/17 14:29	09/20/17 12:55	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*20 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
DCB Decachlorobiphenyl	*75*		*20 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
Tetrachloro-m-xylene	*96*		*44 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
Tetrachloro-m-xylene	*70*		*44 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-377052/1-A
Matrix: Solid
Analysis Batch: 377115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1221	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1232	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1242	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1248	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1254	ND		0.21	0.099	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1260	ND		0.21	0.099	mg/Kg		09/15/17 11:20	09/15/17 17:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*65 - 174*	*09/15/17 11:20*	*09/15/17 17:29*	*1*
DCB Decachlorobiphenyl	*140*		*65 - 174*	*09/15/17 11:20*	*09/15/17 17:29*	*1*
Tetrachloro-m-xylene	*125*		*60 - 154*	*09/15/17 11:20*	*09/15/17 17:29*	*1*
Tetrachloro-m-xylene	*127*		*60 - 154*	*09/15/17 11:20*	*09/15/17 17:29*	*1*

Lab Sample ID: LCS 480-377052/2-A
Matrix: Solid
Analysis Batch: 377115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377052

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.46	3.88		mg/Kg		158	51 - 185		
PCB-1260			2.46	3.27		mg/Kg		133	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*156*		*65 - 174*
DCB Decachlorobiphenyl	*158*		*65 - 174*
Tetrachloro-m-xylene	*145*		*60 - 154*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-377052/2-A
Matrix: Solid
Analysis Batch: 377115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377052

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*144*		*60 - 154*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-377621/1-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		09/19/17 14:21	09/22/17 13:51	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		09/19/17 14:21	09/22/17 13:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*37*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 13:51*	*1*
2,4-Dichlorophenylacetic acid	*48*		*48 - 132*	*09/19/17 14:21*	*09/22/17 13:51*	*1*

Lab Sample ID: LCS 480-377621/2-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.00200	0.00183		mg/L		92	36 - 150
Silvex (2,4,5-TP)	0.00200	0.00184		mg/L		92	49 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*85*		*48 - 132*
2,4-Dichlorophenylacetic acid	*102*		*48 - 132*

Lab Sample ID: LCSD 480-377621/3-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	0.00200	0.00178		mg/L		89	36 - 150	3	50
Silvex (2,4,5-TP)	0.00200	0.00167		mg/L		83	49 - 150	10	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*51*		*48 - 132*
2,4-Dichlorophenylacetic acid	*60*		*48 - 132*

Lab Sample ID: LB 480-377279/1-E
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377621

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/19/17 14:21	09/22/17 15:20	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/19/17 14:21	09/22/17 15:20	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	24	X	48 - 132	09/19/17 14:21	09/22/17 15:20	1
2,4-Dichlorophenylacetic acid	29	X	48 - 132	09/19/17 14:21	09/22/17 15:20	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-377539/2-A
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:23	1
Barium	ND		1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:23	1
Cadmium	ND		0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:23	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:23	1
Lead	ND		0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:23	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:23	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:23	1

Lab Sample ID: LCS 480-377539/3-A
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.997		mg/L		100	80 - 120
Barium	1.00	0.950	J	mg/L		95	80 - 120
Cadmium	1.00	0.985		mg/L		98	80 - 120
Chromium	1.00	0.916		mg/L		92	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Silver	1.00	0.960		mg/L		96	80 - 120

Lab Sample ID: MB 480-377653/1-A
Matrix: Solid
Analysis Batch: 378204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377653

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.2	4.5	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Antimony	ND		15.3	0.41	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Arsenic	ND		2.0	0.41	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Barium	ND		0.51	0.11	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Beryllium	ND		0.20	0.029	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Cadmium	ND		0.20	0.031	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Calcium	20.57	J	51.1	3.4	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Chromium	0.367	J	0.51	0.20	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Cobalt	ND		0.51	0.051	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Copper	ND		1.0	0.21	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Iron	6.90	J	10.2	3.6	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Lead	ND		1.0	0.25	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Magnesium	9.36	J	20.5	0.95	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Manganese	0.165	J	0.20	0.033	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Nickel	ND		5.1	0.24	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Potassium	ND		30.7	20.5	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Silver	ND		0.61	0.20	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Sodium	21.85	J	143	13.3	mg/Kg		09/20/17 07:25	09/21/17 13:28	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-377653/1-A
Matrix: Solid
Analysis Batch: 378204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377653

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		6.1	0.31	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Vanadium	ND		0.51	0.11	mg/Kg		09/20/17 07:25	09/21/17 13:28	1
Zinc	ND		2.0	0.65	mg/Kg		09/20/17 07:25	09/21/17 13:28	1

Lab Sample ID: MB 480-377653/1-A
Matrix: Solid
Analysis Batch: 378305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377653

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		4.1	0.41	mg/Kg		09/20/17 07:25	09/22/17 13:59	1

Lab Sample ID: LCSSRM 480-377653/2-A
Matrix: Solid
Analysis Batch: 378204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377653

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	9088		mg/Kg		112.3	39.6 - 160.7
Antimony	99.3	63.65		mg/Kg		64.1	21.6 - 256.8
Arsenic	100	90.94		mg/Kg		90.9	69.6 - 131.0
Barium	217	197.1		mg/Kg		90.8	73.7 - 128.1
Beryllium	147	133.9		mg/Kg		91.1	75.5 - 125.9
Cadmium	83.7	74.33		mg/Kg		88.8	73.2 - 131.4
Calcium	6010	5585		mg/Kg		92.9	73.7 - 126.3
Chromium	107	99.90		mg/Kg		93.4	69.4 - 134.6
Cobalt	123	129.9		mg/Kg		105.6	74.3 - 130.1
Copper	166	140.9		mg/Kg		84.9	75.3 - 128.3
Iron	14600	15020		mg/Kg		102.9	36.1 - 163.7
Lead	88.4	91.27		mg/Kg		103.2	69.9 - 130.1
Magnesium	2930	2695		mg/Kg		92.0	65.9 - 134.5
Manganese	311	294.4		mg/Kg		94.7	74.9 - 125.4
Nickel	49.8	52.61		mg/Kg		105.6	69.1 - 135.1
Potassium	2620	2603		mg/Kg		99.4	61.1 - 138.9
Silver	41.4	33.05		mg/Kg		79.8	65.9 - 133.8
Sodium	252	253.5		mg/Kg		100.6	32.9 - 167.5

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-377653/2-A
Matrix: Solid
Analysis Batch: 378204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377653

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	58.1	56.97		mg/Kg		98.1	63.9 - 136.3
Vanadium	140	140.4		mg/Kg		100.3	69.9 - 129.3
Zinc	145	135.4		mg/Kg		93.4	67.7 - 132.4

Lab Sample ID: LCSSRM 480-377653/2-A
Matrix: Solid
Analysis Batch: 378305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377653

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	87.7	80.78		mg/Kg		92.1	64.1 - 135.7

Lab Sample ID: MB 490-460828/1-A
Matrix: Solid
Analysis Batch: 461202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	ND		0.0049	0.0025	%		09/18/17 18:01	09/20/17 00:31	1

Lab Sample ID: LCS 490-460828/2-A
Matrix: Solid
Analysis Batch: 461202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460828

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfur	0.0973	0.0958		%		98	80 - 120

Lab Sample ID: LB 480-377279/1-B
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377539

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00805	J	0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:19	1
Barium	ND		1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:19	1
Cadmium	ND		0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:19	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:19	1
Lead	0.0620		0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:19	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:19	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:19	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-377563/2-A
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:26	1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 480-377563/3-A
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00618		mg/L		93	80 - 120

Lab Sample ID: LB 480-377279/1-C
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377563

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:24	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-377626/1-A
Matrix: Solid
Analysis Batch: 377888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0080	mg/Kg		09/20/17 13:30	09/20/17 14:36	1

Lab Sample ID: LCDSRM 480-377626/21-A ^10
Matrix: Solid
Analysis Batch: 377888

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377626

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.4	10.74		mg/Kg		86.7	44.4 - 128.6	6	20

Lab Sample ID: LCSSRM 480-377626/2-A ^10
Matrix: Solid
Analysis Batch: 377888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377626

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.1	11.35		mg/Kg		93.9	44.4 - 128.6

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-377440/1
Matrix: Solid
Analysis Batch: 377440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-377358/1-A
Matrix: Solid
Analysis Batch: 377415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		09/18/17 02:15	09/18/17 13:57	1

Lab Sample ID: LCS 480-377358/2-A
Matrix: Solid
Analysis Batch: 377415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	315.0		mg/Kg		32	10 - 100

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-376757/1-A
Matrix: Solid
Analysis Batch: 376949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.95	0.46	mg/Kg		09/14/17 11:00	09/14/17 17:01	1

Lab Sample ID: LCSSRM 480-376757/2-A ^2
Matrix: Solid
Analysis Batch: 376949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376757

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	86.4	71.55		mg/Kg		82.8	29.1 - 119.2

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-377360/1-A
Matrix: Solid
Analysis Batch: 377420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		09/18/17 02:15	09/18/17 14:30	1

Lab Sample ID: LCS 480-377360/2-A
Matrix: Solid
Analysis Batch: 377420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	880	841.6		mg/Kg		96	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-377233/1
Matrix: Solid
Analysis Batch: 377233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: 9095B - Paint Filter

Lab Sample ID: 480-124116-1 DU
Matrix: Solid
Analysis Batch: 377457

Client Sample ID: WC-7 (0.5-7)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	passed		passed		mL/100g		NC	

Method: D240-87 - Heat of Combustion

Lab Sample ID: LCS 680-495627/1-A
Matrix: Solid
Analysis Batch: 495701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
BTU	5740	5109		BTU/lb		89	70 - 130

Lab Sample ID: LCSD 680-495627/5-A
Matrix: Solid
Analysis Batch: 495701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 495627

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
BTU	5740	5296		BTU/lb		92	70 - 130	4	30

GC/MS VOA

Prep Batch: 376970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	5035A_H	
MB 480-376970/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-376970/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-376970/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Leach Batch: 377280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	1311	
LB 480-377280/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 377968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	8260C	376970
MB 480-376970/3-A	Method Blank	Total/NA	Solid	8260C	376970
LCS 480-376970/1-A	Lab Control Sample	Total/NA	Solid	8260C	376970
LCSD 480-376970/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	376970

Analysis Batch: 378141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	8260C	377280
LB 480-377280/1-A	Method Blank	TCLP	Solid	8260C	377280
MB 480-378141/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-378141/4	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 376995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2 - DL	WC-7 (7-16)	Total/NA	Solid	3550C	
480-124116-2	WC-7 (7-16)	Total/NA	Solid	3550C	
480-124116-2 - DL2	WC-7 (7-16)	Total/NA	Solid	3550C	
MB 480-376995/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-376995/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	1311	
LB 480-377279/1-D	Method Blank	TCLP	Solid	1311	

Analysis Batch: 377366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	8270D	376995
MB 480-376995/1-A	Method Blank	Total/NA	Solid	8270D	376995
LCS 480-376995/2-A	Lab Control Sample	Total/NA	Solid	8270D	376995

Analysis Batch: 377597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2 - DL	WC-7 (7-16)	Total/NA	Solid	8270D	376995

GC/MS Semi VOA (Continued)

Prep Batch: 377619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	3510C	377279
LB 480-377279/1-D	Method Blank	TCLP	Solid	3510C	377279
MB 480-377619/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-377619/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-377619/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 377832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	8270D	377619
LB 480-377279/1-D	Method Blank	TCLP	Solid	8270D	377619
MB 480-377619/1-A	Method Blank	Total/NA	Solid	8270D	377619
LCS 480-377619/2-A	Lab Control Sample	Total/NA	Solid	8270D	377619
LCSD 480-377619/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	377619

Analysis Batch: 377861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2 - DL2	WC-7 (7-16)	Total/NA	Solid	8270D	376995

GC VOA

Analysis Batch: 377014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	8015D	377030
MB 480-377030/1-A	Method Blank	Total/NA	Solid	8015D	377030
LCS 480-377030/2-A	Lab Control Sample	Total/NA	Solid	8015D	377030
LCSD 480-377030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	377030

Prep Batch: 377030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	5035A_H	
MB 480-377030/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-377030/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-377030/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

GC Semi VOA

Prep Batch: 377052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	3550C	
480-124116-2	WC-7 (7-16)	Total/NA	Solid	3550C	
MB 480-377052/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-377052/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 377115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	8082A	377052
480-124116-2	WC-7 (7-16)	Total/NA	Solid	8082A	377052
MB 480-377052/1-A	Method Blank	Total/NA	Solid	8082A	377052
LCS 480-377052/2-A	Lab Control Sample	Total/NA	Solid	8082A	377052

GC Semi VOA (Continued)

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	1311	
LB 480-377279/1-E	Method Blank	TCLP	Solid	1311	
LB 480-377279/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 377604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	3550C	
MB 480-377604/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-377604/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 377621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	8151A	377279
LB 480-377279/1-E	Method Blank	TCLP	Solid	8151A	377279
MB 480-377621/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-377621/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-377621/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Prep Batch: 377625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	3510C	377279
LB 480-377279/1-F	Method Blank	TCLP	Solid	3510C	377279
MB 480-377625/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-377625/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-377625/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 377759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	8015D	377604
MB 480-377604/1-A	Method Blank	Total/NA	Solid	8015D	377604
LCS 480-377604/2-A	Lab Control Sample	Total/NA	Solid	8015D	377604

Analysis Batch: 377761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	8081B	377625
LB 480-377279/1-F	Method Blank	TCLP	Solid	8081B	377625
MB 480-377625/1-A	Method Blank	Total/NA	Solid	8081B	377625
LCS 480-377625/2-A	Lab Control Sample	Total/NA	Solid	8081B	377625
LCSD 480-377625/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	377625

Analysis Batch: 378208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	8151	377621
LB 480-377279/1-E	Method Blank	TCLP	Solid	8151	377621
MB 480-377621/1-A	Method Blank	Total/NA	Solid	8151	377621
LCS 480-377621/2-A	Lab Control Sample	Total/NA	Solid	8151	377621
LCSD 480-377621/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	377621

Metals

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	1311	
LB 480-377279/1-B	Method Blank	TCLP	Solid	1311	
LB 480-377279/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 377539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	3010A	377279
LB 480-377279/1-B	Method Blank	TCLP	Solid	3010A	377279
MB 480-377539/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-377539/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 377563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	7470A	377279
LB 480-377279/1-C	Method Blank	TCLP	Solid	7470A	377279
MB 480-377563/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-377563/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 377626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	7471B	
MB 480-377626/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-377626/21-A ^	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-377626/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 377653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	3050B	
MB 480-377653/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-377653/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 377742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	6010C	377539
LB 480-377279/1-B	Method Blank	TCLP	Solid	6010C	377539
MB 480-377539/2-A	Method Blank	Total/NA	Solid	6010C	377539
LCS 480-377539/3-A	Lab Control Sample	Total/NA	Solid	6010C	377539

Analysis Batch: 377824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	TCLP	Solid	7470A	377563
LB 480-377279/1-C	Method Blank	TCLP	Solid	7470A	377563
MB 480-377563/2-A	Method Blank	Total/NA	Solid	7470A	377563
LCS 480-377563/3-A	Lab Control Sample	Total/NA	Solid	7470A	377563

Analysis Batch: 377888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	7471B	377626
MB 480-377626/1-A	Method Blank	Total/NA	Solid	7471B	377626
LCDSRM 480-377626/21-A ^	Lab Control Sample Dup	Total/NA	Solid	7471B	377626
LCSSRM 480-377626/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	377626

Analysis Batch: 378204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	6010C	377653
MB 480-377653/1-A	Method Blank	Total/NA	Solid	6010C	377653
LCSSRM 480-377653/2-A	Lab Control Sample	Total/NA	Solid	6010C	377653

Analysis Batch: 378282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	6010C	377653

Analysis Batch: 378305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-377653/1-A	Method Blank	Total/NA	Solid	6010C	377653
LCSSRM 480-377653/2-A	Lab Control Sample	Total/NA	Solid	6010C	377653

Prep Batch: 460828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	3051A	
MB 490-460828/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-460828/2-A	Lab Control Sample	Total/NA	Solid	3051A	

Analysis Batch: 461202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	6010C	460828
MB 490-460828/1-A	Method Blank	Total/NA	Solid	6010C	460828
LCS 490-460828/2-A	Lab Control Sample	Total/NA	Solid	6010C	460828

General Chemistry

Prep Batch: 376757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	9012B	
MB 480-376757/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-376757/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 376778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	Moisture	
480-124116-2	WC-7 (7-16)	Total/NA	Solid	Moisture	

Analysis Batch: 376949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	9012B	376757
MB 480-376757/1-A	Method Blank	Total/NA	Solid	9012B	376757
LCSSRM 480-376757/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	376757

Analysis Batch: 377233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	9045D	
LCS 480-377233/1	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 377358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	7.3.3	
MB 480-377358/1-A	Method Blank	Total/NA	Solid	7.3.3	

General Chemistry (Continued)

Prep Batch: 377358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-377358/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 377360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	7.3.4	
MB 480-377360/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-377360/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 377415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	9012	377358
MB 480-377358/1-A	Method Blank	Total/NA	Solid	9012	377358
LCS 480-377358/2-A	Lab Control Sample	Total/NA	Solid	9012	377358

Analysis Batch: 377420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	9034	377360
MB 480-377360/1-A	Method Blank	Total/NA	Solid	9034	377360
LCS 480-377360/2-A	Lab Control Sample	Total/NA	Solid	9034	377360

Analysis Batch: 377440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	1010A	
LCS 480-377440/1	Lab Control Sample	Total/NA	Solid	1010A	

Analysis Batch: 377457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-1	WC-7 (0.5-7)	Total/NA	Solid	9095B	
480-124116-1 DU	WC-7 (0.5-7)	Total/NA	Solid	9095B	

Prep Batch: 495627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	D240-87	
LCS 680-495627/1-A	Lab Control Sample	Total/NA	Solid	D240-87	
LCSD 680-495627/5-A	Lab Control Sample Dup	Total/NA	Solid	D240-87	

Analysis Batch: 495701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124116-2	WC-7 (7-16)	Total/NA	Solid	D240-87	495627
LCS 680-495627/1-A	Lab Control Sample	Total/NA	Solid	D240-87	495627
LCSD 680-495627/5-A	Lab Control Sample Dup	Total/NA	Solid	D240-87	495627

Client Sample ID: WC-7 (0.5-7)

Lab Sample ID: 480-124116-1

Date Collected: 09/13/17 15:16

Matrix: Solid

Date Received: 09/14/17 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			377280	09/18/17 08:59	NMC	TAL BUF
TCLP	Analysis	8260C		10	378141	09/22/17 04:13	RJF	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377619	09/19/17 14:15	RLT	TAL BUF
TCLP	Analysis	8270D		1	377832	09/21/17 02:07	DMR	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377625	09/19/17 14:29	RLT	TAL BUF
TCLP	Analysis	8081B		1	377761	09/20/17 14:33	MAN	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	8151A			377621	09/19/17 14:21	RLT	TAL BUF
TCLP	Analysis	8151		1	378208	09/22/17 17:50	JMO	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3010A			377539	09/19/17 10:30	EMB	TAL BUF
TCLP	Analysis	6010C		1	377742	09/20/17 00:48	LMH	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	7470A			377563	09/19/17 12:00	BMB	TAL BUF
TCLP	Analysis	7470A		1	377824	09/19/17 16:33	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377440	09/18/17 08:41	DSC	TAL BUF
Total/NA	Prep	7.3.3			377358	09/18/17 02:15	LAW	TAL BUF
Total/NA	Analysis	9012		1	377415	09/18/17 13:57	MDL	TAL BUF
Total/NA	Prep	7.3.4			377360	09/18/17 02:15	LAW	TAL BUF
Total/NA	Analysis	9034		1	377420	09/18/17 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	377233	09/17/17 09:56	DSC	TAL BUF
Total/NA	Analysis	9095B		1	377457	09/18/17 19:25	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	376778	09/14/17 10:38	KPK	TAL BUF

Client Sample ID: WC-7 (0.5-7)

Lab Sample ID: 480-124116-1

Date Collected: 09/13/17 15:16

Matrix: Solid

Date Received: 09/14/17 02:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			377052	09/15/17 11:20	CAM	TAL BUF
Total/NA	Analysis	8082A		1	377115	09/15/17 19:04	JMO	TAL BUF

Client Sample ID: WC-7 (7-16)

Lab Sample ID: 480-124116-2

Date Collected: 09/13/17 16:10

Matrix: Solid

Date Received: 09/14/17 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	D240-87			495627	09/22/17 08:11	CFJ	TAL SAV
Total/NA	Analysis	D240-87		1	495701	09/22/17 12:11	CFJ	TAL SAV
Total/NA	Analysis	Moisture		1	376778	09/14/17 10:38	KPK	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Client Sample ID: WC-7 (7-16)

Date Collected: 09/13/17 16:10
Date Received: 09/14/17 02:00

Lab Sample ID: 480-124116-2

Matrix: Solid
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			376970	09/14/17 20:02	AMM	TAL BUF
Total/NA	Analysis	8260C		100	377968	09/21/17 15:50	ARS	TAL BUF
Total/NA	Prep	3550C			376995	09/15/17 06:53	CAM	TAL BUF
Total/NA	Analysis	8270D		20	377366	09/19/17 01:28	DMR	TAL BUF
Total/NA	Prep	3550C	DL		376995	09/15/17 06:53	CAM	TAL BUF
Total/NA	Analysis	8270D	DL	400	377597	09/19/17 17:04	DMR	TAL BUF
Total/NA	Prep	3550C	DL2		376995	09/15/17 06:53	CAM	TAL BUF
Total/NA	Analysis	8270D	DL2	2000	377861	09/20/17 17:13	DMR	TAL BUF
Total/NA	Prep	5035A_H			377030	09/15/17 09:20	JLS	TAL BUF
Total/NA	Analysis	8015D		200	377014	09/15/17 14:00	JLS	TAL BUF
Total/NA	Prep	3550C			377604	09/19/17 13:27	SMP	TAL BUF
Total/NA	Analysis	8015D		10	377759	09/21/17 22:57	JMO	TAL BUF
Total/NA	Prep	3550C			377052	09/15/17 11:20	CAM	TAL BUF
Total/NA	Analysis	8082A		1	377115	09/15/17 19:20	JMO	TAL BUF
Total/NA	Prep	3050B			377653	09/20/17 07:25	EMB	TAL BUF
Total/NA	Analysis	6010C		1	378204	09/21/17 15:28	JRK	TAL BUF
Total/NA	Prep	3050B			377653	09/20/17 07:25	EMB	TAL BUF
Total/NA	Analysis	6010C		1	378282	09/22/17 12:05	JRK	TAL BUF
Total/NA	Prep	3051A			460828	09/18/17 18:01	BVH	TAL NSH
Total/NA	Analysis	6010C		1	461202	09/20/17 02:54	LCS	TAL NSH
Total/NA	Prep	7471B			377626	09/20/17 13:30	BMB	TAL BUF
Total/NA	Analysis	7471B		1	377888	09/20/17 14:43	JRK	TAL BUF
Total/NA	Prep	9012B			376757	09/14/17 11:00	CLT	TAL BUF
Total/NA	Analysis	9012B		1	376949	09/14/17 17:10	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11342	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6010C	3051A	Solid	Sulfur

Laboratory: TestAmerica Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
D240-87	D240-87	Solid	BTU

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL NSH
7470A	TCLP Mercury	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
D240-87	Heat of Combustion	ASTM	TAL SAV
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-124116-1	WC-7 (0.5-7)	Solid	09/13/17 15:16	09/14/17 02:00
480-124116-2	WC-7 (7-16)	Solid	09/13/17 16:10	09/14/17 02:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-124116 COC

Client Information	Sampler: Levia Terrell	Lab PM: Deyo, Melissa L	COC No: 480-101161-24047.5
Client Contact: Mr. Michael Jones	Phone:	E-Mail: melissa.deyo@testamericainc.com	Page: Page 5 of 4
Company: ARCADIS U.S. Inc			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:		
City: Syracuse	TAT Requested (days): Standard		
State, Zip: NY, 13202			
Phone: (315) 446-9120	PO #: B0036648.1401.00006		
Email: michael.jones@arcadis.com	WO #:		
Project Name: National Grid - North Albany Project	Project #: 48016528		
Site: National Grid - North Albany	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012_ReactiveCN, 9034_Reactive	9095B - Paint Filter	6010C, 7470A, 8081B, 8151A, 8270D	8260C - TCLP Volatiles	1010A, 9045D	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - DRO	8015D_GRO - GRO	6010C - Percent Sulfur	D240_87 - BTU	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	N		
WC-7 (0.5-7)	9/13/17	1516	C	Solid	N	N	1	1	1	1	1	1									short holding time
WC-7 (7-16)	9/13/17	1610	C	Solid	N	N							1	1	1	1	3	1	1		short holding time
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

9/12/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 9/13/17 1655	Company: Arcadis	Received by:	Date/Time: 9/13/17 1655	Company: TA		
Relinquished by:	Date/Time: 9/13/17 1800	Company: TA	Received by:	Date/Time: 9-14-17 0200	Company: TAS		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			1.0	#1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Lena Terrell	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-101161-24047.6
Client Contact: Mr. Michael Jones	Phone:	E-Mail: melissa.deyo@testamericainc.com		Page: Page 6 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Syracuse	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 13202				Other:
Phone: (315) 446-9120	PO #: B0036648.1401.00006			
Email: michael.jones@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid - North Albany	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	Percent Solid	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
WC-7 (0.5-7)	9/13/17	1510	C	Solid	N	N				
WC-7 (7-16)	9/13/17	1610	C	Solid	N	N	3	1		Short holding time
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
9/13/17										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/13/17 1655	Arcadis	[signature]	9/13/17 1655	TA
[signature]	9/13/17 1800	TA	[signature]	9-14-17 0200	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.0 #1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

480-124116 Chain of Custody

Cooler Received/Opened On 09-15-2017 @ 10:10

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 9424 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID_17\960357 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 5.5 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) KD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

● ⬅ Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Loc: 480
124116

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/27/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	COC No: 480-37194.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York	Job #: 480-124116-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/26/2017		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: National Grid - North Albany Project	Project #: 48016528		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C/3051A Percent Sulfur	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-7 (7-16) (480-124116-2)	9/13/17	16:10 Eastern		Solid			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9/14/17 1600	Company TAB	Received by:	Date/Time: 9-15-17 1010	Company TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.5

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-37262.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-124116-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 9/26/2017			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87/D240_87_P Heat of Combustion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-7 (7-16) (480-124116-2)	9/13/17	16:10 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/15/17 1600	TAB	[signature]	9/16/17 1000	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.1(4.3)	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124116-1

Login Number: 124116
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	FREEZER ON 14SEPT2017 @ 0730
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124116-1

Login Number: 124116
List Number: 3
Creator: West, Derrick D

List Source: TestAmerica Nashville
List Creation: 09/17/17 11:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124116-1

Login Number: 124116
List Number: 2
Creator: Chamberlain, Kim A

List Source: TestAmerica Savannah
List Creation: 09/16/17 11:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-124206-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/29/2017 2:46:20 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-124206-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-124206-1

Receipt
The samples were received on 9/15/2017 2:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9º C.

GC/MS VOA
Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2), WC-6 (0.5-11) (480-124206-3) and (LB 480-377280/1-A). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-378141 recovered outside acceptance criteria, low biased, for Vinyl chloride and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples aree impacted: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2) and WC-6 (0.5-11) (480-124206-3).

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the abundance of non-target analytes: WC-6 (11-16) (480-124206-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to color and, viscosity: WC-6 (11-16) (480-124206-4). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-377861 recovered above the upper control limit for 2,4-Dinitrophenol, 4-Nitrophenol and, Atrazine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-6 (11-16) (480-124206-4).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-378056 recovered above the upper control limit for Nitrobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2) and WC-6 (0.5-11) (480-124206-3).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-378056 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2) and WC-6 (0.5-11) (480-124206-3).

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WC-6 (0.5-11) (480-124206-3). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-378056 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The following samples are impacted: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2) and WC-6 (0.5-11) (480-124206-3).

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-6 (11-16) (480-124206-4). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-378080 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane]. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: WC-6 (11-16)

Job ID: 480-124206-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-124206-4).

Method(s) 8270D: The following sample was diluted due to abundance of target analytes : WC-6 (11-16) (480-124206-4). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) 8015D: The following sample was diluted due to the abundance of target analytes: WC-6 (11-16) (480-124206-4). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8015D: Reported analyte concentrations in the following sample is below 200 ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: WC-6 (11-16) (480-124206-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015D: The following sample is diluted to bring the concentration of target analytes within the calibration range: WC-6 (11-16) (480-124206-4). Elevated reporting limits (RLs) are provided.

Method(s) 8015D: Surrogate recovery for the following sample was outside control limits: WC-6 (11-16) (480-124206-4). Dilution and evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8151A: The following samples are associated with a Method Blank (MB 480-377621/1-A) that has recoveries for the surrogate 2,4-Dichlorophenylacetic acid that were slightly below acceptance limits: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2) and WC-6 (0.5-11) (480-124206-3). The surrogate recoveries in all other batch QC are within limits. Therefore, the data has been reported.

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2), WC-6 (0.5-11) (480-124206-3) and (LB 480-377279/1-E). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-378208 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2) and WC-6 (0.5-11) (480-124206-3).

Method(s) 8081B: All primary data for analytical batch 377761 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 377115 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: All primary data for analytical batch 378208 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The TCLP leachate blank (LB 480-377279) contained Lead above the reporting limit (RL). This target analyte concentration was less than the TCLP Regulatory Limit. The associated samples WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2) and WC-6 (0.5-11) (480-124206-3) were also below the TCLP Regulatory Limit for this analyte; therefore, re-extraction was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-124206-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

General Chemistry

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-5 (0.5-9) (480-124206-1), WC-5 (9-16) (480-124206-2) and WC-6 (0.5-11) (480-124206-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Client Sample ID: WC-5 (0.5-9) — Lab Sample ID: 480-124206-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.033		0.010	0.0041	mg/L	10		8260C	TCLP
PCB-1260	0.76		0.27	0.13	mg/Kg	1	☼	8082A	Total/NA
Arsenic	0.011	J B	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.48	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0018	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.094	B	0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	21.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-5 (9-16) — Lab Sample ID: 480-124206-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.59		0.010	0.0041	mg/L	10		8260C	TCLP
3-Methylphenol	0.0021	J	0.010	0.00040	mg/L	1		8270D	TCLP
4-Methylphenol	0.0021	J	0.010	0.00036	mg/L	1		8270D	TCLP
Arsenic	0.0074	J B	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	1.1		1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.00068	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.022	B	0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	20.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-6 (0.5-11) — Lab Sample ID: 480-124206-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	2.5		0.24	0.11	mg/Kg	1	☼	8082A	Total/NA
Arsenic	0.016	B	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.20	J	1.0	0.10	mg/L	1		6010C	TCLP
Cadmium	0.0010	J	0.0020	0.00050	mg/L	1		6010C	TCLP
Lead	0.0062	J B	0.020	0.0030	mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	21.3	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: WC-6 (11-16) — Lab Sample ID: 480-124206-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	76000		13000	2500	ug/Kg	100	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-6 (11-16) (Continued)

Lab Sample ID: 480-124206-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	130000		13000	3900	ug/Kg	100	☼	8260C	Total/NA
Toluene	49000		13000	3600	ug/Kg	100	☼	8260C	Total/NA
Xylenes, Total	41000		27000	7400	ug/Kg	100	☼	8260C	Total/NA
Biphenyl	190000	E	4100	610	ug/Kg	20	☼	8270D	Total/NA
2-Methylnaphthalene	310000	E	4100	830	ug/Kg	20	☼	8270D	Total/NA
Acenaphthene	320000	E	4100	610	ug/Kg	20	☼	8270D	Total/NA
Acenaphthylene	96000		4100	540	ug/Kg	20	☼	8270D	Total/NA
Anthracene	200000	E	4100	1000	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	170000	E	4100	410	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	230000	E	4100	610	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	180000	E	4100	660	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180000	E	4100	440	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	84000		4100	540	ug/Kg	20	☼	8270D	Total/NA
Carbazole	4000	J	4100	490	ug/Kg	20	☼	8270D	Total/NA
Chrysene	160000	E	4100	930	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	7300		4100	490	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	580000	E	4100	440	ug/Kg	20	☼	8270D	Total/NA
Fluorene	220000	E	4100	490	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110000	E	4100	510	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	2100000	E	4100	540	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	1100000	E	4100	610	ug/Kg	20	☼	8270D	Total/NA
Pyrene	690000	E	4100	490	ug/Kg	20	☼	8270D	Total/NA
Biphenyl - DL	190000		83000	12000	ug/Kg	400	☼	8270D	Total/NA
2-Methylnaphthalene - DL	300000		83000	17000	ug/Kg	400	☼	8270D	Total/NA
Acenaphthene - DL	300000		83000	12000	ug/Kg	400	☼	8270D	Total/NA
Acenaphthylene - DL	87000		83000	11000	ug/Kg	400	☼	8270D	Total/NA
Anthracene - DL	180000		83000	20000	ug/Kg	400	☼	8270D	Total/NA
Benzo[a]anthracene - DL	170000		83000	8300	ug/Kg	400	☼	8270D	Total/NA
Benzo[a]pyrene - DL	210000		83000	12000	ug/Kg	400	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	170000		83000	13000	ug/Kg	400	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	170000		83000	8800	ug/Kg	400	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	70000	J	83000	11000	ug/Kg	400	☼	8270D	Total/NA
Chrysene - DL	170000		83000	19000	ug/Kg	400	☼	8270D	Total/NA
Fluoranthene - DL	570000		83000	8800	ug/Kg	400	☼	8270D	Total/NA
Fluorene - DL	210000		83000	9800	ug/Kg	400	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	98000		83000	10000	ug/Kg	400	☼	8270D	Total/NA
Naphthalene - DL	2900000	E	83000	11000	ug/Kg	400	☼	8270D	Total/NA
Phenanthrene - DL	1200000		83000	12000	ug/Kg	400	☼	8270D	Total/NA
Pyrene - DL	770000		83000	9800	ug/Kg	400	☼	8270D	Total/NA
Biphenyl - DL2	160000	J	410000	61000	ug/Kg	2000	☼	8270D	Total/NA
2-Methylnaphthalene - DL2	270000	J	410000	83000	ug/Kg	2000	☼	8270D	Total/NA
Acenaphthene - DL2	270000	J	410000	61000	ug/Kg	2000	☼	8270D	Total/NA
Acenaphthylene - DL2	79000	J	410000	54000	ug/Kg	2000	☼	8270D	Total/NA
Anthracene - DL2	180000	J	410000	100000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[a]pyrene - DL2	190000	J	410000	61000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL2	180000	J	410000	66000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL2	150000	J	410000	44000	ug/Kg	2000	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL2	67000	J	410000	54000	ug/Kg	2000	☼	8270D	Total/NA
Chrysene - DL2	170000	J	410000	93000	ug/Kg	2000	☼	8270D	Total/NA
Fluoranthene - DL2	540000		410000	44000	ug/Kg	2000	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-6 (11-16) (Continued)

Lab Sample ID: 480-124206-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene - DL2	180000	J	410000	49000	ug/Kg	2000	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL2	100000	J	410000	51000	ug/Kg	2000	☼	8270D	Total/NA
Naphthalene - DL2	2700000		410000	54000	ug/Kg	2000	☼	8270D	Total/NA
Phenanthrene - DL2	1100000		410000	61000	ug/Kg	2000	☼	8270D	Total/NA
Pyrene - DL2	750000		410000	49000	ug/Kg	2000	☼	8270D	Total/NA
GRO (C6-C10)	200	B	150	40	mg/Kg	100	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	7800		200	60	mg/Kg	10	☼	8015D	Total/NA
Aluminum	18300		12.5	5.5	mg/Kg	1	☼	6010C	Total/NA
Sulfur	0.13		0.0058	0.0030	%	1	☼	6010C	Total/NA
Arsenic	7.0		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	161		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.96		0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J	0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	3390	B	62.7	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	23.1	B	0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	13.1		0.63	0.063	mg/Kg	1	☼	6010C	Total/NA
Copper	26.5		1.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	26500	B	12.5	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	34.6		1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4740		25.1	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	974	B	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	30.5		6.3	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	3210		37.6	25.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.72	J	5.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Sodium	180		176	16.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	35.6		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	71.7		2.5	0.80	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.26		0.024	0.0098	mg/Kg	1	☼	7471B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
BTU	DNF		2.00	2.00	BTU/lb	1		D240-87	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-5 (0.5-9)
Date Collected: 09/14/17 12:50
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-1
Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/22/17 04:40	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/22/17 04:40	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/22/17 04:40	10
Benzene	**0.033**		0.010	0.0041	mg/L			09/22/17 04:40	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/22/17 04:40	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/22/17 04:40	10
Chloroform	ND		0.010	0.0034	mg/L			09/22/17 04:40	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/22/17 04:40	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/22/17 04:40	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/22/17 04:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*09/22/17 04:40*	*10*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/22/17 04:40*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*09/22/17 04:40*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/22/17 04:40*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/19/17 14:15	09/21/17 15:30	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/19/17 14:15	09/21/17 15:30	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/19/17 14:15	09/21/17 15:30	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/19/17 14:15	09/21/17 15:30	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/19/17 14:15	09/21/17 15:30	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/19/17 14:15	09/21/17 15:30	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/19/17 14:15	09/21/17 15:30	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/19/17 14:15	09/21/17 15:30	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/19/17 14:15	09/21/17 15:30	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/19/17 14:15	09/21/17 15:30	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/19/17 14:15	09/21/17 15:30	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/19/17 14:15	09/21/17 15:30	1
Pyridine	ND		0.025	0.00041	mg/L		09/19/17 14:15	09/21/17 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*41 - 120*	*09/19/17 14:15*	*09/21/17 15:30*	*1*
2-Fluorobiphenyl	*88*		*48 - 120*	*09/19/17 14:15*	*09/21/17 15:30*	*1*
2-Fluorophenol	*47*		*35 - 120*	*09/19/17 14:15*	*09/21/17 15:30*	*1*
Nitrobenzene-d5	*80*		*46 - 120*	*09/19/17 14:15*	*09/21/17 15:30*	*1*
Phenol-d5	*34*		*22 - 120*	*09/19/17 14:15*	*09/21/17 15:30*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*09/19/17 14:15*	*09/21/17 15:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/19/17 14:29	09/20/17 14:52	1
Endrin	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 14:52	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/19/17 14:29	09/20/17 14:52	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/19/17 14:29	09/20/17 14:52	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/19/17 14:29	09/20/17 14:52	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 14:52	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/19/17 14:29	09/20/17 14:52	1

Client Sample ID: WC-5 (0.5-9)

Date Collected: 09/14/17 12:50
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-1
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*20 - 120*	*09/19/17 14:29*	*09/20/17 14:52*	*1*
DCB Decachlorobiphenyl	*101*		*20 - 120*	*09/19/17 14:29*	*09/20/17 14:52*	*1*
Tetrachloro-m-xylene	*106*		*44 - 120*	*09/19/17 14:29*	*09/20/17 14:52*	*1*
Tetrachloro-m-xylene	*76*		*44 - 120*	*09/19/17 14:29*	*09/20/17 14:52*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/19/17 14:21	09/22/17 18:20	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/19/17 14:21	09/22/17 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*22*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 18:20*	*1*
2,4-Dichlorophenylacetic acid	*33*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 18:20*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**	**J B**	0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:52	1
Barium	**0.48**	**J**	1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:52	1
Cadmium	**0.0018**	**J**	0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:52	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:52	1
Lead	**0.094**	**B**	0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:52	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:52	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:38	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/18/17 19:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		9.9	9.9	mg/Kg		09/18/17 02:15	09/18/17 13:57	1
Sulfide, Reactive	ND		9.9	9.9	mg/Kg		09/18/17 02:15	09/18/17 14:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			09/19/17 16:12	1
pH	**7.7**	**HF**	0.1	0.1	SU			09/17/17 09:56	1
Temperature	**21.1**	**HF**	0.001	0.001	Degrees C			09/17/17 09:56	1

Client Sample ID: WC-5 (0.5-9)

Date Collected: 09/14/17 12:50
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-1
Matrix: Solid
Percent Solids: 83.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 21:12	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 21:12	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 21:12	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 21:12	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	09/15/17 11:20	09/15/17 21:12	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	09/15/17 11:20	09/15/17 21:12	1

Client Sample ID: WC-5 (0.5-9)

Lab Sample ID: 480-124206-1
Date Collected: 09/14/17 12:50
Matrix: Solid
Date Received: 09/15/17 02:15
Percent Solids: 83.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	**0.76**		0.27	0.13	mg/Kg	☼	09/15/17 11:20	09/15/17 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*65 - 174*	*09/15/17 11:20*	*09/15/17 21:12*	*1*
DCB Decachlorobiphenyl	*112*		*65 - 174*	*09/15/17 11:20*	*09/15/17 21:12*	*1*
Tetrachloro-m-xylene	*104*		*60 - 154*	*09/15/17 11:20*	*09/15/17 21:12*	*1*
Tetrachloro-m-xylene	*106*		*60 - 154*	*09/15/17 11:20*	*09/15/17 21:12*	*1*

Client Sample ID: WC-5 (9-16)

Lab Sample ID: 480-124206-2
Date Collected: 09/14/17 13:00
Matrix: Solid
Date Received: 09/15/17 02:15

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/22/17 05:07	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/22/17 05:07	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/22/17 05:07	10
Benzene	**0.59**		0.010	0.0041	mg/L			09/22/17 05:07	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/22/17 05:07	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/22/17 05:07	10
Chloroform	ND		0.010	0.0034	mg/L			09/22/17 05:07	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/22/17 05:07	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/22/17 05:07	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/22/17 05:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*09/22/17 05:07*	*10*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/22/17 05:07*	*10*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*09/22/17 05:07*	*10*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/22/17 05:07*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/19/17 14:15	09/21/17 15:57	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/19/17 14:15	09/21/17 15:57	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/19/17 14:15	09/21/17 15:57	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/19/17 14:15	09/21/17 15:57	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/19/17 14:15	09/21/17 15:57	1
3-Methylphenol	**0.0021**	**J**	0.010	0.00040	mg/L		09/19/17 14:15	09/21/17 15:57	1
4-Methylphenol	**0.0021**	**J**	0.010	0.00036	mg/L		09/19/17 14:15	09/21/17 15:57	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/19/17 14:15	09/21/17 15:57	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/19/17 14:15	09/21/17 15:57	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/19/17 14:15	09/21/17 15:57	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/19/17 14:15	09/21/17 15:57	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/19/17 14:15	09/21/17 15:57	1
Pyridine	ND		0.025	0.00041	mg/L		09/19/17 14:15	09/21/17 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*41 - 120*	*09/19/17 14:15*	*09/21/17 15:57*	*1*
2-Fluorobiphenyl	*86*		*48 - 120*	*09/19/17 14:15*	*09/21/17 15:57*	*1*
2-Fluorophenol	*45*		*35 - 120*	*09/19/17 14:15*	*09/21/17 15:57*	*1*

Client Sample ID: WC-5 (9-16)
Date Collected: 09/14/17 13:00
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-2
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*46 - 120*	*09/19/17 14:15*	*09/21/17 15:57*	*1*
Phenol-d5	*35*		*22 - 120*	*09/19/17 14:15*	*09/21/17 15:57*	*1*
p-Terphenyl-d14	*91*		*59 - 136*	*09/19/17 14:15*	*09/21/17 15:57*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/19/17 14:29	09/20/17 15:12	1
Endrin	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 15:12	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/19/17 14:29	09/20/17 15:12	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/19/17 14:29	09/20/17 15:12	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/19/17 14:29	09/20/17 15:12	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 15:12	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/19/17 14:29	09/20/17 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*20 - 120*	*09/19/17 14:29*	*09/20/17 15:12*	*1*
DCB Decachlorobiphenyl	*45*		*20 - 120*	*09/19/17 14:29*	*09/20/17 15:12*	*1*
Tetrachloro-m-xylene	*74*		*44 - 120*	*09/19/17 14:29*	*09/20/17 15:12*	*1*
Tetrachloro-m-xylene	*50*		*44 - 120*	*09/19/17 14:29*	*09/20/17 15:12*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/19/17 14:21	09/22/17 19:50	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/19/17 14:21	09/22/17 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*27*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 19:50*	*1*
2,4-Dichlorophenylacetic acid	*35*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 19:50*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0074**	**J B**	0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:56	1
Barium	**1.1**		1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:56	1
Cadmium	**0.00068**	**J**	0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:56	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:56	1
Lead	**0.022**	**B**	0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:56	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:56	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:39	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/18/17 19:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/18/17 02:15	09/18/17 13:57	1
Sulfide, Reactive	ND		10	10	mg/Kg		09/18/17 02:15	09/18/17 14:30	1

Client Sample ID: WC-5 (9-16)

Lab Sample ID: 480-124206-2

Date Collected: 09/14/17 13:00

Matrix: Solid

Date Received: 09/15/17 02:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			09/19/17 16:12	1
pH	7.2	HF	0.1	0.1	SU			09/17/17 09:56	1
Temperature	20.9	HF	0.001	0.001	Degrees C			09/17/17 09:56	1

Client Sample ID: WC-5 (9-16)

Lab Sample ID: 480-124206-2

Date Collected: 09/14/17 13:00

Matrix: Solid

Date Received: 09/15/17 02:15

Percent Solids: 74.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 21:28	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 21:28	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 21:28	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 21:28	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 21:28	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	09/15/17 11:20	09/15/17 21:28	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	09/15/17 11:20	09/15/17 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*65 - 174*	*09/15/17 11:20*	*09/15/17 21:28*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*09/15/17 11:20*	*09/15/17 21:28*	*1*
Tetrachloro-m-xylene	*104*		*60 - 154*	*09/15/17 11:20*	*09/15/17 21:28*	*1*
Tetrachloro-m-xylene	*121*		*60 - 154*	*09/15/17 11:20*	*09/15/17 21:28*	*1*

Client Sample ID: WC-6 (0.5-11)

Lab Sample ID: 480-124206-3

Date Collected: 09/14/17 08:45

Matrix: Solid

Date Received: 09/15/17 02:15

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/22/17 05:34	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/22/17 05:34	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/22/17 05:34	10
Benzene	ND		0.010	0.0041	mg/L			09/22/17 05:34	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/22/17 05:34	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/22/17 05:34	10
Chloroform	ND		0.010	0.0034	mg/L			09/22/17 05:34	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/22/17 05:34	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/22/17 05:34	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/22/17 05:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/22/17 05:34*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/22/17 05:34*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*09/22/17 05:34*	*10*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/22/17 05:34*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/19/17 14:15	09/21/17 16:24	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/19/17 14:15	09/21/17 16:24	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/19/17 14:15	09/21/17 16:24	1

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Client Sample ID: WC-6 (0.5-11)
Date Collected: 09/14/17 08:45
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-3
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/19/17 14:15	09/21/17 16:24	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/19/17 14:15	09/21/17 16:24	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/19/17 14:15	09/21/17 16:24	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/19/17 14:15	09/21/17 16:24	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/19/17 14:15	09/21/17 16:24	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/19/17 14:15	09/21/17 16:24	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/19/17 14:15	09/21/17 16:24	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/19/17 14:15	09/21/17 16:24	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/19/17 14:15	09/21/17 16:24	1
Pyridine	ND		0.025	0.00041	mg/L		09/19/17 14:15	09/21/17 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*53*		*41 - 120*	*09/19/17 14:15*	*09/21/17 16:24*	*1*
2-Fluorobiphenyl	*66*		*48 - 120*	*09/19/17 14:15*	*09/21/17 16:24*	*1*
2-Fluorophenol	*34*	*X*	*35 - 120*	*09/19/17 14:15*	*09/21/17 16:24*	*1*
Nitrobenzene-d5	*57*		*46 - 120*	*09/19/17 14:15*	*09/21/17 16:24*	*1*
Phenol-d5	*26*		*22 - 120*	*09/19/17 14:15*	*09/21/17 16:24*	*1*
p-Terphenyl-d14	*81*		*59 - 136*	*09/19/17 14:15*	*09/21/17 16:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/19/17 14:29	09/20/17 15:31	1
Endrin	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 15:31	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/19/17 14:29	09/20/17 15:31	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/19/17 14:29	09/20/17 15:31	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/19/17 14:29	09/20/17 15:31	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 15:31	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/19/17 14:29	09/20/17 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*20 - 120*	*09/19/17 14:29*	*09/20/17 15:31*	*1*
DCB Decachlorobiphenyl	*71*		*20 - 120*	*09/19/17 14:29*	*09/20/17 15:31*	*1*
Tetrachloro-m-xylene	*97*		*44 - 120*	*09/19/17 14:29*	*09/20/17 15:31*	*1*
Tetrachloro-m-xylene	*74*		*44 - 120*	*09/19/17 14:29*	*09/20/17 15:31*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/19/17 14:21	09/22/17 20:19	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/19/17 14:21	09/22/17 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*27*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 20:19*	*1*
2,4-Dichlorophenylacetic acid	*25*	*X*	*48 - 132*	*09/19/17 14:21*	*09/22/17 20:19*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**	**B**	0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 01:00	1
Barium	**0.20**	**J**	1.0	0.10	mg/L		09/19/17 10:30	09/20/17 01:00	1
Cadmium	**0.0010**	**J**	0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 01:00	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 01:00	1
Lead	**0.0062**	**J B**	0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 01:00	1

Client Sample ID: WC-6 (0.5-11)

Date Collected: 09/14/17 08:45
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-3
Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 01:00	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 01:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:42	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	**passed**				mL/100g			09/18/17 19:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	10	mg/Kg		09/18/17 02:15	09/18/17 13:57	1
Sulfide, Reactive	ND		10	10	mg/Kg		09/18/17 02:15	09/18/17 14:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			09/19/17 16:12	1
pH	**7.4**	**HF**	0.1	0.1	SU			09/17/17 09:56	1
Temperature	**21.3**	**HF**	0.001	0.001	Degrees C			09/17/17 09:56	1

Client Sample ID: WC-6 (0.5-11)

Date Collected: 09/14/17 08:45
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-3
Matrix: Solid
Percent Solids: 87.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	09/15/17 11:20	09/15/17 21:44	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	09/15/17 11:20	09/15/17 21:44	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	09/15/17 11:20	09/15/17 21:44	1
PCB-1242	ND		0.24	0.048	mg/Kg	☼	09/15/17 11:20	09/15/17 21:44	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	09/15/17 11:20	09/15/17 21:44	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	09/15/17 11:20	09/15/17 21:44	1
PCB-1260	**2.5**		0.24	0.11	mg/Kg	☼	09/15/17 11:20	09/15/17 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*09/15/17 11:20*	*09/15/17 21:44*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*09/15/17 11:20*	*09/15/17 21:44*	*1*
Tetrachloro-m-xylene	*104*		*60 - 154*	*09/15/17 11:20*	*09/15/17 21:44*	*1*
Tetrachloro-m-xylene	*101*		*60 - 154*	*09/15/17 11:20*	*09/15/17 21:44*	*1*

Client Sample ID: WC-6 (11-16)

Date Collected: 09/14/17 09:15
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-4
Matrix: Solid
Percent Solids: 81.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		13000	3700	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,1,2,2-Tetrachloroethane	ND		13000	2200	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13000	6700	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,1,2-Trichloroethane	ND		13000	2800	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,1-Dichloroethane	ND		13000	4100	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,1-Dichloroethene	ND		13000	4600	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Client Sample ID: WC-6 (11-16)
Date Collected: 09/14/17 09:15
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-4
Matrix: Solid
Percent Solids: 81.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		13000	5100	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,2-Dibromo-3-Chloropropane	ND		13000	6700	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,2-Dichlorobenzene	ND		13000	3400	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,2-Dichloroethane	ND		13000	5500	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,2-Dichloropropane	ND		13000	2200	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,3-Dichlorobenzene	ND		13000	3600	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,4-Dichlorobenzene	ND		13000	1900	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
2-Butanone (MEK)	ND		67000	40000	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
2-Hexanone	ND		67000	27000	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
4-Methyl-2-pentanone (MIBK)	ND		67000	4300	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Acetone	ND		67000	55000	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Benzene	**76000**		13000	2500	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Bromoform	ND		13000	6700	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Bromomethane	ND		13000	2900	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Carbon disulfide	ND		13000	6100	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Carbon tetrachloride	ND		13000	3400	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Chlorobenzene	ND		13000	1800	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Dibromochloromethane	ND		13000	6500	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Chloroethane	ND		13000	2800	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Chloroform	ND		13000	9200	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Chloromethane	ND		13000	3200	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
cis-1,2-Dichloroethene	ND		13000	3700	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Cyclohexane	ND		13000	3000	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Bromodichloromethane	ND		13000	2700	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Dichlorodifluoromethane	ND		13000	5800	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Ethylbenzene	**130000**		13000	3900	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
1,2-Dibromoethane	ND		13000	2300	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Isopropylbenzene	ND		13000	2000	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Methyl acetate	ND		67000	6400	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Methyl tert-butyl ether	ND		13000	5100	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Methylcyclohexane	ND		13000	6300	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Methylene Chloride	ND		13000	2600	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Tetrachloroethene	ND		13000	1800	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Toluene	**49000**		13000	3600	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
trans-1,2-Dichloroethene	ND		13000	3200	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
trans-1,3-Dichloropropene	ND		13000	1300	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Trichloroethene	ND		13000	3700	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Trichlorofluoromethane	ND		13000	6300	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Vinyl chloride	ND		13000	4500	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Xylenes, Total	**41000**		27000	7400	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
cis-1,3-Dichloropropene	ND		13000	3200	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100
Styrene	ND		13000	3200	ug/Kg	☼	09/16/17 12:30	09/24/17 14:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*53 - 146*	*09/16/17 12:30*	*09/24/17 14:52*	*100*
4-Bromofluorobenzene (Surr)	*99*		*49 - 148*	*09/16/17 12:30*	*09/24/17 14:52*	*100*
Toluene-d8 (Surr)	*98*		*50 - 149*	*09/16/17 12:30*	*09/24/17 14:52*	*100*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*09/16/17 12:30*	*09/24/17 14:52*	*100*

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Client Sample ID: WC-6 (11-16)
Date Collected: 09/14/17 09:15
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-4
Matrix: Solid
Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**190000**	**E**	4100	610	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
bis (2-chloroisopropyl) ether	ND		4100	830	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2,4,5-Trichlorophenol	ND		4100	1100	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2,4,6-Trichlorophenol	ND		4100	830	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2,4-Dichlorophenol	ND		4100	440	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2,4-Dimethylphenol	ND		4100	1000	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2,4-Dinitrophenol	ND		40000	19000	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2,4-Dinitrotoluene	ND		4100	850	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2,6-Dinitrotoluene	ND		4100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2-Chloronaphthalene	ND		4100	680	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2-Chlorophenol	ND		4100	760	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2-Methylnaphthalene	**310000**	**E**	4100	830	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2-Methylphenol	ND		4100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2-Nitroaniline	ND		8100	610	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
2-Nitrophenol	ND		4100	1200	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
3,3'-Dichlorobenzidine	ND		8100	4900	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
3-Nitroaniline	ND		8100	1100	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
4,6-Dinitro-2-methylphenol	ND		8100	4100	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
4-Bromophenyl phenyl ether	ND		4100	590	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
4-Chloro-3-methylphenol	ND		4100	1000	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
4-Chloroaniline	ND		4100	1000	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
4-Chlorophenyl phenyl ether	ND		4100	510	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
4-Methylphenol	ND		8100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
4-Nitroaniline	ND		8100	2200	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
4-Nitrophenol	ND		8100	2900	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Acenaphthene	**320000**	**E**	4100	610	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Acenaphthylene	**96000**		4100	540	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Acetophenone	ND		4100	560	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Anthracene	**200000**	**E**	4100	1000	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Atrazine	ND		4100	1400	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Benzaldehyde	ND		4100	3300	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Benzo[a]anthracene	**170000**	**E**	4100	410	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Benzo[a]pyrene	**230000**	**E**	4100	610	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Benzo[b]fluoranthene	**180000**	**E**	4100	660	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Benzo[g,h,i]perylene	**180000**	**E**	4100	440	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Benzo[k]fluoranthene	**84000**		4100	540	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Bis(2-chloroethoxy)methane	ND		4100	880	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Bis(2-chloroethyl)ether	ND		4100	540	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Bis(2-ethylhexyl) phthalate	ND		4100	1400	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Butyl benzyl phthalate	ND		4100	680	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Caprolactam	ND		4100	1200	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Carbazole	**4000**	**J**	4100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Chrysene	**160000**	**E**	4100	930	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Di-n-butyl phthalate	ND		4100	710	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Di-n-octyl phthalate	ND		4100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Dibenz(a,h)anthracene	ND		4100	730	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Dibenzofuran	**7300**		4100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Diethyl phthalate	ND		4100	540	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Dimethyl phthalate	ND		4100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Client Sample ID: WC-6 (11-16)
Date Collected: 09/14/17 09:15
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-4
Matrix: Solid
Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**580000**	**E**	4100	440	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Fluorene	**220000**	**E**	4100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Hexachlorobenzene	ND		4100	560	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Hexachlorobutadiene	ND		4100	610	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Hexachlorocyclopentadiene	ND		4100	560	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Hexachloroethane	ND		4100	540	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Indeno[1,2,3-cd]pyrene	**110000**	**E**	4100	510	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Isophorone	ND		4100	880	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
N-Nitrosodi-n-propylamine	ND		4100	710	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
N-Nitrosodiphenylamine	ND		4100	3400	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Naphthalene	**2100000**	**E**	4100	540	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Nitrobenzene	ND		4100	460	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Pentachlorophenol	ND		8100	4100	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Phenanthrene	**1100000**	**E**	4100	610	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Phenol	ND		4100	630	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20
Pyrene	**690000**	**E**	4100	490	ug/Kg	☼	09/19/17 13:14	09/20/17 22:37	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*112*		*54 - 120*	*09/19/17 13:14*	*09/20/17 22:37*	*20*
2-Fluorobiphenyl	*69*		*60 - 120*	*09/19/17 13:14*	*09/20/17 22:37*	*20*
2-Fluorophenol	*64*		*52 - 120*	*09/19/17 13:14*	*09/20/17 22:37*	*20*
Nitrobenzene-d5	*73*		*53 - 120*	*09/19/17 13:14*	*09/20/17 22:37*	*20*
p-Terphenyl-d14	*79*		*65 - 121*	*09/19/17 13:14*	*09/20/17 22:37*	*20*
Phenol-d5	*63*		*54 - 120*	*09/19/17 13:14*	*09/20/17 22:37*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**190000**		83000	12000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
bis (2-chloroisopropyl) ether	ND		83000	17000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2,4,5-Trichlorophenol	ND		83000	22000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2,4,6-Trichlorophenol	ND		83000	17000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2,4-Dichlorophenol	ND		83000	8800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2,4-Dimethylphenol	ND		83000	20000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2,4-Dinitrophenol	ND		810000	380000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2,4-Dinitrotoluene	ND		83000	17000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2,6-Dinitrotoluene	ND		83000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2-Chloronaphthalene	ND		83000	14000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2-Chlorophenol	ND		83000	15000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2-Methylnaphthalene	**300000**		83000	17000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2-Methylphenol	ND		83000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2-Nitroaniline	ND		160000	12000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
2-Nitrophenol	ND		83000	23000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
3,3'-Dichlorobenzidine	ND		160000	98000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
3-Nitroaniline	ND		160000	23000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
4,6-Dinitro-2-methylphenol	ND		160000	83000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
4-Bromophenyl phenyl ether	ND		83000	12000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
4-Chloro-3-methylphenol	ND		83000	20000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
4-Chloroaniline	ND		83000	20000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
4-Chlorophenyl phenyl ether	ND		83000	10000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
4-Methylphenol	ND		160000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400

Client Sample ID: WC-6 (11-16)
Date Collected: 09/14/17 09:15
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-4
Matrix: Solid
Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		160000	43000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
4-Nitrophenol	ND		160000	58000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Acenaphthene	**300000**		83000	12000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Acenaphthylene	**87000**		83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Acetophenone	ND		83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Anthracene	**180000**		83000	20000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Atrazine	ND		83000	29000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Benzaldehyde	ND		83000	66000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Benzo[a]anthracene	**170000**		83000	8300	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Benzo[a]pyrene	**210000**		83000	12000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Benzo[b]fluoranthene	**170000**		83000	13000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Benzo[g,h,i]perylene	**170000**		83000	8800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Benzo[k]fluoranthene	**70000**	**J**	83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Bis(2-chloroethoxy)methane	ND		83000	18000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Bis(2-chloroethyl)ether	ND		83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Bis(2-ethylhexyl) phthalate	ND		83000	28000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Butyl benzyl phthalate	ND		83000	14000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Caprolactam	ND		83000	25000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Carbazole	ND		83000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Chrysene	**170000**		83000	19000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Di-n-butyl phthalate	ND		83000	14000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Di-n-octyl phthalate	ND		83000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Dibenz(a,h)anthracene	ND		83000	15000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Dibenzofuran	ND		83000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Diethyl phthalate	ND		83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Dimethyl phthalate	ND		83000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Fluoranthene	**570000**		83000	8800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Fluorene	**210000**		83000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Hexachlorobenzene	ND		83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Hexachlorobutadiene	ND		83000	12000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Hexachlorocyclopentadiene	ND		83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Hexachloroethane	ND		83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Indeno[1,2,3-cd]pyrene	**98000**		83000	10000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Isophorone	ND		83000	18000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
N-Nitrosodi-n-propylamine	ND		83000	14000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
N-Nitrosodiphenylamine	ND		83000	67000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Naphthalene	**2900000**	**E**	83000	11000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Nitrobenzene	ND		83000	9300	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Pentachlorophenol	ND		160000	83000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Phenanthrene	**1200000**		83000	12000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Phenol	ND		83000	13000	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400
Pyrene	**770000**		83000	9800	ug/Kg	☼	09/19/17 13:14	09/21/17 17:50	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*09/19/17 13:14*	*09/21/17 17:50*	*400*
2-Fluorobiphenyl	*0*	*X*	*60 - 120*	*09/19/17 13:14*	*09/21/17 17:50*	*400*
2-Fluorophenol	*0*	*X*	*52 - 120*	*09/19/17 13:14*	*09/21/17 17:50*	*400*
Nitrobenzene-d5	*0*	*X*	*53 - 120*	*09/19/17 13:14*	*09/21/17 17:50*	*400*
p-Terphenyl-d14	*0*	*X*	*65 - 121*	*09/19/17 13:14*	*09/21/17 17:50*	*400*
Phenol-d5	*0*	*X*	*54 - 120*	*09/19/17 13:14*	*09/21/17 17:50*	*400*

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**160000**	**J**	410000	61000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
bis (2-chloroisopropyl) ether	ND		410000	83000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2,4,5-Trichlorophenol	ND		410000	110000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2,4,6-Trichlorophenol	ND		410000	83000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2,4-Dichlorophenol	ND		410000	44000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2,4-Dimethylphenol	ND		410000	100000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2,4-Dinitrophenol	ND		4000000	1900000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2,4-Dinitrotoluene	ND		410000	85000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2,6-Dinitrotoluene	ND		410000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2-Chloronaphthalene	ND		410000	68000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2-Chlorophenol	ND		410000	76000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2-Methylnaphthalene	**270000**	**J**	410000	83000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2-Methylphenol	ND		410000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2-Nitroaniline	ND		810000	61000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
2-Nitrophenol	ND		410000	120000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
3,3'-Dichlorobenzidine	ND		810000	490000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
3-Nitroaniline	ND		810000	110000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
4,6-Dinitro-2-methylphenol	ND		810000	410000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
4-Bromophenyl phenyl ether	ND		410000	59000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
4-Chloro-3-methylphenol	ND		410000	100000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
4-Chloroaniline	ND		410000	100000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
4-Chlorophenyl phenyl ether	ND		410000	51000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
4-Methylphenol	ND		810000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
4-Nitroaniline	ND		810000	220000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
4-Nitrophenol	ND		810000	290000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Acenaphthene	**270000**	**J**	410000	61000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Acenaphthylene	**79000**	**J**	410000	54000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Acetophenone	ND		410000	56000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Anthracene	**180000**	**J**	410000	100000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Atrazine	ND		410000	140000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Benzaldehyde	ND		410000	330000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Benzo[a]anthracene	ND		410000	41000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Benzo[a]pyrene	**190000**	**J**	410000	61000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Benzo[b]fluoranthene	**180000**	**J**	410000	66000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Benzo[g,h,i]perylene	**150000**	**J**	410000	44000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Benzo[k]fluoranthene	**67000**	**J**	410000	54000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Bis(2-chloroethoxy)methane	ND		410000	88000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Bis(2-chloroethyl)ether	ND		410000	54000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Bis(2-ethylhexyl) phthalate	ND		410000	140000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Butyl benzyl phthalate	ND		410000	68000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Caprolactam	ND		410000	120000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Carbazole	ND		410000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Chrysene	**170000**	**J**	410000	93000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Di-n-butyl phthalate	ND		410000	71000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Di-n-octyl phthalate	ND		410000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Dibenz(a,h)anthracene	ND		410000	73000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Dibenzofuran	ND		410000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Diethyl phthalate	ND		410000	54000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Dimethyl phthalate	ND		410000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Fluoranthene	**540000**		410000	44000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Fluorene	**180000**	**J**	410000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Hexachlorobenzene	ND		410000	56000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Hexachlorobutadiene	ND		410000	61000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000

Client Sample ID: WC-6 (11-16)
Date Collected: 09/14/17 09:15
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-4
Matrix: Solid
Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		410000	56000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Hexachloroethane	ND		410000	54000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Indeno[1,2,3-cd]pyrene	**100000**	**J**	410000	51000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Isophorone	ND		410000	88000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
N-Nitrosodi-n-propylamine	ND		410000	71000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
N-Nitrosodiphenylamine	ND		410000	340000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Naphthalene	**2700000**		410000	54000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Nitrobenzene	ND		410000	46000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Pentachlorophenol	ND		810000	410000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Phenanthrene	**1100000**		410000	61000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Phenol	ND		410000	63000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000
Pyrene	**750000**		410000	49000	ug/Kg	☼	09/19/17 13:14	09/21/17 18:16	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*09/19/17 13:14*	*09/21/17 18:16*	*2000*
2-Fluorobiphenyl	*0*	*X*	*60 - 120*	*09/19/17 13:14*	*09/21/17 18:16*	*2000*
2-Fluorophenol	*0*	*X*	*52 - 120*	*09/19/17 13:14*	*09/21/17 18:16*	*2000*
Nitrobenzene-d5	*0*	*X*	*53 - 120*	*09/19/17 13:14*	*09/21/17 18:16*	*2000*
p-Terphenyl-d14	*0*	*X*	*65 - 121*	*09/19/17 13:14*	*09/21/17 18:16*	*2000*
Phenol-d5	*0*	*X*	*54 - 120*	*09/19/17 13:14*	*09/21/17 18:16*	*2000*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	**200**	**B**	150	40	mg/Kg	☼	09/15/17 09:20	09/15/17 12:53	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*0*	*X*	*46 - 156*	*09/15/17 09:20*	*09/15/17 12:53*	*100*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7800**		200	60	mg/Kg	☼	09/19/17 13:27	09/22/17 01:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*780*	*X*	*48 - 125*	*09/19/17 13:27*	*09/22/17 01:19*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 22:00	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 22:00	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 22:00	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 22:00	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	09/15/17 11:20	09/15/17 22:00	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	09/15/17 11:20	09/15/17 22:00	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	09/15/17 11:20	09/15/17 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*60 - 154*	*09/15/17 11:20*	*09/15/17 22:00*	*1*
Tetrachloro-m-xylene	*102*		*60 - 154*	*09/15/17 11:20*	*09/15/17 22:00*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*09/15/17 11:20*	*09/15/17 22:00*	*1*
DCB Decachlorobiphenyl	*131*		*65 - 174*	*09/15/17 11:20*	*09/15/17 22:00*	*1*

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Client Sample ID: WC-6 (11-16)
Date Collected: 09/14/17 09:15
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-4
Matrix: Solid
Percent Solids: 81.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18300		12.5	5.5	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Sulfur	0.13		0.0058	0.0030	%	☼	09/18/17 18:01	09/20/17 02:38	1
Antimony	ND		18.8	0.50	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Arsenic	7.0		2.5	0.50	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Barium	161		0.63	0.14	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Beryllium	0.96		0.25	0.035	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Cadmium	0.18	J	0.25	0.038	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Calcium	3390	B	62.7	4.1	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Chromium	23.1	B	0.63	0.25	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Cobalt	13.1		0.63	0.063	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Copper	26.5		1.3	0.26	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Iron	26500	B	12.5	4.4	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Lead	34.6		1.3	0.30	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Magnesium	4740		25.1	1.2	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Manganese	974	B	0.25	0.040	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Nickel	30.5		6.3	0.29	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Potassium	3210		37.6	25.1	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Selenium	0.72	J	5.0	0.50	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Silver	ND		0.75	0.25	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Sodium	180		176	16.3	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Thallium	ND		7.5	0.38	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Vanadium	35.6		0.63	0.14	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1
Zinc	71.7		2.5	0.80	mg/Kg	☼	09/21/17 14:59	09/22/17 02:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.024	0.0098	mg/Kg	☼	09/18/17 16:10	09/18/17 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2	0.59	mg/Kg	☼	09/22/17 11:00	09/24/17 11:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	DNF		2.00	2.00	BTU/lb		09/27/17 07:33	09/27/17 12:56	1

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-378141/4	Lab Control Sample	99	106	95	108
MB 480-378141/8	Method Blank	100	104	93	108

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-124206-1	WC-5 (0.5-9)	102	97	105	97
480-124206-2	WC-5 (9-16)	111	97	118	93
480-124206-3	WC-6 (0.5-11)	99	102	106	94
LB 480-377280/1-A	Method Blank	104	99	115	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-124206-4	WC-6 (11-16)	111	99	98	108
LCS 480-378107/1-A	Lab Control Sample	113	101	99	106
LCSD 480-378107/2-A	Lab Control Sample Dup	108	104	98	105
MB 480-378107/3-A	Method Blank	99	105	100	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-124206-4	WC-6 (11-16)	112	69	64	73	79	63

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-124206-4 - DL	WC-6 (11-16)	0 X	0 X	0 X	0 X	0 X	0 X
480-124206-4 - DL2	WC-6 (11-16)	0 X	0 X	0 X	0 X	0 X	0 X
LCS 480-377596/2-A	Lab Control Sample	102	88	70	85	92	82
MB 480-377596/1-A	Method Blank	92	86	78	81	109	78

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(59-136)	(22-120)
LCS 480-377619/2-A	Lab Control Sample	67	89	55	94	90	40
LCSD 480-377619/3-A	Lab Control Sample Dup	67	90	50	90	87	36
MB 480-377619/1-A	Method Blank	47	89	53	84	88	35

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-124206-1	WC-5 (0.5-9)	59	88	47	80	34	88
480-124206-2	WC-5 (9-16)	66	86	45	80	35	91
480-124206-3	WC-6 (0.5-11)	53	66	34 X	57	26	81
LB 480-377279/1-D	Method Blank	60	85	47	78	33	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TFT2							
Lab Sample ID	Client Sample ID	(46-156)							
480-124206-4	WC-6 (11-16)	0 X							
LCS 480-377030/2-A	Lab Control Sample	74							
LCSD 480-377030/3-A	Lab Control Sample Dup	75							
MB 480-377030/1-A	Method Blank	78							

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		OTPH							
Lab Sample ID	Client Sample ID	(48-125)							
480-124206-4	WC-6 (11-16)	780 X							
LCS 480-377604/2-A	Lab Control Sample	84							
MB 480-377604/1-A	Method Blank	84							

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	DCB2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)				
LCS 480-377625/2-A	Lab Control Sample	69	67	100	79				
LCSD 480-377625/3-A	Lab Control Sample Dup	67	63	100	81				
MB 480-377625/1-A	Method Blank	57	62	91	77				

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	DCB2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)				
480-124206-1	WC-5 (0.5-9)	112	101	106	76				
480-124206-2	WC-5 (9-16)	48	45	74	50				
480-124206-3	WC-6 (0.5-11)	73	71	97	74				
LB 480-377279/1-F	Method Blank	81	75	96	70				

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(65-174)	(65-174)	(60-154)	(60-154)
480-124206-1	WC-5 (0.5-9)	105	112	104	106
480-124206-2	WC-5 (9-16)	100	130	104	121
480-124206-3	WC-6 (0.5-11)	116	122	104	101
480-124206-4	WC-6 (11-16)	98	131	89	102
LCS 480-377052/2-A	Lab Control Sample	156	158	145	144
MB 480-377052/1-A	Method Blank	127	140	125	127

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
LCS 480-377621/2-A	Lab Control Sample	85	102
LCSD 480-377621/3-A	Lab Control Sample Dup	51	60
MB 480-377621/1-A	Method Blank	37 X	48

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
480-124206-1	WC-5 (0.5-9)	22 X	33 X
480-124206-2	WC-5 (9-16)	27 X	35 X
480-124206-3	WC-6 (0.5-11)	27 X	25 X
LB 480-377279/1-E	Method Blank	24 X	29 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-378141/8
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/22/17 01:58	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/22/17 01:58	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/22/17 01:58	1
Benzene	ND		0.0010	0.00041	mg/L			09/22/17 01:58	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/22/17 01:58	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/22/17 01:58	1
Chloroform	ND		0.0010	0.00034	mg/L			09/22/17 01:58	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/22/17 01:58	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/22/17 01:58	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/22/17 01:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*09/22/17 01:58*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/22/17 01:58*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/22/17 01:58*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*09/22/17 01:58*	*1*

Lab Sample ID: LCS 480-378141/4
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0236		mg/L		94	66 - 127
1,2-Dichloroethane	0.0250	0.0254		mg/L		102	75 - 120
2-Butanone (MEK)	0.125	0.0905		mg/L		72	57 - 140
Benzene	0.0250	0.0257		mg/L		103	71 - 124
Carbon tetrachloride	0.0250	0.0311		mg/L		124	72 - 134
Chlorobenzene	0.0250	0.0250		mg/L		100	80 - 120
Chloroform	0.0250	0.0277		mg/L		111	73 - 127
Tetrachloroethene	0.0250	0.0277		mg/L		111	74 - 122
Trichloroethene	0.0250	0.0289		mg/L		116	74 - 123
Vinyl chloride	0.0250	0.0200		mg/L		80	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Lab Sample ID: LB 480-377280/1-A
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			09/22/17 02:25	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			09/22/17 02:25	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			09/22/17 02:25	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-377280/1-A
Matrix: Solid
Analysis Batch: 378141

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			09/22/17 02:25	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			09/22/17 02:25	10
Chlorobenzene	ND		0.010	0.0075	mg/L			09/22/17 02:25	10
Chloroform	ND		0.010	0.0034	mg/L			09/22/17 02:25	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			09/22/17 02:25	10
Trichloroethene	ND		0.010	0.0046	mg/L			09/22/17 02:25	10
Vinyl chloride	ND		0.010	0.0090	mg/L			09/22/17 02:25	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/22/17 02:25*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/22/17 02:25*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/22/17 02:25*	*10*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*09/22/17 02:25*	*10*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-378107/3-A
Matrix: Solid
Analysis Batch: 378437

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,1-Dichloroethane	ND		100	31	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,1-Dichloroethene	ND		100	35	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,2-Dichloroethane	ND		100	41	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
2-Butanone (MEK)	ND		500	300	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
2-Hexanone	ND		500	210	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Acetone	ND		500	410	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Benzene	ND		100	19	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Bromoform	ND		100	50	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Bromomethane	ND		100	22	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Carbon disulfide	ND		100	46	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Carbon tetrachloride	ND		100	26	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Chlorobenzene	ND		100	13	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Dibromochloromethane	ND		100	48	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Chloroethane	ND		100	21	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Chloroform	ND		100	69	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Chloromethane	ND		100	24	ug/Kg		09/16/17 12:30	09/24/17 12:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-378107/3-A
Matrix: Solid
Analysis Batch: 378437

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Cyclohexane	ND		100	22	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Bromodichloromethane	ND		100	20	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Ethylbenzene	ND		100	29	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
1,2-Dibromoethane	ND		100	18	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Isopropylbenzene	ND		100	15	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Methyl acetate	ND		500	48	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Methylcyclohexane	ND		100	47	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Methylene Chloride	ND		100	20	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Tetrachloroethene	79.4	J	100	13	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Toluene	ND		100	27	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Trichloroethene	ND		100	28	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Trichlorofluoromethane	ND		100	47	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Vinyl chloride	ND		100	34	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Xylenes, Total	ND		200	55	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		09/16/17 12:30	09/24/17 12:35	1
Styrene	ND		100	24	ug/Kg		09/16/17 12:30	09/24/17 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*53 - 146*	*09/16/17 12:30*	*09/24/17 12:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*09/16/17 12:30*	*09/24/17 12:35*	*1*
Toluene-d8 (Surr)	*100*		*50 - 149*	*09/16/17 12:30*	*09/24/17 12:35*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*09/16/17 12:30*	*09/24/17 12:35*	*1*

Lab Sample ID: LCS 480-378107/1-A
Matrix: Solid
Analysis Batch: 378437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	3080		ug/Kg		123	68 - 130
1,1,2,2-Tetrachloroethane	2500	2350		ug/Kg		94	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2750		ug/Kg		110	10 - 179
1,1,2-Trichloroethane	2500	2410		ug/Kg		96	80 - 120
1,1-Dichloroethane	2500	2670		ug/Kg		107	78 - 121
1,1-Dichloroethene	2500	2610		ug/Kg		104	48 - 133
1,2,4-Trichlorobenzene	2500	2550		ug/Kg		102	70 - 140
1,2-Dibromo-3-Chloropropane	2500	2200		ug/Kg		88	56 - 122
1,2-Dichlorobenzene	2500	2600		ug/Kg		104	78 - 125
1,2-Dichloroethane	2500	2840		ug/Kg		114	74 - 127
1,2-Dichloropropane	2500	2630		ug/Kg		105	80 - 120
1,3-Dichlorobenzene	2500	2680		ug/Kg		107	80 - 120
1,4-Dichlorobenzene	2500	2680		ug/Kg		107	80 - 120
2-Butanone (MEK)	12500	10500		ug/Kg		84	54 - 149

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-378107/1-A
Matrix: Solid
Analysis Batch: 378437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	12500	10000		ug/Kg		80	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	10400		ug/Kg		83	74 - 120
Acetone	12500	9730		ug/Kg		78	47 - 141
Benzene	2500	2680		ug/Kg		107	77 - 125
Bromoform	2500	2630		ug/Kg		105	48 - 125
Bromomethane	2500	2410		ug/Kg		96	39 - 149
Carbon disulfide	2500	2470		ug/Kg		99	40 - 136
Carbon tetrachloride	2500	3040		ug/Kg		122	54 - 135
Chlorobenzene	2500	2630		ug/Kg		105	76 - 126
Dibromochloromethane	2500	2540		ug/Kg		102	64 - 120
Chloroethane	2500	2220		ug/Kg		89	23 - 150
Chloroform	2500	2830		ug/Kg		113	78 - 120
Chloromethane	2500	2440		ug/Kg		98	61 - 124
cis-1,2-Dichloroethene	2500	2730		ug/Kg		109	79 - 124
Cyclohexane	2500	2590		ug/Kg		103	49 - 129
Bromodichloromethane	2500	2790		ug/Kg		112	71 - 121
Dichlorodifluoromethane	2500	2320		ug/Kg		93	10 - 150
Ethylbenzene	2500	2680		ug/Kg		107	78 - 124
1,2-Dibromoethane	2500	2470		ug/Kg		99	80 - 120
Isopropylbenzene	2500	2780		ug/Kg		111	76 - 120
Methyl acetate	5000	5840		ug/Kg		117	71 - 123
Methyl tert-butyl ether	2500	2740		ug/Kg		110	67 - 137
Methylcyclohexane	2500	3090		ug/Kg		124	50 - 130
Methylene Chloride	2500	2520		ug/Kg		101	75 - 118
Tetrachloroethene	2500	2890		ug/Kg		116	73 - 133
Toluene	2500	2660		ug/Kg		106	75 - 124
trans-1,2-Dichloroethene	2500	2620		ug/Kg		105	74 - 129
trans-1,3-Dichloropropene	2500	2700		ug/Kg		108	73 - 120
Trichloroethene	2500	2850		ug/Kg		114	75 - 131
Trichlorofluoromethane	2500	2770		ug/Kg		111	29 - 158
Vinyl chloride	2500	2680		ug/Kg		107	59 - 124
cis-1,3-Dichloropropene	2500	2800		ug/Kg		112	75 - 121
Styrene	2500	2600		ug/Kg		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*53 - 146*
4-Bromofluorobenzene (Surr)	*101*		*49 - 148*
Toluene-d8 (Surr)	*99*		*50 - 149*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Lab Sample ID: LCSD 480-378107/2-A
Matrix: Solid
Analysis Batch: 378437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 378107

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	2500	2850		ug/Kg		114	68 - 130	8	20
1,1,2,2-Tetrachloroethane	2500	2210		ug/Kg		88	73 - 120	6	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-378107/2-A
Matrix: Solid
Analysis Batch: 378437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 378107

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane			2500	2420		ug/Kg		97	10 - 179	13	20
1,1,2-Trichloroethane			2500	2620		ug/Kg		105	80 - 120	9	20
1,1-Dichloroethane			2500	2540		ug/Kg		102	78 - 121	5	20
1,1-Dichloroethene			2500	2360		ug/Kg		94	48 - 133	10	20
1,2,4-Trichlorobenzene			2500	2500		ug/Kg		100	70 - 140	2	20
1,2-Dibromo-3-Chloropropane			2500	2400		ug/Kg		96	56 - 122	8	20
1,2-Dichlorobenzene			2500	2550		ug/Kg		102	78 - 125	2	20
1,2-Dichloroethane			2500	2730		ug/Kg		109	74 - 127	4	20
1,2-Dichloropropane			2500	2550		ug/Kg		102	80 - 120	3	20
1,3-Dichlorobenzene			2500	2630		ug/Kg		105	80 - 120	2	20
1,4-Dichlorobenzene			2500	2580		ug/Kg		103	80 - 120	4	20
2-Butanone (MEK)			12500	10500		ug/Kg		84	54 - 149	0	20
2-Hexanone			12500	10200		ug/Kg		81	59 - 127	2	20
4-Methyl-2-pentanone (MIBK)			12500	10900		ug/Kg		87	74 - 120	4	20
Acetone			12500	9240		ug/Kg		74	47 - 141	5	20
Benzene			2500	2620		ug/Kg		105	77 - 125	2	20
Bromoform			2500	2590		ug/Kg		103	48 - 125	2	20
Bromomethane			2500	2410		ug/Kg		96	39 - 149	0	20
Carbon disulfide			2500	2320		ug/Kg		93	40 - 136	6	20
Carbon tetrachloride			2500	2860		ug/Kg		114	54 - 135	6	20
Chlorobenzene			2500	2560		ug/Kg		102	76 - 126	3	20
Dibromochloromethane			2500	2550		ug/Kg		102	64 - 120	0	20
Chloroethane			2500	2000		ug/Kg		80	23 - 150	10	20
Chloroform			2500	2730		ug/Kg		109	78 - 120	4	20
Chloromethane			2500	2270		ug/Kg		91	61 - 124	7	20
cis-1,2-Dichloroethene			2500	2670		ug/Kg		107	79 - 124	2	20
Cyclohexane			2500	2450		ug/Kg		98	49 - 129	6	20
Bromodichloromethane			2500	2590		ug/Kg		104	71 - 121	7	20
Dichlorodifluoromethane			2500	2070		ug/Kg		83	10 - 150	11	20
Ethylbenzene			2500	2660		ug/Kg		106	78 - 124	1	20
1,2-Dibromoethane			2500	2480		ug/Kg		99	80 - 120	0	20
Isopropylbenzene			2500	2740		ug/Kg		110	76 - 120	1	20
Methyl acetate			5000	5550		ug/Kg		111	71 - 123	5	20
Methyl tert-butyl ether			2500	2570		ug/Kg		103	67 - 137	6	20
Methylcyclohexane			2500	2800		ug/Kg		112	50 - 130	10	20
Methylene Chloride			2500	2430		ug/Kg		97	75 - 118	4	20
Tetrachloroethene			2500	2690		ug/Kg		108	73 - 133	7	20
Toluene			2500	2700		ug/Kg		108	75 - 124	1	20
trans-1,2-Dichloroethene			2500	2520		ug/Kg		101	74 - 129	4	20
trans-1,3-Dichloropropene			2500	2820		ug/Kg		113	73 - 120	4	20
Trichloroethene			2500	2870		ug/Kg		115	75 - 131	1	20
Trichlorofluoromethane			2500	2680		ug/Kg		107	29 - 158	3	20
Vinyl chloride			2500	2460		ug/Kg		98	59 - 124	8	20
cis-1,3-Dichloropropene			2500	2720		ug/Kg		109	75 - 121	3	20
Styrene			2500	2600		ug/Kg		104	80 - 120	0	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-378107/2-A
Matrix: Solid
Analysis Batch: 378437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 378107

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*53 - 146*
4-Bromofluorobenzene (Surr)	*104*		*49 - 148*
Toluene-d8 (Surr)	*98*		*50 - 149*
Dibromofluoromethane (Surr)	*105*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-377596/1-A
Matrix: Solid
Analysis Batch: 377861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2-Chlorophenol	ND		170	31	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2-Methylphenol	ND		170	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2-Nitroaniline	ND		330	25	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
2-Nitrophenol	ND		170	47	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
3-Nitroaniline	ND		330	46	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
4-Chloroaniline	ND		170	41	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
4-Methylphenol	ND		330	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
4-Nitroaniline	ND		330	88	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
4-Nitrophenol	ND		330	120	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Acenaphthene	ND		170	25	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Acenaphthylene	ND		170	22	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Acetophenone	ND		170	23	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Anthracene	ND		170	41	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Atrazine	ND		170	58	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Benzaldehyde	ND		170	130	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/19/17 13:14	09/20/17 17:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-377596/1-A
Matrix: Solid
Analysis Batch: 377861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Caprolactam	ND		170	50	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Carbazole	ND		170	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Chrysene	ND		170	37	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Dibenzofuran	ND		170	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Diethyl phthalate	ND		170	22	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Fluoranthene	ND		170	18	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Fluorene	ND		170	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Hexachloroethane	ND		170	22	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Isophorone	ND		170	35	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Naphthalene	ND		170	22	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Nitrobenzene	ND		170	19	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Pentachlorophenol	ND		330	170	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Phenanthrene	ND		170	25	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Phenol	ND		170	26	ug/Kg		09/19/17 13:14	09/20/17 17:40	1
Pyrene	ND		170	20	ug/Kg		09/19/17 13:14	09/20/17 17:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*54 - 120*	*09/19/17 13:14*	*09/20/17 17:40*	*1*
2-Fluorobiphenyl	*86*		*60 - 120*	*09/19/17 13:14*	*09/20/17 17:40*	*1*
2-Fluorophenol	*78*		*52 - 120*	*09/19/17 13:14*	*09/20/17 17:40*	*1*
Nitrobenzene-d5	*81*		*53 - 120*	*09/19/17 13:14*	*09/20/17 17:40*	*1*
p-Terphenyl-d14	*109*		*65 - 121*	*09/19/17 13:14*	*09/20/17 17:40*	*1*
Phenol-d5	*78*		*54 - 120*	*09/19/17 13:14*	*09/20/17 17:40*	*1*

Lab Sample ID: LCS 480-377596/2-A
Matrix: Solid
Analysis Batch: 377861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1660	1560		ug/Kg		94	59 - 120
bis (2-chloroisopropyl) ether	1660	1020		ug/Kg		61	44 - 120
2,4,5-Trichlorophenol	1660	1560		ug/Kg		94	59 - 126
2,4,6-Trichlorophenol	1660	1530		ug/Kg		93	59 - 123
2,4-Dichlorophenol	1660	1600		ug/Kg		97	61 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-377596/2-A
Matrix: Solid
Analysis Batch: 377861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	1660	1600		ug/Kg		97	59 - 120
2,4-Dinitrophenol	3310	3220		ug/Kg		97	41 - 146
2,4-Dinitrotoluene	1660	1670		ug/Kg		101	63 - 120
2,6-Dinitrotoluene	1660	1570		ug/Kg		95	66 - 120
2-Chloronaphthalene	1660	1500		ug/Kg		91	57 - 120
2-Chlorophenol	1660	1340		ug/Kg		81	53 - 120
2-Methylnaphthalene	1660	1490		ug/Kg		90	59 - 120
2-Methylphenol	1660	1400		ug/Kg		85	54 - 120
2-Nitroaniline	1660	1590		ug/Kg		96	61 - 120
2-Nitrophenol	1660	1450		ug/Kg		88	56 - 120
3,3'-Dichlorobenzidine	3310	3290		ug/Kg		99	54 - 120
3-Nitroaniline	1660	1460		ug/Kg		88	48 - 120
4,6-Dinitro-2-methylphenol	3310	3400		ug/Kg		103	49 - 122
4-Bromophenyl phenyl ether	1660	1670		ug/Kg		101	58 - 120
4-Chloro-3-methylphenol	1660	1660		ug/Kg		101	61 - 120
4-Chloroaniline	1660	1320		ug/Kg		80	38 - 120
4-Chlorophenyl phenyl ether	1660	1610		ug/Kg		97	63 - 124
4-Methylphenol	1660	1410		ug/Kg		85	55 - 120
4-Nitroaniline	1660	1580		ug/Kg		95	56 - 120
4-Nitrophenol	3310	3500		ug/Kg		106	43 - 147
Acenaphthene	1660	1540		ug/Kg		93	62 - 120
Acenaphthylene	1660	1500		ug/Kg		90	58 - 121
Acetophenone	1660	1390		ug/Kg		84	54 - 120
Anthracene	1660	1590		ug/Kg		96	62 - 120
Atrazine	3310	3630		ug/Kg		109	60 - 127
Benzaldehyde	3310	1570		ug/Kg		47	10 - 150
Benzo[a]anthracene	1660	1630		ug/Kg		99	65 - 120
Benzo[a]pyrene	1660	1670		ug/Kg		101	64 - 120
Benzo[b]fluoranthene	1660	1670		ug/Kg		101	64 - 120
Benzo[g,h,i]perylene	1660	1840		ug/Kg		111	45 - 145
Benzo[k]fluoranthene	1660	1640		ug/Kg		99	65 - 120
Bis(2-chloroethoxy)methane	1660	1400		ug/Kg		84	55 - 120
Bis(2-chloroethyl)ether	1660	1170		ug/Kg		70	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1730		ug/Kg		104	61 - 133
Butyl benzyl phthalate	1660	1700		ug/Kg		103	61 - 129
Caprolactam	3310	2980		ug/Kg		90	47 - 120
Carbazole	1660	1580		ug/Kg		96	65 - 120
Chrysene	1660	1620		ug/Kg		98	64 - 120
Di-n-butyl phthalate	1660	1650		ug/Kg		100	58 - 130
Di-n-octyl phthalate	1660	1730		ug/Kg		105	57 - 133
Dibenz(a,h)anthracene	1660	1760		ug/Kg		107	54 - 132
Dibenzofuran	1660	1540		ug/Kg		93	63 - 120
Diethyl phthalate	1660	1680		ug/Kg		102	66 - 120
Dimethyl phthalate	1660	1650		ug/Kg		100	65 - 124
Fluoranthene	1660	1550		ug/Kg		93	62 - 120
Fluorene	1660	1550		ug/Kg		94	63 - 120
Hexachlorobenzene	1660	1690		ug/Kg		102	60 - 120
Hexachlorobutadiene	1660	1500		ug/Kg		90	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-377596/2-A
Matrix: Solid
Analysis Batch: 377861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	1660	1360		ug/Kg		82	47 - 120
Hexachloroethane	1660	1180		ug/Kg		71	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1750		ug/Kg		105	56 - 134
Isophorone	1660	1450		ug/Kg		88	56 - 120
N-Nitrosodi-n-propylamine	1660	1320		ug/Kg		80	52 - 120
Naphthalene	1660	1390		ug/Kg		84	55 - 120
Nitrobenzene	1660	1340		ug/Kg		81	54 - 120
Pentachlorophenol	3310	2990		ug/Kg		90	51 - 120
Phenanthrene	1660	1620		ug/Kg		98	60 - 120
Phenol	1660	1350		ug/Kg		82	53 - 120
Pyrene	1660	1630		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*54 - 120*
2-Fluorobiphenyl	*88*		*60 - 120*
2-Fluorophenol	*70*		*52 - 120*
Nitrobenzene-d5	*85*		*53 - 120*
p-Terphenyl-d14	*92*		*65 - 121*
Phenol-d5	*82*		*54 - 120*

Lab Sample ID: MB 480-377619/1-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		09/19/17 14:15	09/20/17 22:34	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		09/19/17 14:15	09/20/17 22:34	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
Pyridine	ND		0.0063	0.00010	mg/L		09/19/17 14:15	09/20/17 22:34	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		09/19/17 14:15	09/20/17 22:34	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		09/19/17 14:15	09/20/17 22:34	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		09/19/17 14:15	09/20/17 22:34	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		09/19/17 14:15	09/20/17 22:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*47*		*41 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
2-Fluorobiphenyl	*89*		*48 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
2-Fluorophenol	*53*		*35 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
Nitrobenzene-d5	*84*		*46 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*09/19/17 14:15*	*09/20/17 22:34*	*1*
Phenol-d5	*35*		*22 - 120*	*09/19/17 14:15*	*09/20/17 22:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-377619/2-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377619

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			0.0500	0.0321		mg/L		64	51 - 120		
2,4,5-Trichlorophenol			0.0500	0.0449		mg/L		90	65 - 126		
2,4,6-Trichlorophenol			0.0500	0.0455		mg/L		91	64 - 120		
2,4-Dinitrotoluene			0.0500	0.0460		mg/L		92	69 - 120		
3-Methylphenol			0.0500	0.0394		mg/L		79	39 - 120		
2-Methylphenol			0.0500	0.0400		mg/L		80	39 - 120		
Pyridine			0.100	0.0538		mg/L		54	10 - 120		
4-Methylphenol			0.0500	0.0394		mg/L		79	29 - 131		
Hexachlorobenzene			0.0500	0.0387		mg/L		77	61 - 120		
Hexachlorobutadiene			0.0500	0.0327		mg/L		65	35 - 120		
Hexachloroethane			0.0500	0.0293		mg/L		59	43 - 120		
Nitrobenzene			0.0500	0.0511		mg/L		102	53 - 123		
Pentachlorophenol			0.100	0.0737		mg/L		74	29 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*67*		*41 - 120*
2-Fluorobiphenyl	*89*		*48 - 120*
2-Fluorophenol	*55*		*35 - 120*
Nitrobenzene-d5	*94*		*46 - 120*
p-Terphenyl-d14	*90*		*59 - 136*
Phenol-d5	*40*		*22 - 120*

Lab Sample ID: LCSD 480-377619/3-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377619

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0296		mg/L		59	51 - 120	8	36
2,4,5-Trichlorophenol			0.0500	0.0465		mg/L		93	65 - 126	4	18
2,4,6-Trichlorophenol			0.0500	0.0456		mg/L		91	64 - 120	0	19
2,4-Dinitrotoluene			0.0500	0.0466		mg/L		93	69 - 120	1	20
3-Methylphenol			0.0500	0.0361		mg/L		72	39 - 120	9	30
2-Methylphenol			0.0500	0.0367		mg/L		73	39 - 120	8	27
Pyridine			0.100	0.0506		mg/L		51	10 - 120	6	49
4-Methylphenol			0.0500	0.0361		mg/L		72	29 - 131	9	24
Hexachlorobenzene			0.0500	0.0366		mg/L		73	61 - 120	6	15
Hexachlorobutadiene			0.0500	0.0290		mg/L		58	35 - 120	12	44
Hexachloroethane			0.0500	0.0259		mg/L		52	43 - 120	12	46
Nitrobenzene			0.0500	0.0472		mg/L		94	53 - 123	8	24
Pentachlorophenol			0.100	0.0738		mg/L		74	29 - 136	0	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*67*		*41 - 120*
2-Fluorobiphenyl	*90*		*48 - 120*
2-Fluorophenol	*50*		*35 - 120*
Nitrobenzene-d5	*90*		*46 - 120*
p-Terphenyl-d14	*87*		*59 - 136*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-377619/3-A
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377619

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5	*36*		*22 - 120*

Lab Sample ID: LB 480-377279/1-D
Matrix: Solid
Analysis Batch: 377832

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377619

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/19/17 14:15	09/20/17 23:54	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/19/17 14:15	09/20/17 23:54	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/19/17 14:15	09/20/17 23:54	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/19/17 14:15	09/20/17 23:54	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/19/17 14:15	09/20/17 23:54	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/19/17 14:15	09/20/17 23:54	1
Pyridine	ND		0.025	0.00041	mg/L		09/19/17 14:15	09/20/17 23:54	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/19/17 14:15	09/20/17 23:54	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/19/17 14:15	09/20/17 23:54	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/19/17 14:15	09/20/17 23:54	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/19/17 14:15	09/20/17 23:54	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*41 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
2-Fluorophenol	*47*		*35 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
Nitrobenzene-d5	*78*		*46 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*09/19/17 14:15*	*09/20/17 23:54*	*1*
Phenol-d5	*33*		*22 - 120*	*09/19/17 14:15*	*09/20/17 23:54*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 480-377030/1-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.409	J	1.2	0.33	mg/Kg		09/15/17 09:20	09/15/17 10:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*46 - 156*	*09/15/17 09:20*	*09/15/17 10:04*	*1*

Lab Sample ID: LCS 480-377030/2-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C6-C10)	9.58	9.49		mg/Kg		99	64 - 129

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 480-377030/2-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377030

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	*74*		*46 - 156*

Lab Sample ID: LCSD 480-377030/3-A
Matrix: Solid
Analysis Batch: 377014

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)			9.92	10.4		mg/Kg		105	64 - 129	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	*75*		*46 - 156*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-377604/1-A
Matrix: Solid
Analysis Batch: 377759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		09/19/17 13:27	09/20/17 13:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*84*		*48 - 125*	*09/19/17 13:27*	*09/20/17 13:09*	*1*

Lab Sample ID: LCS 480-377604/2-A
Matrix: Solid
Analysis Batch: 377759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			48.9	42.8		mg/Kg		87	63 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	*84*		*48 - 125*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-377625/1-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		09/19/17 14:29	09/20/17 11:56	1
Endrin	ND		0.000050	0.0000035	mg/L		09/19/17 14:29	09/20/17 11:56	1
gamma-BHC (Lindane)	ND		0.000050	0.0000015	mg/L		09/19/17 14:29	09/20/17 11:56	1
Heptachlor	ND		0.000050	0.0000021	mg/L		09/19/17 14:29	09/20/17 11:56	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		09/19/17 14:29	09/20/17 11:56	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-377625/1-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.000050	0.0000035	mg/L		09/19/17 14:29	09/20/17 11:56	1
Toxaphene	ND		0.00050	0.000030	mg/L		09/19/17 14:29	09/20/17 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*20 - 120*	*09/19/17 14:29*	*09/20/17 11:56*	*1*
DCB Decachlorobiphenyl	*62*		*20 - 120*	*09/19/17 14:29*	*09/20/17 11:56*	*1*
Tetrachloro-m-xylene	*91*		*44 - 120*	*09/19/17 14:29*	*09/20/17 11:56*	*1*
Tetrachloro-m-xylene	*77*		*44 - 120*	*09/19/17 14:29*	*09/20/17 11:56*	*1*

Lab Sample ID: LCS 480-377625/2-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000558		mg/L		112	65 - 135
gamma-BHC (Lindane)	0.000500	0.000466		mg/L		93	56 - 120
Heptachlor	0.000500	0.000477		mg/L		95	58 - 120
Heptachlor epoxide	0.000500	0.000530		mg/L		106	65 - 125
Methoxychlor	0.000500	0.000536		mg/L		107	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*20 - 120*
DCB Decachlorobiphenyl	*67*		*20 - 120*
Tetrachloro-m-xylene	*100*		*44 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*

Lab Sample ID: LCSD 480-377625/3-A
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000553		mg/L		111	65 - 135	1	24
gamma-BHC (Lindane)	0.000500	0.000469		mg/L		94	56 - 120	1	24
Heptachlor	0.000500	0.000484		mg/L		97	58 - 120	2	25
Heptachlor epoxide	0.000500	0.000526		mg/L		105	65 - 125	1	23
Methoxychlor	0.000500	0.000547		mg/L		109	50 - 150	2	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*20 - 120*
DCB Decachlorobiphenyl	*63*		*20 - 120*
Tetrachloro-m-xylene	*100*		*44 - 120*
Tetrachloro-m-xylene	*81*		*44 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 480-377279/1-F
Matrix: Solid
Analysis Batch: 377761

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377625

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/19/17 14:29	09/20/17 12:55	1
Endrin	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 12:55	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/19/17 14:29	09/20/17 12:55	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/19/17 14:29	09/20/17 12:55	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/19/17 14:29	09/20/17 12:55	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/19/17 14:29	09/20/17 12:55	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/19/17 14:29	09/20/17 12:55	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*20 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
DCB Decachlorobiphenyl	*75*		*20 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
Tetrachloro-m-xylene	*96*		*44 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*
Tetrachloro-m-xylene	*70*		*44 - 120*	*09/19/17 14:29*	*09/20/17 12:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-377052/1-A
Matrix: Solid
Analysis Batch: 377115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1221	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1232	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1242	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1248	ND		0.21	0.041	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1254	ND		0.21	0.099	mg/Kg		09/15/17 11:20	09/15/17 17:29	1
PCB-1260	ND		0.21	0.099	mg/Kg		09/15/17 11:20	09/15/17 17:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*65 - 174*	*09/15/17 11:20*	*09/15/17 17:29*	*1*
DCB Decachlorobiphenyl	*140*		*65 - 174*	*09/15/17 11:20*	*09/15/17 17:29*	*1*
Tetrachloro-m-xylene	*125*		*60 - 154*	*09/15/17 11:20*	*09/15/17 17:29*	*1*
Tetrachloro-m-xylene	*127*		*60 - 154*	*09/15/17 11:20*	*09/15/17 17:29*	*1*

Lab Sample ID: LCS 480-377052/2-A
Matrix: Solid
Analysis Batch: 377115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377052

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.46	3.88		mg/Kg		158	51 - 185		
PCB-1260			2.46	3.27		mg/Kg		133	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*156*		*65 - 174*
DCB Decachlorobiphenyl	*158*		*65 - 174*
Tetrachloro-m-xylene	*145*		*60 - 154*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-377052/2-A
Matrix: Solid
Analysis Batch: 377115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377052

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	144		60 - 154

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-377621/1-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		09/19/17 14:21	09/22/17 13:51	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		09/19/17 14:21	09/22/17 13:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	37	X	48 - 132	09/19/17 14:21	09/22/17 13:51	1
2,4-Dichlorophenylacetic acid	48		48 - 132	09/19/17 14:21	09/22/17 13:51	1

Lab Sample ID: LCS 480-377621/2-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.00200	0.00183		mg/L		92	36 - 150
Silvex (2,4,5-TP)	0.00200	0.00184		mg/L		92	49 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	85		48 - 132
2,4-Dichlorophenylacetic acid	102		48 - 132

Lab Sample ID: LCSD 480-377621/3-A
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	0.00200	0.00178		mg/L		89	36 - 150	3	50
Silvex (2,4,5-TP)	0.00200	0.00167		mg/L		83	49 - 150	10	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	51		48 - 132
2,4-Dichlorophenylacetic acid	60		48 - 132

Lab Sample ID: LB 480-377279/1-E
Matrix: Solid
Analysis Batch: 378208

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377621

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		09/19/17 14:21	09/22/17 15:20	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/19/17 14:21	09/22/17 15:20	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	24	X	48 - 132	09/19/17 14:21	09/22/17 15:20	1
2,4-Dichlorophenylacetic acid	29	X	48 - 132	09/19/17 14:21	09/22/17 15:20	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-377539/2-A
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:23	1
Barium	ND		1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:23	1
Cadmium	ND		0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:23	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:23	1
Lead	ND		0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:23	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:23	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:23	1

Lab Sample ID: LCS 480-377539/3-A
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.997		mg/L		100	80 - 120
Barium	1.00	0.950	J	mg/L		95	80 - 120
Cadmium	1.00	0.985		mg/L		98	80 - 120
Chromium	1.00	0.916		mg/L		92	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Silver	1.00	0.960		mg/L		96	80 - 120

Lab Sample ID: MB 480-377818/1-A
Matrix: Solid
Analysis Batch: 378207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.2	4.5	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Antimony	ND		15.2	0.41	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Arsenic	ND		2.0	0.41	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Barium	ND		0.51	0.11	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Beryllium	ND		0.20	0.028	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Cadmium	ND		0.20	0.030	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Calcium	6.24	J	50.8	3.4	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Chromium	0.371	J	0.51	0.20	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Cobalt	ND		0.51	0.051	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Copper	ND		1.0	0.21	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Iron	4.04	J	10.2	3.6	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Lead	ND		1.0	0.24	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Magnesium	ND		20.3	0.94	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Manganese	0.113	J	0.20	0.032	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Nickel	ND		5.1	0.23	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Potassium	ND		30.5	20.3	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Selenium	ND		4.1	0.41	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Silver	ND		0.61	0.20	mg/Kg		09/21/17 14:59	09/22/17 01:39	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-377818/1-A
Matrix: Solid
Analysis Batch: 378207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		142	13.2	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Thallium	ND		6.1	0.30	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Vanadium	ND		0.51	0.11	mg/Kg		09/21/17 14:59	09/22/17 01:39	1
Zinc	ND		2.0	0.65	mg/Kg		09/21/17 14:59	09/22/17 01:39	1

Lab Sample ID: LCSSRM 480-377818/2-A
Matrix: Solid
Analysis Batch: 378207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377818

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	8446		mg/Kg		104.4	39.6 - 160.7
Antimony	99.3	64.98		mg/Kg		65.4	21.6 - 256.8
Arsenic	100	88.54		mg/Kg		88.5	69.6 - 131.0
Barium	217	192.0		mg/Kg		88.5	73.7 - 128.1
Beryllium	147	130.7		mg/Kg		88.9	75.5 - 125.9
Cadmium	83.7	72.95		mg/Kg		87.2	73.2 - 131.4
Calcium	6010	5272		mg/Kg		87.7	73.7 - 126.3
Chromium	107	94.15		mg/Kg		88.0	69.4 - 134.6
Cobalt	123	127.2		mg/Kg		103.4	74.3 - 130.1
Copper	166	152.2		mg/Kg		91.7	75.3 - 128.3
Iron	14600	14550		mg/Kg		99.6	36.1 - 163.7
Lead	88.4	88.17		mg/Kg		99.7	69.9 - 130.1
Magnesium	2930	2747		mg/Kg		93.8	65.9 - 134.5
Manganese	311	281.4		mg/Kg		90.5	74.9 - 125.4
Nickel	49.8	52.20		mg/Kg		104.8	69.1 - 135.1
Potassium	2620	2729		mg/Kg		104.1	61.1 - 138.9
Selenium	87.7	76.43		mg/Kg		87.1	64.1 - 135.7
Silver	41.4	33.96		mg/Kg		82.0	65.9 - 133.8
Sodium	252	249.1		mg/Kg		98.8	32.9 - 167.5
Thallium	58.1	58.52		mg/Kg		100.7	63.9 - 136.3
Vanadium	140	128.0		mg/Kg		91.4	69.9 - 129.3
Zinc	145	126.7		mg/Kg		87.4	67.7 - 132.4

Lab Sample ID: MB 490-460828/1-A
Matrix: Solid
Analysis Batch: 461202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	ND		0.0049	0.0025	%		09/18/17 18:01	09/20/17 00:31	1

Lab Sample ID: LCS 490-460828/2-A
Matrix: Solid
Analysis Batch: 461202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460828

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfur	0.0973	0.0958		%		98	80 - 120

Lab Sample ID: LB 480-377279/1-B
Matrix: Solid
Analysis Batch: 377742

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377539

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00805	J	0.015	0.0056	mg/L		09/19/17 10:30	09/20/17 00:19	1
Barium	ND		1.0	0.10	mg/L		09/19/17 10:30	09/20/17 00:19	1
Cadmium	ND		0.0020	0.00050	mg/L		09/19/17 10:30	09/20/17 00:19	1
Chromium	ND		0.020	0.010	mg/L		09/19/17 10:30	09/20/17 00:19	1
Lead	0.0620		0.020	0.0030	mg/L		09/19/17 10:30	09/20/17 00:19	1
Selenium	ND		0.025	0.0087	mg/L		09/19/17 10:30	09/20/17 00:19	1
Silver	ND		0.0060	0.0017	mg/L		09/19/17 10:30	09/20/17 00:19	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-377563/2-A
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:26	1

Lab Sample ID: LCS 480-377563/3-A
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00618		mg/L		93	80 - 120

Lab Sample ID: LB 480-377279/1-C
Matrix: Solid
Analysis Batch: 377824

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 377563

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/19/17 12:00	09/19/17 16:24	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-377380/1-A
Matrix: Solid
Analysis Batch: 377588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377380

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0081	mg/Kg		09/18/17 16:10	09/18/17 17:47	1

Lab Sample ID: LCDSRM 480-377380/3-A ^10
Matrix: Solid
Analysis Batch: 377588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377380

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.6	11.45		mg/Kg		90.9	44.4 - 128.6	5	20

Lab Sample ID: LCSSRM 480-377380/2-A ^10
Matrix: Solid
Analysis Batch: 377588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377380

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.6	12.02		mg/Kg		95.4	44.4 - 128.6

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-377648/1
Matrix: Solid
Analysis Batch: 377648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-377358/1-A
Matrix: Solid
Analysis Batch: 377415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		09/18/17 02:15	09/18/17 13:57	1

Lab Sample ID: LCS 480-377358/2-A
Matrix: Solid
Analysis Batch: 377415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	315.0		mg/Kg		32	10 - 100

Method: 9012 - Cyanide, Reactive (Continued)

Lab Sample ID: 480-124206-3 DU — **Client Sample ID: WC-6 (0.5-11)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 377415 — **Prep Batch: 377358**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Reactive	ND			ND		mg/Kg				NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-378219/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 378456 — **Prep Batch: 378219**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.93	0.45	mg/Kg		09/22/17 11:00	09/24/17 11:02	1

Lab Sample ID: LCS 480-378219/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 378456 — **Prep Batch: 378219**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			23.3	25.37		mg/Kg		109	29 - 122		

Lab Sample ID: LCSD 480-378219/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 378456 — **Prep Batch: 378219**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total			24.8	27.07		mg/Kg		109	29 - 122	6	15

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-377360/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 377420 — **Prep Batch: 377360**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		09/18/17 02:15	09/18/17 14:30	1

Lab Sample ID: LCS 480-377360/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 377420 — **Prep Batch: 377360**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide, Reactive			880	841.6		mg/Kg		96	10 - 100		

Lab Sample ID: 480-124206-3 DU — **Client Sample ID: WC-6 (0.5-11)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 377420 — **Prep Batch: 377360**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide, Reactive	ND			ND		mg/Kg				NC	20

Method: 9045D - pH

Lab Sample ID: LCS 480-377233/1
Matrix: Solid
Analysis Batch: 377233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: D240-87 - Heat of Combustion

Lab Sample ID: LCS 680-496201/1-A
Matrix: Solid
Analysis Batch: 496292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
BTU	5740	5110		BTU/lb		89	70 - 130

GC/MS VOA

Leach Batch: 377280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	1311	
480-124206-2	WC-5 (9-16)	TCLP	Solid	1311	
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	1311	
LB 480-377280/1-A	Method Blank	TCLP	Solid	1311	

Prep Batch: 378107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	5035A_H	
MB 480-378107/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-378107/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-378107/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 378141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	8260C	377280
480-124206-2	WC-5 (9-16)	TCLP	Solid	8260C	377280
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	8260C	377280
LB 480-377280/1-A	Method Blank	TCLP	Solid	8260C	377280
MB 480-378141/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-378141/4	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 378437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	8260C	378107
MB 480-378107/3-A	Method Blank	Total/NA	Solid	8260C	378107
LCS 480-378107/1-A	Lab Control Sample	Total/NA	Solid	8260C	378107
LCSD 480-378107/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	378107

GC/MS Semi VOA

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	1311	
480-124206-2	WC-5 (9-16)	TCLP	Solid	1311	
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	1311	
LB 480-377279/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 377596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	3550C	
480-124206-4 - DL	WC-6 (11-16)	Total/NA	Solid	3550C	
480-124206-4 - DL2	WC-6 (11-16)	Total/NA	Solid	3550C	
MB 480-377596/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-377596/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 377619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	3510C	377279
480-124206-2	WC-5 (9-16)	TCLP	Solid	3510C	377279
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	3510C	377279

GC/MS Semi VOA (Continued)

Prep Batch: 377619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-377279/1-D	Method Blank	TCLP	Solid	3510C	377279
MB 480-377619/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-377619/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-377619/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 377832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-377279/1-D	Method Blank	TCLP	Solid	8270D	377619
MB 480-377619/1-A	Method Blank	Total/NA	Solid	8270D	377619
LCS 480-377619/2-A	Lab Control Sample	Total/NA	Solid	8270D	377619
LCSD 480-377619/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	377619

Analysis Batch: 377861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	8270D	377596
MB 480-377596/1-A	Method Blank	Total/NA	Solid	8270D	377596
LCS 480-377596/2-A	Lab Control Sample	Total/NA	Solid	8270D	377596

Analysis Batch: 378056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	8270D	377619
480-124206-2	WC-5 (9-16)	TCLP	Solid	8270D	377619
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	8270D	377619

Analysis Batch: 378080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4 - DL	WC-6 (11-16)	Total/NA	Solid	8270D	377596
480-124206-4 - DL2	WC-6 (11-16)	Total/NA	Solid	8270D	377596

GC VOA

Analysis Batch: 377014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	8015D	377030
MB 480-377030/1-A	Method Blank	Total/NA	Solid	8015D	377030
LCS 480-377030/2-A	Lab Control Sample	Total/NA	Solid	8015D	377030
LCSD 480-377030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	377030

Prep Batch: 377030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	5035A_H	
MB 480-377030/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-377030/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-377030/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

GC Semi VOA

Prep Batch: 377052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 377052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-2	WC-5 (9-16)	Total/NA	Solid	3550C	
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	3550C	
480-124206-4	WC-6 (11-16)	Total/NA	Solid	3550C	
MB 480-377052/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-377052/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 377115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	8082A	377052
480-124206-2	WC-5 (9-16)	Total/NA	Solid	8082A	377052
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	8082A	377052
480-124206-4	WC-6 (11-16)	Total/NA	Solid	8082A	377052
MB 480-377052/1-A	Method Blank	Total/NA	Solid	8082A	377052
LCS 480-377052/2-A	Lab Control Sample	Total/NA	Solid	8082A	377052

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	1311	
480-124206-2	WC-5 (9-16)	TCLP	Solid	1311	
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	1311	
LB 480-377279/1-E	Method Blank	TCLP	Solid	1311	
LB 480-377279/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 377604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	3550C	
MB 480-377604/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-377604/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 377621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	8151A	377279
480-124206-2	WC-5 (9-16)	TCLP	Solid	8151A	377279
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	8151A	377279
LB 480-377279/1-E	Method Blank	TCLP	Solid	8151A	377279
MB 480-377621/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-377621/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-377621/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Prep Batch: 377625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	3510C	377279
480-124206-2	WC-5 (9-16)	TCLP	Solid	3510C	377279
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	3510C	377279
LB 480-377279/1-F	Method Blank	TCLP	Solid	3510C	377279
MB 480-377625/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-377625/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-377625/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

GC Semi VOA (Continued)

Analysis Batch: 377759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	8015D	377604
MB 480-377604/1-A	Method Blank	Total/NA	Solid	8015D	377604
LCS 480-377604/2-A	Lab Control Sample	Total/NA	Solid	8015D	377604

Analysis Batch: 377761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	8081B	377625
480-124206-2	WC-5 (9-16)	TCLP	Solid	8081B	377625
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	8081B	377625
LB 480-377279/1-F	Method Blank	TCLP	Solid	8081B	377625
MB 480-377625/1-A	Method Blank	Total/NA	Solid	8081B	377625
LCS 480-377625/2-A	Lab Control Sample	Total/NA	Solid	8081B	377625
LCSD 480-377625/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	377625

Analysis Batch: 378208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	8151	377621
480-124206-2	WC-5 (9-16)	TCLP	Solid	8151	377621
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	8151	377621
LB 480-377279/1-E	Method Blank	TCLP	Solid	8151	377621
MB 480-377621/1-A	Method Blank	Total/NA	Solid	8151	377621
LCS 480-377621/2-A	Lab Control Sample	Total/NA	Solid	8151	377621
LCSD 480-377621/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	377621

Metals

Leach Batch: 377279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	1311	
480-124206-2	WC-5 (9-16)	TCLP	Solid	1311	
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	1311	
LB 480-377279/1-B	Method Blank	TCLP	Solid	1311	
LB 480-377279/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 377380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	7471B	
MB 480-377380/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-377380/3-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-377380/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 377539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	3010A	377279
480-124206-2	WC-5 (9-16)	TCLP	Solid	3010A	377279
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	3010A	377279
LB 480-377279/1-B	Method Blank	TCLP	Solid	3010A	377279
MB 480-377539/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-377539/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals (Continued)

Prep Batch: 377563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	7470A	377279
480-124206-2	WC-5 (9-16)	TCLP	Solid	7470A	377279
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	7470A	377279
LB 480-377279/1-C	Method Blank	TCLP	Solid	7470A	377279
MB 480-377563/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-377563/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 377588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	7471B	377380
MB 480-377380/1-A	Method Blank	Total/NA	Solid	7471B	377380
LCDSRM 480-377380/3-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471B	377380
LCSSRM 480-377380/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	377380

Analysis Batch: 377742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	6010C	377539
480-124206-2	WC-5 (9-16)	TCLP	Solid	6010C	377539
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	6010C	377539
LB 480-377279/1-B	Method Blank	TCLP	Solid	6010C	377539
MB 480-377539/2-A	Method Blank	Total/NA	Solid	6010C	377539
LCS 480-377539/3-A	Lab Control Sample	Total/NA	Solid	6010C	377539

Prep Batch: 377818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	3050B	
MB 480-377818/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-377818/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 377824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	TCLP	Solid	7470A	377563
480-124206-2	WC-5 (9-16)	TCLP	Solid	7470A	377563
480-124206-3	WC-6 (0.5-11)	TCLP	Solid	7470A	377563
LB 480-377279/1-C	Method Blank	TCLP	Solid	7470A	377563
MB 480-377563/2-A	Method Blank	Total/NA	Solid	7470A	377563
LCS 480-377563/3-A	Lab Control Sample	Total/NA	Solid	7470A	377563

Analysis Batch: 378207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	6010C	377818
MB 480-377818/1-A	Method Blank	Total/NA	Solid	6010C	377818
LCSSRM 480-377818/2-A	Lab Control Sample	Total/NA	Solid	6010C	377818

Prep Batch: 460828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	3051A	
MB 490-460828/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-460828/2-A	Lab Control Sample	Total/NA	Solid	3051A	

Metals (Continued)

Analysis Batch: 461202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	6010C	460828
MB 490-460828/1-A	Method Blank	Total/NA	Solid	6010C	460828
LCS 490-460828/2-A	Lab Control Sample	Total/NA	Solid	6010C	460828

General Chemistry

Analysis Batch: 377015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	Moisture	
480-124206-2	WC-5 (9-16)	Total/NA	Solid	Moisture	
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	Moisture	
480-124206-4	WC-6 (11-16)	Total/NA	Solid	Moisture	

Analysis Batch: 377233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	9045D	
480-124206-2	WC-5 (9-16)	Total/NA	Solid	9045D	
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	9045D	
LCS 480-377233/1	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 377358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	7.3.3	
480-124206-2	WC-5 (9-16)	Total/NA	Solid	7.3.3	
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	7.3.3	
MB 480-377358/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-377358/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
480-124206-3 DU	WC-6 (0.5-11)	Total/NA	Solid	7.3.3	

Prep Batch: 377360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	7.3.4	
480-124206-2	WC-5 (9-16)	Total/NA	Solid	7.3.4	
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	7.3.4	
MB 480-377360/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-377360/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
480-124206-3 DU	WC-6 (0.5-11)	Total/NA	Solid	7.3.4	

Analysis Batch: 377415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	9012	377358
480-124206-2	WC-5 (9-16)	Total/NA	Solid	9012	377358
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	9012	377358
MB 480-377358/1-A	Method Blank	Total/NA	Solid	9012	377358
LCS 480-377358/2-A	Lab Control Sample	Total/NA	Solid	9012	377358
480-124206-3 DU	WC-6 (0.5-11)	Total/NA	Solid	9012	377358

Analysis Batch: 377420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	9034	377360

General Chemistry (Continued)

Analysis Batch: 377420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-2	WC-5 (9-16)	Total/NA	Solid	9034	377360
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	9034	377360
MB 480-377360/1-A	Method Blank	Total/NA	Solid	9034	377360
LCS 480-377360/2-A	Lab Control Sample	Total/NA	Solid	9034	377360
480-124206-3 DU	WC-6 (0.5-11)	Total/NA	Solid	9034	377360

Analysis Batch: 377457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	9095B	
480-124206-2	WC-5 (9-16)	Total/NA	Solid	9095B	
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	9095B	

Analysis Batch: 377648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-1	WC-5 (0.5-9)	Total/NA	Solid	1010A	
480-124206-2	WC-5 (9-16)	Total/NA	Solid	1010A	
480-124206-3	WC-6 (0.5-11)	Total/NA	Solid	1010A	
LCS 480-377648/1	Lab Control Sample	Total/NA	Solid	1010A	

Prep Batch: 378219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	9012B	
MB 480-378219/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-378219/2-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSD 480-378219/3-A	Lab Control Sample Dup	Total/NA	Solid	9012B	

Analysis Batch: 378456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	9012B	378219
MB 480-378219/1-A	Method Blank	Total/NA	Solid	9012B	378219
LCS 480-378219/2-A	Lab Control Sample	Total/NA	Solid	9012B	378219
LCSD 480-378219/3-A	Lab Control Sample Dup	Total/NA	Solid	9012B	378219

Prep Batch: 496201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	D240-87	
LCS 680-496201/1-A	Lab Control Sample	Total/NA	Solid	D240-87	

Analysis Batch: 496292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124206-4	WC-6 (11-16)	Total/NA	Solid	D240-87	496201
LCS 680-496201/1-A	Lab Control Sample	Total/NA	Solid	D240-87	496201

Client Sample ID: WC-5 (0.5-9)

Lab Sample ID: 480-124206-1

Date Collected: 09/14/17 12:50

Matrix: Solid

Date Received: 09/15/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			377280	09/18/17 08:59	NMC	TAL BUF
TCLP	Analysis	8260C		10	378141	09/22/17 04:40	RJF	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377619	09/19/17 14:15	RLT	TAL BUF
TCLP	Analysis	8270D		1	378056	09/21/17 15:30	DMR	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377625	09/19/17 14:29	RLT	TAL BUF
TCLP	Analysis	8081B		1	377761	09/20/17 14:52	MAN	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	8151A			377621	09/19/17 14:21	RLT	TAL BUF
TCLP	Analysis	8151		1	378208	09/22/17 18:20	JMO	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3010A			377539	09/19/17 10:30	EMB	TAL BUF
TCLP	Analysis	6010C		1	377742	09/20/17 00:52	LMH	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	7470A			377563	09/19/17 12:00	BMB	TAL BUF
TCLP	Analysis	7470A		1	377824	09/19/17 16:38	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377648	09/19/17 16:12	JCL	TAL BUF
Total/NA	Prep	7.3.3			377358	09/18/17 02:15	LAW	TAL BUF
Total/NA	Analysis	9012		1	377415	09/18/17 13:57	MDL	TAL BUF
Total/NA	Prep	7.3.4			377360	09/18/17 02:15	LAW	TAL BUF
Total/NA	Analysis	9034		1	377420	09/18/17 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	377233	09/17/17 09:56	DSC	TAL BUF
Total/NA	Analysis	9095B		1	377457	09/18/17 19:25	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	377015	09/15/17 08:46	CSW	TAL BUF

Client Sample ID: WC-5 (0.5-9)

Lab Sample ID: 480-124206-1

Date Collected: 09/14/17 12:50

Matrix: Solid

Date Received: 09/15/17 02:15

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			377052	09/15/17 11:20	CAM	TAL BUF
Total/NA	Analysis	8082A		1	377115	09/15/17 21:12	JMO	TAL BUF

Client Sample ID: WC-5 (9-16)

Lab Sample ID: 480-124206-2

Date Collected: 09/14/17 13:00

Matrix: Solid

Date Received: 09/15/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			377280	09/18/17 08:59	NMC	TAL BUF
TCLP	Analysis	8260C		10	378141	09/22/17 05:07	RJF	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377619	09/19/17 14:15	RLT	TAL BUF

Client Sample ID: WC-5 (9-16)

Lab Sample ID: 480-124206-2

Date Collected: 09/14/17 13:00

Matrix: Solid

Date Received: 09/15/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	8270D		1	378056	09/21/17 15:57	DMR	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377625	09/19/17 14:29	RLT	TAL BUF
TCLP	Analysis	8081B		1	377761	09/20/17 15:12	MAN	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	8151A			377621	09/19/17 14:21	RLT	TAL BUF
TCLP	Analysis	8151		1	378208	09/22/17 19:50	JMO	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3010A			377539	09/19/17 10:30	EMB	TAL BUF
TCLP	Analysis	6010C		1	377742	09/20/17 00:56	LMH	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	7470A			377563	09/19/17 12:00	BMB	TAL BUF
TCLP	Analysis	7470A		1	377824	09/19/17 16:39	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377648	09/19/17 16:12	JCL	TAL BUF
Total/NA	Prep	7.3.3			377358	09/18/17 02:15	LAW	TAL BUF
Total/NA	Analysis	9012		1	377415	09/18/17 13:57	MDL	TAL BUF
Total/NA	Prep	7.3.4			377360	09/18/17 02:15	LAW	TAL BUF
Total/NA	Analysis	9034		1	377420	09/18/17 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	377233	09/17/17 09:56	DSC	TAL BUF
Total/NA	Analysis	9095B		1	377457	09/18/17 19:25	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	377015	09/15/17 08:46	CSW	TAL BUF

Client Sample ID: WC-5 (9-16)

Lab Sample ID: 480-124206-2

Date Collected: 09/14/17 13:00

Matrix: Solid

Date Received: 09/15/17 02:15

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			377052	09/15/17 11:20	CAM	TAL BUF
Total/NA	Analysis	8082A		1	377115	09/15/17 21:28	JMO	TAL BUF

Client Sample ID: WC-6 (0.5-11)

Lab Sample ID: 480-124206-3

Date Collected: 09/14/17 08:45

Matrix: Solid

Date Received: 09/15/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			377280	09/18/17 08:59	NMC	TAL BUF
TCLP	Analysis	8260C		10	378141	09/22/17 05:34	RJF	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377619	09/19/17 14:15	RLT	TAL BUF
TCLP	Analysis	8270D		1	378056	09/21/17 16:24	DMR	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3510C			377625	09/19/17 14:29	RLT	TAL BUF
TCLP	Analysis	8081B		1	377761	09/20/17 15:31	MAN	TAL BUF

Client Sample ID: WC-6 (0.5-11)

Lab Sample ID: 480-124206-3

Date Collected: 09/14/17 08:45

Matrix: Solid

Date Received: 09/15/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	8151A			377621	09/19/17 14:21	RLT	TAL BUF
TCLP	Analysis	8151		1	378208	09/22/17 20:19	JMO	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	3010A			377539	09/19/17 10:30	EMB	TAL BUF
TCLP	Analysis	6010C		1	377742	09/20/17 01:00	LMH	TAL BUF
TCLP	Leach	1311			377279	09/18/17 08:54	NMC	TAL BUF
TCLP	Prep	7470A			377563	09/19/17 12:00	BMB	TAL BUF
TCLP	Analysis	7470A		1	377824	09/19/17 16:42	BMB	TAL BUF
Total/NA	Analysis	1010A		1	377648	09/19/17 16:12	JCL	TAL BUF
Total/NA	Prep	7.3.3			377358	09/18/17 02:15	LAW	TAL BUF
Total/NA	Analysis	9012		1	377415	09/18/17 13:57	MDL	TAL BUF
Total/NA	Prep	7.3.4			377360	09/18/17 02:15	LAW	TAL BUF
Total/NA	Analysis	9034		1	377420	09/18/17 14:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	377233	09/17/17 09:56	DSC	TAL BUF
Total/NA	Analysis	9095B		1	377457	09/18/17 19:25	ALZ	TAL BUF
Total/NA	Analysis	Moisture		1	377015	09/15/17 08:46	CSW	TAL BUF

Client Sample ID: WC-6 (0.5-11)

Lab Sample ID: 480-124206-3

Date Collected: 09/14/17 08:45

Matrix: Solid

Date Received: 09/15/17 02:15

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			377052	09/15/17 11:20	CAM	TAL BUF
Total/NA	Analysis	8082A		1	377115	09/15/17 21:44	JMO	TAL BUF

Client Sample ID: WC-6 (11-16)

Lab Sample ID: 480-124206-4

Date Collected: 09/14/17 09:15

Matrix: Solid

Date Received: 09/15/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	D240-87			496201	09/27/17 07:33	CFJ	TAL SAV
Total/NA	Analysis	D240-87		1	496292	09/27/17 12:56	CFJ	TAL SAV
Total/NA	Analysis	Moisture		1	377015	09/15/17 08:46	CSW	TAL BUF

Client Sample ID: WC-6 (11-16)

Lab Sample ID: 480-124206-4

Date Collected: 09/14/17 09:15

Matrix: Solid

Date Received: 09/15/17 02:15

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			378107	09/16/17 12:30	AMM	TAL BUF
Total/NA	Analysis	8260C		100	378437	09/24/17 14:52	ARS	TAL BUF
Total/NA	Prep	3550C			377596	09/19/17 13:14	SMP	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Client Sample ID: WC-6 (11-16)
Date Collected: 09/14/17 09:15
Date Received: 09/15/17 02:15

Lab Sample ID: 480-124206-4
Matrix: Solid
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		20	377861	09/20/17 22:37	DMR	TAL BUF
Total/NA	Prep	3550C	DL		377596	09/19/17 13:14	SMP	TAL BUF
Total/NA	Analysis	8270D	DL	400	378080	09/21/17 17:50	DMR	TAL BUF
Total/NA	Prep	3550C	DL2		377596	09/19/17 13:14	SMP	TAL BUF
Total/NA	Analysis	8270D	DL2	2000	378080	09/21/17 18:16	DMR	TAL BUF
Total/NA	Prep	5035A_H			377030	09/15/17 09:20	JLS	TAL BUF
Total/NA	Analysis	8015D		100	377014	09/15/17 12:53	JLS	TAL BUF
Total/NA	Prep	3550C			377604	09/19/17 13:27	SMP	TAL BUF
Total/NA	Analysis	8015D		10	377759	09/22/17 01:19	JMO	TAL BUF
Total/NA	Prep	3550C			377052	09/15/17 11:20	CAM	TAL BUF
Total/NA	Analysis	8082A		1	377115	09/15/17 22:00	JMO	TAL BUF
Total/NA	Prep	3050B			377818	09/21/17 14:59	EMB	TAL BUF
Total/NA	Analysis	6010C		1	378207	09/22/17 02:03	AMH	TAL BUF
Total/NA	Prep	3051A			460828	09/18/17 18:01	BVH	TAL NSH
Total/NA	Analysis	6010C		1	461202	09/20/17 02:38	LCS	TAL NSH
Total/NA	Prep	7471B			377380	09/18/17 16:10	BMB	TAL BUF
Total/NA	Analysis	7471B		1	377588	09/18/17 18:00	BMB	TAL BUF
Total/NA	Prep	9012B			378219	09/22/17 11:00	CLT	TAL BUF
Total/NA	Analysis	9012B		1	378456	09/24/17 11:29	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20

Laboratory: TestAmerica Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17 *
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17 *
Wyoming (UST)	A2LA	8	453.07	12-31-17

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	11-05-17 *
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
TestAmerica Job ID: 480-124206-1
Project/Site: National Grid - North Albany Project

Laboratory: TestAmerica Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17 *
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-17
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL NSH
7470A	TCLP Mercury	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
D240-87	Heat of Combustion	ASTM	TAL SAV
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124206-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-124206-1	WC-5 (0.5-9)	Solid	09/14/17 12:50	09/15/17 02:15
480-124206-2	WC-5 (9-16)	Solid	09/14/17 13:00	09/15/17 02:15
480-124206-3	WC-6 (0.5-11)	Solid	09/14/17 08:45	09/15/17 02:15
480-124206-4	WC-6 (11-16)	Solid	09/14/17 09:15	09/15/17 02:15

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-124206 COC

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Arcadis U.S. Inc	Mr. Michael Jones	9/14/17	295875
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 2
110 West Fayette St. Suite 300	(315) 446-9120		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Syracuse / NY / 13202	Michael Jones	Melissa Deyo	
Project Name and Location (State)	**Carrier/Waybill Number**		
National Grid - North Albany			
Contract/Purchase Order/Quote No.			
B003664 8.1401			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	9012A Reactive CN 9034	9095B - Paint Filter	6010C, 7470A, 8081B, 8151A, 8270D	8260C - TCLP Volatiles	1010A, 9045D	8082A - PCBs	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - DRO	8015D_GRO - GRO	6010C - Percent Solids	Special Instructions/ Conditions of Receipt
WC-5 (0.5-9)	9/14/17	1250				X	X						—	1	1	1	1	1							Short holding time
WC-5 (9-16)	9/14/17	1300				X	X						1	1	1	1	1	1							
WC-6 (0.5-11)	9/14/17	0845				X	X						1	1	1	1	1	1							
WC-6 (11-16)	9/14/17	0915				X	X												1	1	1	1	3	1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9/14/17	1655	1. Received By	9/14/17	1455
2. Relinquished By	9/14/17	1800	2. Received By TAS	9-15-17	0215
3. Relinquished By			3. Received By		

Comments

0.9 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Arcadis U.S. Inc	Mr. Michael Jones	9/14/17	295876
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
110 West Fayette St, Suite 300	(315) 446-9120		
City Syracuse	**State** NY	**Zip Code** 13202	**Site Contact** Michael Jones	**Lab Contact** Melissa Deyo
Project Name and Location (State) National Grid - North Albany	**Carrier/Waybill Number**	
Contract/Purchase Order/Quote No. B00366648-1401		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8246_87-BTU	8260C-TCL VOC	Percent Solid	Special Instructions/ Conditions of Receipt
WC-5 (0.5-9)	9/14/17	1250				X	X									Short loading time
WC-5 (9-16)	9/14/17	1300				X	X									
WC-6 (0.5-11)	9/14/17	0845				X	X									
WC-6 (11-16)	9/14/17	0908				X	X						1	3	1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9/14/17	1655	1. Received By	9/14/17	1655
2. Relinquished By	9/14/17	1800	2. Received By TAD 9-15-17 0215		
3. Relinquished By			3. Received By		

Comments

0.9 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

480-124206 Chain of Custody

Cooler Received/Opened On 9/16/17 0935

Time Samples Removed From Cooler 18:09 Time Samples Placed In Storage 18:13 (2 Hour Window)

1. Tracking # 9538 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 31470368 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 0.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) HG

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

● ⬅ Larger than this.

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) AD

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) KA

I certify that I attached a label with the unique LIMS number to each container (intial) KA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)...#_____

BIS = Broken in shipment

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	COC No: 480-37247.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York	Job #: 480-124206-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/27/2017		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: National Grid - North Albany Project	Project #: 48016528		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C/3051A Percent Sulfur	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-6 (11-16) (480-124206-4)	9/14/17	09:15 Eastern		Solid			X	1	

Loc: 480
124206

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 9/15/17 1600	Company: TAB	Received by:	Date/Time: 09-16-2017 0935	Company: TAN		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.7

9/29/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-37258.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-124206-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 9/27/2017			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87/D240_87_P Heat of Combustion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WC-6 (11-16) (480-124206-4)	9/14/17	09:15 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/15/17 1600	TAB	[signature]	9/14/17 1600	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.1 (4.3)	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124206-1

Login Number: 124206

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	FREEZER ON 15SEPT2017 @ 0700
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124206-1

Login Number: 124206
List Number: 3
Creator: Dawson, Keith M

List Source: TestAmerica Nashville
List Creation: 09/16/17 06:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124206-1

Login Number: 124206
List Number: 2
Creator: Chamberlain, Kim A

List Source: TestAmerica Savannah
List Creation: 09/16/17 11:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX E

ISS Bench-Scale Treatability Study Summary Report

National Grid

IN-SITU SOIL SOLIDIFICATION BENCH-SCALE TREATABILITY STUDY SUMMARY REPORT

North Albany Former MGP Site

Albany, New York

Site No. 4-01-040

March 2018

IN-SITU SOIL SOLIDIFICATION BENCH-SCALE TREATABILIT STUDY SUMMARY REPORT

North Albany Former MGP Site, Albany, New York

Prepared for:

National Grid

Prepared by:

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Our Ref.:

B0036648.1401 #10

Date:

March 2018

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1 INTRODUCTION

This In-Situ Soil Solidification (ISS) Bench-Scale Treatability Study Report summarizes the work performed and findings of the ISS treatability study for the North Albany Service Center former manufactured gas plant (MGP) site located in Albany, New York (the site). The overall goal of ISS treatability study was to evaluate site soil types with multiple mix designs to assess the feasibility for full-scale implementation of ISS that will achieve proposed performance objectives and be cost-effective.

Prior to conducting field activities, the New York State Department of Environmental Conservation (NYSDEC) was notified of National Grid's plan to perform a preliminary ISS treatability study in August 2012. Treatability study activities were performed by Arcadis from July 2012 to December 2012 and generally consisted of collecting representative soil samples and conducting bench-scale testing of various reagent mix designs to solidify site soils containing MGP-related impacts.

1.1 Purpose

The purpose of this study was to evaluate the potential effectiveness of using ISS to treat impacted soils in several areas of the site. The existing site layout and former MGP structures are shown on Figure 1. The study focused on soils the following areas at the site:

- Area 1 – Parking lot south of the gas regulator station (near monitoring well MW-2).
- Area 2 – Central area of the site proposed for possible ISS treatment.
- Area 3 – The area immediately east of Building 2 where purifier waste was identified and delineated by previous site investigation efforts.

1.2 Treatability Study Performance Objectives

The ISS bench-scale reagent mix designs were evaluated based on their ability to meet the following performance objectives:

- Minimum UCS of 50 pounds per square inch (psi) at 28 days. The minimum strength goal was selected to adequately bind constituents in the monolith and support site use (e.g., parking lots/driveways) following the ISS treatment. The parking lots/driveways will need to withstand wheel loadings without settlement or deterioration. A maximum UCS threshold (i.e. less than 150 psi) that would accommodate potential future excavation of the solidified soil via conventional excavation equipment (e.g., backhoe or excavator) was not defined but will be considered during the remedial design process.
- Maximum permeability of 1x10-6 centimeters per second (cm/sec). The reduced soil pore space and corresponding reduced hydraulic conductivity of the treated soil matrix will result in lower mobility of pore-filling liquids (water, non-aqueous phase liquid [NAPL]) and reduced potential for leaching.
- Leaching results demonstrate reduction in leachability for the site-related constituents of concern (COCs). A reduction in the potential for soil to contribute BTEX and PAHs to groundwater and is demonstrated by results from sequential monolith leaching that meet the criteria. Note that leachability is evaluated on a quantitative basis.

2 FIELD INVESTIGATION

This section summarizes the work performed and results obtained for the field investigation activities completed as part of the ISS Bench-Scale Study. The field activities were performed to achieve the following:

- Obtain NAPL-impacted (i.e., “worst case”) soil from 5 feet below ground surface (bgs) to refusal (bedrock) for use in the ISS bench-scale testing.
- Assess the composition and thickness of purifier waste previously identified in area immediately east of Building 2.

2.1 Soil Boring Activities

The soil boring activities were completed between July 30 and August 3, 2012 by Arcadis’ drilling subcontractor, Parratt-Wolff, Inc. of East Syracuse, New York. Prior to drilling, soil was removed from each boring by air knife/vacuum clearance to a depth of approximately 5 feet bgs. Drilling was then conducted with a truck-mounted drill rig using the hollow-stem auger drilling method. An Arcadis representative was onsite full-time to characterize soils recovered from the borings, collect and process samples for laboratory analysis, and conduct community air monitoring. Soil samples were collected continuously to bedrock or auger refusal (which ever was encountered first) at each boring location using a standard 2-inch outer diameter (OD) by 2-foot long split barrels samplers, advanced in accordance with American Society for Testing and Materials (ASTM) Method D1586. Each recovered soil sample was visually classified for soil type, grain size, texture, and the general presence of NAPL, staining, odors, or MGP-residuals, and a portion of each sample was placed in a container for headspace screening of organic vapors using a photoionization detector (PID). Borings logs for each boring are included in Appendix A.

Details of the soil boring and sampling activities at each investigation area are presented below. Note the ID’s for 2012 ISS boring (i.e., GT-X) have the same identification and as geotechnical borings completed as part of the 2017 pre-design investigation (PDI). However, the borings are not same.

2.1.1 Area 1 – Soil Boring and Sampling Activities

Soil borings GT-1 and GT-2 were attempted at 11 locations throughout investigation Area 1; approximate locations are shown on Figure 2. During air knife/vacuum clearance activities obstructions were found in all investigation locations at depths between 3 and 4.7 feet bgs. All borings encountered historic fill materials (ash, brick, cinders, and wood) mixes with large debris included:

- Concrete foundations/slab sections with rebar
- Historic steel piping
- Brick/masonry wall sections
- Steel/iron bars

None of borings in Area 1 were successfully cleared to 5 feet bgs. Auger drilling through debris was not attempted due to the size of debris and the potential for shifting/rotating debris (particularly steel and rebar) and damaging the active utilities adjacent to the investigation area. Based on the type of debris

found in the borings, the obstructions are likely historic structures, related MGP or other site operations, that were demolished and used to fill in basement areas of the demolished structures.

Arcadis conducted a geophysical survey on September 25 and 26, 2012 to further evaluate potential subsurface obstructions/foundations in Area 1 and the parking lot area located in the northwest portion of the former MGP area. The geophysical survey utilized ground penetrating radar (GPR) to identify the location of possible underground structures and/or other potential obstructions. In general, the geophysical survey results indicated that a large percentage of the survey area contains fill/debris consisting of concrete, brick and metal. The full results of the geophysical survey were presented in a February 6, 2013 letter report Arcadis to National Grid (included as Appendix B).

Based on the results of the soil boring activities and geophysical survey, ISS treatment of soils in Area 1 is not recommended due to the quantity/type of subsurface debris encountered. It is likely that ISS equipment would encounter difficulty in advancing to depth during soil mixing in this area and obtaining thorough mixing and homogeneous material properties would be problematic.

2.1.2 Area 2 – Soil Boring and Sampling Activities

Soil borings were completed at two locations (GT-3 and GT-4) within investigation Area 2, as shown on Figure 2. The general soil profile at these boring locations was characterized as follows (with increasing depth from grade):

- General fill to a depth of consisting primarily of sand with some to little gravel and trace fine grained soil. Oil-like material (OLM) was observed throughout the soil with zones fully saturated with OLM. A layer of wood fibers was observed in both borings between 9 and 10 feet bgs.
- Brown-yellow clay layer (measured thicknesses of 1.2 feet and 0.2 feet) with OLM and oil blebs observed throughout.
- Gray sand/gravel with trace silt/clay and OLM was observed throughout.
- Weathered shale bedrock (encountered at depths of 17.4 and 17.8 feet bgs) with OLM throughout.
- Bedrock (encountered at depths of 19.7 and 19.4 feet bgs).

Approximately 3.5 gallons of soil was obtained from each soil boring and placed in 5-gallon containers that were sealed for transportation to the treatability laboratory. The soil was obtained from depths of between 5 feet bgs and the bottom of the boring and included the most heavily-impacted material encountered at each boring location.

2.1.3 Area 3 – Soil Boring and Sampling Activities

Soil borings were completed at three locations (GT-5, GT-6, and GT-7) within investigation Area 3 (as shown on Figure 2) to collect samples of soil and purifier waste material for evaluation in the treatability study. Soil boring GT-5 was terminated at 11 feet bgs when only trace purifier waste was found in the soil boring. The general soil profile at these boring locations was characterized as follows (with increasing depth from grade):

- General fill consisting primarily of sand and silt with gravel and debris (no OLM was observed).
- Gray high plasticity clay layer (no OLM observed).

- Purifier waste consisting of wood flakes saturated with highly plastic tar-like material (measured thicknesses varied from 1.6 feet to 1.9 feet).
- Clay with some staining near the interface with the purifier waste layer but no OLM.
- Gray sand with some cobbles and no OLM.
- Weathered shale bedrock (encountered at depths of 23 and 23.9 feet bgs) with zones of OLM.
- Bedrock (encountered at depths of 24.2 and 24.4 feet bgs)

Approximately 3.5 gallons of soil was obtained from both soil boring GT-6 and GT-7 and placed in 5-gallon containers that were sealed for transportation to the treatability laboratory for use in the ISS treatability study. The collected material included the most heavily-impacted material encountered at each boring location.

2.2 Waste Management

Investigation waste from drilling and decontamination activities was collected in drums and staged onsite at a location acceptable to facility personnel. Investigation derived waste characterization samples to Accutest Laboratories (Accutest) located in Marlboro, Massachusetts for laboratory analysis. Wastewater samples were analyzed for TCL VOCs, TCL SVOCs, corrosivity, and flash point. Soil samples were for Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, PCBs, ignitability, corrosivity, and reactivity. Investigation derived was transported off-site for disposal by National Grid's waste disposal contractor (Clean Harbors) in October 2012.

3 ISS BENCH-SCALE TREATABILITY STUDY

This section presents the details of the completed ISS bench-scale treatability study activities and associated results. As indicated in Section 1, the overall purpose of the study was to evaluate the feasibility of potential full-scale ISS implementation for various types of impacted site soils. The treatability study was designed to simulate, to the extent practical, the potential full-scale remedial process.

Treatability study testing for impacted soils was completed by Arcadis' geotechnical laboratory subcontractor (Geo-Con, a trade name of Geo-Solutions Inc.). Laboratory set-up and preparations for the treatability study were conducted in September 2012; and mixing and testing was conducted in between October and December 2012. Geo-Con subcontracted with the following analytical laboratories for testing treated soils,

- Geotechnics, Inc. (Geotechnics) of East Pittsburg, Pennsylvania for unconfined compressive strength (UCS), permeability, and other geotechnical testing.
- Pace Analytical Services (Pace), Inc. of Greensburg, Pennsylvania for monolith leaching testing.

Varying quantities of the mix reagents listed below were combined in with site soils to evaluate the mix design's ability to meet the performance objectives presented in Section 1. Water used in the treatability study was obtained from the Vehicle Maintenance Building.

- Type I/II Portland cement (PC)
- Grade 100 Blast Furnace Slag (BFS)
- 90 bbl Yield Sodium Bentonite

A summary of the bench-scale testing activities and results are presented in Final Bench Scale Study Report (Geo-Con, June 2013) included in Appendix C. The testing activities and results are summarized in the following subsections.

3.1 ISS Bench-Scale Treatability Study Activities

This section discusses the details of the ISS bench-scale treatability study activities.

3.1.1 Treatability Study Homogenates

As discussed in Section 2, collected soil samples were packaged and shipped to the treatability laboratory. Following sample receipt, laboratory personnel visually characterized the samples for composition (lithology) and MGP-related impacts (level of NAPL saturation). The samples were composited into two sets of homogenates based on the extent and type of MGP impacts, as identified below:

- Moderately Impacted Soil Homogenate (Soil 1) – The samples used to form this homogenate represented the soil encountered in study Area 2 (borings GT-3 and GT-4) and contains silty sand with observed tar lumps and heavy MGP-type odor and NAPL present in the void spaces.
- Purifier Waste-Impacted Soil Homogenate (Soil 2) – The samples used to form this homogenate represented soils from study Area 3 (borings GT-6 and GT-7) where a layer of impacted purifier waste is present (and containing a high percentage of NAPL in soil pore space).

3.1.2 Homogenate Baseline Analysis

Homogenate samples Soil 1 and Soil 2 were submitted for chemical and geotechnical analyses to establish baseline constituent concentrations and geotechnical properties. Pace Analytical (Pace) analyzed the untreated homogenates for the following:

- Target compound list (TCL) volatile organic compounds (VOCs) using USEPA SW-846 Methods 8260
- TCL semi-volatile organic compounds (SVOCs) using USEPA SW-846 8270
- Moisture content using ASTM D-2974.

Analytical results are presented in Table 1 and analytical laboratory reports for the baseline analysis are presented as Appendix D.

Geotechnics analyzed the untreated homogenates for the following:

- Moisture content by ASTM D-2216
- Grain size analysis (sieve and hydrometer) by ASTM D-422
- Multi-point Atterberg Limits by ASTM D-4318
- Loss of ignition by ASTM D-2974

Unified Soil Classification (UCS) selection performed by Arcadis based on geotechnical testing results by ASTM D-2488. Results of these tests were considered in developing the reagent mix designs used in subsequent testing.

A summary of geotechnical testing results is presented in Table 3-1 and the geotechnical laboratory baseline reports are included in Geo-Con's Bench Scale Study Report.

Table 3-1. Geotechnical Testing Summary

Mix ID	Test Method	Soil 1	Soil 2
Percent Fines	ASTM D-422	16.7%	24.8%
Water Content	ASTM D-2216	16.3%	32.2%
UCS Classification	ASTM D-2488	SM	SC
Plasticity Index	ASTM D-4318	Non-Plastic	CL
Organic Content	ASTM D-2974	4.9%	2.3%

3.1.3 Strength Testing

As presented in Table 3-2, six mix designs (SM1 through SM6) were initially developed for the treatability study. The proportions listed in Table 3-2 are relative to dry weight of the untreated sample. Due to the limited test data available for treatability studies for soils with purifier waste impacts, both soil types were mixed with the same mix designs for comparison purposes.

Table 3-2. Phase 1 Mix Designs

Mix ID	Portland Cement (w/w)	Bentonite (w/w)	BFS (w/w)
SM1	8.0%	0%	0%
SM2	10.0%	0%	0%
SM3	10.0%	1.0%	0%
SM4	2.0%	0%	6%
SM5	2.5%	0%	7.5%
SM6	2.0%	1.0%	6.0%

Initial grouts were mixed at a water to solids (W:S) ratio of 0.8:1. A W:S greater than or equal to 0.8:1 is typically an easily pumpable grout. W:S ratios greater than 1.25 can have adverse impacts on the strength and permeability of the soil-grout mixes. The grout was thoroughly mixed by hand into soil. Additional water was added to the mix until a slump greater than six inches (as measured using a mini slump cone) was achieved. Geo-Con recommends a slump greater than six inches to ensure the soil-grout mixture is suitably workable in the field.

Following sample mixing, the soil-grout mix was used to fill 2-inch diameter by 4-inch molds for UCS testing. The molds were allowed to cure at the treatability laboratory in sealed containers under indoor ambient temperature and humidity. The molds were tested by Geo-Con for penetration resistance (ASTM D1558) using a pocket penetrometer at 1, 3, and 7 days after mold preparation. The penetration resistance testing was used as a screening tool to assist the project team in tracking the development of strength in the molds. After approximately 14 and 28 days of curing the molds were tested by Geotechnics for UCS (ASTM D1633). Results of pocket penetrometer and USC tests area presented in Table 3-3. USC test laboratory reports are included in Geo-Con's Bench Scale Study Report.

Table 3-3. Sample Strength Results

Sample ID	Mix ID	Penetrometer (psi)			UCS (psi)	
		1-day	3-day	7-day	14-day	28-day
Soil 1						
37-1	SM1	>62	>62	>62	117	138
37-2	SM2	>62	>62	>62	210	280
37-3	SM3	>62	>62	>62	186	266
37-4	SM4	>62	>62	>62	390	499
37-5	SM5	>62	>62	>62	553	693
37-6	SM6	>62	>62	>62	339	493

Sample ID	Mix ID	Penetrometer (psi)			UCS (psi)	
		1-day	3-day	7-day	14-day	28-day
Soil 2						
37-7	SM1	14	53	62	43	59
37-8	SM2	17	49	62	33	40
37-9	SM3	35	>62	>62	54	66
37-10	SM4	<7	44	38	24	31
37-11	SM5	<7	28	56	46	87
37-12	SM6	11	51	>62	93	196

As indicated in Table 3-3, the 14-day and 28-day UCS test results for all Soil 1 mixes and four Soil 2 mixes exceeded the 50 psi performance objective. In general, due to the soil and impact type, Soil 2 was difficult to homogenized. The UCS strength for Sample 8 was less than for Sample 7 despite the higher cement content in Sample 8. Geo-Con noted that Sample 8 contained more impacted material and could be considered a “worst case” soil. Based upon the classification testing and strength test results, Samples 37-3, 37-4, 37-6, 37-8, 37-11, and 37-12 were selected for further testing.

3.1.4 Permeability Testing

The six sample mixes (described above) were selected for permeability testing. The mix design percentages of PC, BFS, and bentonite used for mixes in the permeability testing were not modified from those used for strength testing. Following sample mixing, the soil-grout mix was used to fill 3-inch diameter by 3-inch high molds for conductivity testing.

The molds were allowed to cure at the treatability laboratory in sealed containers under indoor ambient temperature and humidity. Following 28-day cure times, each of the samples was analyzed by Geotechnics for permeability (ASTM D-5084). Each sample exhibited a permeability less than 1x10-6 cm/sec. The permeability test results for these samples are presented in Table 3-4 and geotechnical laboratory reports are included in Geo-Con’s Bench Scale Study Report.

Table 3-4. Sample Permeability Testing Results

Sample ID	Permeability (cm/sec)
Soil 1	
37-3	6.0×10^{-8}
37-4	1.5×10^{-8}
37-6	3.3×10^{-8}
Soil 2	
37-8	1.5×10^{-7}
37-11	5.5×10^{-9}
37-12	4.6×10^{-8}

3.1.5 Monolith Leaching Analysis

As indicated in Section 1, monolith leaching analysis was completed to provide a qualitative assessment of the mix design's ability the reduce the quantity of impacts (i.e., BTEX and PAHs) that may leach in groundwater from treated soils.

Monolith leaching consisted of the following the steps:

1) submerging the monolith in a reactor with an extraction fluid (deionized water) for 24 hours
2) removing (extracting) the fluid for archive or analysis
3) refilling the reactor with new fluid
4) repeating steps 1 through 3

The extracted fluid was analyzed for VOCs and SVOCs after 5, 10, 15, and 20 days of leaching. Analysis of the leachate generated by the sequential monolith leaching was performed by Pace using USEPA SW-846 Methods 8260 and 8270. Leachate analytical results are presented in Table 2 and analytical laboratory reports are included as Appendix E.

As indicated in Table 2, the constituents identified at the greatest concentrations in the extract were BTEX compounds and naphthalene. In general, the extracted liquid from Soil 2 mixes (i.e., the purifier waste) contained higher concentrations of BTEX and naphthalene, compared to the Soil 1 mixes. Additionally, BTEX and naphthalene concentrations did not significantly decrease over the 20 day testing period. Samples 37-4 and 37-6 (from Soil 1) contained the lowest BTEX and naphthalene concentrations initially (i.e., on Day 5), as well as exhibited a notable reduction in extract concentrations at the conclusion of the testing (i.e., Day 20).

3.2 ISS Treatability Study Summary and Conclusions

The overall purpose of the study was to evaluate the feasibility of potential full-scale ISS implementation for various types of impacted site soils. The treatability study was designed to simulate, to the extent practical, the potential full-scale remedial process. Based on the data generated during the treatability study, two grout mixes (SM4 and SM6) have been identified as candidates for ISS in Area 2. Bench scale

test results for Area 3 showed BTEX and naphthalene concentrations did not significantly decrease over the 20-day testing period.

TABLES

Table 1
Baseline Soil Concentrations
National Grid - North Albany Service Center
North Albany, New York

Method/Analyte	Soil 1 GT-03/GT-04	Soil 2 GT-06/GT-07
Percent Moisture	**20.0%**	**22.4%**
Method 8260B - Volatile Organic Compounds (mg/kg)		
Benzene	**5.6**	**5.4**
Ethylbenzene	**68.4**	**28.4**
Styrene	**5.8**	**3.0**
Toluene	**12.7**	**9.0**
m&p-Xylene	**24.3**	**31.3**
o-Xylene	**14.2**	**11.9**
TOTAL Xylenes	**38.5**	**43.2**
TOTAL BTEX	**125.2**	**85.9**
Method 8270C - Semivolatile Organic Compounds (mg/kg)		
Acenaphthene	**20.3**	**752.0**
Acenaphthylene	**97.9**	**851.0**
Anthracene	**198.0**	**508.0**
Benzo(a)anthracene	**184.0**	**492.0**
Benzo(a)pyrene	**193.0**	**630.0**
Benzo(b)fluoranthene	**188.0**	**528.0**
Benzo(g,h,i)perylene	**108.0**	**370.0**
Benzo(k)fluoranthene	**89.7**	**177.0**
Chrysene	**178.0**	**517.0**
Dibenz(a,h)anthracene	**15.3**	**49.0**
Dibenzofuran	**124.0**	**26.3**
2,4-Dimethylphenol	< 1.2 ND	< 1.2 ND
Fluoranthene	**604.0**	**158.0**
Fluorene	**182.0**	**624.0**
Indeno(1,2,3-cd)pyrene	**90.0**	**225.0**
2-Methylnaphthalene	**339.0**	**808.0**
2-Methylphenol(o-Cresol)	**3.7**	<1.2 ND
3&4-Methylphenol(m&p-Cresol)	**5.3**	< 2.4 ND
Naphthalene	**1,690.0**	**674.0**
Phenanthrene	**1,100.0**	**356.0**
Phenol	**2.9**	< 1.2 ND
Pyrene	**706.0**	**234.0**
TOTAL PAH	**5,644.2**	**7,145.0**

Acronyms and Abbreviations:

ND = Non-detect
< = less than
mg/kg = milligrams per kilogram

Notes:

1. Bolded values indicate detections above the reporting limit

Table 2
VOC and SVOC Leaching Data
National Grid - North Albany Service Center
North Albany, New York

Soil 1 - Area 2 Soil				
MIX 37-3				
Method/Analyte	**Interval 5**	**Interval 10**	**Interval 15**	**Interval 20**
Method 8260B - Volatile Organic Compounds (µg/L)				
Benzene	**15.5**	**14.8**	**14.3**	**12.8**
Bromodichloromethane	**10.6**	**13.7**	**11.9**	**10**
Bromoform	<1.0	<1.0	<1.0	<1.0
Chloroform	**16.9**	**25.1**	**19.3**	**17.8**
Dibromochloromethane	**6.7**	**8.2**	**5.1**	**4.3**
Ethylbenzene	**28.2**	**27.1**	**25.8**	**25.8**
Methylene Chloride	<1.0	<1.0	<1.0	<1.0
Styrene	**3.9**	**4.1**	**3.9**	**3.6**
Toluene	**17.6**	**17.3**	**16.4**	**17.1**
m&p-Xylene	**16.7**	**15.7**	**15.2**	**15**
o-Xylene	**11.5**	**11**	**11**	**9.6**
Xylenes (total)	**28.2**	**26.8**	**26.2**	**24.6**
Method 8270C - Semivolatile Organic Compounds (µg/L)				
Acenaphthene	**7.2**	**8.2**	**10.8**	**14.3**
Acenaphthylene	**1.8**	**4.4**	**5.1**	**6.4**
Anthracene	**1.5**	**1.5**	**2**	**2.6**
Carbazole	**5.2**	**6.1**	**7.6**	**9.7**
Dibenzofuran	**2.8**	**2.9**	**4.1**	**4.1**
2,4-Dimethylphenol	<1.0	**8.3**	**5.7**	<1.0
Fluoranthene	**1.4**	**1.2**	**2**	**2.5**
Fluorene	**4.2**	**4.3**	**6**	**7**
1-Methylnaphthalene	**14.1**	**15.6**	**18.6**	<20.6
2-Methylnaphthalene	**16.7**	**18**	**21.8**	<20.6
2-Methylphenol(o-Cresol)	**3**	**6**	**3.8**	**3.6**
3&4-Methylphenol(m&p-Cresol)	**3.2**	**6.5**	**4.2**	**4**
Naphthalene	**226**	**202**	**276**	**263**
Phenanthrene	**9.2**	**9.5**	**12.4**	**9.6**
Phenol	<1.0	**1.8**	**1.2**	<1.0
Pyrene	**1.5**	**1.7**	**2.1**	**2.8**

Acronyms, Abbreviations, and Notes provided on Page 6.

Table 2
VOC and SVOC Leaching Data
National Grid - North Albany Service Center
North Albany, New York

Soil 1 - Area 2 Soil				
MIX 37-4				
Method/Analyte	**Interval 5**	**Interval 10**	**Interval 15**	**Interval 20**
Method 8260B - Volatile Organic Compounds (µg/L)				
Benzene	**9.4**	**4.2**	**4.5**	**3.4**
Bromodichloromethane	**10.7**	**14.2**	**12**	**10.3**
Bromoform	<1.0	4.5	<1.0	<1.0
Chloroform	**13.6**	**26.7**	**19.7**	**17.8**
Dibromochloromethane	**6.7**	**8.3**	**5.2**	**4.7**
Ethylbenzene	**19.9**	**8.5**	**6.9**	**4.9**
Methylene Chloride	<1.0	<1.0	<1.0	2.7
Styrene	**2.7**	**1.2**	**<1.0**	**<1.0**
Toluene	**10.7**	**5.1**	**4.1**	**3.2**
m&p-Xylene	**12.9**	**7**	**4**	**2.7**
o-Xylene	**8**	**4.4**	**2.7**	**1.5**
Xylenes (total)	**21**	**11.4**	**6.7**	**4.1**
Method 8270C - Semivolatile Organic Compounds (µg/L)				
Acenaphthene	**11.9**	**6.7**	**4.3**	**<1.0**
Acenaphthylene	**6.4**	**3.3**	**<1.0**	**<1.0**
Anthracene	**2.7**	**1.5**	**<1.0**	**<1.0**
Carbazole	**8.4**	**4.1**	**2.5**	**<1.0**
Dibenzofuran	**5.2**	**2.5**	**<1.0**	**<1.0**
2,4-Dimethylphenol	2.7	**<1.0**	**<1.0**	<1.0
Fluoranthene	**2.7**	**1.4**	**1.3**	**<1.0**
Fluorene	**7.2**	**3.9**	**2.1**	**<1.0**
1-Methylnaphthalene	**20**	**8.5**	**<1.0**	<1.0
2-Methylnaphthalene	**25.6**	**10.1**	**<1.0**	<1.0
2-Methylphenol(o-Cresol)	**1.9**	**<1.0**	**<1.0**	**<1.0**
3&4-Methylphenol(m&p-Cresol)	**2.3**	**<2.0**	**<2.0**	**<2.1**
Naphthalene	**284**	**69.8**	**3.2**	**5.2**
Phenanthrene	**17**	**5.4**	**<1.0**	**<1.0**
Phenol	<1.0	**<1.0**	**<1.0**	<1.0
Pyrene	**2.6**	**2.2**	**2.6**	**1.9**

Acronyms, Abbreviations, and Notes provided on Page 6.

Table 2
VOC and SVOC Leaching Data
National Grid - North Albany Service Center
North Albany, New York

Soil 1 - Area 2 Soil				
MIX 37-6				
Method/Analyte	**Interval 5**	**Interval 10**	**Interval 15**	**Interval 20**
Method 8260B - Volatile Organic Compounds (µg/L)				
Benzene	**10.1**	**6.8**	**4.8**	**4**
Bromodichloromethane	**10.7**	**14.5**	**12.3**	**10.7**
Bromoform	<1.0	4.6	<1.0	<1.0
Chloroform	**13.4**	**23.7**	**19.6**	**18.6**
Dibromochloromethane	**6.7**	**8.3**	**5.5**	**5**
Ethylbenzene	**22.3**	**13.4**	**8.8**	**5.9**
Methylene Chloride	<1.0	<1.0	<1.0	3
Styrene	**2.9**	**1.7**	**<1.0**	**<1.0**
Toluene	**12.2**	**10.4**	**5.4**	**4.6**
m&p-Xylene	**13.7**	**10.1**	**5.2**	**3.3**
o-Xylene	**8.4**	**5.4**	**3.2**	**1.6**
Xylenes (total)	**22**	**15.5**	**8.4**	**4.9**
Method 8270C - Semivolatile Organic Compounds (µg/L)				
Acenaphthene	**9.2**	**7.7**	**4.7**	**3.1**
Acenaphthylene	**4.6**	**3.6**	**1.5**	**<1.0**
Anthracene	**2.2**	**1.7**	**<1.0**	**<1.0**
Carbazole	**<1.0**	**4**	**<1.0**	**1.4**
Dibenzofuran	**3.5**	**2.8**	**<1.0**	**<1.0**
2,4-Dimethylphenol	1.7	**<1.0**	**<1.0**	<1.0
Fluoranthene	**2.5**	**1.2**	**1.5**	**<1.0**
Fluorene	**5.5**	**4.7**	**2.5**	**1.4**
1-Methylnaphthalene	**16.2**	**9.1**	**2.1**	<1.0
2-Methylnaphthalene	**19.8**	**11.7**	**2.1**	<1.0
2-Methylphenol(o-Cresol)	**1.1**	**<1.0**	**<1.0**	**<1.0**
3&4-Methylphenol(m&p-Cresol)	**<2.1**	**<2.0**	**<2.0**	**<2.1**
Naphthalene	**227**	**91.3**	**14.8**	**<1.0**
Phenanthrene	**13.1**	**5.8**	**<1.0**	**<1.0**
Phenol	<1.0	**<1.0**	**<1.0**	<1.0
Pyrene	**2.4**	**2.2**	**2.2**	**2.4**

Acronyms, Abbreviations, and Notes provided on Page 6.

Soil 2 - Purifier Waste				
MIX 37-8				
Method/Analyte	**Interval 5**	**Interval 10**	**Interval 15**	**Interval 20**
Method 8260B - Volatile Organic Compounds (µg/L)				
Benzene	**199**	**159**	**171**	**171**
Bromodichloromethane	**10.6**	**13.8**	**11.6**	**9.6**
Bromoform	<1.0	<1.0	<1.0	<1.0
Chloroform	**16.8**	**24.9**	**19.1**	**17.4**
Dibromochloromethane	**6.8**	**8.2**	**5**	**4.5**
Ethylbenzene	**130**	**99**	**97.5**	**93**
Methylene Chloride	<1.0	<1.0	<1.0	<1.0
Styrene	**17.9**	**13.6**	**13.1**	**11.5**
Toluene	**91.8**	**73.3**	**75.7**	**77.2**
m&p-Xylene	**43.6**	**32.7**	**30.2**	**28**
o-Xylene	**18.7**	**13.9**	**13.3**	**11.7**
Xylenes (total)	**62.3**	**46.6**	**43.6**	**39.8**
Method 8270C - Semivolatile Organic Compounds (µg/L)				
Acenaphthene	**18**	**19.7**	**18.4**	**<51.0**
Acenaphthylene	**<102**	**37.4**	**<51.0**	**<51.0**
Anthracene	**2.9**	**2.8**	**3.2**	**3**
Carbazole	**1.1**	**<1.0**	**1.1**	**1**
Dibenzofuran	**<1.0**	**<1.0**	**1.1**	**<1.0**
2,4-Dimethylphenol	<1.0	**<1.0**	**<1.0**	<1.0
Fluoranthene	**3.2**	**2.5**	**3.5**	**4.3**
Fluorene	**11**	**10.2**	**10.3**	**11**
1-Methylnaphthalene	**<102**	**26.6**	**<51.0**	<51.0
2-Methylnaphthalene	**<102**	**38**	**<51.0**	<51.0
2-Methylphenol(o-Cresol)	**<1.0**	**<1.0**	**<1.0**	**<1.0**
3&4-Methylphenol(m&p-Cresol)	**<2.0**	**<2.1**	**<2.0**	**<2.0**
Naphthalene	**964**	**711**	**637**	**755**
Phenanthrene	**<102**	**23.1**	**<51.0**	**18.5**
Phenol	<1.0	**<1.0**	**<1.0**	<1.0
Pyrene	**3.8**	**4.6**	**4.8**	**4.9**

Acronyms, Abbreviations, and Notes provided on Page 6.

Table 2
VOC and SVOC Leaching Data
National Grid - North Albany Service Center
North Albany, New York

Soil 2 - Purifier Waste				
MIX 37-11				
Method/Analyte	**Interval 5**	**Interval 10**	**Interval 15**	**Interval 20**
Method 8260B - Volatile Organic Compounds (µg/L)				
Benzene	**144**	**120**	**129**	**99.5**
Bromodichloromethane	**10.9**	**13.9**	**12.7**	**10.1**
Bromoform	<1.0	4.6	<1.0	<1.0
Chloroform	**16.5**	**25.1**	**20.5**	**17.4**
Dibromochloromethane	**6.9**	**8.2**	**5.4**	**4.6**
Ethylbenzene	**114**	**88.5**	**84.3**	**56.5**
Methylene Chloride	<1.0	<1.0	<1.0	<1.0
Styrene	**14.2**	**11**	**9.1**	**5.5**
Toluene	**74.6**	**57.7**	**57.4**	**42.5**
m&p-Xylene	**36**	**27**	**24.7**	**15.3**
o-Xylene	**14.9**	**11.1**	**10.2**	**6.1**
Xylenes (total)	**50.9**	**38.1**	**35**	**21.5**
Method 8270C - Semivolatile Organic Compounds (µg/L)				
Acenaphthene	**<1.0**	**<51.3**	**15.2**	**14.6**
Acenaphthylene	**<102**	**<51.3**	**<20.4**	**19.3**
Anthracene	**2.1**	**<51.3**	**1.9**	**1.1**
Carbazole	**<1.0**	**<51.3**	**<1.0**	**<1.0**
Dibenzofuran	**<1.0**	**<51.3**	**<1.0**	**<1.0**
2,4-Dimethylphenol	<1.0	**<51.3**	**<1.0**	<1.0
Fluoranthene	**2.3**	**<51.3**	**2.5**	**1.8**
Fluorene	**7.7**	**<51.3**	**7**	**4.8**
1-Methylnaphthalene	**17.9**	**<51.3**	**12.6**	7.8
2-Methylnaphthalene	**<102**	**<51.3**	**14.8**	6.9
2-Methylphenol(o-Cresol)	**<1.0**	**<51.3**	**<1.0**	**<1.0**
3&4-Methylphenol(m&p-Cresol)	**<2.0**	**<103**	**<2.0**	**<2.0**
Naphthalene	**754**	**616**	**354**	**249**
Phenanthrene	**16.9**	**<51.3**	**8.4**	**2.7**
Phenol	<1.0	**<51.3**	**<1.0**	<1.0
Pyrene	**<1.0**	**<51.3**	**4.4**	**2.2**

Acronyms, Abbreviations, and Notes provided on Page 6.

Table 2
VOC and SVOC Leaching Data
National Grid - North Albany Service Center
North Albany, New York

Soil 2 - Purifier Waste				
MIX 37-12				
Method/Analyte	**Interval 5**	**Interval 10**	**Interval 15**	**Interval 20**
Method 8260B - Volatile Organic Compounds (µg/L)				
Benzene	**85.7**	**81.5**	**71.8**	**66.9**
Bromodichloromethane	**10.3**	**13.7**	**11.2**	**10.5**
Bromoform	<1.0	4.6	<1.0	<1.0
Chloroform	**15.4**	**24.6**	**19.2**	**18.2**
Dibromochloromethane	**6.5**	**8.3**	**5.3**	**4.5**
Ethylbenzene	**78.4**	**58**	**45.1**	**35.9**
Methylene Chloride	<1.0	<1.0	<1.0	<1.0
Styrene	**9.1**	**7.5**	**5.2**	**3.2**
Toluene	**47.6**	**37.4**	**31**	**26.8**
m&p-Xylene	**26.1**	**18.9**	**14.9**	**10.5**
o-Xylene	**10.6**	**7.5**	**6.3**	**4**
Xylenes (total)	**36.7**	**26.4**	**21.2**	**14.5**
Method 8270C - Semivolatile Organic Compounds (µg/L)				
Acenaphthene	**12.9**	**<51.3**	**12.3**	**4.9**
Acenaphthylene	**<104**	**<51.3**	**18.6**	**<1.0**
Anthracene	**2.2**	**<51.3**	**1.8**	**<1.0**
Carbazole	**<1.0**	**<51.3**	**<1.0**	**<1.0**
Dibenzofuran	**<1.0**	**<51.3**	**<1.0**	**<1.0**
2,4-Dimethylphenol	<1.0	**<51.3**	**<1.0**	<1.0
Fluoranthene	**2.6**	**<51.3**	**2.2**	**<1.0**
Fluorene	**8**	**<51.3**	**6.5**	**1.3**
1-Methylnaphthalene	**16.1**	**<51.3**	**10.8**	<1.0
2-Methylnaphthalene	**<104**	**<51.3**	**13.9**	<1.0
2-Methylphenol(o-Cresol)	**<1.0**	**<51.3**	**<1.0**	**<1.0**
3&4-Methylphenol(m&p-Cresol)	**<2.0**	**<103**	**<2.0**	**<2.0**
Naphthalene	**626**	**487**	**299**	**6.2**
Phenanthrene	**18.5**	**<51.3**	**8**	**<1.0**
Phenol	<1.0	**<51.3**	**<1.0**	<1.0
Pyrene	**3.4**	**<51.3**	**3.5**	**1.2**

Acronyms and Abbreviations:

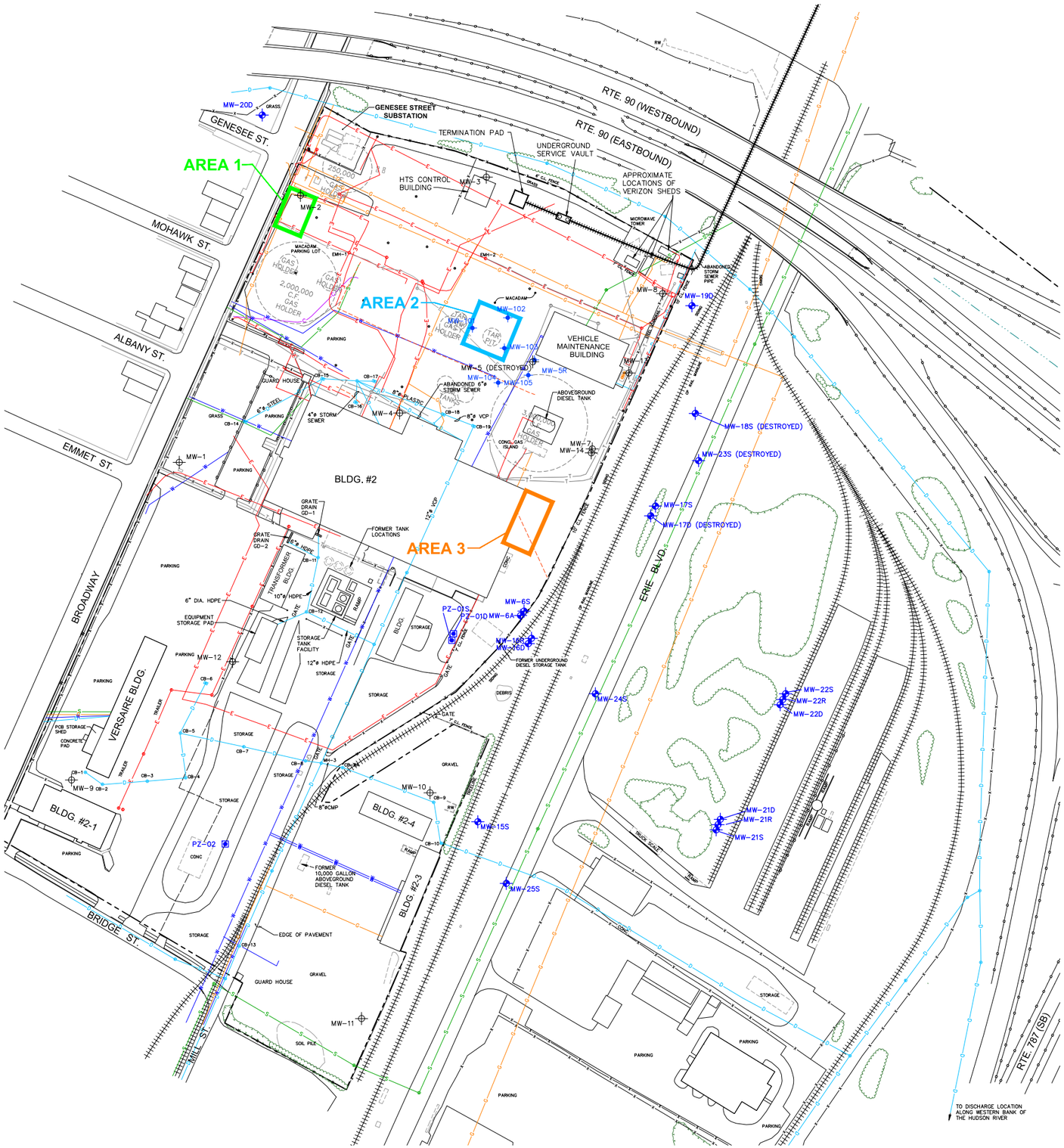
µg/L = microgram per liter

< = less than

Notes:

1. Testing performed by Pace Analytical Services (Pace), Inc. of Greensburg, Pennsylvania for monolith leaching testing.
2. Bolded values indicate detections above the reporting limit

FIGURES



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- MW-105 PILOT-TEST MONITORING WELL LOCATION
- MW-28S ADDITIONAL GROUNDWATER INVESTIGATION GROUNDWATER MONITORING WELL LOCATION
- MW-15S MGP/RCRA GROUNDWATER MONITORING WELL LOCATION
- PZ-01S MGP/RCRA PIEZOMETER LOCATION
- MW-11 PSA/IRM GROUNDWATER MONITORING WELL PROGRAM
- UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING UNKNOWN UTILITY MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE
- UNKNOWN UTILITY

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
2. LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON-SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLE) WERE DIGITIZED FROM NMPC DRAWING NO. D-29734-E, FILE INDEX NO. 20.3-A1.1-B2, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN - PAVING (OUTSIDE FENCE). LOCATIONS OF NATURAL GAS MAINS ARE APPROXIMATED BASED ON FIELD OBSERVATIONS DURING UTILITY LOCATING ACTIVITIES. ACTUAL LOCATIONS OF UNDERGROUND GAS UTILITIES MUST BE DETERMINED PRIOR TO IMPLEMENTING SUBSURFACE WORK ACTIVITIES.
3. LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM A SURVEY CONDUCTED BY NMPC DURING JULY/AUGUST 1997.
4. LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.

0 100' 200'
GRAPHIC SCALE

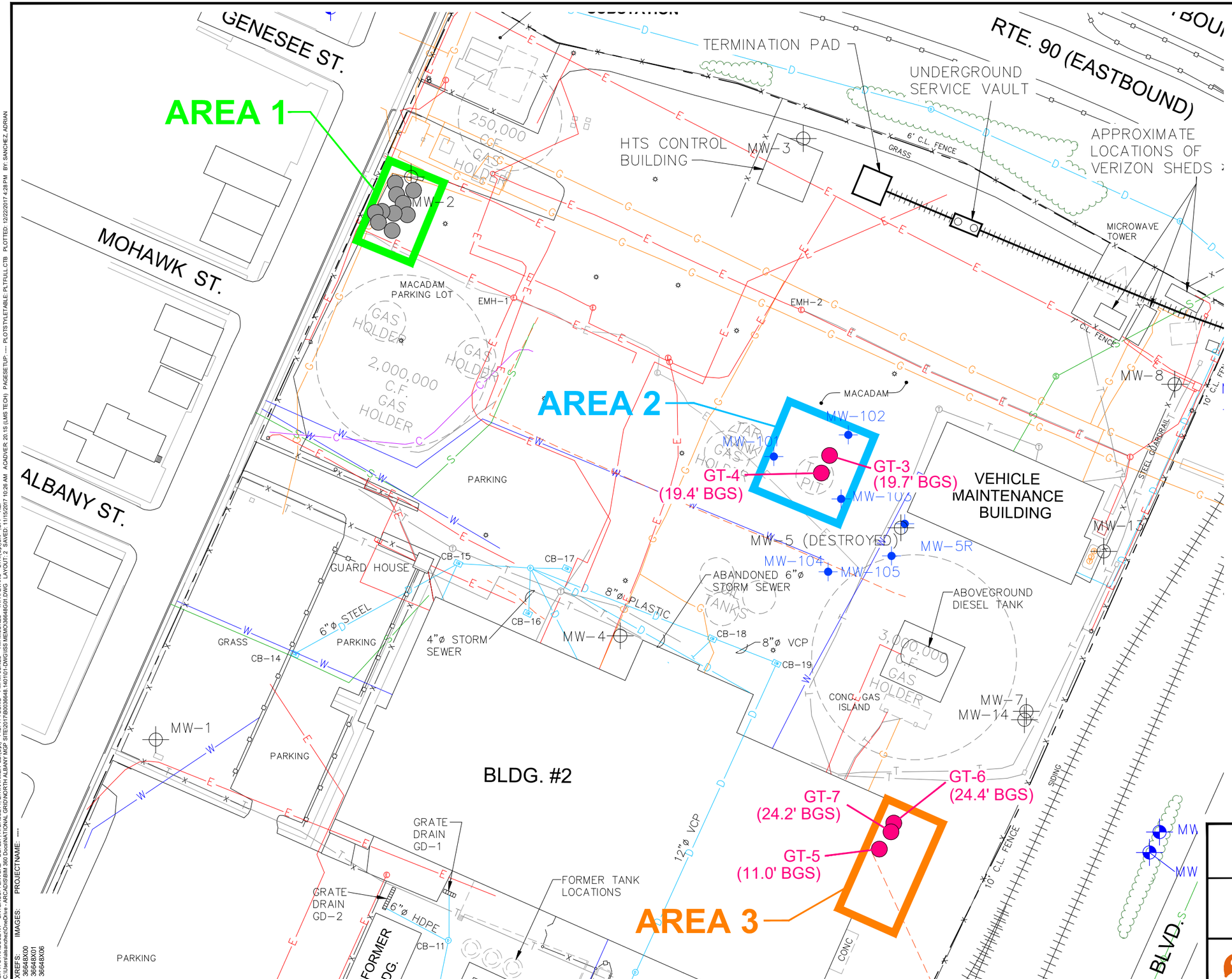
NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
PDI SUMMARY REPORT

ISS INVESTIGATION AREAS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: SYRACUSE NY DIV/GROUP: ENVCAD DB: LJP, R. BASSETT, E. KRAHMER LD:(Opt) PIC: T. YOUNG PM: M. JONES TM: M.JONES TR: A. EVANS LYR:(Opt)ON=*;OFF=*REF*
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LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- MW-105 — PILOT-TEST MONITORING WELL LOCATION
- MW-28S — ADDITIONAL GROUNDWATER INVESTIGATION GROUNDWATER MONITORING WELL LOCATION
- MW-15S — MGP/RCRA GROUNDWATER MONITORING WELL LOCATION
- PZ-01S — MGP/RCRA PIEZOMETER LOCATION
- MW-11 — PSA/IRM GROUNDWATER MONITORING WELL PROGRAM
- UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING UNKNOWN UTILITY MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE
- UNKNOWN UTILITY
- GT-3 (19.7' BGS) — GEOTECHNICAL BORING
- ATTEMPTED BORING LOCATIONS, UNABLE TO CLEAR LOCATIONS TO 5' BGS

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
2. LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON-SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLE) WERE DIGITIZED FROM NMPC DRAWING NO. D-29734-E, FILE INDEX NO. 20.3-A1.1-B2, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN - PAVING (OUTSIDE FENCE). LOCATIONS OF NATURAL GAS MAINS ARE APPROXIMATED BASED ON FIELD OBSERVATIONS DURING UTILITY LOCATING ACTIVITIES. ACTUAL LOCATIONS OF UNDERGROUND GAS UTILITIES MUST BE DETERMINED PRIOR TO IMPLEMENTING SUBSURFACE WORK ACTIVITIES.
3. LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM A SURVEY CONDUCTED BY NMPC DURING JULY/AUGUST 1997.
4. LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.

0 40' 80'
GRAPHIC SCALE

NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
PDI SUMMARY REPORT

SOIL BORING LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: SYRACUSE NY DIV/GROUP: ENV/CAD DB: LJP, R. BASSETT, E. KRAHMER LD:(Opt) PIC: T. YOUNG PM: M. JONES TM: M.JONES TR: A. EVANS LYR:(Opt)ON*;OFF=*REF*
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APPENDIX A

Soil Boring Logs

Date Start/Finish: 8/1/2012 - 8/1/2012
Drilling Company: Parrott-Wolff
Driller's Name: Lee Penrod and D Bobbitt
Drilling Method: 3 1/4" HSA
Auger Size: 4.25" ID
Rig Type: IR-8300
Sampling Method: 3" x 2' Split Spoon

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 19.7' bgs
Surface Elevation: NA

Descriptions By: Joshua Oliver

Well/Boring ID: **GT-03**

Client: National Grid

Location: North Albany Service Center
Former MGP Site
Albany , NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-5	NA	NA	NA	NA		Hand-cleared to 5' bgs	
5	-5	2	5-7	1.3	4 7 9 6	16	489.0		Dark brown(7.5YR 2.5/1) fine SAND and SILT, trace Clay and fine subangular Gravel, cobble, poorly sorted, moist to wet, dense, saturated with oil-like material, strong odor.	
		3	7-9	0.6	5 2 3 4	5	382.0			
					5		291.0		Wood fibers;9'-9.4' bgs	
10	-10	4	9-11	1.8	7 13 12	20	28.9		Greenish-grey fine SAND, some fine subangular Gravel and little Silt, poorly sorted, wet, loose to medium dense, faint odor. (Gley1 6/10Y) Seam of black saturated oil like material at 10.3' bgs	
		5	11-13	1.0	10 19 15 9	34	202.0 69.3		Oil like material; 11.0'-11.8'bgs Brown-yellow (10YR 6/6) CLAY, some Silt and little fine Sand, wet, medium stiff, oil-like material blobs throughout, cobble at 11.9' bgs. Greenish gray fine SAND, some Silt, trace Clay and fine subangular Gravel, poorly sorted, wet, medium dense, odor, seam of oil-like material throughtout. (Gley1 6/10Y)	
		6	13-15	1.0	6 8 12 12	20	191.0 84.0		Greenish Gray fine subangular GRAVEL, some fine Sand, trace Silt, well sorted, wet, loose, faint odor. (Gley1 5/10Y)	
15	-15	7	15-17	1.6	9 15	30	28.0			

Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

ARCADIS
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Client: National Grid

Well/Boring ID: GT-03

Borehole Depth: 19.7' bgs

Site Location:
North Albany Service Center
Former MGP Site
Albany , NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	7	15-17	1.6	15 15	30	25.0 203.0		Medium to coarse SAND and fine subangular GRAVEL, trace Silt, Shale fragments, wet, loose, oil-like material throughout, strong odor. (Gley1 5/N)	
	8	17-19	2.0	11 17 20 45	37	399.0		Dark gray weathered SHALE, trace fine sand and Silt, wet, oil-like material throughout, strong odor. (Gley1 5/N)	
	9	19-19.7	0.7	32 50/0.2	NA	151.0		Boring refusal at 19.7'bgs	
20 -20									
25 -25									
30 -30									
35 -35									

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Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

Date Start/Finish: 7/31/2012 - 7/31/2012
Drilling Company: Parrott-Wolff
Driller's Name: Lee Penrod and D Bobbitt
Drilling Method: 3 1/4" HSA
Auger Size: 4.25" ID
Rig Type: IR-8300
Sampling Method: 3" x 2' Split Spoon

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 19.4' bgs
Surface Elevation: NA

Descriptions By: Joshua Oliver

Well/Boring ID: **GT-04**

Client: National Grid

Location: North Albany Service Center
Former MGP Site
Albany , NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-5	NA	NA	NA	NA		Hand-cleared to 5' bgs	
5	-5	2	5-7	1.7	6 6 9 50/4	15	525.0		Dark-brown(7.5YR 2.5/1) medium to coarse SAND, little fine Sand and fine subangular Gravel, poorly sorted, loose, Cobble at 5.4' bgs and in shoe at 6.7' bgs, oil-like material thoughout, strong odor, saturated.	
		3	7-9	2.0	7 7 9 11	16	1100.0		Dark-brown(7.5YR 2.5/1) fine SAND and some fine subangular Gravel, poorly sorted, wet, loose, saturated with oil-like material, strong odor. Wood fibers at 9.6' bgs	
10	-10	4	9-11	1.5	5 4 7 8	11	858.0		Greenish-grey fine SAND, some fine subangular Gravel and traced Silt, poorly sorted, wet, medium dense, faint odor. (Gley1 6/10Y)	
		5	11-13	1.4	12 13 13 10	26	159.0		Brown-yellow CLAY(10YR 6/6), little fine Sand, trace fine subangular Gravel and Silt, moist, medium plastic, medium stiff, seam of black oil-like material; 11.8'-11.9' bgs. Greenish-grey fine SAND, some Silt, trace Clay and fine subangular Gravel, wet, poorly sorted, dense, faint odor. (Gley1 6/10Y)	
		6	13-15	2.0	10 13 12 10	25	51.0		Seams of black oil-like material, strong odor; 14.2'-15' bgs	
15	-15	7	15-17	2.0	10 12	25	57.0		Brownish-grey(10YR 6/2) SILT, some fine Sand and little fine subangular Gravel, wet, soft, black oil-like material in water.	

Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

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Client: National Grid

Well/Boring ID: **GT-04**

Borehole Depth: 19.4' bgs

Site Location:
North Albany Service Center
Former MGP Site
Albany , NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	7	15-17	2.0	13 13	25	57.0		Brownish-grey(10YR 6/2) medium to coarse SAND and some fine subangular Gravel, trace Silt, wet, medium dense. Trace weathered Shale; 16.7'-17'bgs Black oil-like material blobs and odor;17'-17.8' bgs.	
	8	17-19	1.1	13 17 17 19	34	66.0		Grey weathered SHALE fragments, trace Silt, fine Sand, wet, odor, black oil-like material blobs. (Gley1 5/N)	
	9	19-19.4	0.1	50/4	NA	50.0		Boring refusal at 19.4' bgs.	
20 -20									
25 -25									
30 -30									
35 -35									

Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

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Date Start/Finish: 8/2/2012 - 8/2/2012
Drilling Company: Parrott-Wolff
Driller's Name: Lee Penrod and D Bobbitt
Drilling Method: 3 1/4" HSA
Auger Size: 4.25" ID
Rig Type: IR-8300
Sampling Method: 3" x 2' Split Spoon

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 11' bgs
Surface Elevation: NA

Descriptions By: Joshua Oliver

Well/Boring ID: **GT-05**

Client: National Grid

Location: North Albany Service Center
Former MGP Site
Albany , NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-5	NA	NA	NA	NA		Hand-cleared to 5' bgs	
5	-5	2	5-7	0.6	6 5 5 5	10	0.0		Dark brown(7.5YR 3/3) SILT, little fine Sand and trace fine subangular gravel, moist, loose.	
		3	7-9	2.0	2 3 3 6	6	1.1		Light brown(10YR 6/2) mottled CLAY and trace Silt, moist, high plasticity, medium stiff.	
10	-10	4	9-11	2.0	2 3 4 4	7	5.8 203 53		Dark brown(10YR 3/3) CLAY, little Silt and trace fine Sand, moist, medium plasticity, medium stiff to soft, odor, laminations of black tar-like material and wood flakes at 10' bgs.	
									Boring terminated at 11' bgs	
15	-15									

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Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

Date Start/Finish: 8/1/2012 - 8/1/2012
Drilling Company: Parrott-Wolff
Driller's Name: Lee Penrod and D Bobbitt
Drilling Method: 3 1/4" HSA
Auger Size: 4.25" ID
Rig Type: IR-8300
Sampling Method: 3" x 2' Split Spoon

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 24.4' bgs
Surface Elevation: NA

Descriptions By: Joshua Oliver

Well/Boring ID: **GT-06**

Client: National Grid

Location: North Albany Service Center
Former MGP Site
Albany , NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-5	NA	NA	NA	NA		Hand-cleared to 5' bgs	
5	-5	2	5-7	1.0	8 5 6 7	11	0.0		Reddish brown (2.5YR 4/4) medium to coarse SAND, some fine Sand, trace Silt and trace brick, poorly sorted, moist. Brown-gray (10YR 6/8) mottled CLAY and trace Silt, moist, high plasticity, medium stiff.	
		3	7-9	1.7	4 4 9 8	13	11.0 108.0 868.0		Faint Odor Dark brown WOOD FLAKES, saturated with tar-like material after 8.1' bgs, high plasticity, strong odor.	
10	-10	4	9-11	1.9	3 4 5 6	9	799.0 28.0 5.5		Silt content increasing with depth. Dark brown(10YR 3/3) CLAY, trace Silt and fine Sand, moist to wet, medium plastic, medium stiff, trace roots.	
		5	11-13	2.0	5 8 14 18	22	NA		Silt content varying Greenish gray CLAY, some Silt, fine Sand and trace subangular Gravel, moist, low plasticity, stiff, tar-like material at 12.4' bgs. (Gley1 6/10GY)	
		6	13-15	1.3	7 16 16 15	32	5.0 5.2		Bluish-grey medium to coarse SAND, fine Gravel, trace Silt and fine Sand, poorly sorted, wet, no odor. (Gley2 5/10B)	
15	-15	7	15-17	1.3	18 23	37	2.0		Cobble at 15.3', 15.4' and 15.8' bgs	

Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

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Client: National Grid

Well/Boring ID: GT-06

Borehole Depth: 24.4' bgs

Site Location:
North Albany Service Center
Former MGP Site
Albany , NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	7	15-17	1.3	15 8	37	2.0		Bluish-grey medium to coarse SAND, fine Gravel, trace Silt and fine Sand, poorly sorted, wet, no odor. (Gley2 5/10B)	
	8	17-19	1.5	4 4 4 11	8	12.1		Medium SAND and some fine to coarse SAND, well sorted, wet, loose. (Gley1 3/5GY)	
20 -20	9	19-21	0.8	6 19 18 10	37	2.1		Dark grey weathered SHALE, cooble. (Gley1 5/N)	
	10	21-23	1.7	10 20 20 19	40	2.9		Fine SAND, well sorted, wet, loose to medium loose, coarsening with depth; from fine sand to coarse sand. (Gley1 3/5Y)	
	11	23-24.4	1.4	11 13 50/0.4	NA	3.1 29.9		Dark grey weathered SHALE, little fine Sand and trace Silt, dense, odor, sheen, cobble at 22.6'-22.7' bgs. (Gley1 5/N) Black Oil-like material at 23.7' bgs.	
25 -25								Drilling refusal at 24.4' bgs.	
30 -30									
35 -35									

Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

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Date Start/Finish: 8/2/2012 - 8/2/2012
Drilling Company: Parrott-Wolff
Driller's Name: Lee Penrod and D Bobbitt
Drilling Method: 3 1/4" HSA
Auger Size: 4.25" ID
Rig Type: IR-8300
Sampling Method: 3" x 2' Split Spoon

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 24.2' bgs
Surface Elevation: NA

Descriptions By: Joshua Oliver

Well/Boring ID: **GT-07**

Client: National Grid

Location: North Albany Service Center
Former MGP Site
Albany , NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-5	NA	NA	NA	NA		Hand-cleared to 5' bgs.	
5	-5	2	5-7	0.9	5 4 5 5	9	0.0		Dark brown(7.5YR 3/3) SILT, little fine Sand and fine subangular Gravel, moist, loose. Light brown grey(10YR 6/2) mottled CLAY and trace Silt, moist, high plasticity, medium stiff.	
		3	7-9	1.8	3 3 4 8	7	0.7 607.0		Black to Dark Brown WOOD FLAKES, saturated tar-like material, high plasticity, strong odor, black staining at 9.6'-9.9' bgs	
10	-10	4	9-11	1.7	3 3 4 4	7	879.0		Dark Brown(10YR 3/3) CLAY, little-trace Silt and fine Sand, moist to wet, medium stiff to soft.	
		5	11-13	1.2	4 4 11 12	15	150.0 22.0		Greenish gray CLAY, some Silt, green tinted fine Sand, trace fine subangular Gravel, moist to wet, low plasticity, stiff. (Gley1 6/10GY)	
									Greenish grey CLAY and SIlt, little fine Sand, fine subangular Gravel, poorly sorted, wet, soft. (Gley2 6/10GY)	
15	-15	6	13-15	1.4	4 7 7 9	14	25.0		Bluish gray medium to coarse SAND and fine GRAVEL, some trace Silt , Sand and Clay, poorly sorted, wet, medium dense, odor at 15'-15.4' bgs. (Gley2 5/10B)	
		7	15-17	1.4	6 11	26	20		Very dark brown(7.5YR 2.5/2) medium to coarse Sand and fine subangular GRAVEL, trace Silt and fine Sand, poorly sorted, wet, faint odor, loose to medium dense.	

Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

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Client: National Grid

Well/Boring ID: GT-07

Borehole Depth: 24.2' bgs

Site Location:
North Albany Service Center
Former MGP Site
Albany , NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	7	15-17	1.4	15 9	26	3		Very dark brown(7.5YR 2.5/2) medium to coarse Sand and fine subangular GRAVEL, trace Silt and fine Sand, poorly sorted, wet, faint odor, loose to medium dense.	
	8	17-19	1.5	3 4 9 12	13	0.1		Dark Grey medium SAND and little Sand, well sorted, wet, loose. (Gley1 3/5Y)	
20 -20	9	19-21	2.0	17 11 15 12	26	170.0 5.0		Dark Grey medium to coarse SAND, trace fine Sand and Silt, well sorted, wet, loose, fining with depth. (Gley1 3/5Y) Dark grey fine SAND and SILT, little medium to coarse Sand and shale, poorly sorted, wet, medium loose, cobble at 20.6' bgs. (Gley1 3/5Y)	
	10	21-23	1.7	7 7 5 7	12	5.2 8.1		Dark Grey fine SAND, trace silt, wet, loose, faint odor. (Gley1 3/5Y) Dark grey medium to coarse SAND and fine GRAVEL, trace Silt, fine Sand, poorly sorted, wet, loose, faint odor. (Gley1 3/5Y)	
	11	23-24.4	1.2	12 15 50/0.2	NA	0.0		Dark grey weathered SHALE, trace medium to fine Sand and Silt, dense. (Gley1 5/N) Drilling refusal at 24.2' bgs.	
25 -25									
30 -30									
35 -35									

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Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery

APPENDIX B

February 6, 2013 Geophysical Survey Letter Report

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ENVIRONMENT

Mr. James F. Morgan
Lead Senior Environmental Engineer
National Grid
300 Erie Boulevard West
Syracuse, New York 13202

Subject:
North Albany Former MGP Site
GPR Results Summary

Date:
February 6, 2013

Contact:
Raymond Wagner

Phone:
315 671 9150

Email:
Ray.Wagner@arcadis-us.com

Our ref:
B0036648.0000.00024
#5

Dear Mr. Morgan:

This letter report presents the results for a geophysical survey that was completed at the National Grid North Albany Former MGP site on September 25 and 26, 2012. The geophysical survey was conducted to evaluate potential subsurface obstructions/foundations in the parking lot area located in the northwest portion of the former MGP area. The geophysical survey area is shown on Figure 1. The geophysical survey utilized ground penetrating radar (GPR) to identify the location of possible underground structures and/or other potential obstructions in the survey area. The GPR survey was performed over two consecutive days, during the hours from approximately 3 to 8 PM when fewer vehicles were present in the parking lot.

Equipment and Procedures

GPR is a non-intrusive survey method used to identify objects below the ground surface. The GPR survey was performed using a Subsurface Interfacing Radar (SIR) System-3000, manufactured by Geophysical Survey Systems, Inc. (GSSI). The equipment consisted of:

- A 400-megahertz (MHZ) antenna.
- A digital control unit equipped with a color monitor.
- A survey cart equipped with a survey wheel.

A temporary control grid was established over the survey area using existing site features and highway cones to provide horizontal control in the parking lot. The survey area was approximately one acre in size, with approximate dimensions of 180 feet (east-west) by 250 feet (north-south). On September 25, 2012, GPR data was collected along 78 east-west survey lines spaced at about 3-foot intervals. GPR data collected continuously along these lines, reviewed on the color monitor and stored in the digital control unit for subsequent data processing. GPR data was also collected

along 54 north-south survey lines spaced at about 3-foot intervals on September 26, 2010 using the same survey procedures. The GPR data acquisition logs (field notes) for this project are included as an attachment to this letter. At the completion of the field survey, the GPR data for each survey line was downloaded, stored, and processed using RADAN, Version 6.6 GPR software.

Data Processing and Analysis

GPR data were processed by combining the survey lines and compiling a 3D file for both of the survey orientations. Each 3D file was subjected to the following processing:

- Position Correction (time-0) – adjustment of signal to actual ground surface location.

- Deconvolution – digital signal processing function to attenuate multiples and improve recognition and resolution of reflected events.

- Gain adjustment – adjustment in signal amplitude to enhance low signal response or signal attenuation.

Once processed, each 3D data file was evaluated for subsurface structures and/or potential obstructions using time slice (vertical depth) views of the GPR data. Vertical depth slices were evaluated at 1 foot intervals from the ground surface to a depth of approximately 9 feet below ground surface (bgs) for high amplitude reflected signal responses that are characteristic of subsurface metal, reinforced concrete, buried utility lines and fill materials with miscellaneous fill materials (various construction debris). A summary of the survey results is provided below.

Summary of GPR Survey Results

GPR results were interpreted using RADAN 3D QuickDraw, which allows multiple GPR lines to be combined and compiled as a three-dimensional (3D) display. This has the advantage of looking at the entire survey area at once, and allows the creation of plan view maps at varying depths as well as perspective views.

The subsurface materials are generally characteristic of urban fill materials, and were interpreted to contain a high percentage of concrete, brick, and masonry stone debris. Areas with concrete potentially containing reinforcing bar (re-bar) and other metal debris were characterized by high amplitude reflections, which are displayed in grey and white on the GPR response figures. Areas potentially containing brick,

masonry stone, and non-reinforced concrete are typically lower amplitude reflections, which are displayed in reds, green-blue, and black on the GPR response figures.

Generally, most of the GPR survey area exhibited either the high or low amplitude GPR anomalies, indicating that a large percentage of the survey area contains fill debris containing concrete, brick and metal debris. These fill materials are known to extend to a depth of greater than 4 feet in portions of the site, but interpretation of the data was limited due to increased noise in the GPR data below 4 feet. The approximate extents of these potential obstructions have been outlined for each of the depth intervals (2, 3 and 4 feet) and are shown on Figures 2, 3 and 4, respectively. Areas interpreted with possible obstructions were observed in the south and southwestern areas; in the central portion of the site, and in the northwest corner of the survey area. These features were observed to range in depth from about 2 to 4 feet bgs in the southern central half of the site; however, deeper features (i.e., possible foundations) potentially associated with former structures were observed to extend to an approximate depth of approximately 5 to 7 feet bgs. The north, east and northeastern areas of the site also exhibited potential obstructions consisting of brick, non-reinforced concrete or masonry stone, and debris materials to a depth of at least 4 feet below grade.

Potential underground utility trenches and piping were also observed in the survey area at several locations in the survey area at depths ranging from about 3 to 4 feet bgs. The interpreted locations of these utilities are highlighted on Figure 5.

Limitations of GPR Survey

This geophysical survey was performed using trained personnel and following accepted operating procedures for GPR. As with other geophysical methods, the detection and location of subsurface features using GPR are based on data quality, site conditions and interpretation. All potential anomaly locations, obstructions, utilities and other subsurface features identified during this survey should be confirmed by additional methods (e.g., hand clearing, soil borings or air knife) to confirm the actual anomaly type, location and depth.

All depths to anomaly locations, underground utilities and other subsurface features identified using GPR are approximate. Due to site soil conditions, pipe diameter, and depth, GPR may not detect plastic, clay, concrete and other non-metallic pipes. Additional methods and procedures should be used, where necessary, to confirm the presence of these utilities prior to all intrusive activities.

Please contact us if you have any questions regarding the information or findings presented in this report.

Sincerely,

ARCADIS of New York, Inc.

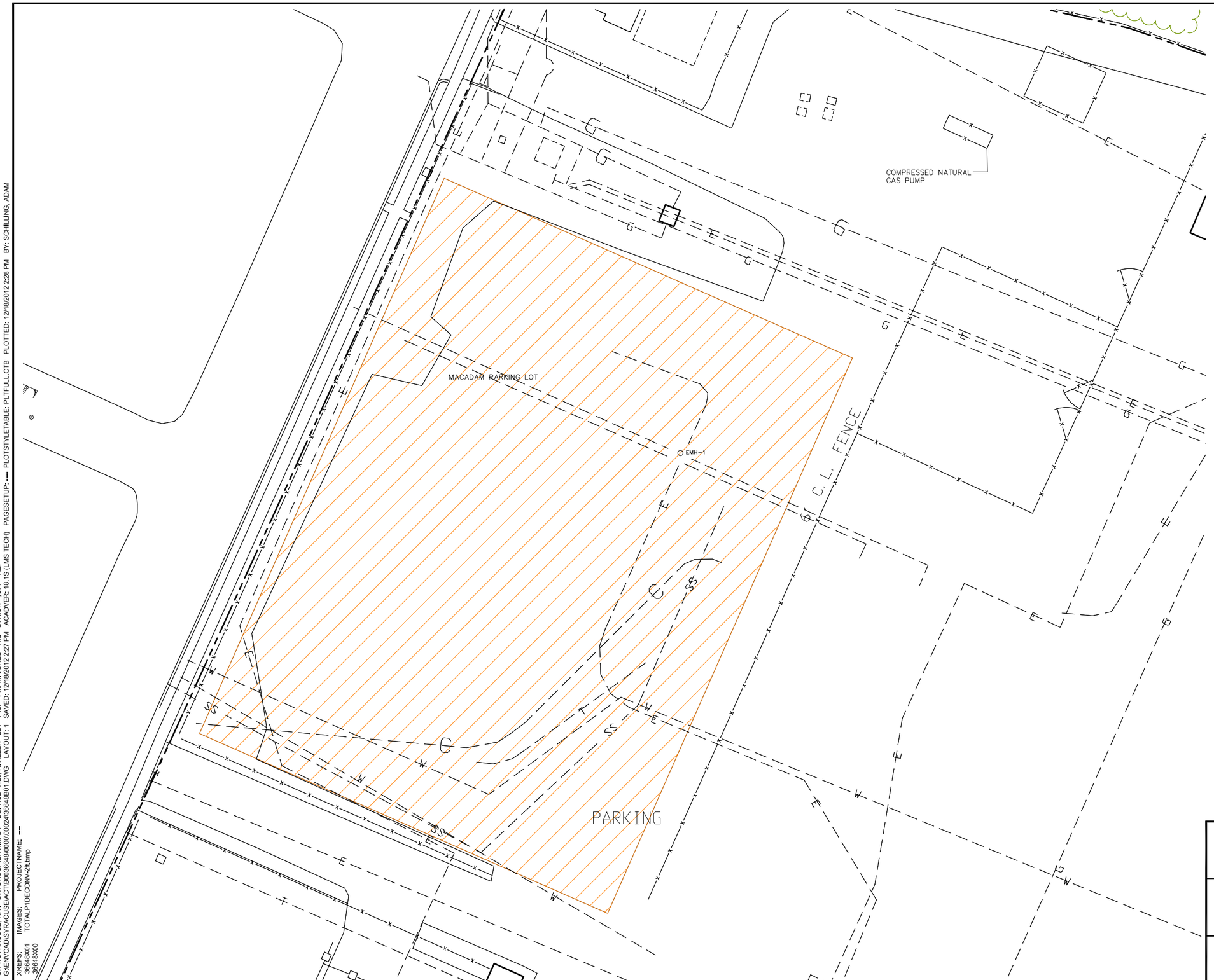
Raymond A. Wagner
Senior Geologist

Attachments:
Figure 1 – GPR Survey Area
Figure 2 – GPR Response at 2 Feet
Figure 3 – GPR Response at 3 Feet
Figure 4 – GPR Response at 4 Feet
Figure 5 – Possible Utility Lines Identified by GPR
GPR Data Acquisition Logs

Copies:
Michael C. Jones, ARCADIS

ARCADIS

Figures



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- HISTORICAL SITE FEATURE
- APPROXIMATE PROPERTY LINE
- EMH-1 EXISTING ELECTRICAL MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE
- GPR AREA – 3 FT. LINE SPACING (N–S AND E–W)

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS AND PSA/IRM SAMPLING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C–29736–C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP – INDEX SHEET.
2. LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON–SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLE) WERE DIGITIZED FROM NMPC DRAWING NO. D–29734–E, FILE INDEX NO. 20.3–A1.1–B2, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN – PAVING (OUTSIDE FENCE). LOCATIONS OF NATURAL GAS MAINS ARE APPROXIMATED BASED ON FIELD OBSERVATIONS DURING UTILITY LOCATING ACTIVITIES. ACTUAL LOCATIONS OF UNDERGROUND GAS UTILITIES MUST BE DETERMINED PRIOR TO IMPLEMENTING SUBSURFACE WORK ACTIVITIES.
3. LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM A SURVEY CONDUCTED BY NMPC DURING JULY/AUGUST 1997.
4. LOCATIONS OF OFF–SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.

0 20' 40'
GRAPHIC SCALE

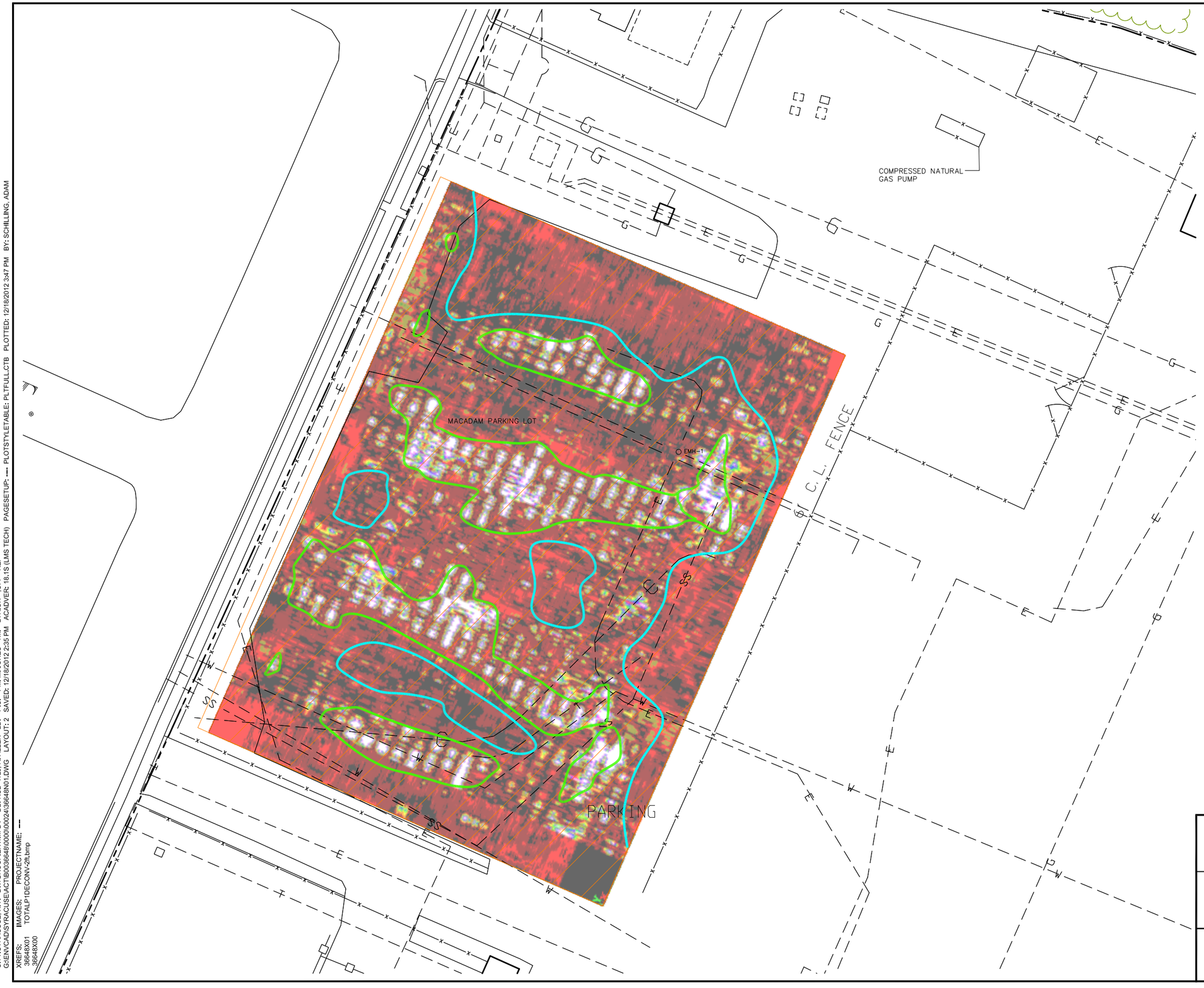
NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
FEASIBILITY STUDY REPORT

GPR SURVEY AREA

ARCADIS

FIGURE
1

CITY:SYRACUSE, N.Y. DIV/GROUP:ENV/IM-DIV DB: RCB WLJ, R. ALLEN LD: PIC: PM: M. JONES TM: LYR:ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIB0036849\0000\0002413664B01.DWG LAYOUT: 1 SAVED: 12/18/2012 2:27 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/18/2012 2:28 PM BY: SCHILLING, ADAM
XREFS: IMAGES: PROJECTNAME: ---
36648X01 TOTALP1DECONV-2ft.bmp
36648X00



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- HISTORICAL SITE FEATURE
- APPROXIMATE PROPERTY LINE
- EMH-1 EXISTING ELECTRICAL MANHOLE
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- ELECTRICAL LINE
- GAS LINE
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- POTENTIAL OBSTRUCTIONS: CONCRETE WITH RE-BAR, FILL MATERIALS WITH METALLIC DEBRIS (HIGH AMPLITUDE GPR RESPONSE)
- POTENTIAL OBSTRUCTIONS: BRICK, MASONRY AND NON-METALLLIC FILL MATERIALS AND DEBRIS (LOW AMPLITUDE GPR RESPONSE)

NOTES:

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0 20' 40'
GRAPHIC SCALE

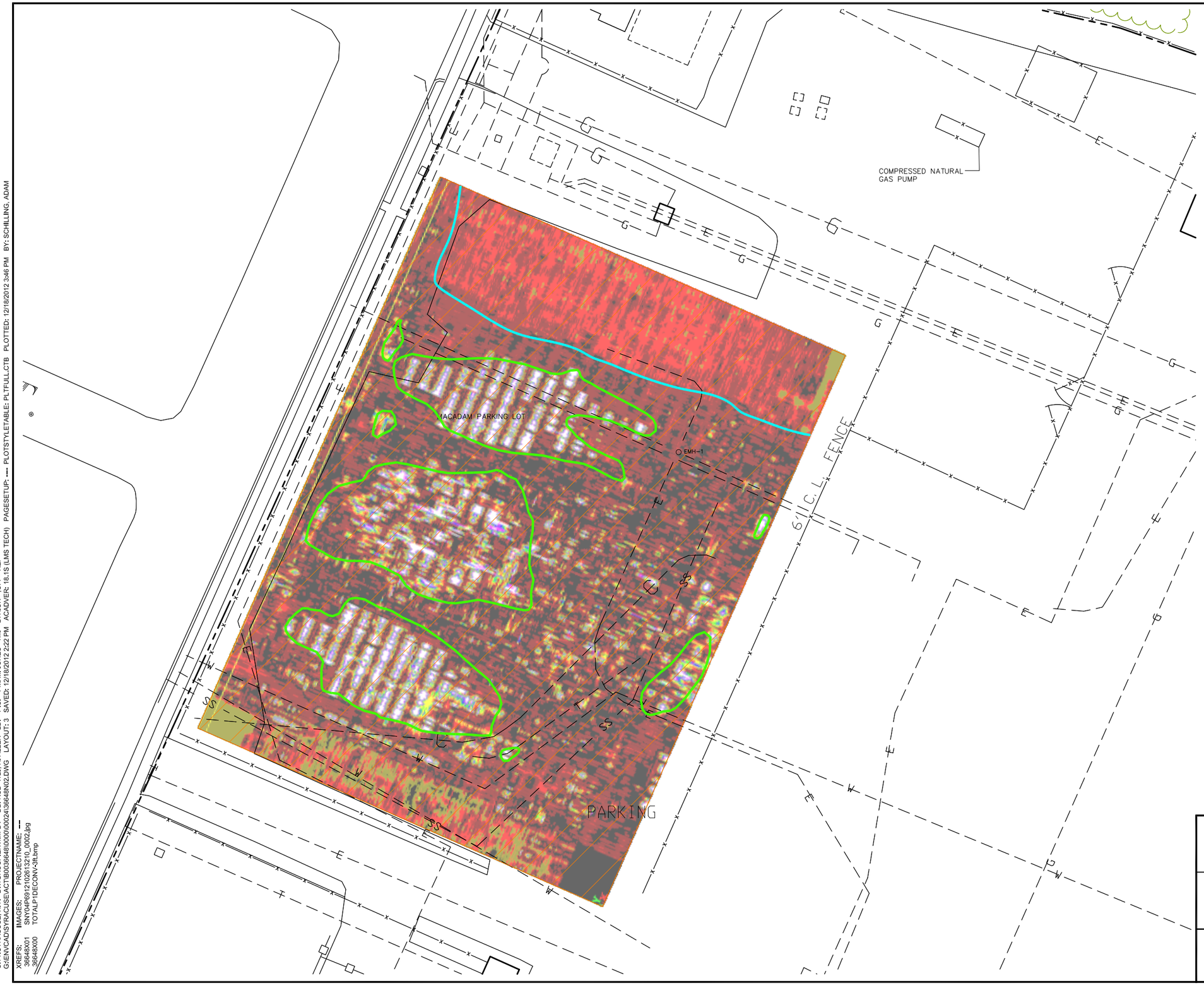
NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
FEASIBILITY STUDY REPORT

GPR RESPONSE AT 2 FEET

ARCADIS

FIGURE
2

CITY:SYRACUSE, N.Y. DIV/GROUP:ENV/IM-DIV DB: RCB WLJ, R. ALLEN LD: PIC: PM: M. JONES TM: LYRON="OFF"="REF"
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XREFS: IMAGES: PROJECTNAME: ---
36648X01 TOTALP1DECONV-2ft.bmp
36648X00



NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS AND PSA/IRM SAMPLING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
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0 20' 40'
GRAPHIC SCALE

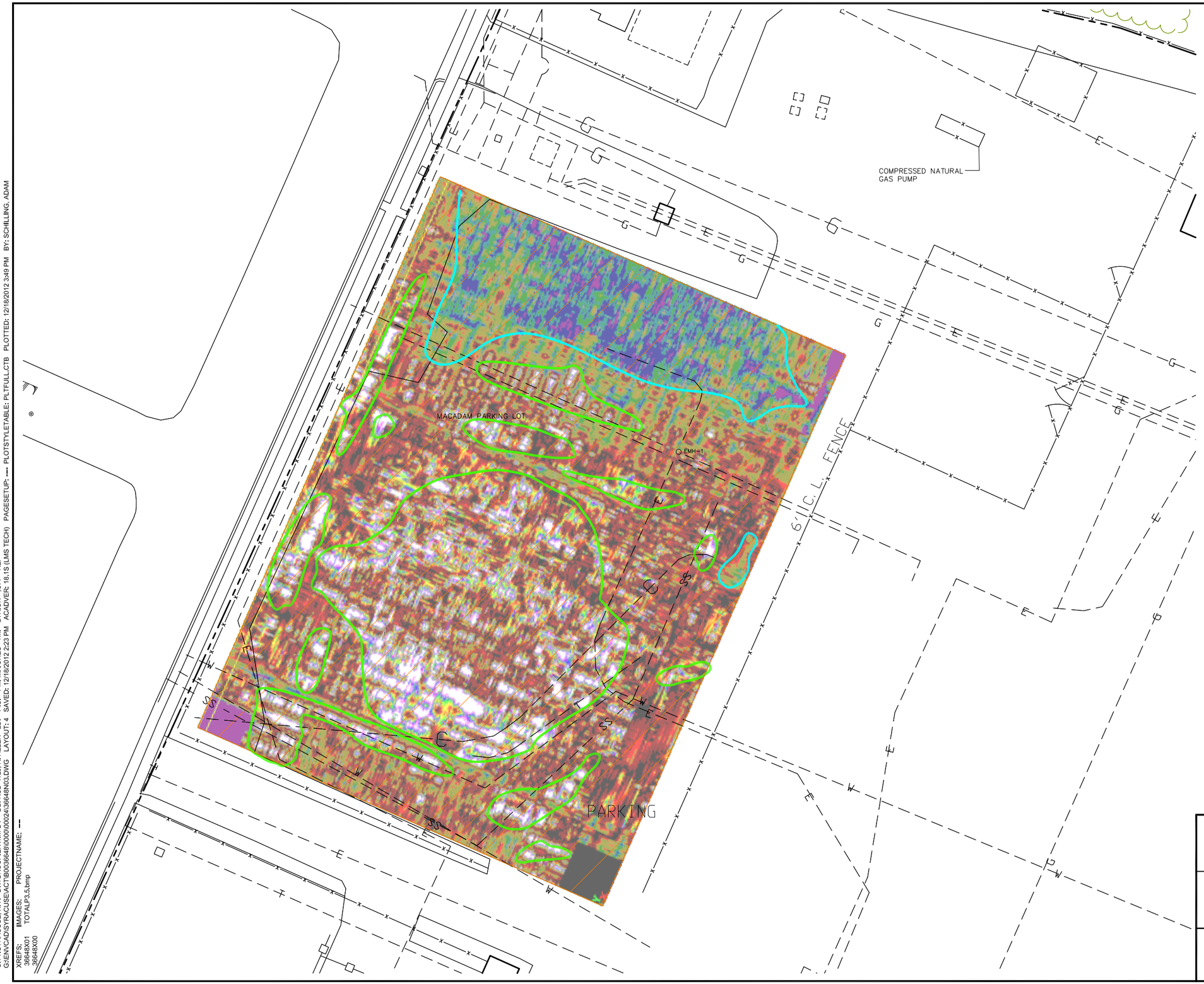
NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
FEASIBILITY STUDY REPORT

GPR RESPONSE AT 3 FEET

ARCADIS

FIGURE
3

CITY:SYRACUSE, N.Y. DIV/GROUP:ENV/IM-DIV DB: RCB WLJ, R. ALLEN LD: PIC: PM: M. JONES TM: LYRON="OFF='REF'
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XREFS: IMAGES: PROJECTNAME: --
36648X01 SNY04P8912102613210_0002.jpg
36648X00 TOTALP1DECONV-3ft.bmp



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- HISTORICAL SITE FEATURE
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- GAS LINE
- WATER LINE
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NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
FEASIBILITY STUDY REPORT

GPR RESPONSE AT 4 FEET

ARCADIS

FIGURE
4

CITY:SYRACUSE, N.Y. DIV/GROUP=ENV/IM=DV DB: RCB WLJ, R. ALLEN LD: PIC: PM: M. JONES TM: LYR:ON=*;OFF=*REF*
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XREFS: 36648X01 36648X00
IMAGES: TOTALP3.5.bmp
PROJECTNAME: ---



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- HISTORICAL SITE FEATURE
- APPROXIMATE PROPERTY LINE
- EMH-1 EXISTING ELECTRICAL MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE
- GPR AREA
- UTILITY CORRIDOR OBSERVED DURING GPR SURVEY

NOTES:

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0 20' 40'
GRAPHIC SCALE

NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
FEASIBILITY STUDY REPORT

POSSIBLE UTILITY LINES IDENTIFIED BY GPR

ARCADIS

FIGURE
5

CITY:SYRACUSE, N.Y. DIV/GROUP:ENV/IM=DV DB: RCB WLJ, R. ALLEN LD: PIC: PM: M. JONES TM: LYR:ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACT\B00366481\0000\0002413664B02.DWG LAYOUT: 5 SAVED: 12/18/2012 4:01 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/18/2012 4:01 PM BY: SCHILLING, ADAM
XREFS: IMAGES: PROJECTNAME: ---
36648X01 TOTALP1DECONV-2ft.bmp
36648X00

ARCADIS

GPR Data Acquisition Logs

ARCADIS US, INC.

Ground Penetrating Radar Data Acquisition Log

ARCADIS Infrastructure, environment, buildings

PROJECT DETAILS

Job Number: B0036648.0000.00024	**Operator:** RAY WAGNER	**Page:** 1 / 2
Job Name / N. ALBANY FORMER MGP SITE		**Date:** 9/25/12
Client Name: National GRID		**Grid No.: (Attach Sketch)** FIG. 1

EQUIPMENT DETAILS

Equipment: GSSI SIR 3000 □ Serial #: 0647	**Antenna Frequency:** □ 250 MHz □ 500 MHz □ 1000 MHz ☒ 400 MHz	**Antenna Serial No.:**
Collection Mode: □ Point ☑ Continuous □ Distance □ GPS	**Grid Type:** □ X-only □ Forward ☒ Y-only □ Reverse □ X/Y ☒ Alternate F/R	**Survey wheel Cal.:** 20ft. Cal'd.
Scans per unit: 24 scans per foot / meter	**Range / Dielectric:** 15 ~~ns~~ FT. (60 NS) ☑ 8 □ 10 □ 15	**Filters:** LP: 300 MHz HP: 100 MHz
Scans: Samples ☑ 512 □ 1024 Bits □ 16 □ 32 Stacking □ 3 □ 5	**Position:** Offset _____ ns Surface _____ %	**Gain:** 1) 0 2) _____ 3) _____ 4) _____ 5) _____ 6) _____

* SAVE SETUP PARAMETERS IN SETUP 16

RECORDS

Project	File	X_{start}	X_{end}	Y_{start}	Y_{end}	Notes	Project	File	X_{start}	X_{end}	Y_{start}	Y_{end}	Notes
~~GRID 15~~	01	20	180	20	20		GRID 15	24	180	0	89	89	
	02	180	20	23	23			25	0	180	92	92	
	03	20	180	26	26			26	180	0	95	95	
	04	180	20	29	29	CONCRETE STRUCTURE NEAR 180'		27	20	180	98	98	
	05	20	180	32	32			28	180	20	101	101	
	06	180	0	35	35			29	20	180	104	104	
	07	0	180	38	38			30	180	0	107	107	
	08	180	0	41	41	METAL AT 160'		31	0	180	110	110	
	09	0	180	44	44			32	180	0	113	113	
	10	~~180~~		47	47	SKIP *		33	0	180	116	116	
	11	0	180	50	50			34	180	20	119	119	
	12	180	0	53	53	CAR @ 50' WENT TO SOUTH CAR		35	0	180	122	122	
	13	0	180	56	56	CAR @ 50' WENT TO NORTH CAR		36	180	20	125	125	
	14	180	0	59	59			37	20	180	128	128	
	15	0	180	62	62			38	180	0	131	131	
	16	180	0	65	65			39	0	180	134	134	
	17	0	180	68	68			40	180	0	137	137	
	18	180	0	71	71			41	0	180	140	140	139.5 (OFF MACHINE INSTEAD OF 140)
	19	~~0~~	~~180~~	74	94	SKIP *		42	180	0	143	143	
	20	180	0	~~77~~	77			43	20	180	146	146	
	21	~~180~~	180	80	80			44	180	20	149	149	
	22	180	0	83	83			45	20	180	152	152	
	23	0	180	86	86			46	180	20	155	155	

ARCADIS US, INC.

ARCADIS
Infrastructure, environment, buildings

Ground Penetrating Radar Data Acquisition Log

PROJECT DETAILS		
Job Number:	**Operator:** RAY WAGNER	**Page:** 2 / 2
Job Name / Location:		**Date:** 9/25/12
Client Name:		**Grid No.: (Attach Sketch)** See Fig 1

RECORDS (cont'd)

Project	File	X_{start}	X_{end}	Y_{start}	Y_{end}	Notes	Project	File	X_{start}	X_{end}	Y_{start}	Y_{end}	Notes
GRID 15	47	20	180	~~158~~	158		GRID 16	22	200	0	245	245	
	48	180	0	161	161			23	0	200	248	248	
	49	0	180	164	164	SKIP *		24	200	0	250	250	END GRID 16
	50	180	0	167	167								
	51	0	180	170	170								
	52	180	0	173	173								
	53	0	180	176	176								
	54	180	0	179	179								
	55	0	180	182	182	DEAD BATTERY @ 120'							
GRID 16	01	0	~~180~~ 200	~~185~~ 182	182	Rerun of Line Edge of Parking Lot							
	02	200	0	~~180~~ 185	185								
	03	0	200	~~191~~ 188	188	Manhole @ 50' *							
	04	200	0	191	191	Pipe @ 45'							
	05	0	200	194	194	Pipe @ 45'							
	06	200	0	197	197								
	07	0	200	200	200								
	08	200	0	203	203								
	09	0	200	206	206								
	10	200	0	209	209								
	11	0	200	212	212	Car (went to the South) at 110'							
	12	200	0	215	215	Car (went to the North) at 110'							
	13	0	200	218	218								
	14	200	0	221	221	Pole at 120' (went to S.) Car at 50' (went to S.)							
	15	0	200	224	224	Car at 50' (went to N.) Pole at 110' (went to N.)							
	16	200	20	227	227								
	17	0	200	230	230								
	18	200	0	233	233								
	19	0	200	236	236								
	20	200	0	239	239								
	21	0	200	242	242								

ARCADIS BBLES

SUBJECT:

JOB NO: B00 36648.0000.024

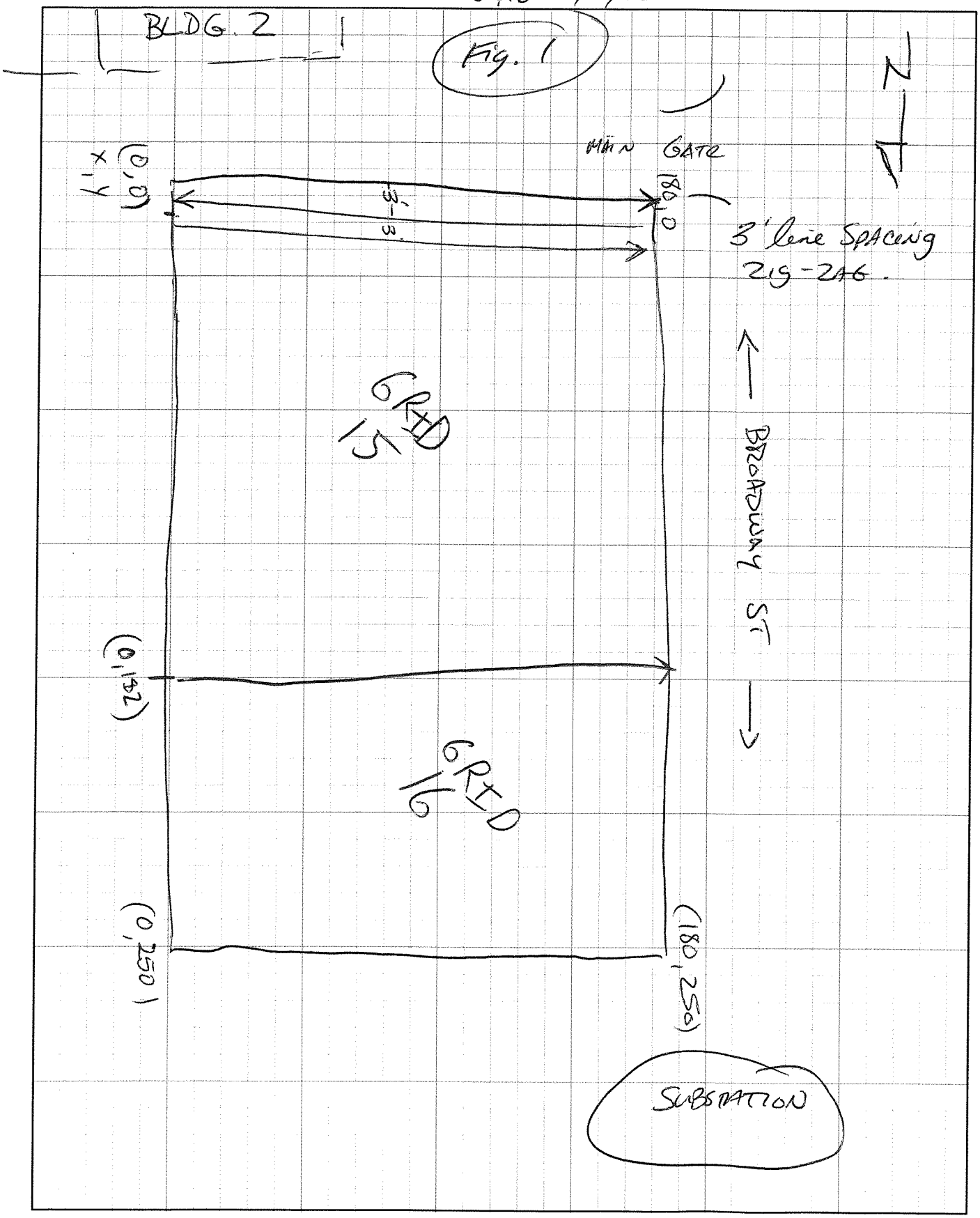
BY: DATE:

CHKD: DATE: 9/25

PAGE

SHEET 1/1

GRID 15 & 16 9/25/12



AGM Form 30 ♻
12-01

ARCADIS US, INC.

ARCADIS Infrastructure, environment, buildings

Ground Penetrating Radar Data Acquisition Log

PROJECT DETAILS

Job Number: B003648.0000.027	**Operator:** RAY WAGNER	**Page:** 1 / 1
Job Name / N. ALBANY FORMER MGP SITE		**Date:** 9/26/12
Client Name: National GRID		**Grid No.:** (Attach Sketch) FIG. 2

EQUIPMENT DETAILS

Equipment: GSSI SIR 3000 □ Serial #: 0647	**Antenna Frequency:** □ 250 MHz □ 500 MHz □ 1000 MHz ☒ 400 MHz	**Antenna Serial No.:**
Collection Mode: □ Point ☑ Continuous □ Distance □ GPS	**Grid Type:** ☒ X-only □ Forward □ Y-only □ Reverse □ X/Y ☒ Alternate F/R	**Survey wheel Cal.:** 20' calibration check
Scans per unit: 24 scans per foot / meter	**Range / Dielectric:** 90 ns ~ 15 ft. ☒ 8 □ 10 □ 15	**Filters:** LP: 800 MHz HP: 100 MHz
Scans: Samples ☑ 512 □ 1024 Bits □ 16 □ 32 Stacking □ 3 □ 5	**Position:** Offset _____ ns Surface _____ %	**Gain:** 1) _____ 2) _____ 3) _____ 4) _____ 5) _____ 6) _____

RECORDS

Project	File	X_{start}	X_{end}	Y_{start}	Y_{end}	Notes
GRID 17	1	20	20	0	260	
	2	23	23	260	0	last 6' are not good (don't use)
	3	26	26	0	260	
	4	29	29	260	0	
	5	32	32	0	260	
	6	35	35	260	0	
	7	38	38	0	260	
	8	41	41	260	0	cars in path (moved to East)
	9	44	44	0	260	
	10	47	47	260	0	cars in path (went to the East) *
	11	50	50	0	260	cars in path weaving *
	12	53	53	260	0	Cars in path weaving *
	13	56	56	0	260	Cars in path weaving *
	14	59	59	260	0	
	15	62	62	0	260	car at 190' weave to East
	16	65	65	260	0	car at 190' weave to East
	17	68	68	0	260	car at 190' weave to West
	18	71	71	260	0	car at 190' weave to West
	19	74	74	0	260	
	20	77	77	260	0	
	21	80	80	0	260	
	22	83	83	260	0	
	23	86	86	0	260	

Lines Mistaken at 200'

Project	File	X_{start}	X_{end}	Y_{start}	Y_{end}	Notes
GRID 17	24	89	89	260	0	
	25	92	92	0	260	
	26	95	95	260	0	
	27	98	98	0	260	
	28	101	101	260	0	
	29	104	104	0	260	Truck at 90' weave to East
	30	107	107	260	0	Truck at 90' weave to East
	31	110	116	0	260	Truck @ 90' weave to West
	32	113	113	260	0	Truck @ 90' weave to West
	33	116	116	0	260	Truck @ 90' weave to West
	34	119	119	260	0	
	35	122	122	0	260	Telephone Pole at 90'
	36	125	125	260	0	
	37	128	128	0	260	
	38	131	131	260	0	
	39	134	134	0	260	
	40	137	137	260	0	
	41	140	140	0	260	
	42	143	143	260	0	
	43	146	146	0	260	
	44	149	149	260	0	
	45	152	152	0	260	
	46	155	155	260	0	

9/27/12

ARCADIS US, INC.

Ground Penetrating Radar Data Acquisition Log

ARCADIS
Infrastructure, environment, buildings

PROJECT DETAILS		
Job Number: B00 36648.0000.024	**Operator:** Ray WARREN	**Page:** 21
Job Name / Location: N. ALBANY FORMER MGP SITE		**Date:** 9/26/12
Client Name: National GRID		**Grid No.: (Attach Sketch)**

RECORDS (cont'd)

Project	File	X_{start}	X_{end}	Y_{start}	Y_{end}	Notes	Project	File	X_{start}	X_{end}	Y_{start}	Y_{end}	Notes
GRID 17	47	158	158	0	260								
	48	161	161	260	0								
	49	164	164	0	260								
	50	167	167	260	0	Truck (went to East)							
	51	170	170	0	260	DEAD BATTERY @ 150'							
GRID 18	1	~~173~~ 170	170	0	260	Repeat w/ New Grid							
	2	~~176~~ 173	173	260	0	Truck (went to East)							
	3	176	176	0	260	" (went to West)							
	4	179	179	260	0	Truck went to West)							

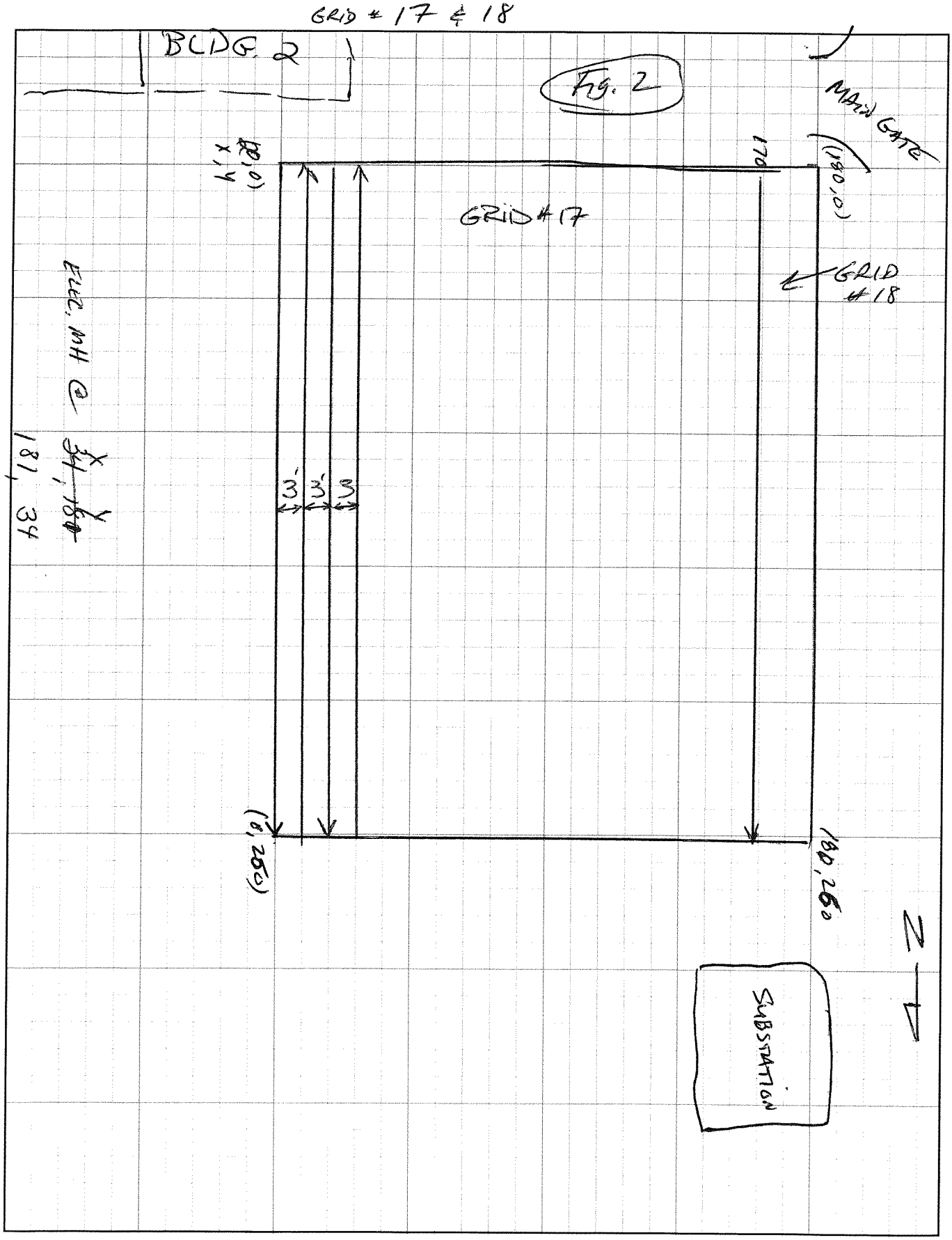
ARCADIS BBLES

SUBJECT: GPR SURVEY - N. ALBANY, NY
Natural GRID
JOB NO: 30036648.0000.024

BY: DATE: 9/26
CHKD: DATE:

PAGE

SHEET 1



APPENDIX C

Bench Scale Study Report (Geo-Con, June 2013)

Geo-Solutions
Soil & Groundwater Problems Solved.

JUNE 10, 2013

BENCH SCALE STUDY REPORT - REV 1

PROJECT: NATIONAL GRID NORTH ALBANY SERVICE CENTER FORMER MGP SITE

LOCATION: ALBANY, NY

PREPARED FOR:
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GEO-CON REFERENCE ID: 12-037

Geo-Solutions
Soil & Groundwater Problems Solved.

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Geo-Solutions

EXECUTIVE SUMMARY

Geo-Con, now a trade name of Geo-Solutions, Inc (GSI), has completed a bench scale study to determine multiple *in-situ* stabilization (ISS) mix designs for use in evaluating the feasibility of ISS treatment of two soil types present at the National Grid North Albany Services center former MGP Site located in Albany, NY. Geo-Con has completed numerous studies of this type to determine mix designs for the containment, stabilization, and solidification of a number of waste types in a variety of soils. Geo-Con used its past experience, internal procedures, and industry standards to perform this study.

The first portion of the study focused on measuring index properties of the soils expected at this site. The results of this portion of the study indicated that the soils at this site are predominantly coarse grained with fines content in the range of 15% - 25%. The organic content of the soils ranges from approximately 2% - 5% and the moisture content ranges from approximately 15% - 30%. Of the two soil composites tested, Soil 2 appeared to be the most contaminated.

After the soil index testing, Geo-Con and ARCADIS selected 12 mix designs (6 each for Soil 1 and Soil 2). The grout /slurry makeup and the overall reagent addition rates were chosen based on past experience and the results of the soil index testing. Once cured, all of the mixes were subjected to strength testing after 7 and 28 days of curing, and a select 6 mixes were subjected to permeability testing after 28+ days of curing. The results of the permeability and strength testing indicated that the project objectives can be achieved with a variety of soil-grout / slurry mixtures, namely mixes consisting of an overall reagent dosage of 10% - 12% (based on wet soil weight) including Portland cement, blast furnace slag, and bentonite.

Finally, the 6 mixes selected for permeability testing were also subjected to a modified ANS 16.1 leachability test.

The conclusions of the study are that 1) the soils at this site are predominantly granular materials with a fines content in the 15% - 25% range, a organic content in the 2% - 5% range, and a moisture content in the 15% - 30% range, 2) the site soils can be effectively stabilized / solidified with a mix consisting of Portland cement, blast furnace slag, and possibly bentonite delivered to the soils in a 1:1 water to solids (W:S) grout. Higher W:S ratios (up to 2:1 W:S) may be necessary to facilitate consistent mixing in some of the drier soils anticipated at this site.

Geo-Solutions

INTRODUCTION

Geo-Con has completed a bench scale study to determine multiple *in-situ* stabilization (ISS) mix designs for use in evaluating the feasibility of ISS treatment of two soil types present at the National Grid North Albany Services center former MGP Site located in Albany, NY. This report summarizes the methods utilized, the findings obtained, and the conclusions drawn. Laboratory reports, when applicable, to support the findings presented herein are included in appendices to this report.

ISS is commonly used for the efficient stabilization of impacted soils in a variety of applications. The process generally consists of *in situ* reagent injection (wet or dry) and physical mixing. Commonly, ISS is performed using large diameter (3' – 12') augers attached to hollow Kelly bars. A fluid grout, consisting of Portland cement, blast furnace slag, water, and additional additives, is pumped through the hollow Kelly bar and out ports located on the drilling auger. The grout acts as both the drilling lubricant and the final binding agent.

SITE DESCRIPTION

The site, located in Albany, NY, was previously the location of a manufactured gas plant (MGP) that operated from the 1870's to the 1940's. The soil types at the site vary from granular historic fill to fine grained silts and clays. MGP impacts vary across the site with free NAPL present in area and purifier was located in other areas.

LABORATORY

Samples created during this study were prepared by or under the direct supervision of Bill Buccille. Geotechnical laboratory testing was completed by Geotechnics of East Pittsburgh, PA under the guidance of Bill Buccille. Geotechnics is a qualified, licensed, and experienced soil testing laboratory. Mr. Buccille and Geotechnics have worked together on this type of testing on numerous projects.

OBJECTIVES

The main objectives of this testing program were:

- To create a soil/grout mixture that met the site permeability objective; a permeability less than or equal to 1×10^{-6} cm/s.
- To create a soil/grout mixture that met the site unconfined compressive strength objective; a UCS greater than or equal to 50 psi.
- To create a soil/grout mixture that reduced the leachability of the contaminants.
- To ensure that the proposed grout was field implementable (pumpable via conventional methods).
- To observe the compatibility of the selected soil/grout mixture and site groundwater to ensure that no gross incompatibility exists.

SOIL INDEX TESTING

Geo-Con received 4 five gallon buckets of site soils and 5 gallons of potable site water in August 2012. The buckets of site soils consisted of one bucket each from GT-03 (5'-19.7'), GT-04 (5'-19.4'), GT-06 (5'-24.4'), and GT-07 (5'-24.2'). Upon receipt of the soils, Geo-Con combined GT-03 & GT-04 to form Soil 1 and GT-06 & GT-07 to form Soil 2. Raw soil composites were homogenized the raw soil within the container. Oversized particles were removed by passing the soil through a 1/2 inch screen. Oversized particles were removed so that specimens of treated material comply with strength and hydraulic conductivity standards. The standard for hydraulic conductivity (ASTM D5084) indicates maximum particle size should be less than $1/6^{th}$ of the diameter and height of the specimen. The specimens for hydraulic conductivity were 3-inch diameter by 3-inch height. A maximum particle size of approximately 1/2 inch complies with the standard. Following homogenization, Geo-Con repackaged the sample into double layer plastic zip-lock bags and stored the samples in a refrigerator at approximately 40°F.

ARCADIS described Soil 1 as typical NAPL impacted soil and Soil 2 a purifier waste impacted soil. Representative samples of each composite were taken to the laboratory for soil index testing. Table 1 summarizes the laboratory test results of this index testing. Laboratory data sheets, if available, to support Table 1 are included in Appendix A of this report.

Table 1: General Soil Classification Test Results Summary

ID	USCS Classification	Organic Content (%)	Moisture Content (%)[1]	Fines (%)	Bulk Density (pcf)	Ph
Soil-1	SM, Silty Sand w/ Gravel	4.9	16.3	17.3	124.6	7.23
Soil-2	SM, Silty Sand	2.3	32.1	24.8	112.9	6.76

The site soils (pictured below in Figure 1) have a predominantly coarse grained makeup, a moderate amount of fines (15% - 25%) and moisture contents in the 15%-35% range.

Composite Soil 1 consisted of dark grey and black silty sand with some gravel. Gravel was angular and up to3 inches maximum size. A trace of clay and tar lumps were observed. Soil 1 contained greater proportion of course grained fraction than Soil 2 and was somewhat free-draining although saturated. Soil 1 also exhibited a higher degree of organic content indicated by the loss-on-ignition test results and exhibited a heavy odor and product was observed in the void spaces.

Composite Soil 2 consisted of dark grey sandy silt with some clay and tar globs. Soil 2 contained a trace amount of gravel up to 4 inch in size. Soil 2 was absent of gravel and contained a greater percentage of fines than Soil 1. This higher proportion of fines caused Soil 2 to retain high degree of moisture and act as a cohesive soil.



Figure 1. Photographs of the site soil composites used in this study

STABILIZATION MIXTURE DEVELOPMENT

GROUT

Stabilization grout mixtures were created using various ratios of water, cement, bentonite, and blast furnace slag. The ingredients used in the grout mixes are shown below on Table 2 along with their suppliers and abbreviations. Potable water used for the trials is sourced from the same city water system that would be used for the full scale in-situ soil mixing program. .

Table 2: Grout Component Sources and Abbreviations

Ingredient	Abbreviation	Type	Source
Mix water	W	Site Mix Water	Potable Site Source
Portland Cement	PC	Type I/II	LaFarge, Ravena, NY
Bentonite	B	90 bbl, Section 9	CETCO, Lovell, WY
Blast Furnace Slag	BFS	Grade 100	LaFarge, Charleston, MA,

Initial grouts were mixed at a water to solids (W:S) ratio of 0.8:1. A W:S greater than or equal to 0.8:1 is normally an easily pumpable grout. However, Higher W:S (>1.25) ratios can have adverse impacts on the strength and permeability improvement of the soil-grout mixes.

The grout ingredients were weighed ahead of mixing to ensure accurate proportioning (see photo in Figure 2).



Figure 2. Measured out grout ingredients

INITIAL SOIL-GROUT MIXTURES

Soil-grout mixtures were created using the grouts described above added to the soil samples/composites previously described.

To form the soil-grout mixtures, the grout ingredients were added to and mixed with the soils (See photo in Figure 3). Mixing was performed by hand. Additional water was added until a slump greater than 5" (measured using a mini slump cone) was achieved (see photos in Figure 3). A slump greater than 5" generally ensures that the soil-grout mixture is suitably workable.



Figure 3. Photos from left to right: Grout ingredients added to the soil immediately prior to mixing, final mixed material, measuring slump using the mini slump cone

When the mixing was completed, the soil-grout mixtures were cast into 2" x 4" cylinders for UCS testing and 3" x 3" cylinders for permeability testing in a manner that limited the entrapment of air. The recently cast cylinders were labeled (see photo in Figure 4) and placed in a moisture and temperature controlled environment to cure.



Figure 4. Labeled cylinders prior to being filled with soil-grout mixtures

The mixes chosen in this study were chosen by a combined effort of Geo-Con and ARCADIS based on past experience with soil mixing in similar soil conditions. Table 3 summarizes the composition of the soil-grout mixtures created in this phase of the study.

Table 3: Summary of Initial Soil-grout Sample Compositions

Sample ID	Soil Source	Reagent	% Reagent[1]
37-1	Soil 1	PC/W	8/6.4
37-2	Soil 1	PC/W	10/8
37-3	Soil 1	PC/B/W	10/1/10
37-4	Soil 1	PC/BFS/W	2/6/6.4
37-5	Soil 1	PC/BFS/W	2.5/7.5/8
37-6	Soil 1	PC/BFS/B/W	2.5/7.5/1/11
37-7	Soil 2	PC/W	8/16
37-8	Soil 2	PC/W	10/20
37-9	Soil 2	PC/W	12/20.4
37-10	Soil 2	PC/BFS/W	2/6/17.6
37-11	Soil 2	PC/BFS/W	2.5/7.5/20
37-12	Soil 2	PC/BFS/W	2.5/7.5/21.6

[1] By wet weight of soil

All samples made with Soil 1 maxed out the pocket penetrometer (PP) after 1 day of curing. Mixes made from Soil-2 took significantly longer to "set". The Pocket Penetrometer data is presented on Table 4.

Table 4. Pocket Penetrometer Test Results (psi)

Sample Age	1 day	3 days	7 days
Soil 1			
37-1	>62	>62	>62
37-2	>62	>62	>62
37-3	>62	>62	>62
37-4	>62	>62	>62
37-5	>62	>62	>62
37-6	>62	>62	>62
Soil 2			
37-7	14	53	>62
37-8	17	49	62
37-9	35	>62	>62
37-10	<7	44	38
37-11	<7	28	56
37-12	11	51	>62

UCS were performed after approximately 14 and 28 days of curing. Upon review of 28-day compressive strength results, ARCADIS, in conjunction with Geo-Con selected six specimens for permeability testing. A summary of the laboratory testing is presented on Table 5. Laboratory data sheets to support Table 5 are included in Appendix B of this report.

Table 5: Permeability and UCS Test Results

Sample ID	14-Day UCS (psi)	28-Day UCS (psi)	28-Day+ Permeability (cm/s)
Soil 1			
37-1	117	138	
37-2	210	280	
37-3	186	266	6.0×10^{-8}
37-4	390	499	1.5×10^{-8}
37-5	553	693	
37-6	339	493	3.3×10^{-8}
Soil 2			
37-7	43	59	
37-8	33	40	1.5×10^{-8}
37-9	54	66	
37-10	24	31	
37-11	46	87	5.5×10^{-9}
37-12	93	196	4.6×10^{-8}

All of the mixes tested achieved a strength greater than 50 psi in less than 28 days except for mixes 37-8 and 37-10. All of the mixes tested achieved a permeability less than 1×10^{-6} cm/s after curing approximately 28 days. The specimens for Soil 1 generally achieved higher strength which is attributed to the granular nature and less fines content of the soil. Soil 2 was more cohesive in nature and achieved lower strength. The addition of bentonite to Soil 1 samples appears to have resulted in lower permeability with the tradeoff of slightly lower strength. Soil 2 was more cohesive in nature and low permeability was achieved without bentonite addition. In general, Soil 2 achieved lower strengths even with greater reagent dosages compared with Soil 2.

MODIFIED ANS 16.1 TESTING

A semi-dynamic leaching procedure (a modified version of ANS 16.1) was selected to characterize the ability of the solidified specimens to impede the release of inorganic and organic analytes contained in the monolith. The leaching characteristics of the mixes were observed under controlled release conditions as a function of time. The leaching method used in this study provides a series of eluents which may be used to estimate the diffusivity of the constituents and the physical retention characteristics of the solidified specimen under controlled laboratory conditions. The test consists of leaching a continually water-saturated monolith specimen in an eluent filled container with periodic leaching solution renewal. The vessel and specimen dimensions are designed to ensure the specimen is fully immersed in the eluent. The eluent is sampled at the end of each interval and replaced. Eluent for each interval is analyzed for constituents which results in a series of data points used to quantify the physical retention or diffusivity (mass transfer) characteristics of the solidified specimen.

PROCEDURES

Initial Setup

1. Prepare leaching vessel. 2,200 ml polypropylene beakers with plexi-glass lids were used in this study.
2. Measure the specimen dimensions.
3. Determine the eluent volume. A volume equal to 10 times the surface area of the specimen was used in this study.
4. Fill volume with appropriate volume of de-ionized water (eluent).
5. Weigh specimen.
6. Place specimen in holder and weigh specimen with holder.
7. Place specimen into vessel (see photo in Figure 5). Cover and record time, temperature, pH.

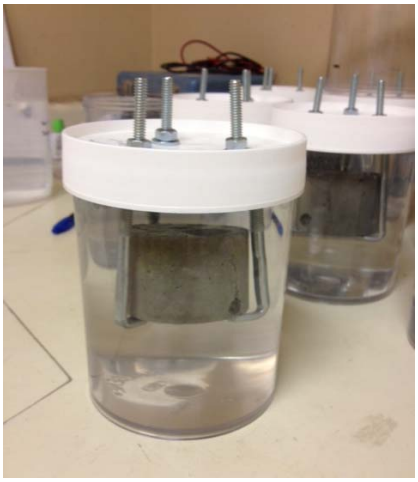


Figure 5. Leaching chamber used in this study

Eluent Exchanges

1. Prepare and fill new, clean leaching vessel for exchange.
2. Remove specimen and holder from the current vessel. Allow specimen to drain for 10 seconds. Weigh specimen and holder.
3. Place specimen into the new, clean leaching vessel.
4. Record temperature and pH of used eluent.
5. Collect a sample of the used eluent.

The eluent in this study was changed every day, but samples of the eluent were only collected every 5 days. The sample weight, ph, temperature data for each of the 6 mixes (the same mixes tested for permeability) is included in Appendix (C). Plots of concentration vs. analyte for each mix and time interval are included in Appendix (D). These plots for the best performing mix (37-6) and the worst performing mix (37-8) are included below in Figures 6 and 7 for reference.

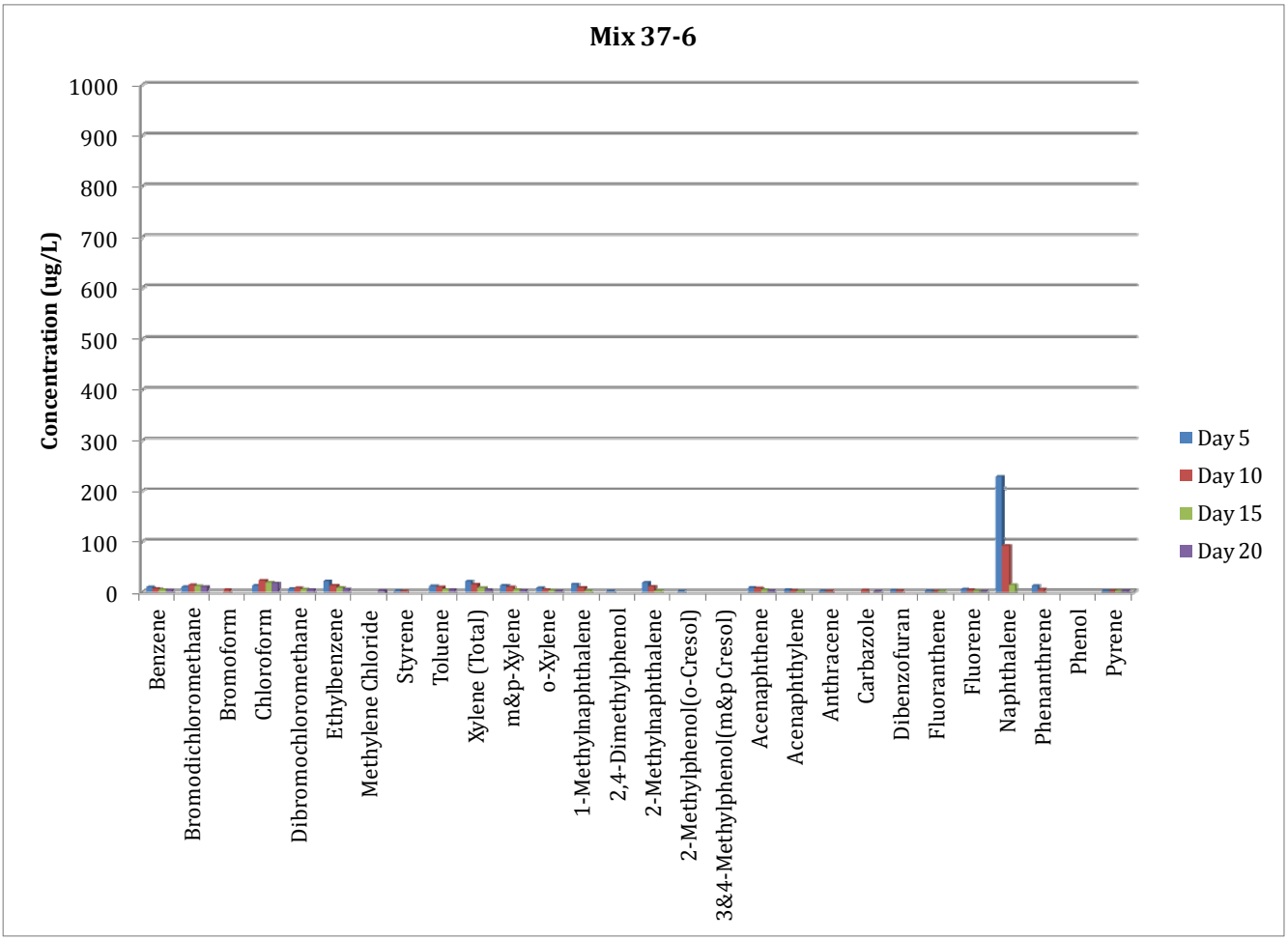


Figure 6. Plot of concentration vs. analyte for Mix 37-6

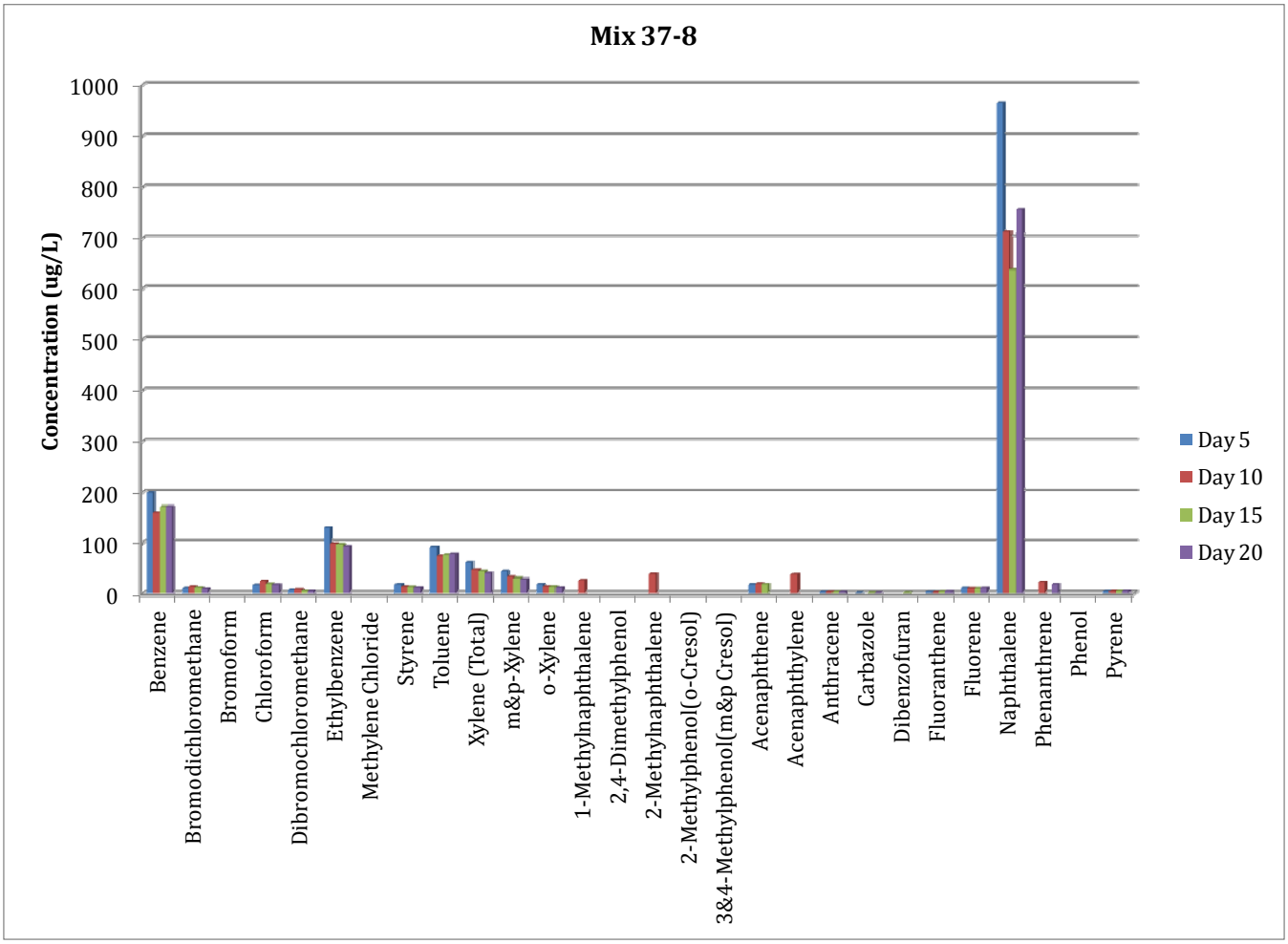


Figure 7. Plot of concentration vs. analyte for Mix 37-8

In general the mixes (37-3, 37-4 & 37-6) for Soil 1 resulted in lower concentrations of analytes in the leachate. Mixes 37-4 and 37-6 outperformed other mixes in terms of leachability reduction. These two mixes contained Portland cement, slag and in the case of 37-6, bentonite. It appears mixes containing a blend of slag and cement perform better than cement and bentonite mixes. The addition of bentonite to mixes containing slag and cement does not appear to be necessary to reduce levels of leachability as illustrated by Mix 37-4.

Mixes for Soil 2 (37-8, 37-11 & 37-12) resulted in higher concentrations of analytes in the leachate. Within Soil 2, Mixes 37-11 and 37-12 which contained slag and cement outperformed Mix-8 which contained cement only. Mix 37-12, which performed the best, contained a higher dosage of slag and cement than Mix 37-11.

DISCUSSIONS

GROUT

All of the grouts tested in this study consisted of commonly used additives mixed with a municipal water source. All grouts tested in this study should be field implementable via conventional pumping methods.

STRENGTH

All of the mixes tested in this study exhibited strengths higher than the 50 psi minimum after 28 days of curing except for Mixes 37-8 & 37-10.

PERMEABILITY

All of the mixes tested in this study exhibited permeability values lower than the required 1 x 10^{-6} cm/s after 28+ days of curing.

ANS 16.1

Soil 2 appears to be more contaminated than Soil 1 evidenced by the comparatively higher concentrations of contaminants leached from the mix specimens. Based on the results of the modified ANS 16.1 leaching tests conducted in this study, for Soil 1, Mix 37-6 appears to reduce the leachability of the contaminants best. However, Mix 37-4 provides similar results with 2% less cement/slag and no bentonite addition compared to Mix 37-6. For Soil 2, Mix 37-12 appears to be the most effective for leachability reduction.

CONCLUSIONS

This bench scale study demonstrated that a properly performed soil mixing operation could be used on the Albany site to decrease the permeability, increase the strength, and reduce the contaminant leachability of the impacted site soils. The following conclusions may be drawn from the results:

- The soils expected at this site are predominantly coarse grained with fines contents in the range of 15% - 25%.
- The organic content of these soils is in the 2% - 5% range.
- Most of the design mixtures that were tested exhibited strengths after 28 days of curing that exceeded the 50 psi target.
- All of the mixes tested should achieve a permeability less than 1 x 10^{-6} cm/s after 28 days of curing.
- Based on the combined permeability, strength, and leachability tests, Mix 37-6/37-12 is the recommended mix for field implementation. This mix achieved the permeability and strength objectives and appeared to effectively reduce the leachability. Grout consistency in the field will need to be varied to account for changes in the soil consistency and water content, e.g. see the differences in the water portion of the grouts used in 37-6 and 37-12.
- Careful planning and execution with comprehensive quality control is always recommended for soil mixing construction.

RELEVANT STANDARDS AND METHODS

Test	Method, Standard or Reference
Grain Size	ASTM D422
Soil Classification	ASTM D2487
Fines Content	ASTM D1140
Moisture Content	ASTM D2216
Soil Density	API RP 13B (mud balance)
Sample Making and Preparation	ASTM D4832 mod.
Unconfined Compressive Strength	ASTM D1633/D4832
Permeability	ASTM D5084

APPENDICES

- Appendix A – Phase I – Soil Property Index Testing
- Appendix B – Phase II – Soil/Grout UCS and Permeability Laboratory Data Sheets
- Appendix C – Phase III – Leaching Test Laboratory Data Sheets
- Appendix D – Phase III – Plots of Concentration vs. Analyte
- Appendix E – Phase III – Analytical Summary

geotechnics
INTEGRITY IN TESTING

Moisture, Ash, and Organic Matter (Loss on Ignition)

ASTM D 2974-07a, AASHTO T 267-86 (SOP - S8)

Client	GEO-CON / EBC
Client Reference	P12-037 NORTH ALBANY, NY
Project No.	2012-429-01

Moisture Content (Oven Dried, minus #10 Sieve Material)

Lab ID	01	02
Boring No.	NA	NA
Depth(ft).	NA	NA
Sample No.	SOIL 1	SOIL 2
Tare Number	16+P	14+X
Wt. Tare & WS (gm)	111.89	110.64
Wt. Tare & DS (gm)	110.87	109.96
Wt. Tare (gm)	36.56	38.15
Wt. Water (gm)	1.02	0.68
Wt. DS (gm)	74.31	71.81
Moisture Content	**1.4%**	**0.9%**

Ash Content, Organic Matter

Furnace Temperature ° C	440	440
Wt. Tare & Ash (gm)	107.24	108.28
Wt. Volatiles (gm)	3.63	1.68
Wt. Ash (gm)	70.68	70.13
Ash Content	**95.1%**	**97.7%**
Organic Matter	**4.9%**	**2.3%**

Tested By PC *Date* 9/15/12 *Checked By* KC *Date* 9-21-12

DCN: CT S8 DATE: 11/15/10 REVISION:4

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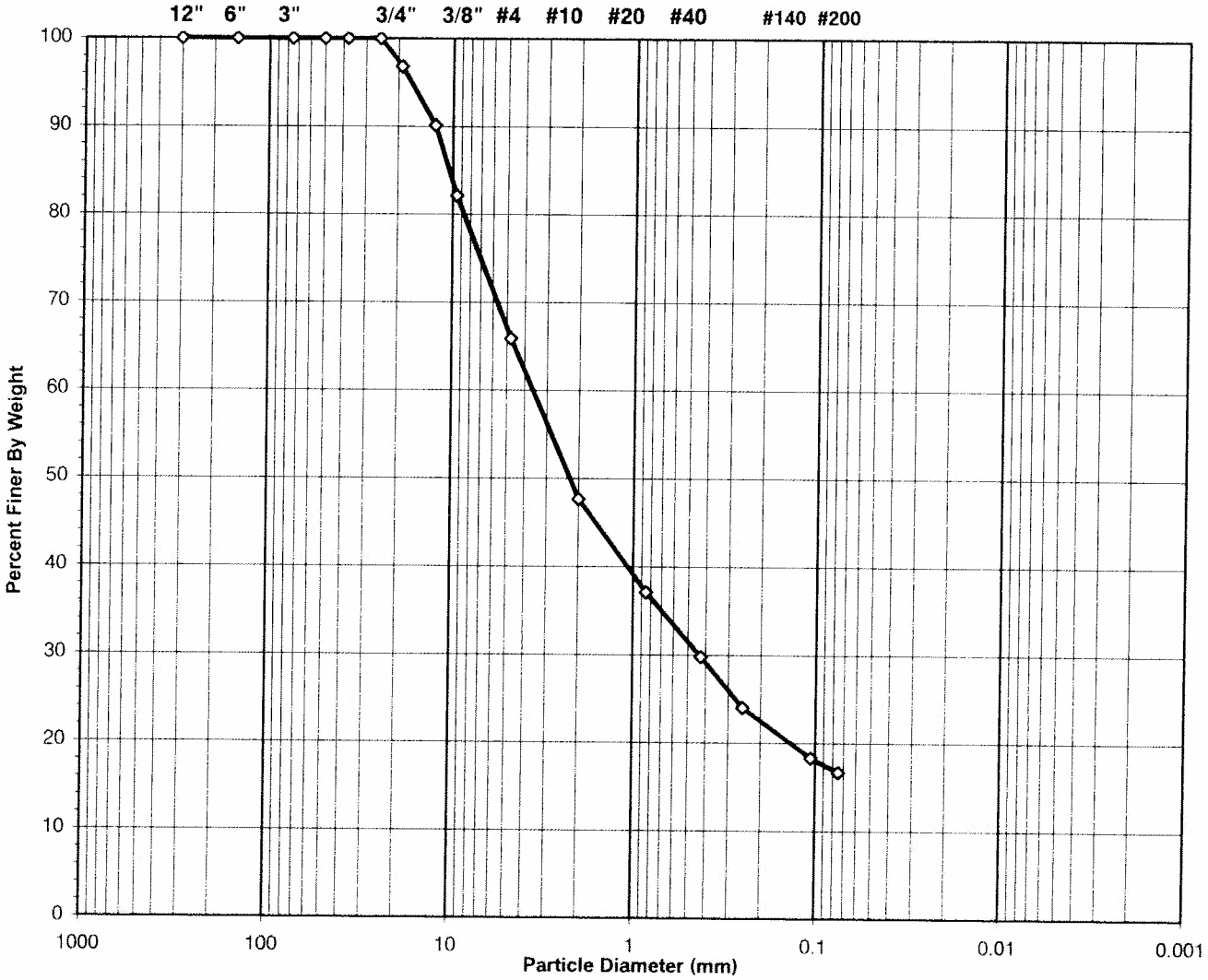
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INTEGRITY IN TESTING

SIEVE ANALYSIS

ASTM D 422-63 (2007)/AASHTO T88-00 SOP-S3

Client	GEO-CON / EBC	Boring No.	NA
Client Reference	P12-037 NORTH ALBANY, NY	Depth (ft)	NA
Project No.	2012-429-01	Sample No.	SOIL 1
Lab ID	2012-429-01-01	Soil Color	**GRAY**

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol ***SM, TESTED (NON-PLASTIC FINES)***

USCS Classification ***SILTY SAND WITH GRAVEL***

Tested By RO Date 9/18/12 Checked By KC Date 9-21-12

DCN: CT-S3A DATE 10-03-07 REVISION 4

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INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)/AASHTO T88-00 SOP-S3

Client	GEO-CON / EBC	Boring No.	NA
Client Reference	P12-037 NORTH ALBANY, NY	Depth (ft)	NA
Project No.	2012-429-01	Sample No.	SOIL 1
Lab ID	2012-429-01-01	Soil Color	**GRAY**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	922	Tare No.	88
Wgt.Tare + Wet Specimen (gm)	960.70	Wgt.Tare + Wet Specimen (gm)	105.67
Wgt.Tare + Dry Specimen (gm)	947.80	Wgt.Tare + Dry Specimen (gm)	104.03
Weight of Tare (gm)	100.28	Weight of Tare (gm)	6.73
Weight of Water (gm)	12.90	Weight of Water (gm)	1.64
Weight of Dry Soil (gm)	847.52	Weight of Dry Soil (gm)	97.30
Moisture Content (%)	**1.5**	**Moisture Content (%)**	**1.7**

Wet Weight -3/4" Sample (gm)	2993	Weight of the Dry Specimen (gm)	847.52
Dry Weight - 3/4" Sample (gm)	2948.1	Weight of minus #200 material (gm)	146.36
Wet Weight +3/4" Sample (gm)	99.18	Weight of plus #200 material (gm)	701.16
Dry Weight + 3/4" Sample (gm)	97.54		
Total Dry Weight Sample (gm)	3045.7	**J - Factor (Percent Finer than 3/4")**	**0.9680**

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)		Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00		0.00	0.00	100.00	**100.00**
6"	150	0.00		0.00	0.00	100.00	**100.00**
3"	75	0.00		0.00	0.00	100.00	**100.00**
2"	50	0.00	(*)	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00		0.00	0.00	100.00	**100.00**
1"	25	0.00		0.00	0.00	100.00	**100.00**
3/4"	19	99.18		3.20	3.20	96.80	**96.80**
1/2"	12.5	58.62		6.92	6.92	93.08	**90.10**
3/8"	9.5	69.82		8.24	15.15	84.85	**82.13**
#4	4.75	142.12		16.77	31.92	68.08	**65.90**
#10	2	159.53		18.82	50.75	49.25	**47.68**
#20	0.85	92.66	(**)	10.93	61.68	38.32	**37.09**
#40	0.425	63.99		7.55	69.23	30.77	**29.78**
#60	0.25	50.70		5.98	75.21	24.79	**23.99**
#140	0.106	49.65		5.86	81.07	18.93	**18.32**
#200	0.075	14.07		1.66	82.73	17.27	**16.72**
Pan	-	146.36		17.27	100.00	-	-

Notes : *(*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample*
*(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen*

Tested By RO Date 9/18/12 Checked By KC Date 9-21-12

DCN: CT-S3A DATE 10-03-07 REVISION 4

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ATTERBERG LIMIT

ASTM D 4318-00 (SOP - S4)

Client	GEO-CON / EBC	Boring No.	NA
Client Reference	P12-037 NORTH ALBANY, NY	Depth (ft)	NA
Project No.	2012-429-01	Sample No.	SOIL 1
Lab ID	2012-429-01-01	Visual	**GRAY SILT**
			(MInus No. 40 sieve material, Airdried)

NON - PLASTIC MATERIAL

Tested By BK *Date* 9/21/12 *Checked By* BC *Date* 9-21-12

DCN: CT S4C DATE: 7 11 97 REVISION : 2

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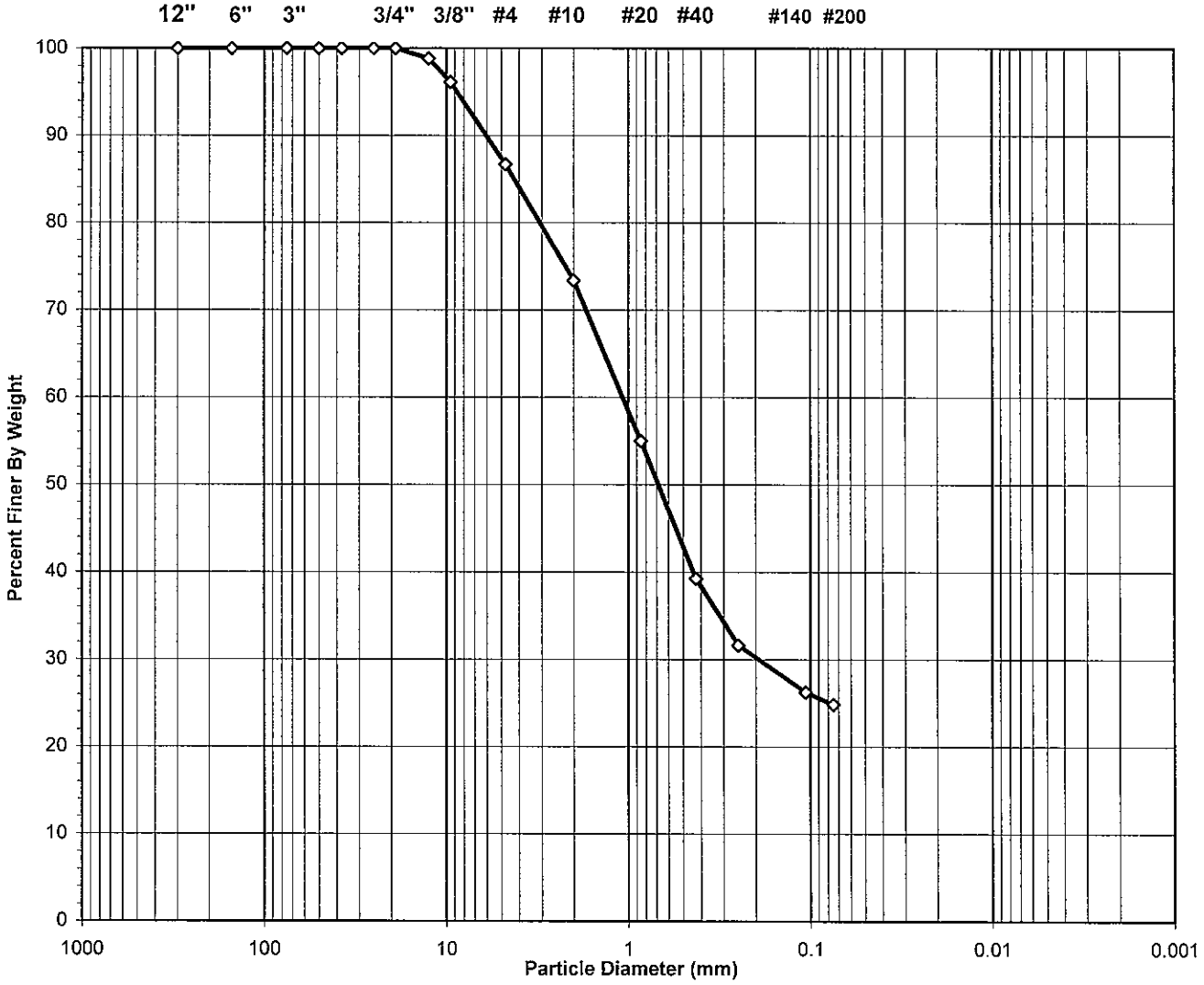
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SIEVE ANALYSIS
ASTM D 422-63 (2007) SOP-S3

Client	GEO-CON / EBC	Boring No.	NA
Client Reference	P12-037 NORTH ALBANY, NY	Depth (ft)	NA
Project No.	2012-429-01	Sample No.	SOIL 2
Lab ID	2012-429-01-02	Soil Color	**GRAY**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol ***SM, TESTED***

USCS Classification ***SILTY SAND***

Tested By RO Date 9/18/12 Checked By KC Date 3-25-13

DCN: CT-S3C DATE 6-25-98 REVISION: 2

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WASH SIEVE ANALYSIS

ASTM D 422-63 (2007) SOP-S3

Client	GEO-CON / EBC	Boring No.	NA
Client Reference	P12-037 NORTH ALBANY, NY	Depth (ft)	NA
Project No.	2012-429-01	Sample No.	SOIL 2
Lab ID	2012-429-01-02	Soil Color	**GRAY**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	2485	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	972.60	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	963.70	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	96.14	Weight of Tare (gm)	NA
Weight of Water (gm)	8.90	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	867.56	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**1.0**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	867.56
Dry Weight - 3/4" Sample (gm)	652.2	Weight of minus #200 material (gm)	215.37
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	652.19
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	10.21	1.18	1.18	98.82	**98.82**
3/8"	9.50	23.19	2.67	3.85	96.15	**96.15**
#4	4.75	82.39	9.50	13.35	86.65	**86.65**
#10	2.00	115.24	13.28	26.63	73.37	**73.37**
#20	0.850	159.75	18.41	45.04	54.96	**54.96**
#40	0.425	136.16	15.69	60.74	39.26	**39.26**
#60	0.250	66.22	7.63	68.37	31.63	**31.63**
#140	0.106	46.78	5.39	73.76	26.24	**26.24**
#200	0.075	12.25	1.41	75.18	24.82	**24.82**
Pan	-	215.37	24.82	100.00	-	-

Tested By RO Date 9/18/12 Checked By [signature] Date 9-24-12

DCN: CT-S3C DATE 6-25-98 REVISION: 2

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INTEGRITY IN TESTING

ATTERBERG LIMITS

ASTM D 4318-10 / AASHTO T89 (SOP - S4A)

Client	GEO-CON / EBC	Boring No.	NA
Client Reference	P12-037 NORTH ALBANY, NY	Depth (ft)	NA
Project No.	2012-429-01	Sample No.	SOIL 2
Lab ID	2012-429-01-02	Soil Description	**GRAY LEAN CLAY**

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description. (Minus No. 40 sieve material, Airdried)

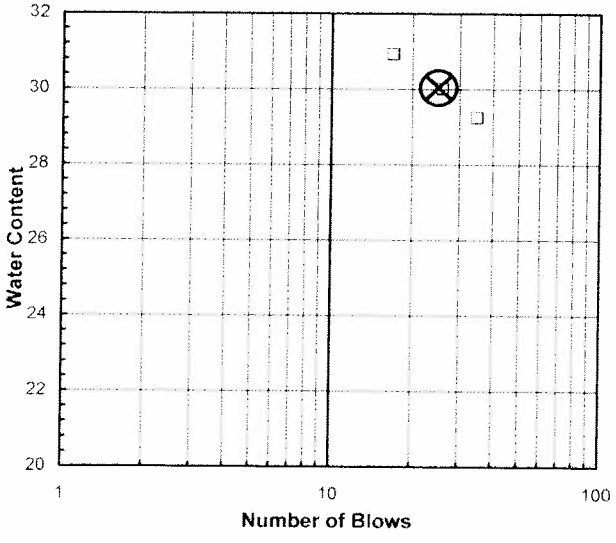
Liquid Limit Test	**1**	**2**	**3**	
				M
Tare Number	329	284	2045	**U**
Wt. of Tare & WS (gm)	39.79	41.11	42.05	**L**
Wt. of Tare & DS (gm)	34.72	35.86	36.84	**T**
Wt. of Tare (gm)	18.32	18.36	19.02	**I**
Wt. of Water (gm)	5.1	5.3	5.2	**P**
Wt. of DS (gm)	16.4	17.5	17.8	**O**
				I
Moisture Content (%)	**30.9**	**30.0**	**29.2**	**N**
Number of Blows	**17**	**26**	**35**	**T**

Plastic Limit Test	**1**	**2**	**Range**
Tare Number	221	40A	
Wt. of Tare & WS (gm)	26.77	23.47	
Wt. of Tare & DS (gm)	25.84	22.60	
Wt. of Tare (gm)	20.20	17.41	
Wt. of Water (gm)	0.9	0.9	
Wt. of DS (gm)	5.6	5.2	
Moisture Content (%)	**16.5**	**16.8**	**-0.3**

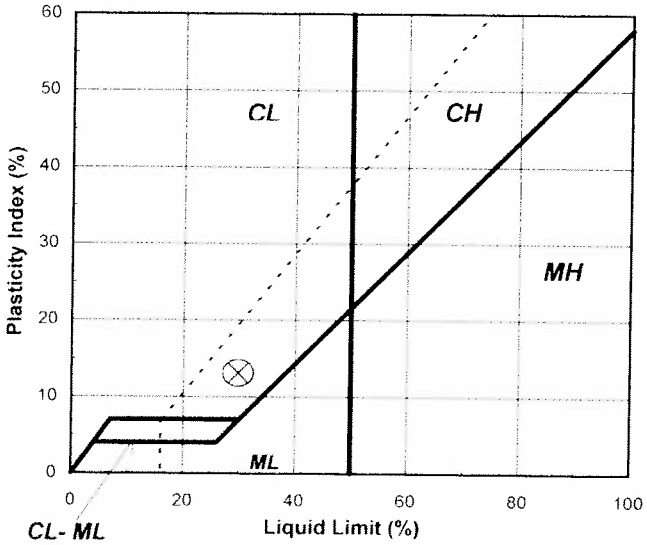
Note: The acceptable range of the two Moisture contents is ± 2.6

Test Results	
Liquid Limit (%)	**30**
Plastic Limit (%)	**17**
Plasticity Index (%)	**13**
USCS Symbol	**CL**

Flow Curve



Plasticity Chart



Tested By BK *Date* 9/21/12 *Checked By* [signature] *Date* 9-24-12

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MOISTURE CONTENT

ASTM D 2216-10 (SOP-S1)

Client	GEO-CON / EBC
Client Reference	P12-037 NORTH ALBANY, NY
Project No.	2012-429-02

Lab ID	01	02
Boring No.	NA	NA
Depth (ft)	NA	NA
Sample No.	SOIL 1	SOIL 2
Tare Number	5	43
Wt. of Tare & WS (gm)	231.96	150.36
Wt. of Tare & DS (gm)	200.61	115.84
Wt. of Tare (gm)	8.24	8.33
Wt. of Water (gm)	31.35	34.52
Wt. of DS (gm)	192.37	107.51
Water Content (%)	**16.3**	**32.1**

Notes : *NA*

Tested By PC *Date* 10/3/12 *Checked By* KL *Date* 10-4-12

DCN: CT S1 DATE 1 2 10 REVISION 1

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-01
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-01	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.697	Top Dia. (in)	2.047
Length 2(in)	3.699	Mid. Dia. (in)	2.039
Length 3(in)	3.702	Bot. Dia. (in)	2.027
Avg.Length(in)	3.699	Area (in.^2)	3.261

WATER CONTENT AFTER TEST

Tare No.	2513
Wt. Tare + WS.(gms)	284.50
Wt. Tare + DS.(gms)	237.66
Wt. of Tare(gms)	8.33
% Moisture	20.42

UNIT WEIGHT

Wt. Tube & WS (gms.)	406.9	Sample Volume(cc.)	197.7
Wt. Of Tube(gms.)	17.7	Unit Wet Wt.(gms/cc)	1.97
Wt. Of WS.(gms.)	389.23	Unit Wet Wt.(pcf.)	122.86
Diameter (in.)	2.04	Moisture Content, %	20.42
Length (in.)	3.70	Unit Dry Wt.(pcf.)	102.02
Length (cm.)	9.40		

ELECTRONIC DEVICE DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	-0.1	0.00	0.00	0.00
0.002	1.9	0.05	0.05	0.60
0.003	5.2	0.10	0.09	1.62
0.007	15.7	0.20	0.20	4.84
0.013	46.4	0.35	0.34	14.20
0.020	115.4	0.55	0.55	35.21
0.030	223.3	0.80	0.80	67.95
0.037	305.5	1.00	1.00	92.76
0.041	334.6	1.10	1.10	101.50
0.055	385.6	1.50	1.49	116.49
0.070	306.6	1.90	1.90	92.24
0.092	180.8	2.50	2.50	54.07
0.107	133.5	2.90	2.89	39.77

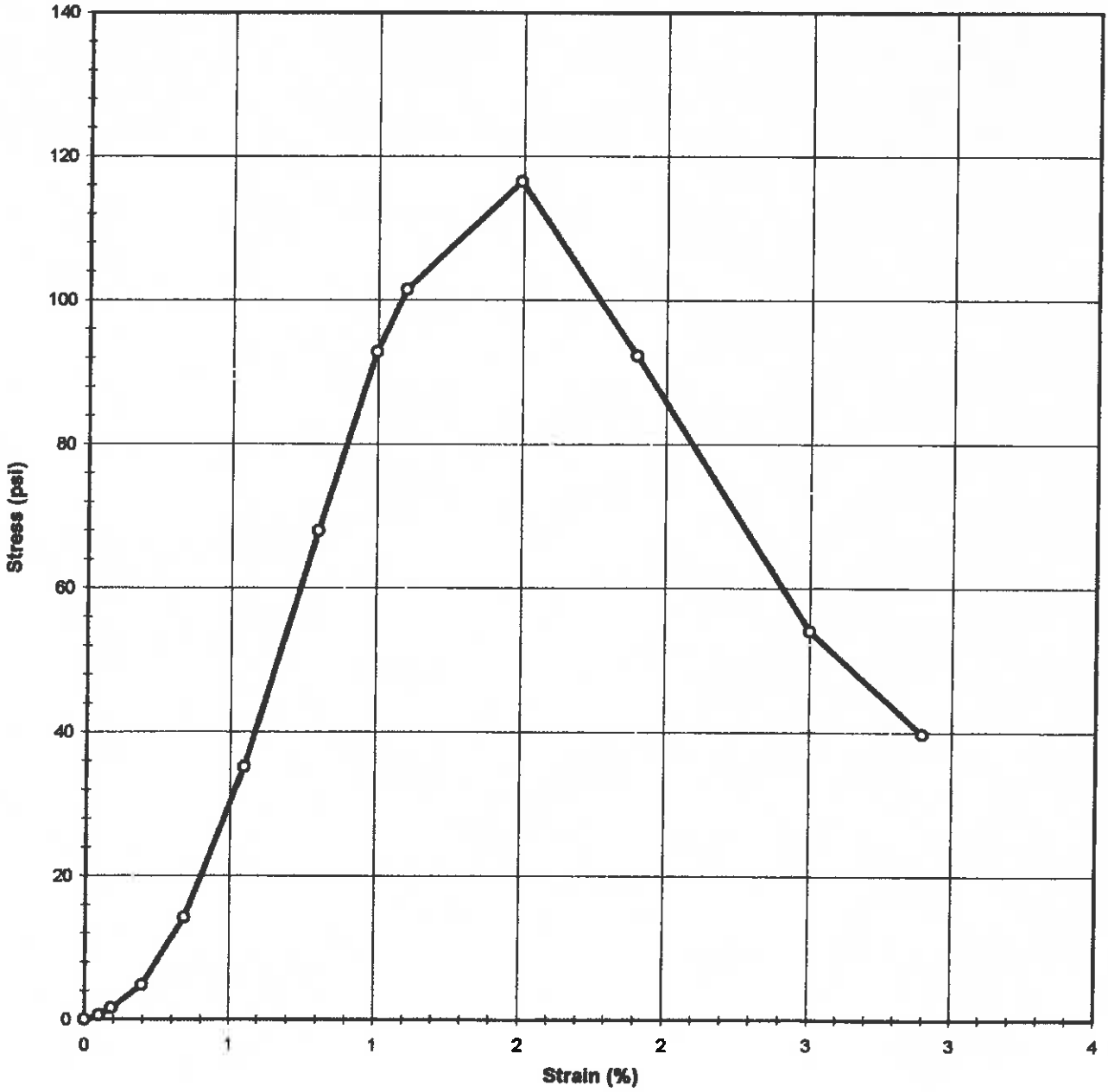
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-01
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-01	Visual	Gray Stabilized Material



Tested By JAM Date 10/15/12 Approved By CK Date 10-16-12

 DCN: CT-S30 Date: 11/09/09 Revision: 4 \\Geoserver\data drive\Dave\UNCONFINES\[2012-429-03-01.xls]Sheet1

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-02
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-02	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.552	Top Dia. (in)	2.045
Length 2(in)	3.550	Mid. Dia. (in)	2.031
Length 3(in)	3.554	Bot. Dia. (in)	2.026
Avg.Length(in)	3.552	Area (in.^2)	3.249

WATER CONTENT AFTER TEST

Tare No.	1511
Wt. Tare + WS.(gms)	316.91
Wt. Tare + DS.(gms)	263.10
Wt. of Tare(gms)	6.85
% Moisture	21.00

UNIT WEIGHT

Wt. Tube & WS.(gms.)	387.7	Sample Volume(cc.)	189.1
Wt. Of Tube(gms.)	16.8	Unit Wet Wt.(gms/cc)	1.96
Wt. Of WS.(gms.)	370.95	Unit Wet Wt.(pcf.)	122.39
Diameter (in.)	2.03	Moisture Content, %	21.00
Length (in.)	3.55	Unit Dry Wt.(pcf.)	101.15
Length (cm.)	9.02		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	-0.3	0.00	0.00	0.00
0.002	1.5	0.05	0.05	0.56
0.003	1.6	0.10	0.10	0.60
0.007	3.1	0.20	0.19	1.04
0.012	21.5	0.35	0.35	6.69
0.019	115.3	0.55	0.54	35.40
0.028	260.4	0.80	0.79	79.60
0.043	542.0	1.20	1.20	164.89
0.057	691.8	1.60	1.60	209.60
0.071	628.3	2.00	2.00	189.60
0.085	510.9	2.40	2.40	153.54
0.107	262.1	3.00	3.00	78.34

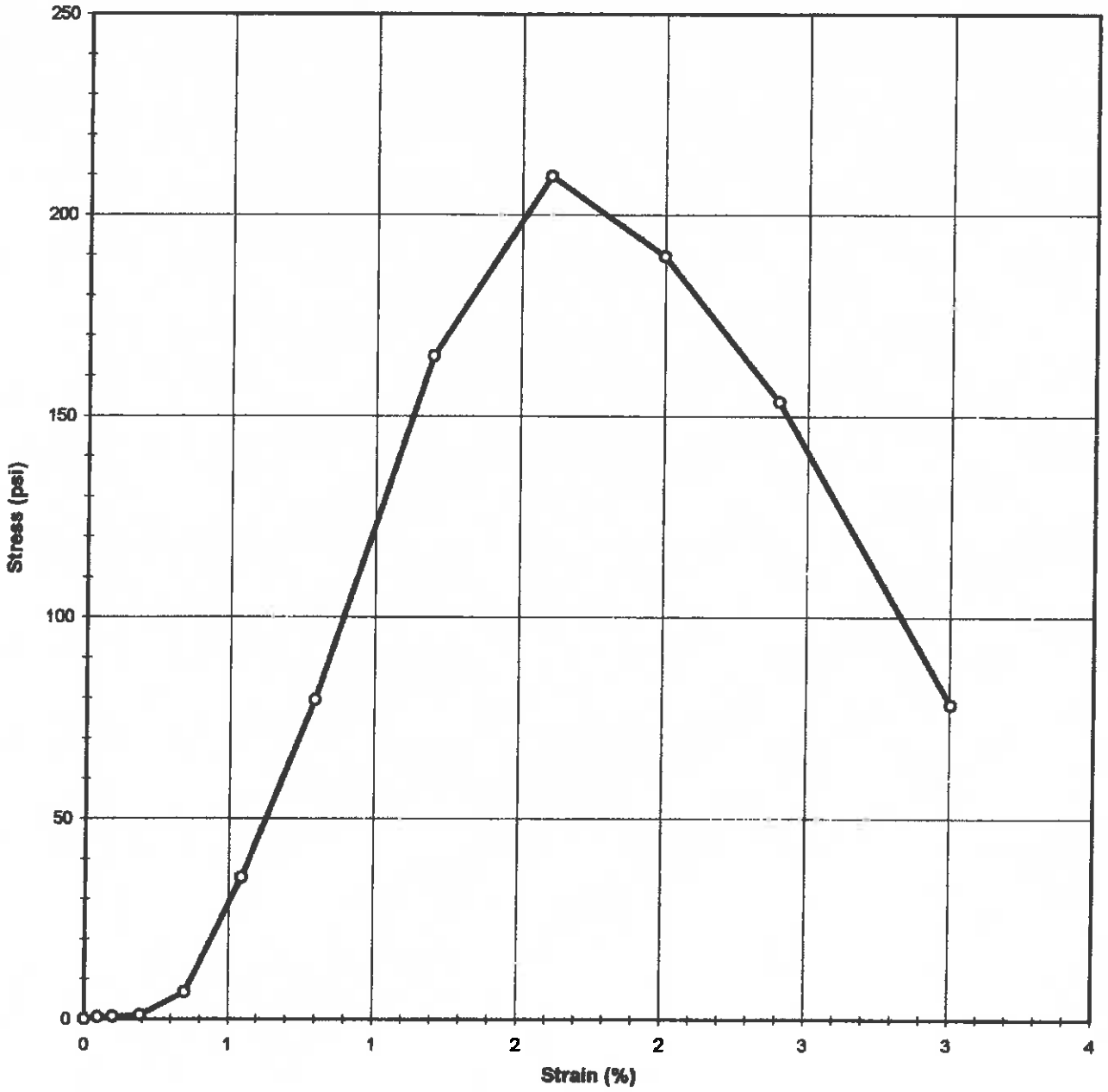
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-02
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-02	Visual	Gray Stabilized Material



Tested By JAM Date 10/15/12 Approved By CK Date 10-16-12

DCN: CT-S30 Date: 11/09/09 Revision: 4
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-03
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-03	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.718	Top Dia. (in)	2.053
Length 2(in)	3.723	Mid. Dia. (in)	2.047
Length 3(in)	3.718	Bot. Dia. (in)	2.026
Avg.Length(in)	3.720	Area (in.^2)	3.275

WATER CONTENT AFTER TEST

Tare No.	121
Wt. Tare + WS.(gms)	271.86
Wt. Tare + DS.(gms)	223.28
Wt. of Tare(gms)	6.75
% Moisture	22.44

UNIT WEIGHT

Wt. Tube & WS.(gms.)	407.4	Sample Volume(cc.)	199.6
Wt. Of Tube(gms.)	17.9	Unit Wet Wt.(gms/cc)	1.95
Wt. Of WS.(gms.)	389.55	Unit Wet Wt.(pcf.)	121.77
Diameter (in.)	2.04	Moisture Content, %	22.44
Length (in.)	3.72	Unit Dry Wt.(pcf.)	99.46
Length (cm.)	9.45		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	0.8	0.00	0.00	0.00
0.002	2.5	0.05	0.05	0.52
0.003	7.5	0.10	0.09	2.03
0.007	16.7	0.20	0.20	4.85
0.013	49.8	0.35	0.34	14.90
0.020	112.8	0.55	0.55	33.99
0.030	231.8	0.80	0.80	69.95
0.037	364.2	1.00	0.99	109.86
0.041	439.7	1.10	1.10	132.54
0.056	620.4	1.50	1.49	186.35
0.071	522.8	1.90	1.90	156.37
0.093	375.3	2.50	2.50	111.49
0.108	283.7	3.75	2.89	83.87
0.137	155.9	4.30	3.69	45.61

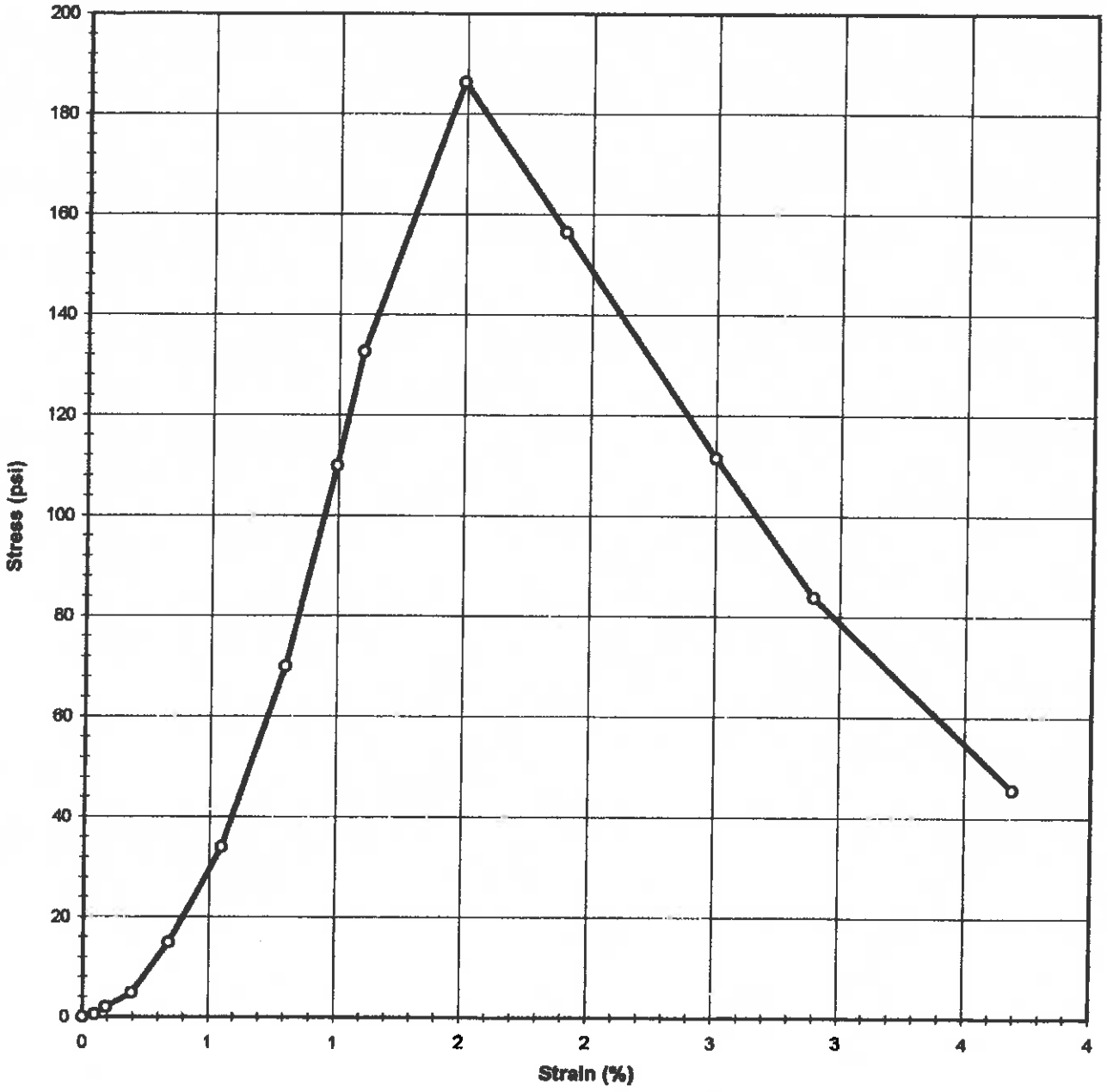
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-03
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-03	Visual	Gray Stabilized Material



Tested By JAM Date 10/15/12 Approved By CK Date 10-16-12

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-04
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-04	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.669	Top Dia. (in)	2.057
Length 2(in)	3.666	Mid. Dia. (in)	2.037
Length 3(in)	3.662	Bot. Dia. (in)	2.027
Avg.Length(in)	3.666	Area (in.^2)	3.270

WATER CONTENT AFTER TEST

Tare No.	76
Wt. Tare + WS.(gms)	285.71
Wt. Tare + DS.(gms)	234.28
Wt. of Tare(gms)	6.77
% Moisture	22.61

UNIT WEIGHT

Wt. Tube & WS.(gms.)	394.5	Sample Volume(cc.)	196.4
Wt. Of Tube(gms.)	17.3	Unit Wet Wt.(gms/cc)	1.92
Wt. Of WS.(gms.)	377.19	Unit Wet Wt.(pcf.)	119.84
Diameter (in.)	2.04	Moisture Content, %	22.61
Length (in.)	3.67	Unit Dry Wt.(pcf.)	97.74
Length (cm.)	9.31		

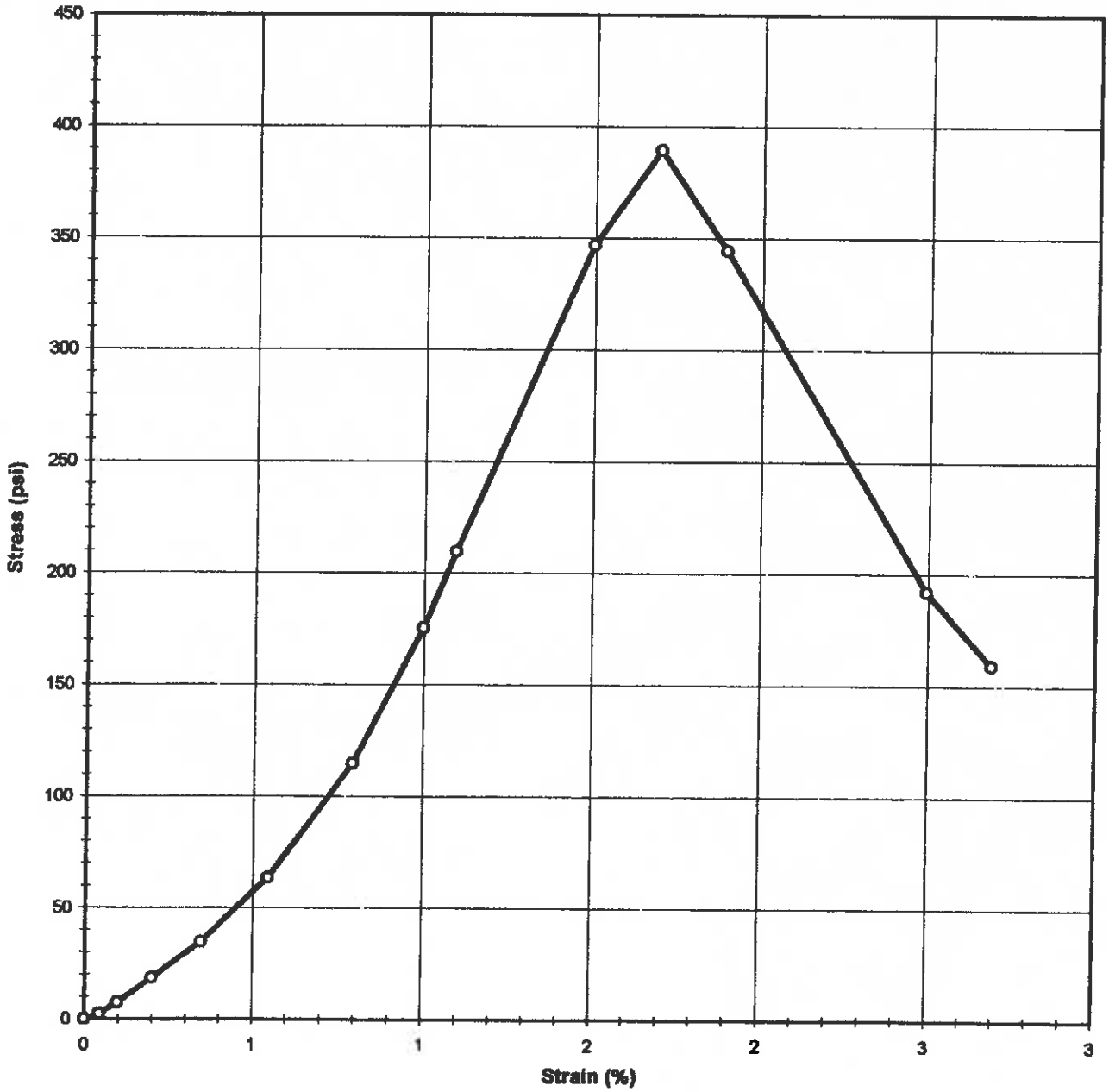
ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	1.4	0.00	0.00	0.00
0.002	9.4	0.05	0.04	2.44
0.004	25.3	0.10	0.10	7.28
0.007	62.7	0.20	0.20	18.70
0.013	115.4	0.35	0.35	34.72
0.020	210.7	0.55	0.54	63.65
0.029	379.8	0.80	0.79	114.79
0.037	581.2	1.00	1.00	175.56
0.040	695.2	1.10	1.09	209.87
0.055	1152.5	1.50	1.50	346.77
0.062	1296.9	1.70	1.69	389.50
0.069	1149.3	1.90	1.89	344.44
0.091	645.7	2.50	2.49	192.14
0.099	537.2	2.70	2.69	159.46

Tested By: JAM Date: 10/15/12 Input Checked By: CK Date: 10-16-12

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-04
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-04	Visual	Gray Stabilized Material



Tested By JAM Date 10/15/12 Approved By CK Date 10-16-12

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-05
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-05	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.715	Top Dia. (in)	2.057
Length 2(in)	3.711	Mid. Dia. (in)	2.048
Length 3(in)	3.715	Bot. Dia. (in)	2.032
Avg Length(in)	3.714	Area (in.^2)	3.287

WATER CONTENT AFTER TEST

Tare No.	2503
Wt. Tare + WS.(grns)	317.76
Wt. Tare + DS.(grns)	263.90
Wt. of Tare(grns)	6.76
% Moisture	20.95

UNIT WEIGHT

Wt. Tube & WS.(gms.)	412.6	Sample Volume(cc.)	200.0
Wt. Of Tube(gms.)	17.6	Unit Wet Wt.(gms/cc)	1.98
Wt. Of WS.(gms.)	395.07	Unit Wet Wt.(pcf.)	123.25
Diameter (in.)	2.05	Moisture Content, %	20.95
Length (in.)	3.71	Unit Dry Wt.(pcf.)	101.91
Length (cm.)	9.43		

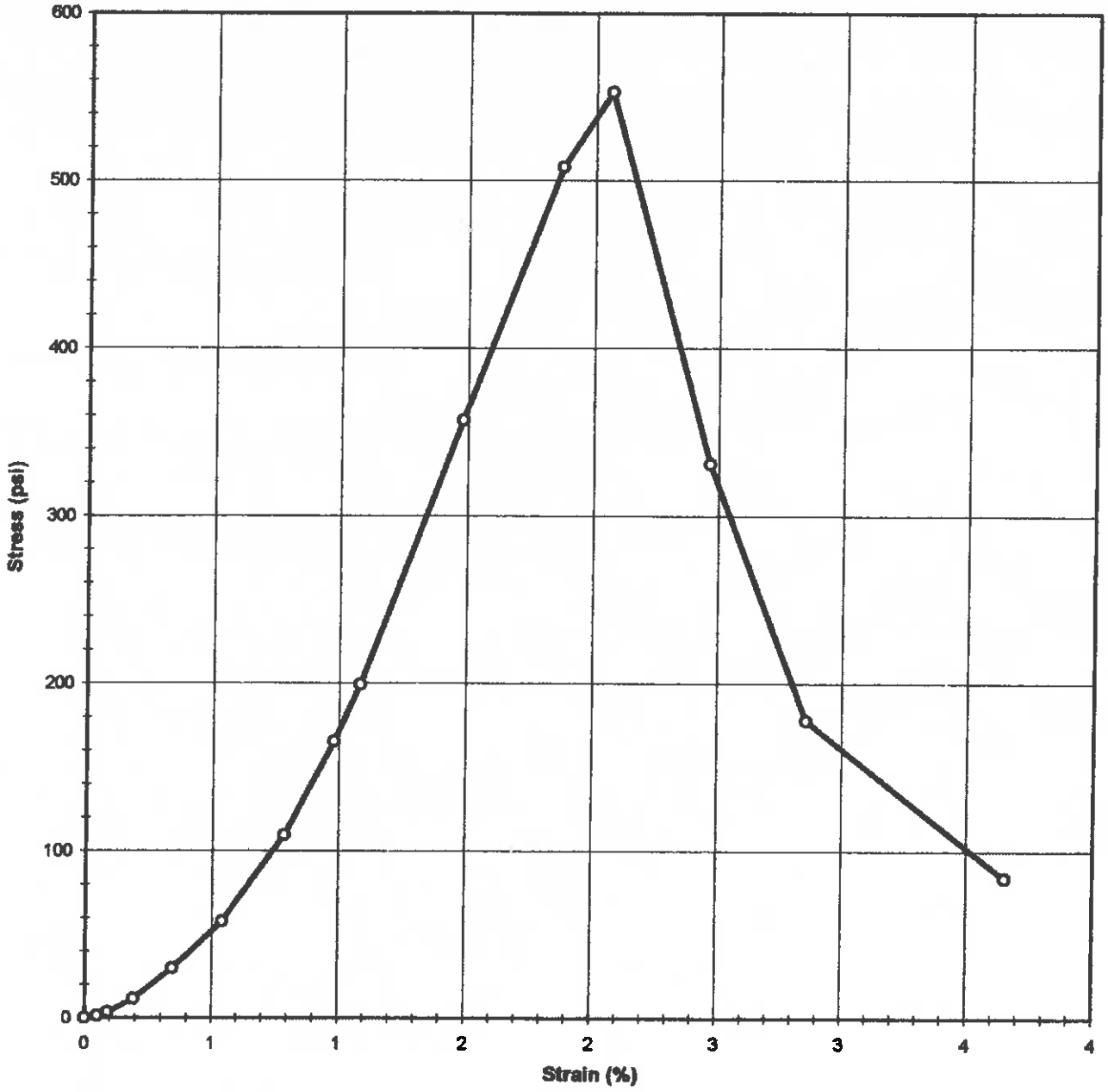
ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	1.6	0.00	0.00	0.00
0.002	6.2	0.05	0.05	1.39
0.003	13.3	0.10	0.09	3.55
0.007	38.8	0.20	0.19	11.29
0.013	100.2	0.35	0.35	29.90
0.020	192.7	0.55	0.54	57.83
0.029	364.7	0.80	0.79	109.61
0.036	551.0	1.00	0.98	165.52
0.040	663.9	1.10	1.08	199.31
0.055	1192.8	1.50	1.48	357.07
0.070	1704.1	1.90	1.87	508.30
0.077	1857.2	2.10	2.07	552.90
0.092	1117.3	2.50	2.47	331.09
0.106	604.4	2.90	2.86	178.17
0.136	289.0	3.70	3.65	84.25

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-05
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-05	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-06
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-06	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.692	Top Dia. (in)	2.052
Length 2(in)	3.690	Mid. Dia. (in)	2.046
Length 3(in)	3.688	Bot. Dia. (in)	2.028
Avg.Length(in)	3.690	Area (in.^2)	3.275

WATER CONTENT AFTER TEST

Tare No.	1493
Wt. Tare + WS.(gms)	239.56
Wt. Tare + DS.(gms)	196.65
Wt. of Tare(gms)	6.91
% Moisture	22.62

UNIT WEIGHT

Wt. Tube & WS.(gms.)	385.8	Sample Volume(cc.)	198.0
Wt. Of Tube(gms.)	17.5	Unit Wet Wt.(gms/cc)	1.86
Wt. Of WS.(gms.)	368.25	Unit Wet Wt.(pcf.)	116.04
Diameter (in.)	2.04	Moisture Content, %	22.62
Length (in.)	3.69	Unit Dry Wt.(pcf.)	94.64
Length (cm.)	9.37		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	-0.2	0.00	0.00	0.00
0.002	-0.4	0.05	0.05	-0.07
0.004	1.3	0.10	0.10	0.46
0.007	14.0	0.20	0.19	4.32
0.013	64.1	0.35	0.35	19.57
0.020	164.4	0.55	0.55	49.98
0.029	319.1	0.80	0.80	96.73
0.037	498.6	1.00	0.99	150.79
0.040	603.0	1.10	1.10	182.17
0.055	1013.4	1.50	1.49	304.90
0.070	1132.6	1.90	1.90	339.33
0.092	533.8	2.50	2.50	158.98
0.107	364.8	2.90	2.89	108.23

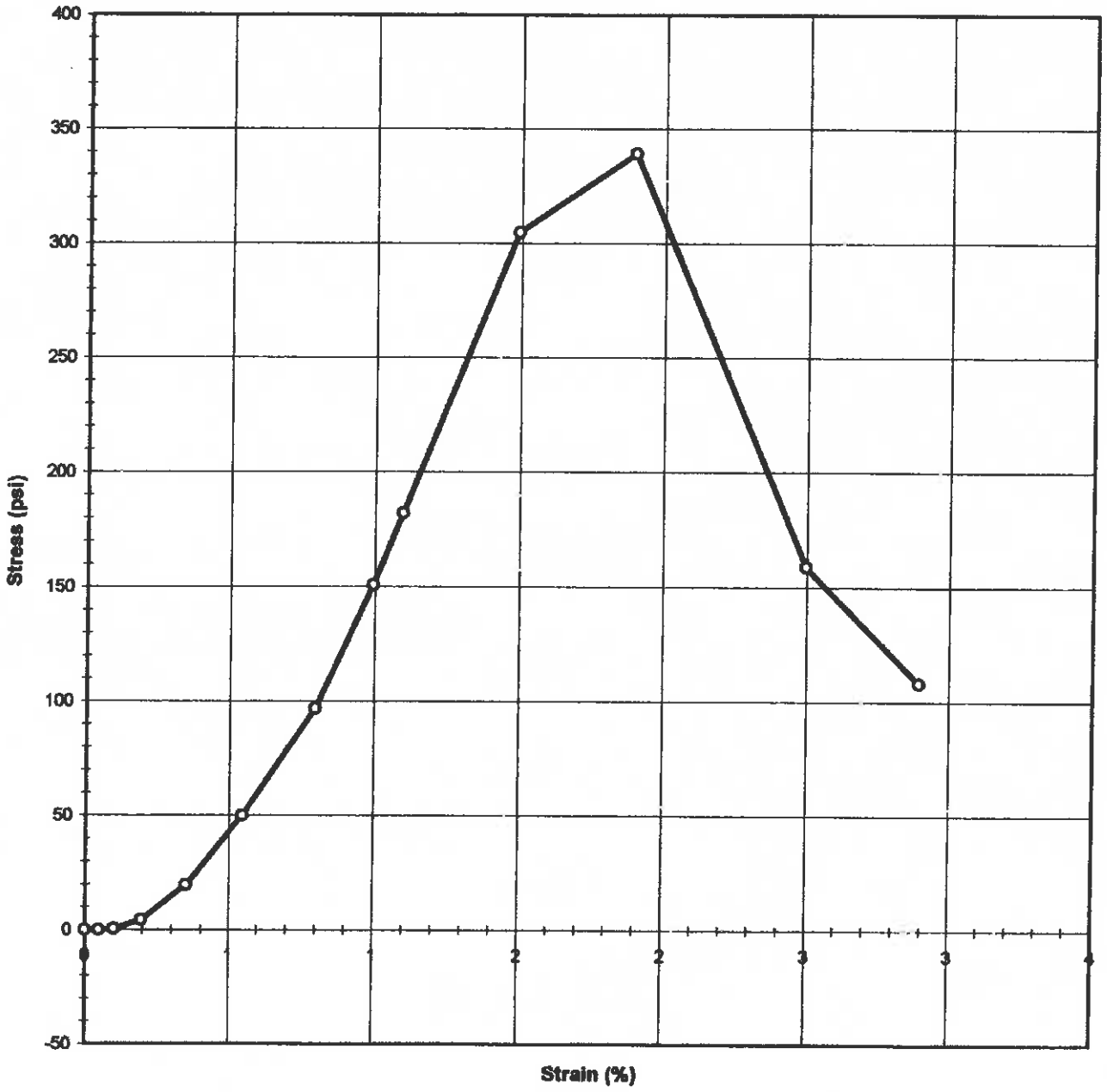
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/28/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-06
Project No.	2012-429-03	Sample No.	17 Day
Lab ID	2012-429-03-06	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-07
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-07	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.582	Top Dia. (in)	2.053
Length 2(in)	3.578	Mid. Dia. (in)	2.046
Length 3(in)	3.574	Bot. Dia. (in)	2.043
Avg.Length(in)	3.578	Area (in.^2)	3.292

WATER CONTENT AFTER TEST

Tare No.	1364
Wt. Tare + WS.(gms)	176.57
Wt. Tare + DS.(gms)	126.80
Wt. of Tare(gms)	6.87
% Moisture	41.50

UNIT WEIGHT

Wt. Tube & WS.(gms.)	343.9	Sample Volume(cc.)	193.0
Wt. Of Tube(gms.)	17.1	Unit Wet Wt.(gms/cc)	1.69
Wt. Of WS.(gms.)	326.81	Unit Wet Wt.(pcf.)	105.65
Diameter (in.)	2.05	Moisture Content, %	41.50
Length (in.)	3.58	Unit Dry Wt.(pcf.)	74.67
Length (cm.)	9.09		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	-0.4	0.00	0.00	0.00
0.002	-0.4	0.05	0.04	-0.01
0.003	0.5	0.10	0.09	0.25
0.007	1.5	0.20	0.20	0.57
0.012	4.1	0.35	0.34	1.35
0.020	10.4	0.55	0.55	3.25
0.029	17.2	0.80	0.80	5.30
0.036	30.8	1.00	1.00	9.39
0.046	30.0	1.30	1.30	9.12
0.061	36.6	1.70	1.69	11.04
0.075	40.4	2.10	2.10	12.12
0.097	57.2	2.70	2.70	17.01
0.111	114.0	3.10	3.10	33.65
0.140	147.0	3.90	3.90	43.02
0.147	147.6	4.10	4.10	43.10
0.168	124.5	4.70	4.70	36.15

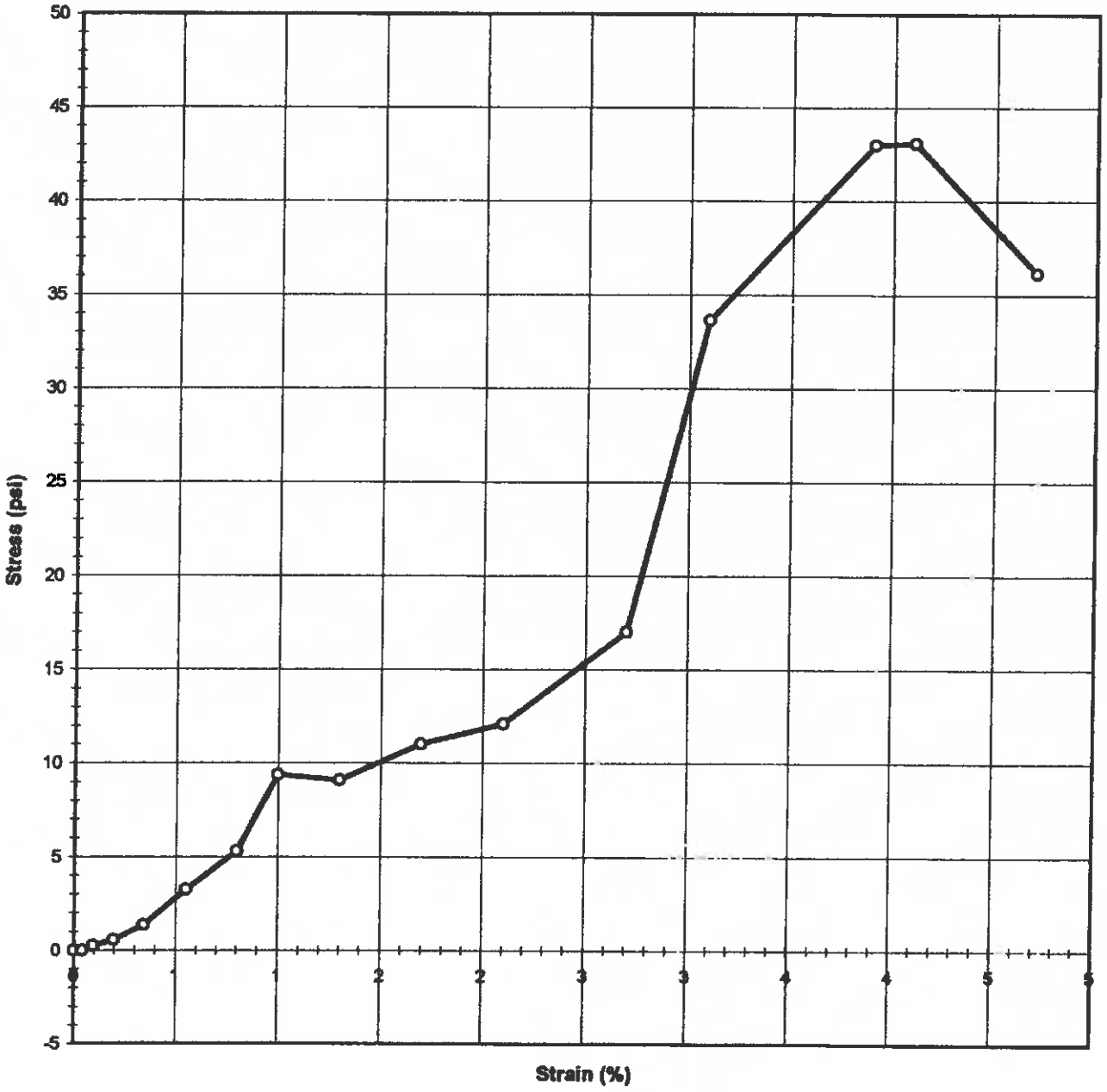
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ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-07
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-07	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-08
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-08	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.758	Top Dia. (in)	2.049
Length 2(in)	3.759	Mid. Dia. (in)	2.030
Length 3(in)	3.765	Bot. Dia. (in)	2.019
Avg Length(in)	3.761	Area (in ^2)	3.245

WATER CONTENT AFTER TEST

Tare No.	1515
Wt. Tare + WS.(gms)	268.07
Wt. Tare + DS.(gms)	191.41
Wt. of Tare(gms)	6.93
% Moisture	41.55

UNIT WEIGHT

Wt. Tube & WS.(gms.)	357.2	Sample Volume(cc.)	200.0
Wt. Of Tube(gms.)	18.1	Unit Wet Wt.(gms/cc)	1.70
Wt. Of WS.(gms.)	339.06	Unit Wet Wt.(pcf.)	105.80
Diameter (in.)	2.03	Moisture Content, %	41.55
Length (in.)	3.76	Unit Dry Wt.(pcf.)	74.74
Length (cm.)	9.55		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	18.7	0.00	0.00	0.00
0.002	32.9	0.05	0.05	4.37
0.003	39.2	0.10	0.09	6.30
0.007	51.7	0.20	0.19	10.15
0.013	70.5	0.35	0.33	15.89
0.020	96.0	0.57	0.52	23.67
0.029	116.2	0.82	0.76	29.81
0.036	123.3	1.02	0.96	31.90
0.046	127.4	1.30	1.23	33.08
0.061	116.6	1.72	1.62	29.68
0.075	102.0	2.12	2.00	25.16
0.097	84.7	2.72	2.57	19.81
0.111	78.4	3.12	2.95	17.86

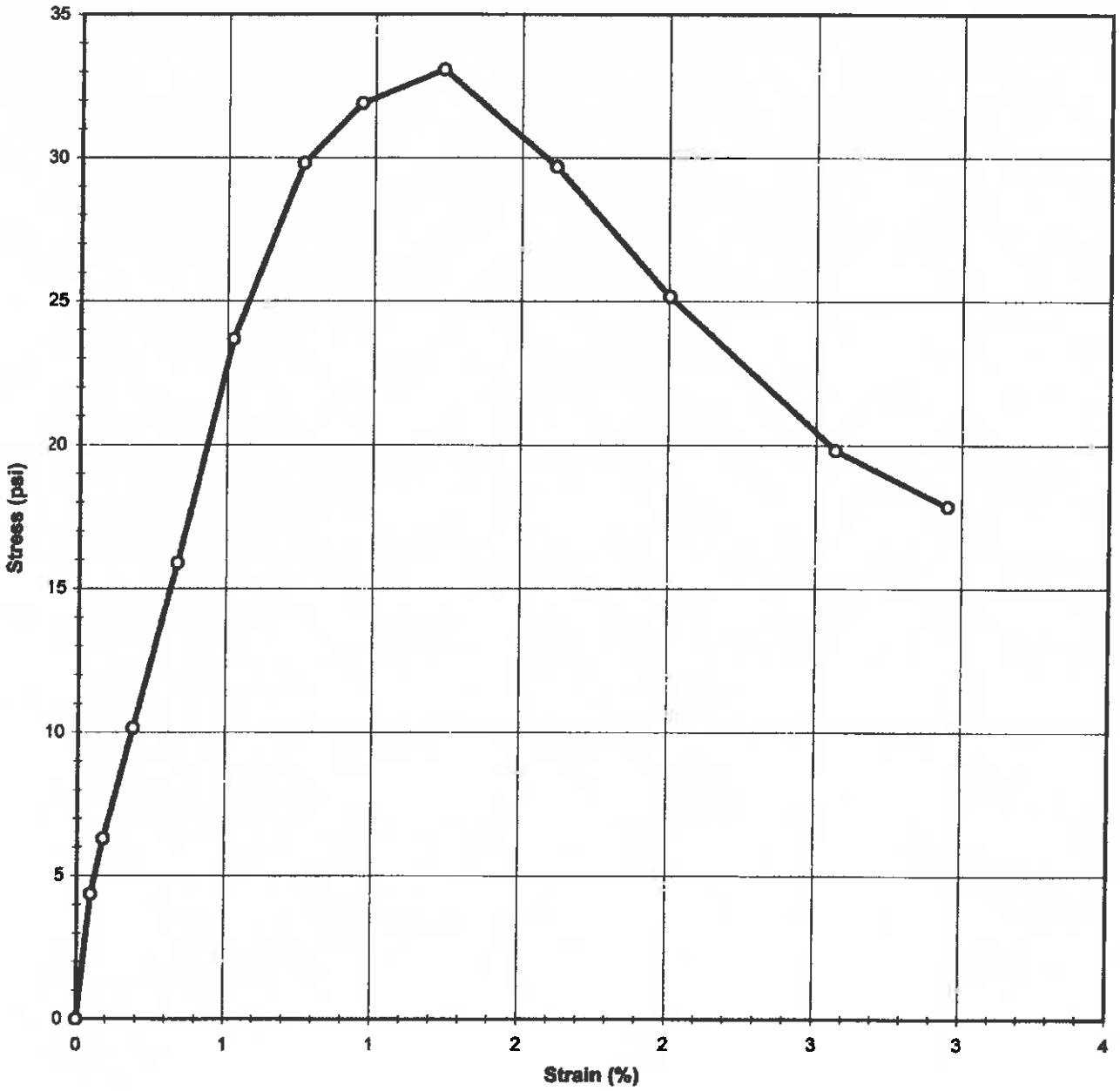
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-08
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-08	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-09
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-09	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.770	Top Dia. (in)	2.049
Length 2(in)	3.775	Mid. Dia. (in)	2.036
Length 3(in)	3.778	Bot. Dia. (in)	2.030
Avg.Length(in)	3.774	Area (in.^2)	3.263

WATER CONTENT AFTER TEST

Tare No.	2515
Wt. Tare + WS.(gms)	278.97
Wt. Tare + DS.(gms)	200.00
Wt. of Tare(gms)	8.42
% Moisture	41.22

UNIT WEIGHT

Wt. Tube & WS.(gms.)	361.5	Sample Volume(cc.)	201.8
Wt. Of Tube(gms.)	18.1	Unit Wet Wt.(gms/cc)	1.70
Wt. Of WS.(gms.)	343.45	Unit Wet Wt.(pcf.)	106.19
Diameter (in.)	2.04	Moisture Content, %	41.22
Length (in.)	3.77	Unit Dry Wt.(pcf.)	75.19
Length (cm.)	9.59		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	2.7	0.00	0.00	0.00
0.002	6.6	0.05	0.04	1.18
0.003	10.9	0.10	0.09	2.50
0.007	19.3	0.20	0.19	5.08
0.012	35.7	0.35	0.33	10.09
0.019	64.0	0.55	0.51	18.68
0.029	102.2	0.80	0.76	30.26
0.036	130.2	1.00	0.95	38.69
0.039	142.8	1.10	1.04	42.48
0.054	175.4	1.50	1.42	52.16
0.068	180.4	1.90	1.80	53.47
0.089	163.1	2.50	2.36	47.99
0.104	149.8	2.90	2.75	43.85

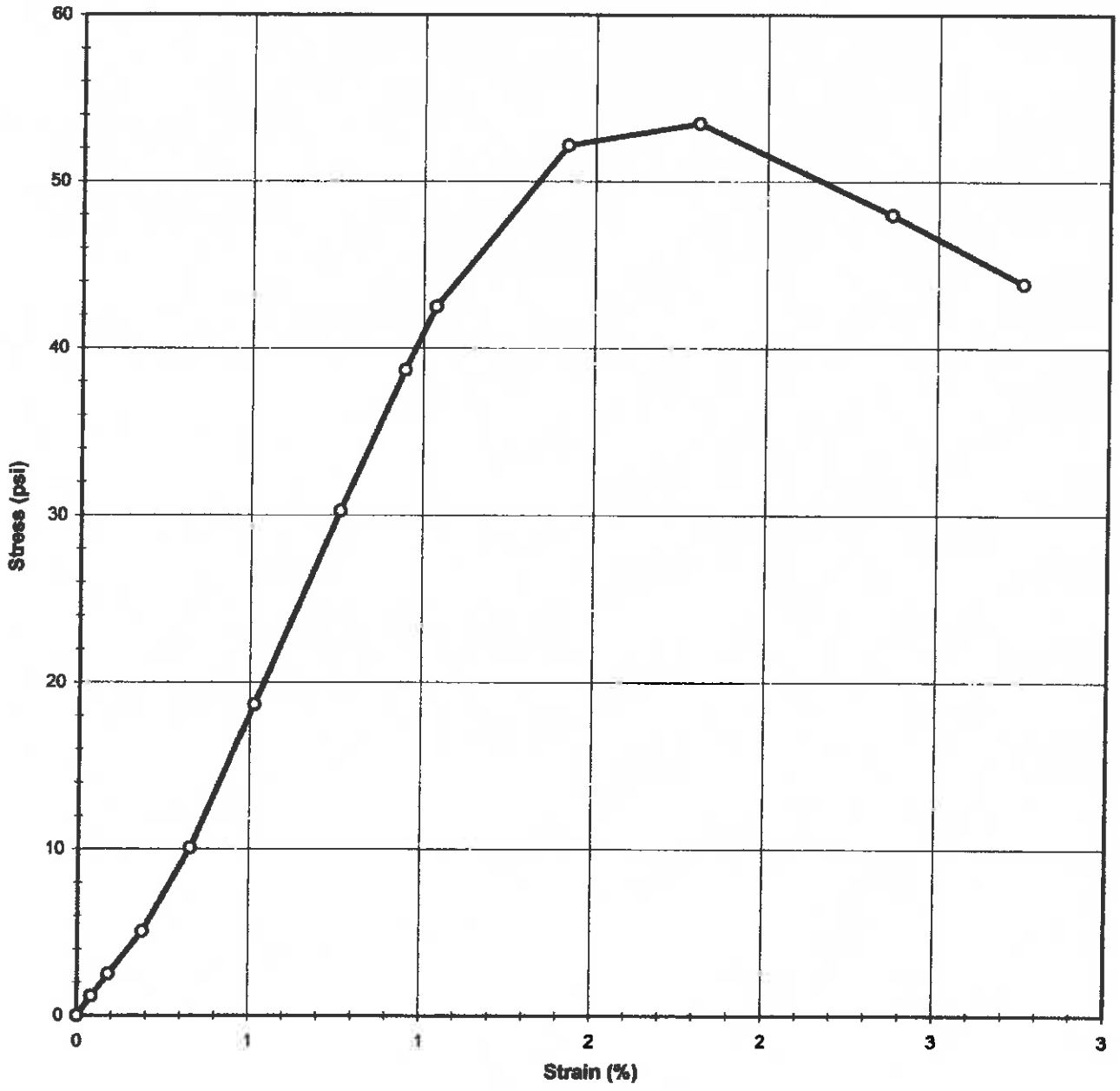
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-09
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-09	Visual	Gray Stabilized Material



Tested By JAM Date 10/15/12 Approved By CK Date 10-16-12

DCN: CT-S30 Date: 11/09/09 Revision: 4
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-10
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-10	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.746	Top Dia. (in)	2.055
Length 2(in)	3.749	Mid. Dia. (in)	2.039
Length 3(in)	3.753	Bot. Dia. (in)	2.023
Avg.Length(in)	3.749	Area (in.^2)	3.265

WATER CONTENT AFTER TEST

Tare No.	1353
Wt. Tare + WS.(gms)	263.30
Wt. Tare + DS.(gms)	182.55
Wt. of Tare(gms)	6.80
% Moisture	**45.95**

UNIT WEIGHT

Wt. Tube & WS.(gms.)	358.5	Sample Volume(cc.)	200.6
Wt. Of Tube(gms.)	18.0	Unit Wet Wt.(gms/cc)	1.70
Wt. Of WS.(gms.)	340.5	Unit Wet Wt.(pcf.)	105.91
Diameter (in.)	2.04	Moisture Content, %	45.95
Length (in.)	3.75	Unit Dry Wt.(pcf.)	72.57
Length (cm.)	9.52		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	1.1	0.00	0.00	0.00
0.002	4.0	0.05	0.04	0.89
0.004	6.0	0.10	0.09	1.48
0.007	11.1	0.20	0.20	3.06
0.013	21.2	0.35	0.34	6.13
0.021	40.4	0.55	0.55	11.95
0.030	64.3	0.80	0.80	19.19
0.037	75.5	1.00	1.00	22.56
0.041	78.5	1.10	1.10	23.45
0.056	80.2	1.50	1.49	23.85
0.071	72.3	1.90	1.90	21.39
0.094	64.2	2.50	2.50	18.83

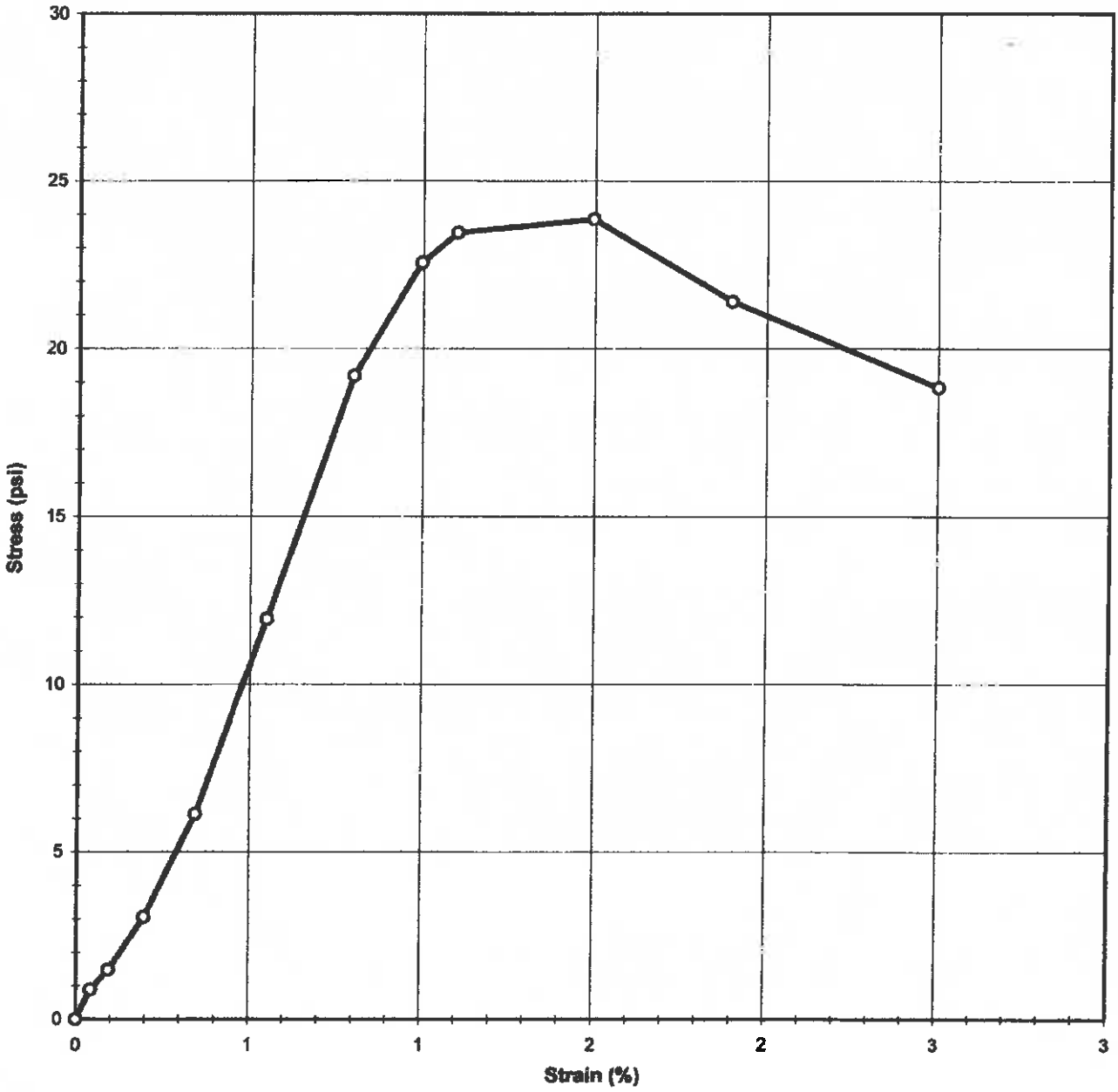
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-10
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-10	Visual	Gray Stabilized Material



Tested By JAM Date 10/15/12 Approved By CK Date 10-16-12

DCN: CT-S30 Date: 11/09/09 Revision: 4
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-11
Project No.	2012-429-03	Sample No	16 Day
Lab ID	2012-429-03-11	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.551	Top Dia. (in)	2.051
Length 2(in)	3.553	Mid. Dia. (in)	2.041
Length 3(in)	3.558	Bot. Dia. (in)	2.027
Avg.Length(in)	3.554	Area (in.^2)	3.267

WATER CONTENT AFTER TEST

Tare No.	1400
Wt. Tare + WS.(gms)	273.84
Wt. Tare + DS.(gms)	192.44
Wt. of Tare(gms)	7.09
% Moisture	43.92

UNIT WEIGHT

Wt. Tube & WS.(gms.)	339.4	Sample Volume(cc.)	190.3
Wt. Of Tube(gms.)	17.2	Unit Wet Wt.(gms/cc)	1.69
Wt. Of WS.(gms.)	322.2	Unit Wet Wt.(pcf.)	105.65
Diameter (in.)	2.04	Moisture Content, %	43.92
Length (in.)	3.55	Unit Dry Wt.(pcf.)	73.41
Length (cm.)	9.03		

ELECTRONIC DEVICE DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	1.7	0.00	0.00	0.00
0.002	3.9	0.05	0.05	0.66
0.004	6.3	0.10	0.11	1.39
0.007	13.7	0.20	0.21	3.67
0.013	32.8	0.35	0.37	9.49
0.021	76.1	0.55	0.58	22.62
0.030	122.6	0.80	0.84	36.70
0.037	136.1	1.00	1.05	40.69
0.041	138.7	1.10	1.16	41.45
0.056	147.5	1.50	1.57	43.91
0.071	154.5	1.90	2.00	45.83
0.094	131.8	2.50	2.64	38.76
0.108	112.7	2.90	3.05	32.94
0.138	92.5	3.70	3.90	26.71

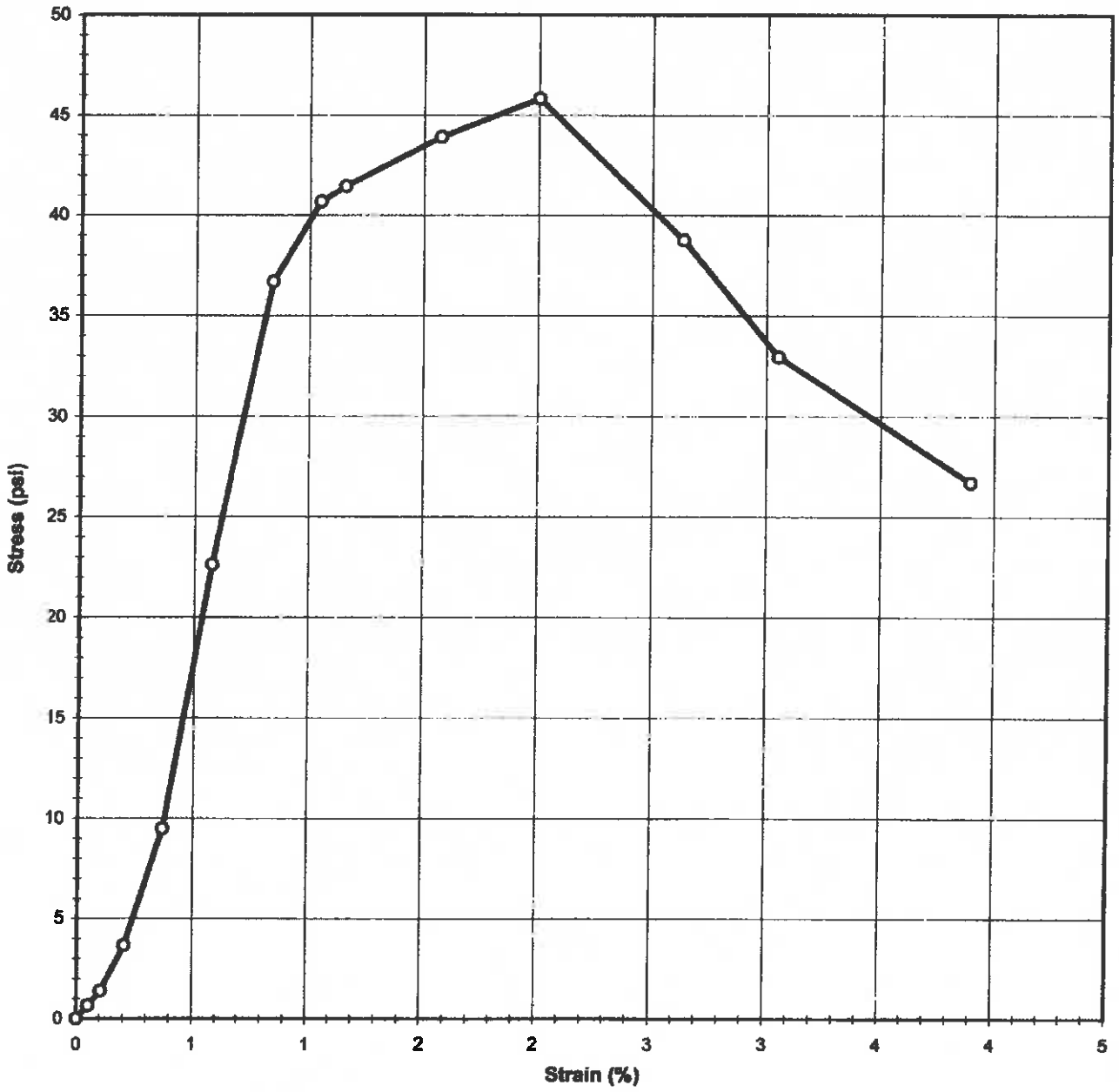
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-11
Project No.	2012-429-03	Sample No.	16 Day
Lab ID	2012-429-03-11	Visual	Gray Stabilized Material



Tested By JAM Date 10/15/12 Approved By CK Date 10-16-12

DCN: CT-S30 Date: 11/09/09 Revision: 4
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-12
Project No.	2012-429-03	Sample No.	16
Lab ID	2012-429-03-12	Visual	Gray Stabilized Clay

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.775	Top Dia. (in)	2.048
Length 2(in)	3.781	Mid. Dia. (in)	2.041
Length 3(in)	3.773	Bot. Dia. (in)	2.037
Avg.Length(in)	3.776	Area (in.^2)	3.275

WATER CONTENT AFTER TEST

Tare No.	1174
Wt. Tare + WS.(gms)	271.68
Wt. Tare + DS.(gms)	193.41
Wt. of Tare(gms)	6.75
% Moisture	41.93

UNIT WEIGHT

Wt. Tube & WS.(gms.)	362.4	Sample Volume(cc.)	202.7
Wt. Of Tube(gms.)	18.1	Unit Wet Wt.(gms/cc)	1.70
Wt. Of WS.(gms.)	344.34	Unit Wet Wt.(pcf.)	106.02
Diameter (in.)	2.04	Moisture Content, %	41.93
Length (in.)	3.78	Unit Dry Wt.(pcf.)	74.70
Length (cm.)	9.59		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	2.8	0.00	0.00	0.00
0.002	9.8	0.05	0.05	2.12
0.004	18.4	0.10	0.10	4.75
0.007	28.0	0.20	0.19	7.68
0.013	46.6	0.35	0.34	13.30
0.020	92.6	0.55	0.54	27.27
0.030	169.8	0.80	0.79	50.59
0.037	233.3	1.00	0.98	69.67
0.041	261.8	1.10	1.09	78.22
0.056	313.2	1.50	1.49	93.37
0.071	280.2	1.90	1.88	83.10
0.094	203.2	2.50	2.48	59.67
0.109	173.9	2.90	2.88	50.72

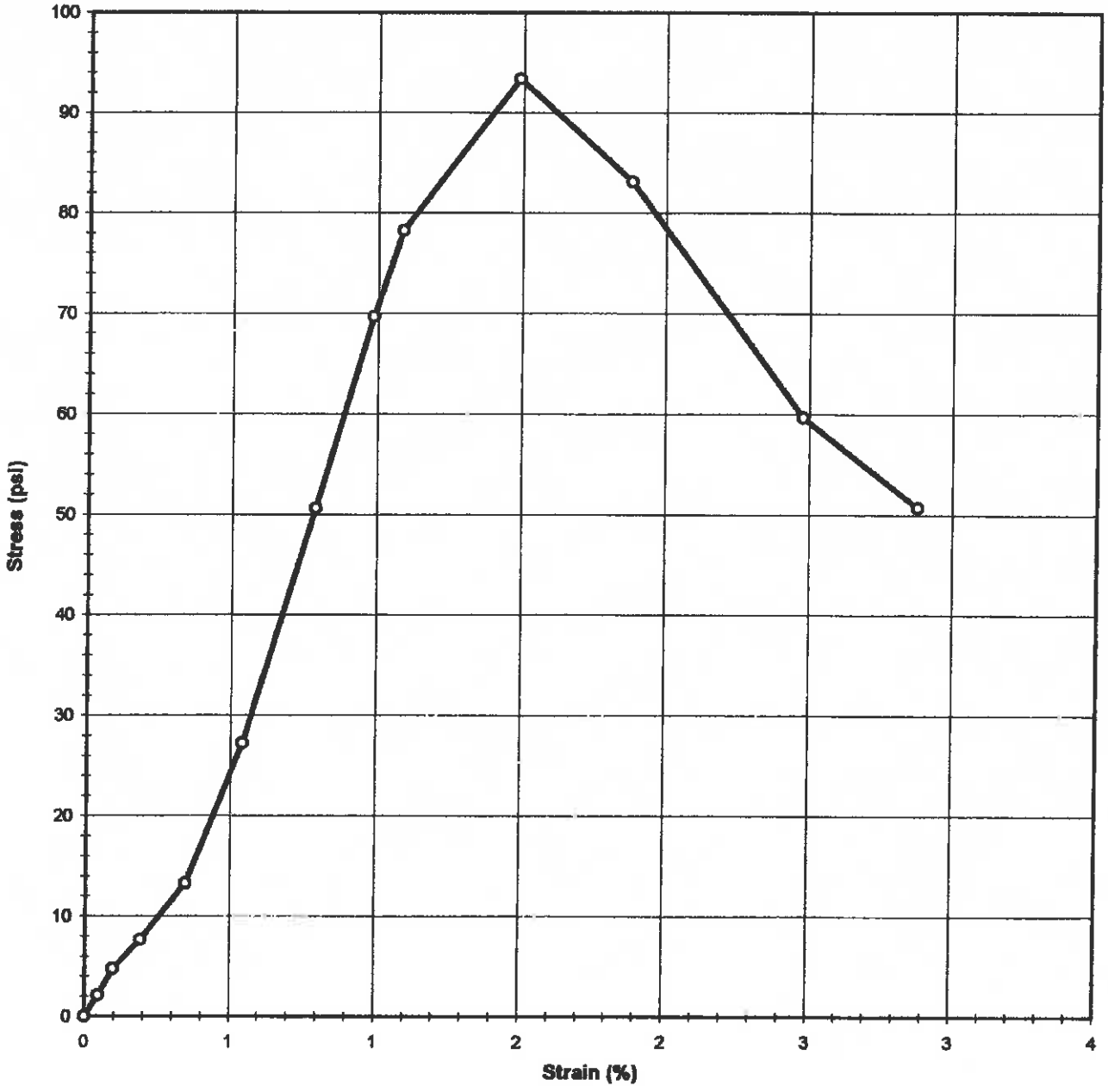
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9/29/12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-12
Project No.	2012-429-03	Sample No.	16
Lab ID	2012-429-03-12	Visual	Gray Stabilized Clay



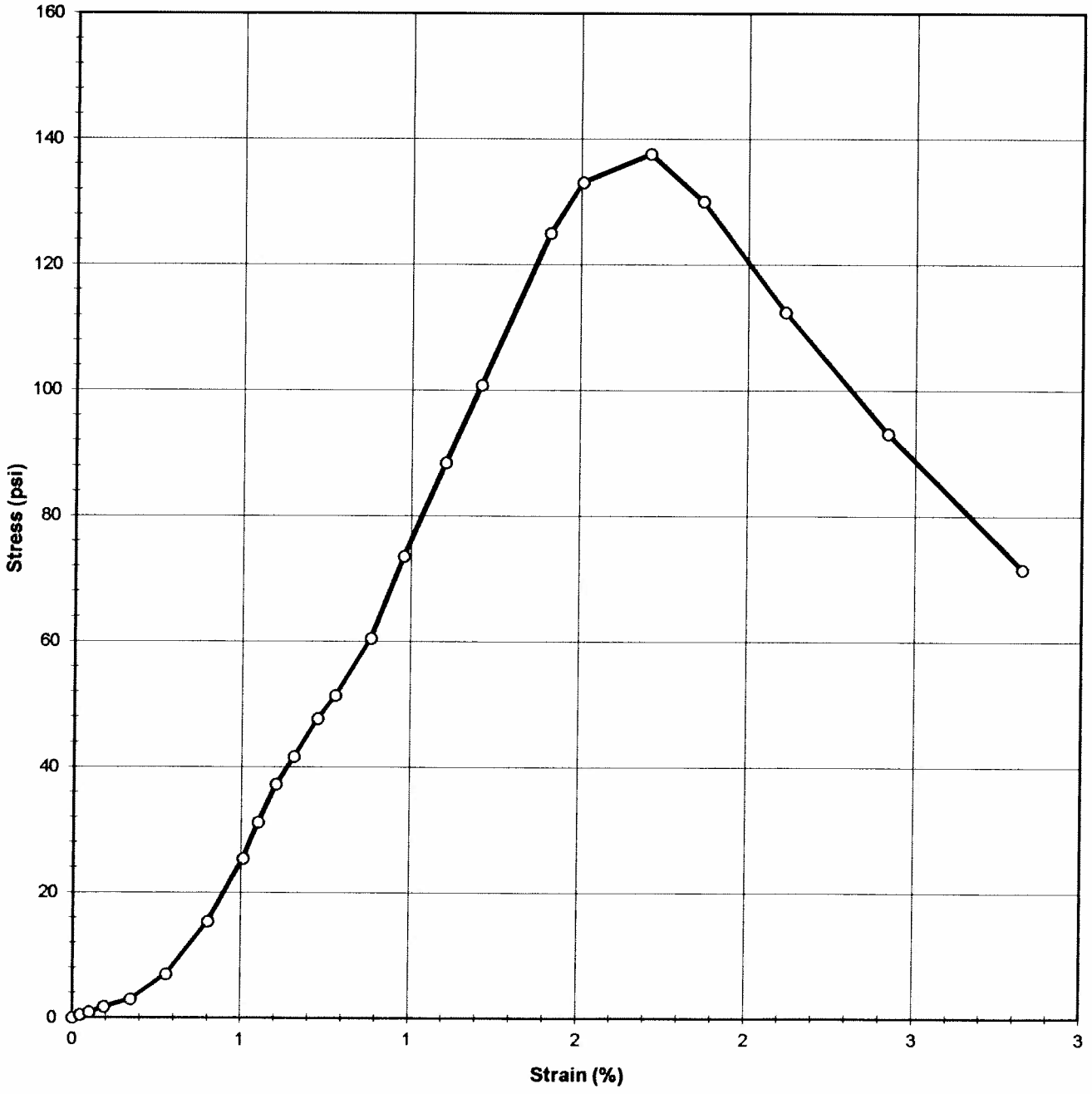
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-1
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-13	Visual	Gray Stabilized Material



Tested By JC Date 10/29/12 Approved By RSO Date 11-2-12

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-1
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-13	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.760	Top Dia. (in)	2.040
Length 2(in)	3.764	Mid. Dia. (in)	2.034
Length 3(in)	3.762	Bot. Dia. (in)	2.026
Avg.Length(in)	3.762	Area (in.^2)	3.247

WATER CONTENT AFTER TEST

Tare No.	567
Wt. Tare + WS.(gms)	485.84
Wt. Tare + DS.(gms)	419.10
Wt. of Tare(gms)	84.62
% Moisture	19.95

UNIT WEIGHT

Wt. Tube & WS.(gms.)	420.5	Sample Volume(cc.)	200.2
Wt. Of Tube(gms.)	17.9	Unit Wet Wt.(gms/cc)	2.01
Wt. Of WS.(gms.)	402.55	Unit Wet Wt.(pcf.)	125.48
Diameter (in.)	2.03	Moisture Content, %	19.95
Length (in.)	3.76	Unit Dry Wt.(pcf.)	104.61
Length (cm.)	9.56		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	1.8	0.00	0.00	0.00
0.001	3.3	0.02	0.02	0.45
0.002	4.7	0.05	0.05	0.88
0.004	7.5	0.10	0.09	1.75
0.006	11.5	0.17	0.17	2.96
0.010	24.5	0.27	0.28	6.96
0.015	51.9	0.40	0.40	15.36
0.019	84.7	0.50	0.51	25.39
0.021	103.7	0.55	0.55	31.19
0.023	123.5	0.60	0.60	37.24
0.025	138.0	0.65	0.65	41.64
0.027	157.9	0.73	0.72	47.70
0.029	170.0	0.78	0.78	51.39
0.033	200.1	0.88	0.88	60.50
0.037	243.1	0.98	0.98	73.56
0.041	292.3	1.10	1.10	88.47
0.045	333.2	1.20	1.21	100.82
0.053	413.5	1.40	1.41	124.98
0.057	440.6	1.50	1.51	133.07
0.064	456.5	1.70	1.71	137.62
0.070	432.2	1.87	1.87	130.07
0.079	374.9	2.12	2.11	112.45
0.091	311.8	2.42	2.42	93.14
0.106	240.8	2.82	2.82	71.52

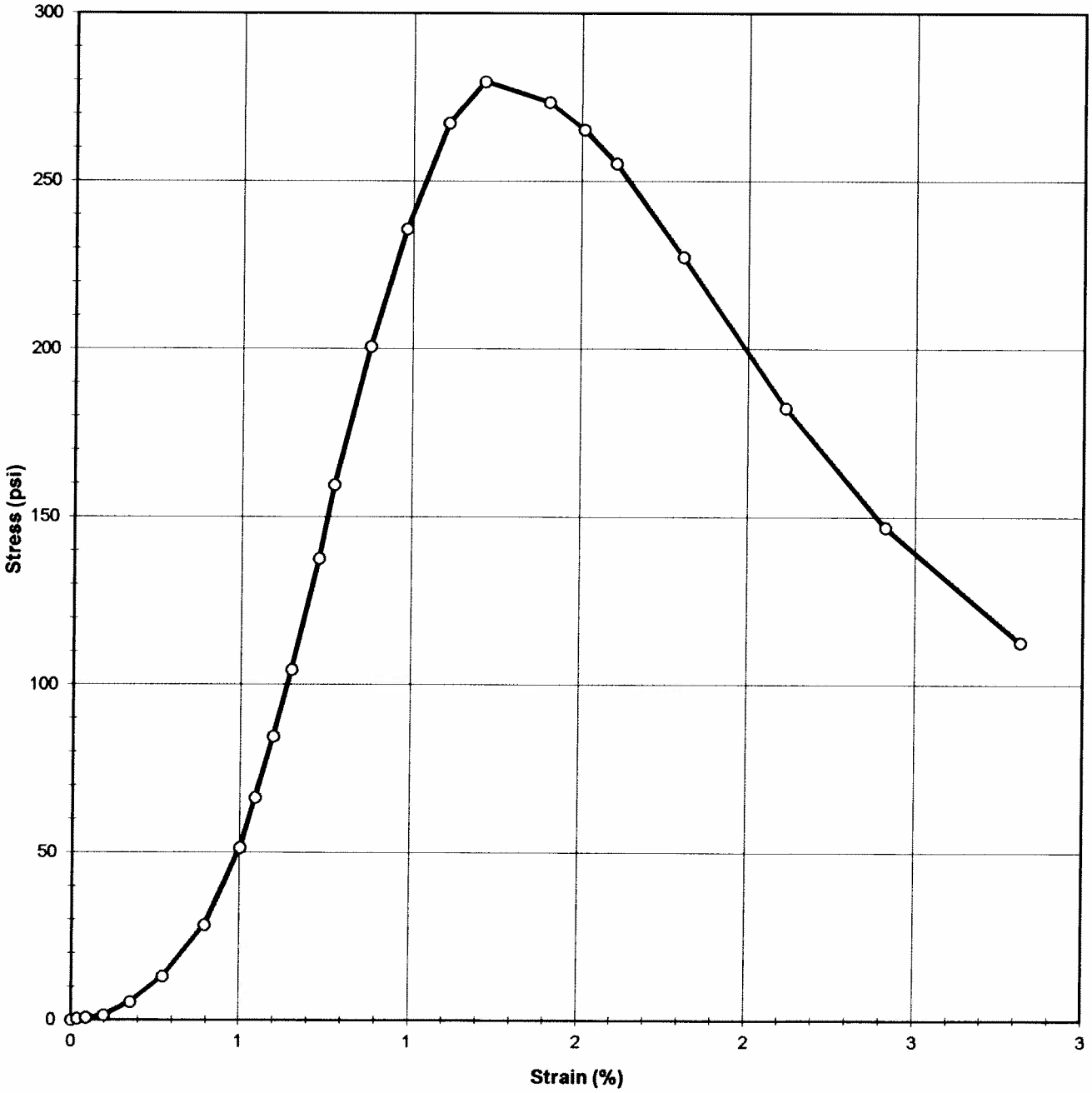
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-2
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-14	Visual	Gray Stabilized Material



Tested By JC Date 10/29/12 Approved By RJO Date 11-2-12

DCN: CT-S30 Date: 11/09/09 Revision: 4
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-2
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-14	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.657	Top Dia. (in)	2.049
Length 2(in)	3.654	Mid. Dia. (in)	2.040
Length 3(in)	3.658	Bot. Dia. (in)	2.027
Avg.Length(in)	3.656	Area (in.^2)	3.264

WATER CONTENT AFTER TEST

Tare No.	607
Wt. Tare + WS.(gms)	463.51
Wt. Tare + DS.(gms)	396.65
Wt. of Tare(gms)	82.91
% Moisture	21.31

UNIT WEIGHT

Wt. Tube & WS.(gms.)	401.2	Sample Volume(cc.)	195.6
Wt. Of Tube(gms.)	17.3	Unit Wet Wt.(gms/cc)	1.96
Wt. Of WS.(gms.)	383.82	Unit Wet Wt.(pcf.)	122.46
Diameter (in.)	2.04	Moisture Content, %	21.31
Length (in.)	3.66	Unit Dry Wt.(pcf.)	100.94
Length (cm.)	9.29		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	2.0	0.00	0.00	0.00
0.001	3.3	0.02	0.02	0.39
0.002	4.3	0.05	0.04	0.70
0.004	6.7	0.10	0.10	1.43
0.006	19.6	0.17	0.18	5.38
0.010	44.7	0.27	0.27	13.05
0.014	95.0	0.40	0.39	28.38
0.018	170.8	0.50	0.50	51.44
0.020	219.8	0.55	0.54	66.36
0.022	279.8	0.60	0.60	84.60
0.024	345.3	0.65	0.65	104.49
0.027	454.4	0.72	0.73	137.58
0.028	526.8	0.77	0.77	159.54
0.032	663.0	0.88	0.88	200.73
0.036	779.1	0.98	0.98	235.72
0.040	884.2	1.10	1.10	267.27
0.044	925.9	1.20	1.21	279.60
0.051	907.3	1.40	1.40	273.45
0.055	881.3	1.52	1.51	265.31
0.059	848.7	1.62	1.60	255.22
0.066	757.9	1.82	1.81	227.40
0.077	610.6	2.12	2.11	182.49
0.088	493.6	2.42	2.41	146.96
0.103	380.7	2.82	2.81	112.75

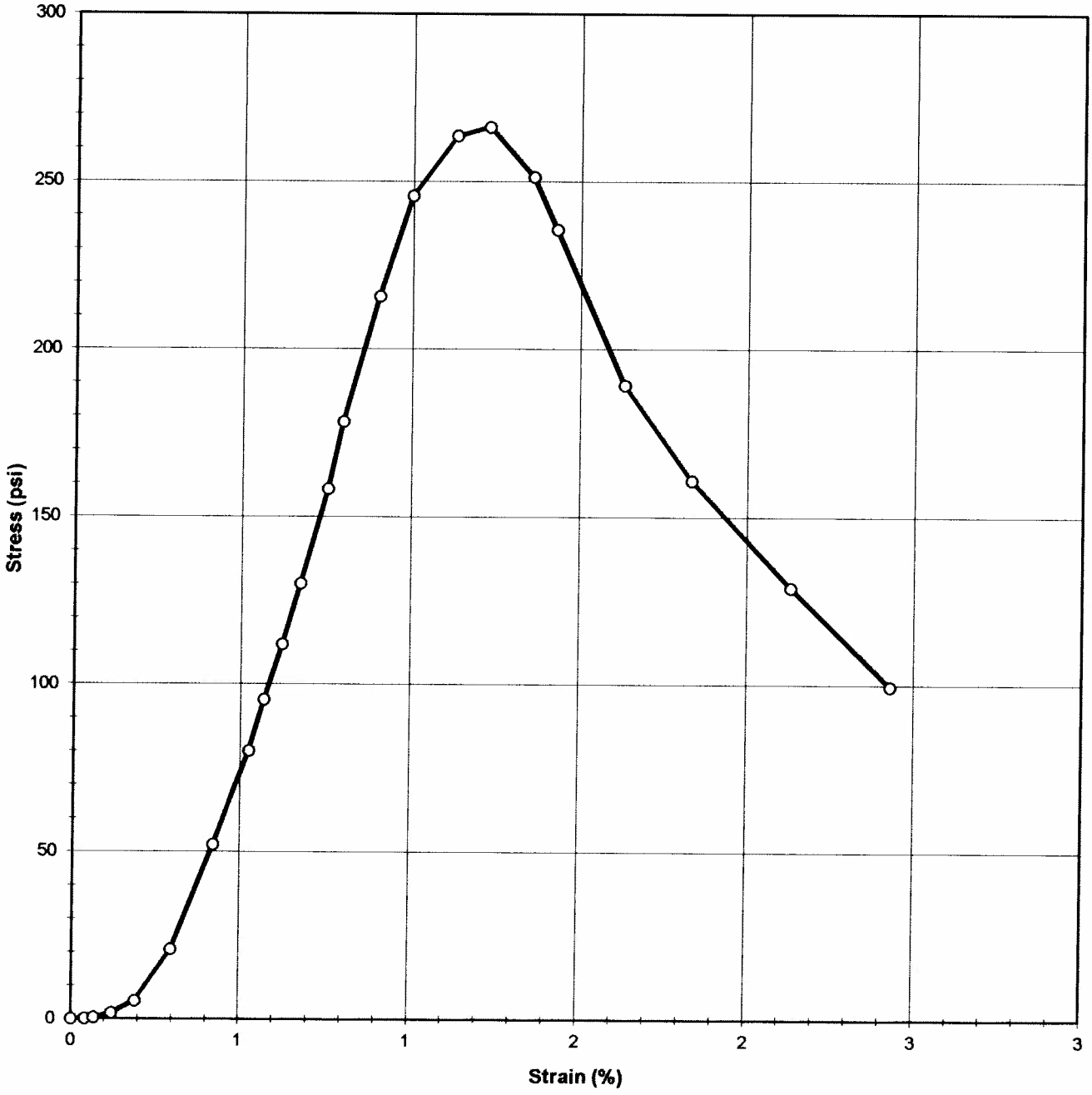
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-3
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-15	Visual	Gray Stabilized Material



Tested By JC Date 10/29/12 Approved By RJO Date 11-2-12

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-3
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-15	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.649	Top Dia. (in)	2.051
Length 2(in)	3.645	Mid. Dia. (in)	2.039
Length 3(in)	3.649	Bot. Dia. (in)	2.028
Avg.Length(in)	3.648	Area (in.^2)	3.266

WATER CONTENT AFTER TEST

Tare No.	1699
Wt. Tare + WS.(gms)	462.07
Wt. Tare + DS.(gms)	394.29
Wt. of Tare(gms)	83.59
% Moisture	21.82

UNIT WEIGHT

Wt. Tube & WS.(gms.)	397.2	Sample Volume(cc.)	195.2
Wt. Of Tube(gms.)	17.3	Unit Wet Wt.(gms/cc)	1.95
Wt. Of WS.(gms.)	379.86	Unit Wet Wt.(pcf.)	121.40
Diameter (in.)	2.04	Moisture Content, %	21.82
Length (in.)	3.65	Unit Dry Wt.(pcf.)	99.66
Length (cm.)	9.27		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	1.5	0.00	0.00	0.00
0.001	1.8	0.03	0.04	0.10
0.002	2.9	0.05	0.07	0.42
0.004	7.3	0.10	0.12	1.76
0.007	19.2	0.18	0.19	5.42
0.011	69.9	0.28	0.30	20.86
0.015	172.7	0.40	0.42	52.18
0.019	264.7	0.50	0.52	80.16
0.021	315.1	0.57	0.57	95.47
0.023	369.5	0.62	0.62	111.96
0.025	429.3	0.67	0.67	130.09
0.027	522.6	0.73	0.75	158.34
0.029	588.8	0.78	0.80	178.35
0.033	712.6	0.88	0.90	215.72
0.036	812.1	0.98	1.00	245.68
0.041	872.4	1.12	1.13	263.62
0.045	881.9	1.22	1.23	266.23
0.050	833.9	1.35	1.36	251.37
0.052	782.5	1.42	1.43	235.68
0.059	630.1	1.62	1.63	189.31
0.067	536.9	1.82	1.83	160.90
0.078	432.0	2.12	2.13	129.00
0.089	335.0	2.42	2.43	99.61

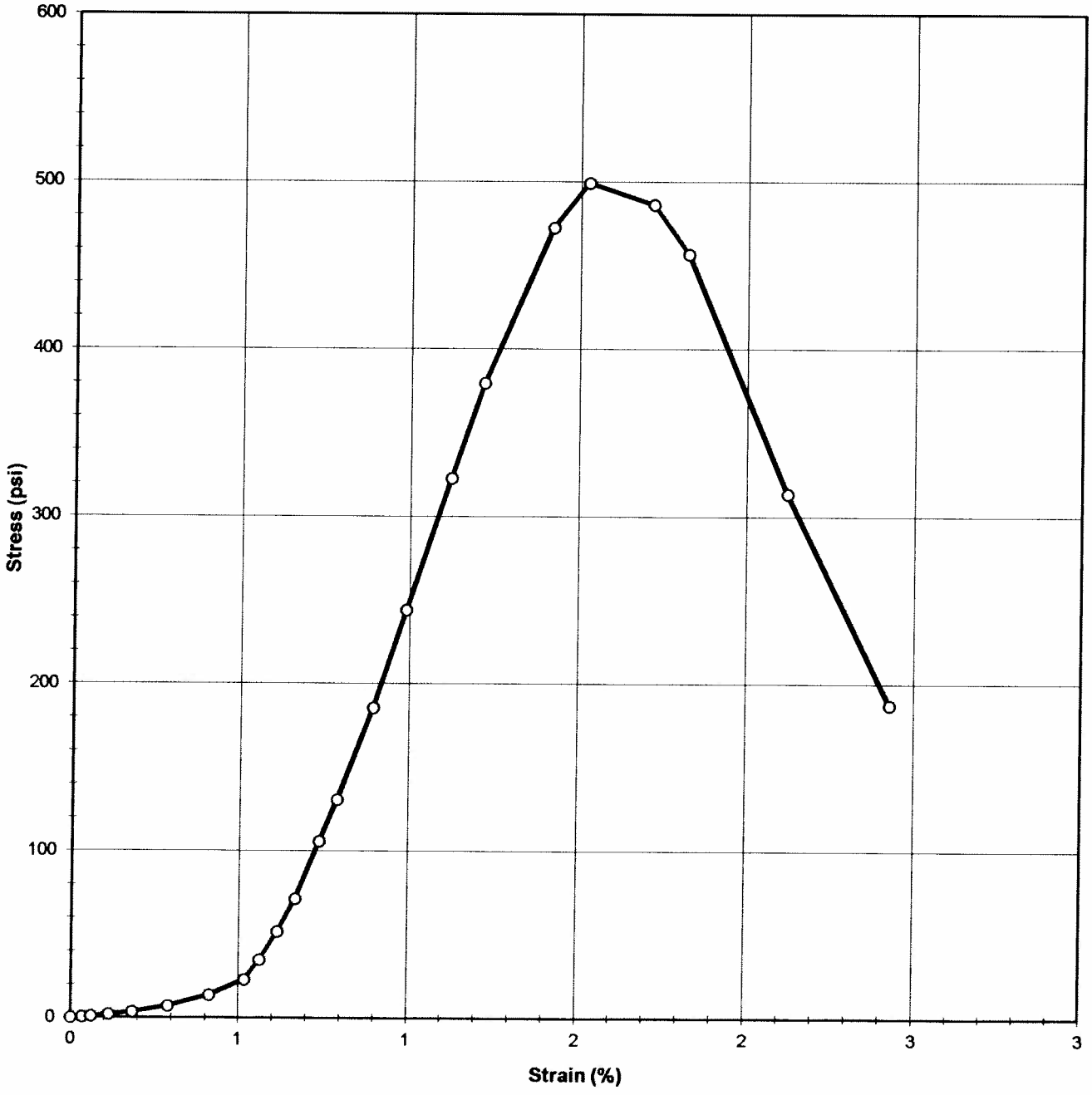
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-4
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-16	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-4
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-16	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.721	Top Dia. (in)	2.055
Length 2(in)	3.724	Mid. Dia. (in)	2.040
Length 3(in)	3.725	Bot. Dia. (in)	2.030
Avg.Length(in)	3.723	Area (in.^2)	3.274

WATER CONTENT AFTER TEST

Tare No.	577
Wt. Tare + WS.(gms)	475.01
Wt. Tare + DS.(gms)	409.70
Wt. of Tare(gms)	84.52
% Moisture	20.08

UNIT WEIGHT

Wt. Tube & WS.(gms.)	411.2	Sample Volume(cc.)	199.8
Wt. Of Tube(gms.)	17.7	Unit Wet Wt.(gms/cc)	1.97
Wt. Of WS.(gms.)	393.46	Unit Wet Wt.(pcf.)	122.91
Diameter (in.)	2.04	Moisture Content, %	20.08
Length (in.)	3.72	Unit Dry Wt.(pcf.)	102.35
Length (cm.)	9.46		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	3.6	0.00	0.00	0.00
0.001	4.9	0.03	0.03	0.39
0.002	6.5	0.05	0.06	0.88
0.004	10.0	0.10	0.11	1.96
0.007	14.9	0.18	0.18	3.44
0.011	26.6	0.28	0.29	7.00
0.015	48.3	0.40	0.41	13.59
0.019	78.7	0.50	0.52	22.82
0.021	117.8	0.55	0.56	34.70
0.023	173.7	0.62	0.61	51.63
0.025	238.5	0.67	0.67	71.28
0.027	352.1	0.73	0.74	105.66
0.029	434.6	0.78	0.79	130.63
0.033	616.6	0.88	0.89	185.57
0.037	810.4	0.98	0.99	243.99
0.042	1072.2	1.12	1.12	322.75
0.045	1261.8	1.22	1.22	379.63
0.053	1572.3	1.42	1.42	472.38
0.057	1663.0	1.52	1.52	499.13
0.064	1623.3	1.72	1.72	486.23
0.068	1526.2	1.82	1.82	456.62
0.079	1052.6	2.12	2.12	313.62
0.090	632.9	2.42	2.43	187.56

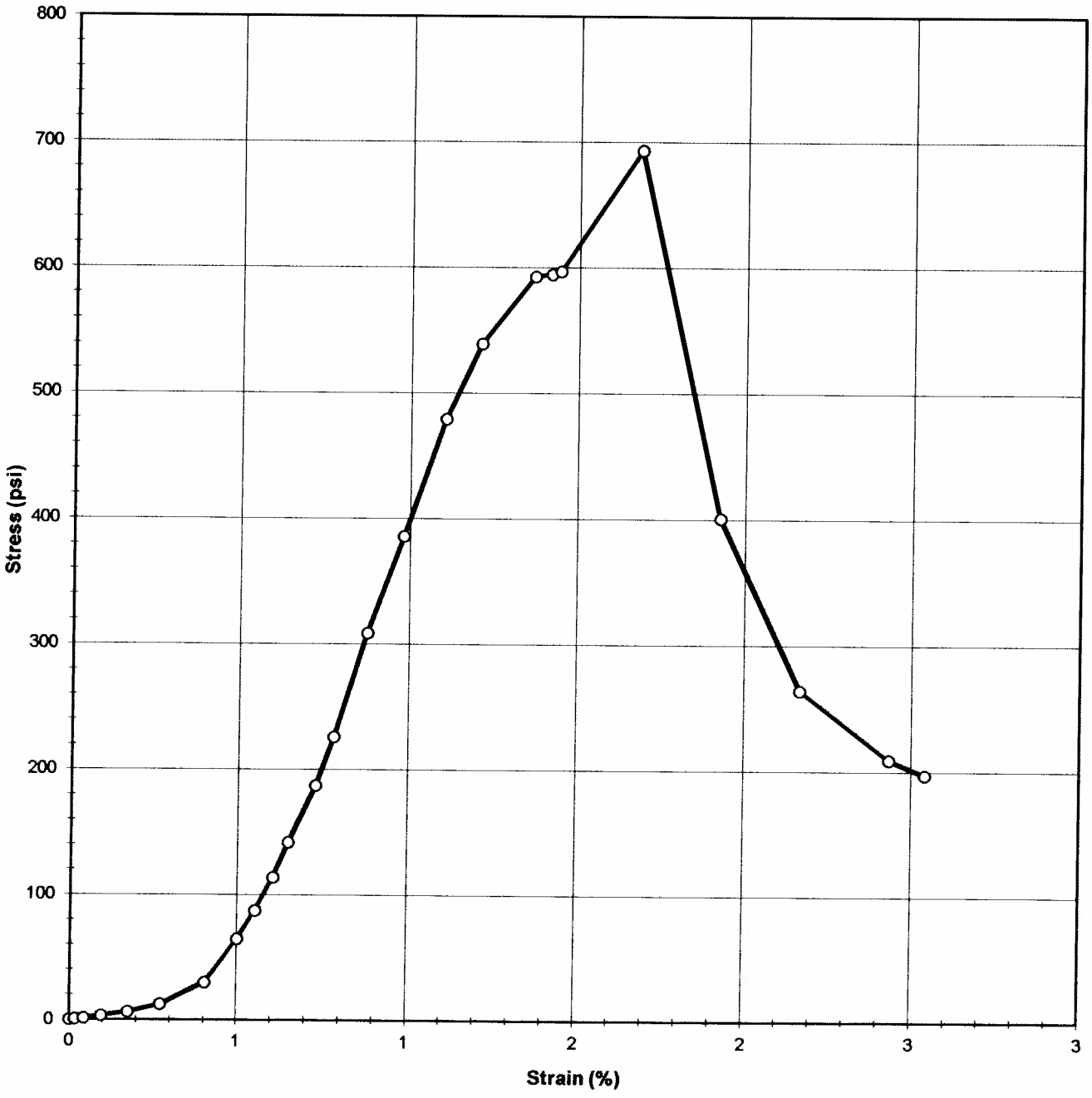
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-5
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-17	Visual	Gray Stabilized Material



Tested By JC Date 10/29/12 Approved By RJS Date 11-2-12

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-5
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-17	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.741	Top Dia. (in)	2.051
Length 2(in)	3.737	Mid. Dia. (in)	2.039
Length 3(in)	3.740	Bot. Dia. (in)	2.028
Avg.Length(in)	3.739	Area (in.^2)	3.266

WATER CONTENT AFTER TEST

Tare No.	880
Wt. Tare + WS.(gms)	495.98
Wt. Tare + DS.(gms)	426.40
Wt. of Tare(gms)	108.90
% Moisture	21.91

UNIT WEIGHT

Wt. Tube & WS.(gms.)	406.0	Sample Volume(cc.)	200.2
Wt. Of Tube(gms.)	17.6	Unit Wet Wt.(gms/cc)	1.94
Wt. Of WS.(gms.)	388.36	Unit Wet Wt.(pcf.)	121.08
Diameter (in.)	2.04	Moisture Content, %	21.91
Length (in.)	3.74	Unit Dry Wt.(pcf.)	99.31
Length (cm.)	9.50		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	5.8	0.00	0.00	0.00
0.001	8.0	0.02	0.02	0.66
0.002	10.0	0.05	0.04	1.27
0.004	16.7	0.10	0.10	3.34
0.007	26.7	0.17	0.17	6.39
0.010	46.6	0.27	0.27	12.45
0.015	104.0	0.40	0.40	29.93
0.019	217.8	0.50	0.50	64.57
0.021	292.4	0.55	0.55	87.25
0.023	379.5	0.60	0.60	113.70
0.024	472.0	0.65	0.65	141.80
0.027	621.5	0.73	0.73	187.12
0.029	749.5	0.78	0.78	225.89
0.033	1023.0	0.88	0.88	308.69
0.037	1278.6	0.98	0.98	385.82
0.041	1588.8	1.12	1.10	479.26
0.045	1788.8	1.22	1.21	539.24
0.051	1968.8	1.42	1.37	592.74
0.053	1975.9	1.52	1.42	594.59
0.054	1984.4	1.72	1.44	596.99
0.063	2309.3	1.87	1.68	693.33
0.072	1340.8	2.12	1.93	400.83
0.081	887.6	2.42	2.17	264.11
0.091	706.2	2.82	2.43	209.20
0.095	666.5	3.42	2.54	197.13

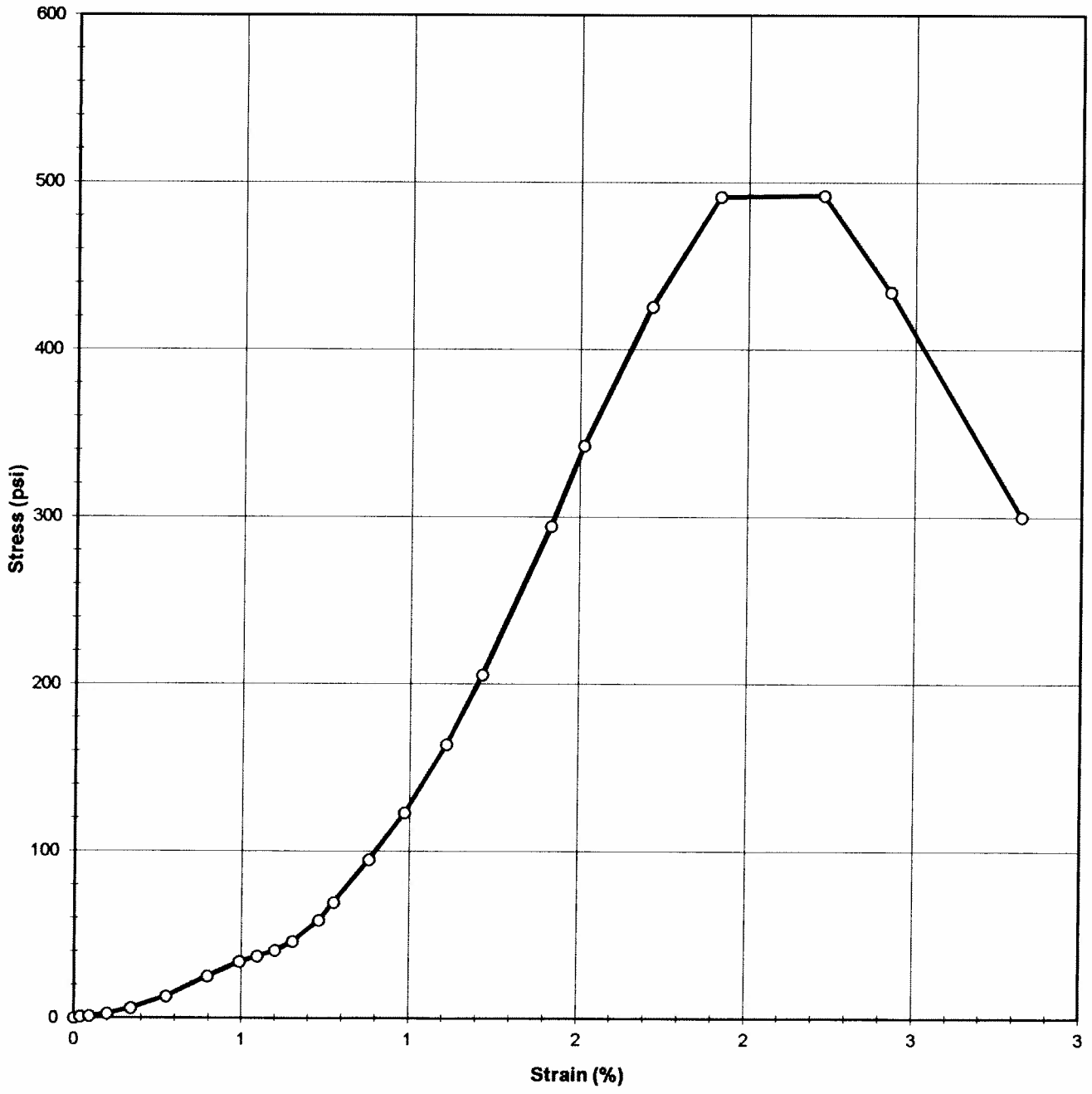
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-6
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-18	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-28-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-6
Project No.	2012-429-03	Sample No.	31 DAYS
Lab ID	2012-429-03-18	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.764	Top Dia. (in)	2.048
Length 2(in)	3.750	Mid. Dia. (in)	2.034
Length 3(in)	3.760	Bot. Dia. (in)	2.026
Avg.Length(in)	3.758	Area (in.^2)	3.256

WATER CONTENT AFTER TEST

Tare No.	872
Wt. Tare + WS.(gms)	489.99
Wt. Tare + DS.(gms)	412.90
Wt. of Tare(gms)	110.63
% Moisture	25.50

UNIT WEIGHT

Wt. Tube & WS.(gms.)	399.1	Sample Volume(cc.)	200.5
Wt. Of Tube(gms.)	17.8	Unit Wet Wt.(gms/cc)	1.90
Wt. Of WS.(gms.)	381.28	Unit Wet Wt.(pcf.)	118.67
Diameter (in.)	2.04	Moisture Content, %	25.50
Length (in.)	3.76	Unit Dry Wt.(pcf.)	94.55
Length (cm.)	9.55		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	3.5	0.00	0.00	0.00
0.001	5.8	0.03	0.02	0.73
0.002	7.3	0.05	0.05	1.18
0.004	11.9	0.10	0.10	2.60
0.006	22.7	0.18	0.17	5.90
0.010	45.7	0.28	0.27	12.94
0.015	85.1	0.42	0.40	24.98
0.019	114.0	0.52	0.49	33.79
0.021	125.0	0.57	0.55	37.12
0.023	136.0	0.62	0.60	40.48
0.024	153.7	0.67	0.65	45.84
0.027	195.7	0.73	0.73	58.61
0.029	230.9	0.78	0.77	69.31
0.033	315.2	0.88	0.88	94.90
0.037	408.0	1.00	0.99	123.04
0.042	542.8	1.12	1.11	163.82
0.046	680.9	1.22	1.21	205.55
0.049	975.6	1.42	1.30	294.71
0.053	1135.7	1.52	1.41	342.86
0.054	1413.2	1.73	1.44	426.77
0.063	1634.2	1.93	1.68	492.48
0.075	1642.0	2.23	2.00	493.25
0.081	1452.8	2.43	2.16	435.58
0.091	1008.8	2.83	2.42	301.32

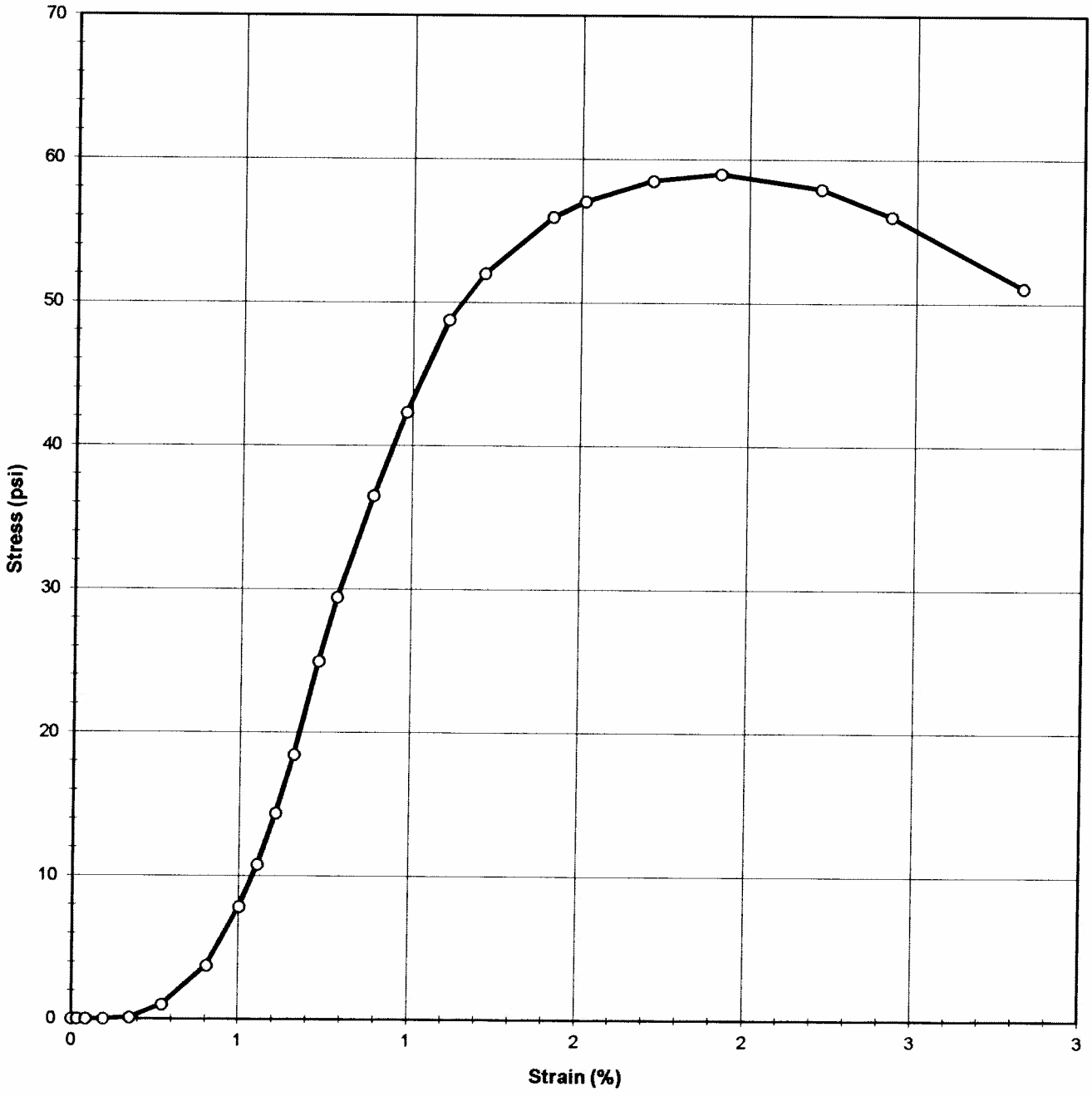
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-7
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-19	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-7
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-19	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.734	Top Dia. (in)	2.051
Length 2(in)	3.737	Mid. Dia. (in)	2.039
Length 3(in)	3.737	Bot. Dia. (in)	2.023
Avg.Length(in)	3.736	Area (in.^2)	3.261

WATER CONTENT AFTER TEST

Tare No.	601
Wt. Tare + WS.(gms)	425.74
Wt. Tare + DS.(gms)	328.10
Wt. of Tare(gms)	86.03
% Moisture	40.34

UNIT WEIGHT

Wt. Tube & WS.(gms.)	358.8	Sample Volume(cc.)	199.6
Wt. Of Tube(gms.)	17.8	Unit Wet Wt.(gms/cc)	1.71
Wt. Of WS.(gms.)	340.98	Unit Wet Wt.(pcf.)	106.57
Diameter (in.)	2.04	Moisture Content, %	40.34
Length (in.)	3.74	Unit Dry Wt.(pcf.)	75.94
Length (cm.)	9.49		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	0.0	0.00	0.00	0.00
0.001	0.0	0.03	0.02	0.00
0.002	0.0	0.05	0.04	0.00
0.004	0.0	0.10	0.10	0.00
0.007	0.3	0.18	0.17	0.10
0.010	3.3	0.28	0.27	1.00
0.015	12.2	0.42	0.40	3.73
0.019	25.7	0.52	0.50	7.85
0.021	35.4	0.57	0.55	10.79
0.023	47.2	0.62	0.61	14.37
0.025	60.6	0.67	0.66	18.45
0.027	82.0	0.73	0.73	24.96
0.029	96.7	0.80	0.78	29.42
0.033	120.1	0.90	0.89	36.51
0.037	139.4	1.00	0.98	42.33
0.041	160.8	1.12	1.11	48.77
0.045	171.7	1.22	1.21	52.01
0.053	185.1	1.42	1.41	55.95
0.056	188.9	1.52	1.51	57.04
0.064	194.1	1.72	1.71	58.48
0.072	196.1	1.92	1.91	58.98
0.083	193.2	2.22	2.21	57.93
0.091	187.2	2.43	2.42	56.01
0.105	171.3	2.83	2.82	51.05

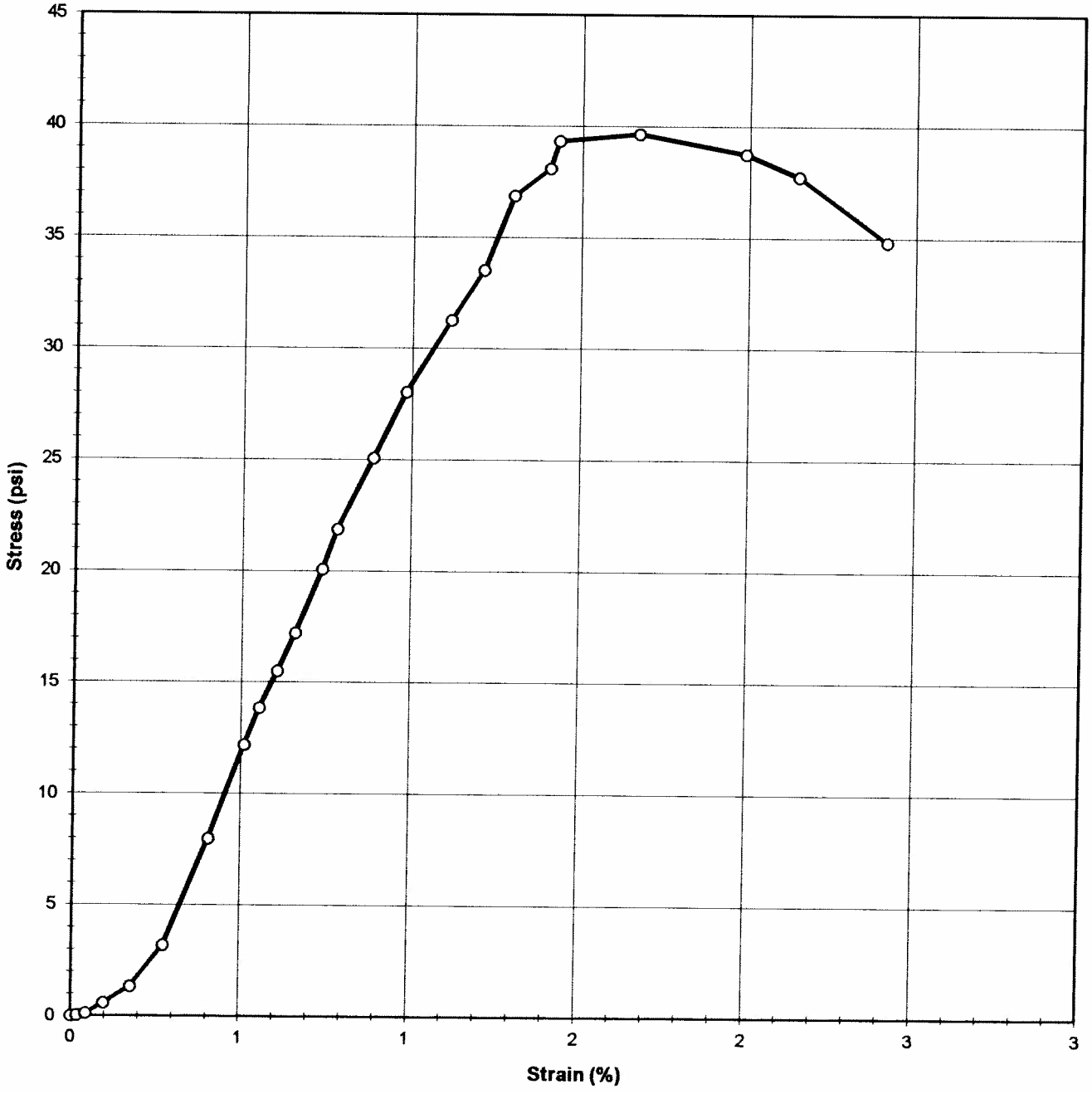
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-8
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-20	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-8
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-20	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.776	Top Dia. (in)	2.057
Length 2(in)	3.772	Mid. Dia. (in)	2.042
Length 3(in)	3.770	Bot. Dia. (in)	2.027
Avg.Length(in)	3.773	Area (in.^2)	3.275

WATER CONTENT AFTER TEST

Tare No.	1698
Wt. Tare + WS.(gms)	420.84
Wt. Tare + DS.(gms)	320.63
Wt. of Tare(gms)	81.19
% Moisture	41.85

UNIT WEIGHT

Wt. Tube & WS.(gms.)	359.0	Sample Volume(cc.)	202.5
Wt. Of Tube(gms.)	18.1	Unit Wet Wt.(gms/cc)	1.68
Wt. Of WS.(gms.)	340.9	Unit Wet Wt.(pcf.)	105.07
Diameter (in.)	2.04	Moisture Content, %	41.85
Length (in.)	3.77	Unit Dry Wt.(pcf.)	74.07
Length (cm.)	9.58		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	0.1	0.00	0.00	0.00
0.001	0.1	0.02	0.02	0.02
0.002	0.4	0.05	0.04	0.12
0.004	2.0	0.10	0.10	0.58
0.007	4.4	0.17	0.18	1.33
0.010	10.5	0.27	0.27	3.18
0.015	26.3	0.40	0.40	7.98
0.019	40.2	0.50	0.51	12.19
0.021	45.7	0.55	0.55	13.85
0.023	51.2	0.62	0.61	15.51
0.025	56.8	0.67	0.66	17.21
0.028	66.3	0.73	0.74	20.08
0.029	72.3	0.78	0.78	21.88
0.033	82.9	0.88	0.89	25.07
0.037	92.8	0.98	0.98	28.04
0.042	103.6	1.12	1.11	31.26
0.046	111.2	1.22	1.21	33.52
0.049	122.4	1.42	1.30	36.87
0.053	126.6	1.52	1.40	38.09
0.054	130.7	1.72	1.43	39.33
0.063	132.1	1.92	1.67	39.65
0.075	129.5	2.22	1.99	38.75
0.081	126.3	2.43	2.15	37.73
0.091	116.9	2.83	2.41	34.81

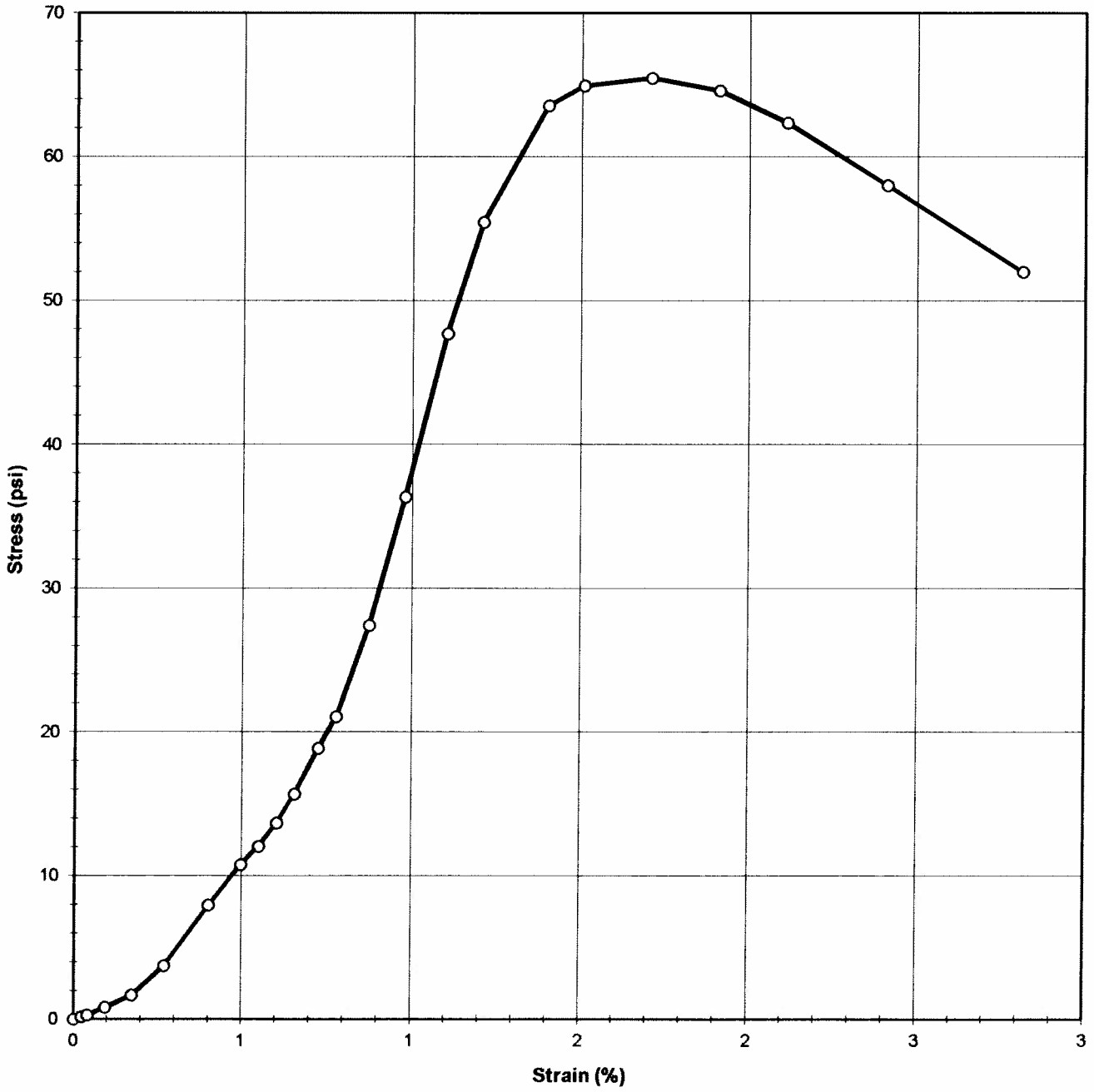
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-9
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-21	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-9
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-21	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.842	Top Dia. (in)	2.052
Length 2(in)	3.840	Mid. Dia. (in)	2.039
Length 3(in)	3.844	Bot. Dia. (in)	2.028
Avg.Length(in)	3.842	Area (in.^2)	3.267

WATER CONTENT AFTER TEST

Tare No.	1718
Wt. Tare + WS.(gms)	425.48
Wt. Tare + DS.(gms)	321.75
Wt. of Tare(gms)	82.40
% Moisture	43.34

UNIT WEIGHT

Wt. Tube & WS.(gms.)	363.4	Sample Volume(cc.)	205.7
Wt. Of Tube(gms.)	18.6	Unit Wet Wt.(gms/cc)	1.68
Wt. Of WS.(gms.)	344.81	Unit Wet Wt.(pcf.)	104.59
Diameter (in.)	2.04	Moisture Content, %	43.34
Length (in.)	3.84	Unit Dry Wt.(pcf.)	72.97
Length (cm.)	9.76		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	0.1	0.00	0.00	0.00
0.001	0.6	0.02	0.02	0.16
0.002	1.0	0.05	0.04	0.29
0.004	2.8	0.10	0.09	0.83
0.007	5.6	0.17	0.17	1.69
0.010	12.3	0.27	0.27	3.73
0.015	26.2	0.40	0.40	7.95
0.019	35.4	0.50	0.50	10.76
0.021	39.6	0.55	0.55	12.04
0.023	45.0	0.60	0.60	13.66
0.025	51.7	0.65	0.66	15.68
0.028	62.2	0.72	0.73	18.86
0.030	69.4	0.77	0.78	21.06
0.034	90.4	0.88	0.87	27.41
0.038	120.0	0.98	0.98	36.33
0.042	157.6	1.10	1.10	47.68
0.046	183.5	1.20	1.21	55.44
0.054	210.7	1.40	1.40	63.54
0.058	215.5	1.50	1.51	64.93
0.066	217.7	1.70	1.71	65.46
0.073	215.2	1.90	1.91	64.58
0.081	208.2	2.12	2.11	62.35
0.093	194.3	2.42	2.41	57.99
0.108	174.9	2.82	2.81	51.99

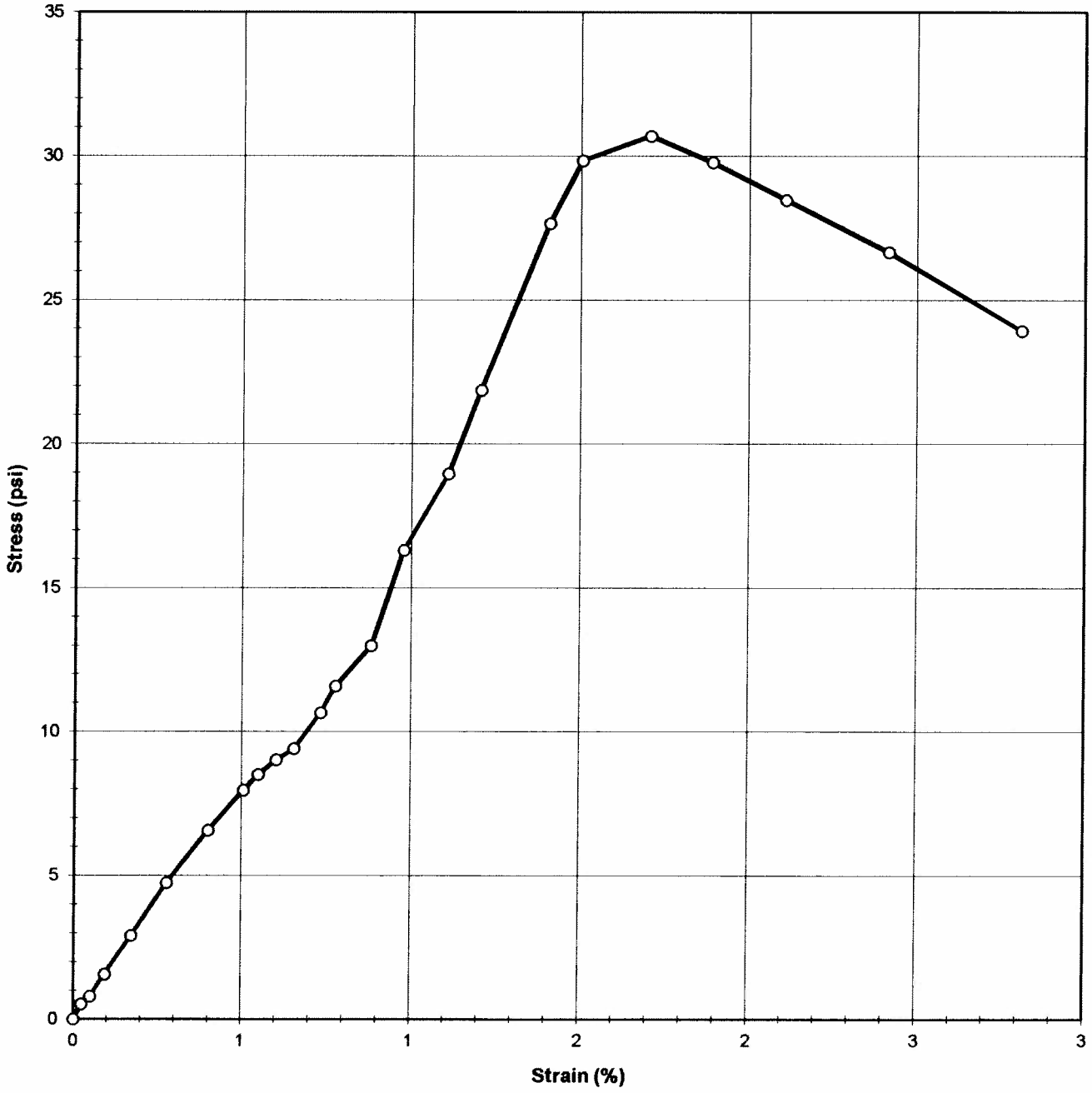
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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-10
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-22	Visual	Gray Stabilized Material



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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-10
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-22	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.868	Top Dia. (in)	2.044
Length 2(in)	3.863	Mid. Dia. (in)	2.032
Length 3(in)	3.867	Bot. Dia. (in)	2.021
Avg.Length(in)	3.866	Area (in.^2)	3.244

WATER CONTENT AFTER TEST

Tare No.	592
Wt. Tare + WS.(gms)	428.46
Wt. Tare + DS.(gms)	322.16
Wt. of Tare(gms)	81.39
% Moisture	44.15

UNIT WEIGHT

Wt. Tube & WS.(gms.)	366.5	Sample Volume(cc.)	205.5
Wt. Of Tube(gms.)	18.7	Unit Wet Wt.(gms/cc)	1.69
Wt. Of WS.(gms.)	347.76	Unit Wet Wt.(pcf.)	105.59
Diameter (in.)	2.03	Moisture Content, %	44.15
Length (in.)	3.87	Unit Dry Wt.(pcf.)	73.25
Length (cm.)	9.82		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	4.6	0.00	0.00	0.00
0.001	6.3	0.02	0.02	0.53
0.002	7.2	0.05	0.05	0.80
0.004	9.7	0.10	0.09	1.57
0.007	14.1	0.17	0.17	2.91
0.011	20.0	0.27	0.28	4.75
0.015	26.0	0.40	0.40	6.57
0.020	30.6	0.50	0.51	7.96
0.021	32.4	0.55	0.55	8.51
0.023	34.0	0.60	0.60	9.02
0.025	35.3	0.65	0.65	9.41
0.028	39.4	0.73	0.73	10.66
0.030	42.5	0.78	0.78	11.59
0.034	47.1	0.88	0.88	12.99
0.038	58.0	0.98	0.98	16.30
0.043	66.8	1.10	1.11	18.96
0.047	76.4	1.20	1.21	21.87
0.054	95.6	1.40	1.41	27.65
0.058	102.9	1.50	1.50	29.84
0.066	105.9	1.70	1.71	30.69
0.073	103.0	1.88	1.89	29.77
0.082	98.9	2.12	2.11	28.46
0.093	93.2	2.42	2.42	26.65
0.109	84.4	2.82	2.81	23.92

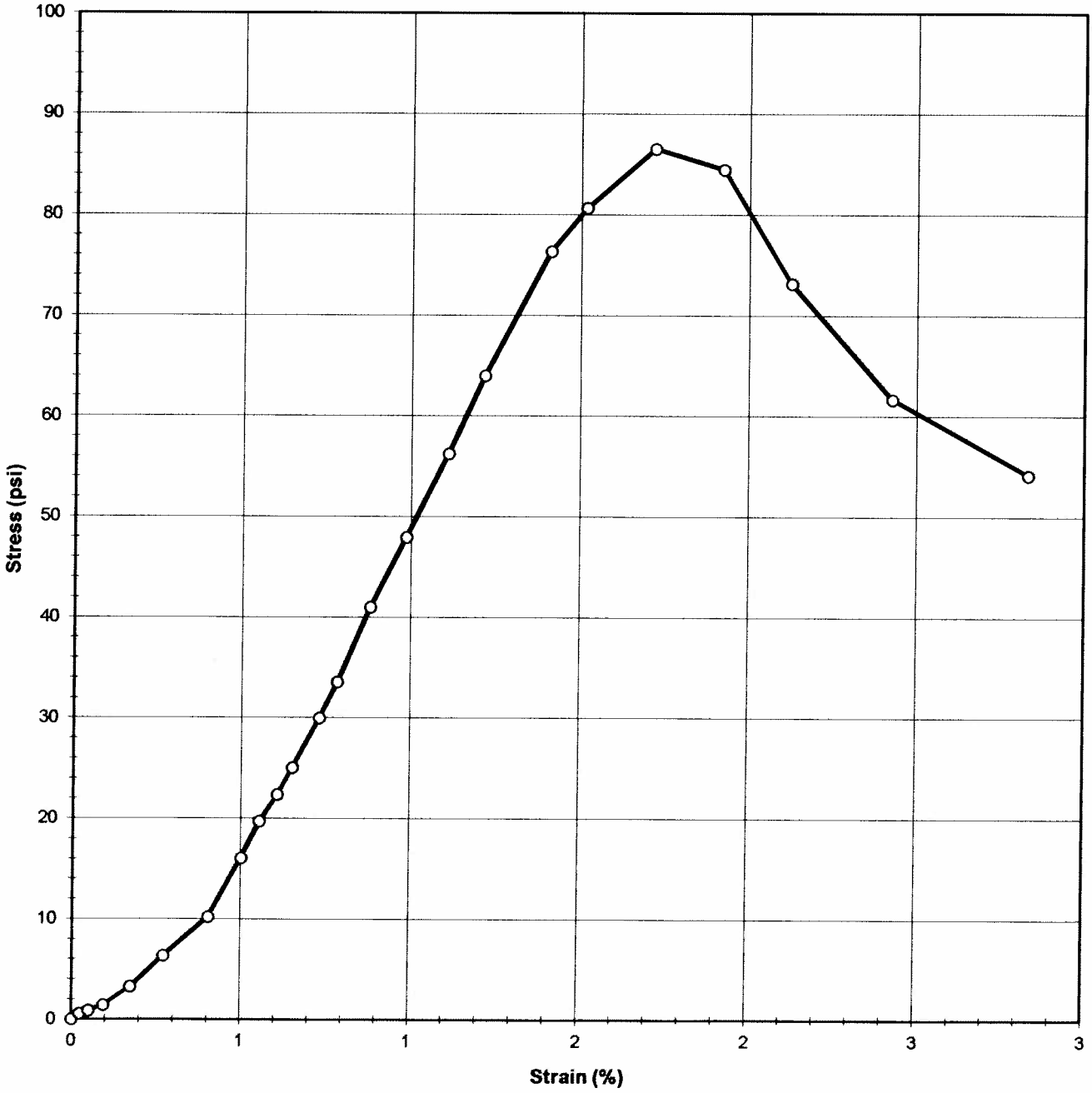
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FORM CT-S30 Date 1/05/09 Revised by Date
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geotechnics
INTEGRITY IN TESTING

UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-11
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-23	Visual	Gray Stabilized Material



Tested By JC Date 10/29/12 Approved By RJC Date 11-2-12

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Geotechnics
INTEGRITY IN TESTING

Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-11
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-23	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.812	Top Dia. (in)	2.053
Length 2(in)	3.817	Mid. Dia. (in)	2.040
Length 3(in)	3.815	Bot. Dia. (in)	2.026
Avg.Length(in)	3.815	Area (in.^2)	3.267

WATER CONTENT AFTER TEST

Tare No.	905
Wt. Tare + WS.(gms)	448.94
Wt. Tare + DS.(gms)	344.52
Wt. of Tare(gms)	110.03
% Moisture	44.53

UNIT WEIGHT

Wt. Tube & WS.(gms.)	358.4	Sample Volume(cc.)	204.3
Wt. Of Tube(gms.)	18.1	Unit Wet Wt.(gms/cc)	1.67
Wt. Of WS.(gms.)	340.29	Unit Wet Wt.(pcf.)	103.96
Diameter (in.)	2.04	Moisture Content, %	44.53
Length (in.)	3.81	Unit Dry Wt.(pcf.)	71.93
Length (cm.)	9.69		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	1.2	0.00	0.00	0.00
0.001	3.1	0.02	0.02	0.56
0.002	4.1	0.05	0.05	0.87
0.004	5.9	0.10	0.09	1.42
0.007	11.9	0.17	0.17	3.25
0.010	22.0	0.27	0.27	6.35
0.015	34.7	0.40	0.40	10.19
0.019	54.0	0.50	0.50	16.06
0.021	66.0	0.55	0.55	19.72
0.023	74.8	0.60	0.61	22.37
0.025	83.6	0.65	0.65	25.05
0.028	99.9	0.73	0.73	29.98
0.030	111.7	0.78	0.78	33.55
0.034	136.4	0.88	0.88	41.00
0.038	159.4	0.98	0.99	47.93
0.042	187.1	1.10	1.11	56.24
0.046	212.9	1.20	1.22	64.00
0.054	254.3	1.40	1.41	76.34
0.058	268.8	1.50	1.52	80.66
0.066	288.9	1.70	1.72	86.53
0.073	282.6	1.92	1.92	84.46
0.081	245.4	2.12	2.13	73.14
0.093	207.8	2.42	2.43	61.67
0.108	183.3	2.82	2.83	54.14

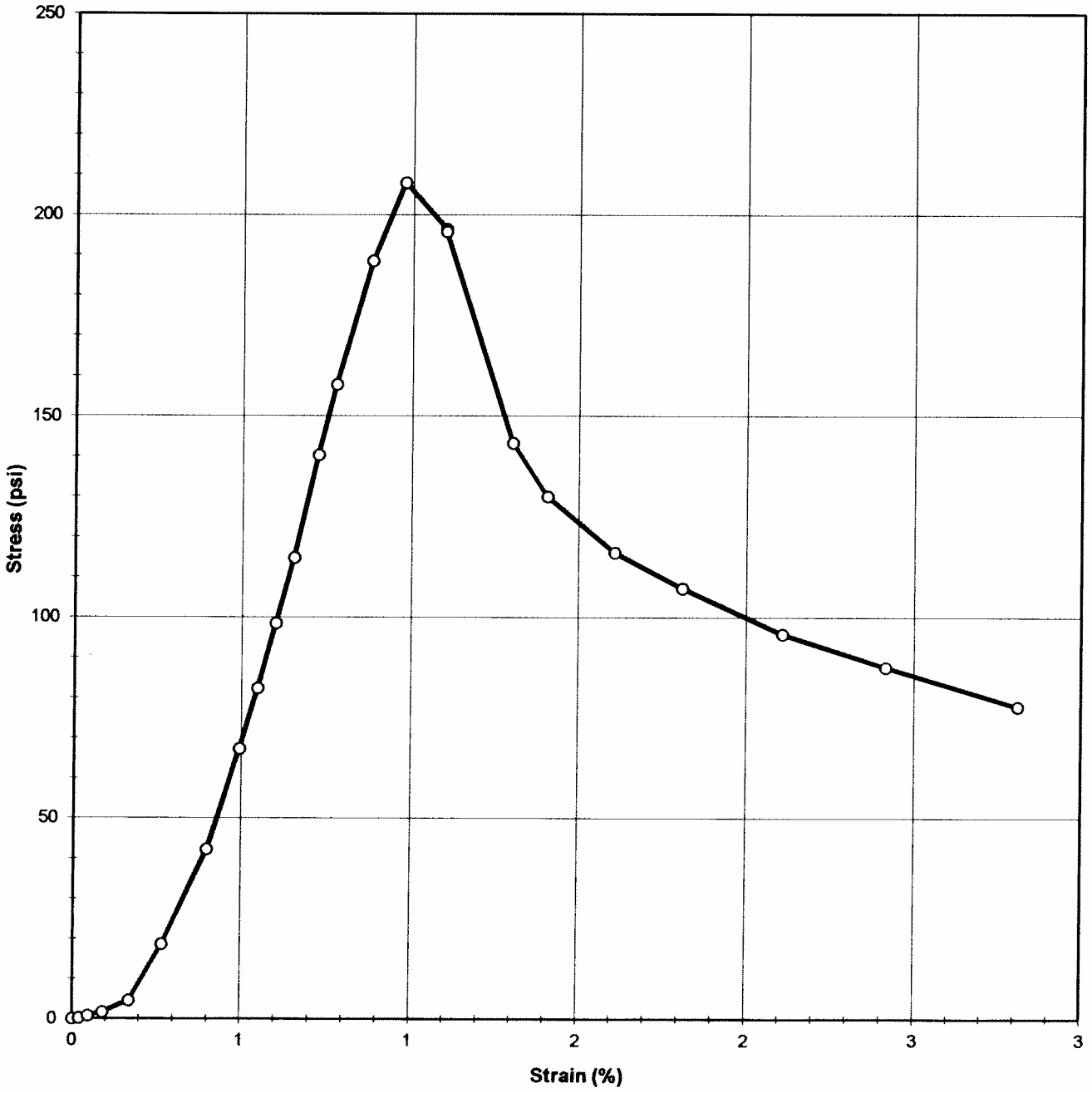
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INTEGRITY IN TESTING

UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-12
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-24	Visual	Gray Stabilized Material



Tested By JC Date 10/29/12 Approved By RJO Date 11-2-12

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UNCONFINED COMPRESSIVE STRENGTH
ASTM D2166-06/AASHTO T205-05 (SOP S-30)

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INTEGRITY IN TESTING

Client	Geo-Con / EBC	Boring No.	9-29-12
Client Reference	P12-037 North Albany, NY	Depth (ft.)	37-12
Project No.	2012-429-03	Sample No.	30 DAYS
Lab ID	2012-429-03-24	Visual	Gray Stabilized Material

INITIAL SAMPLE DIMENSIONS

Length 1(in)	3.838	Top Dia. (in)	2.052
Length 2(in)	3.840	Mid. Dia. (in)	2.041
Length 3(in)	3.845	Bot. Dia. (in)	2.030
Avg.Length(in)	3.841	Area (in.^2)	3.272

WATER CONTENT AFTER TEST

Tare No.	622
Wt. Tare + WS.(gms)	421.79
Wt. Tare + DS.(gms)	323.86
Wt. of Tare(gms)	86.80
% Moisture	41.31

UNIT WEIGHT

Wt. Tube & WS.(gms.)	369.3	Sample Volume(cc.)	205.9
Wt. Of Tube(gms.)	18.3	Unit Wet Wt.(gms/cc)	1.70
Wt. Of WS.(gms.)	350.95	Unit Wet Wt.(pcf.)	106.34
Diameter (in.)	2.04	Moisture Content, %	41.31
Length (in.)	3.84	Unit Dry Wt.(pcf.)	75.25
Length (cm.)	9.76		

ELECTRONIC DEVICE DEFORMATION (in)	*LOAD (lbs)*	*ELAPSED TIME (min.)*	*STRAIN (%)*	*STRESS (psi)*
0.000	0.0	0.00	0.00	0.00
0.001	0.5	0.03	0.02	0.17
0.002	2.5	0.05	0.05	0.78
0.003	5.5	0.10	0.09	1.69
0.006	14.9	0.18	0.17	4.56
0.010	61.0	0.28	0.27	18.61
0.015	138.7	0.40	0.40	42.23
0.019	221.1	0.50	0.49	67.24
0.021	270.7	0.55	0.55	82.30
0.023	324.1	0.60	0.60	98.46
0.025	377.9	0.65	0.65	114.76
0.028	462.3	0.73	0.72	140.29
0.030	520.3	0.78	0.77	157.81
0.034	622.3	0.88	0.88	188.55
0.037	687.1	0.98	0.98	207.96
0.042	649.7	1.12	1.10	196.41
0.042	647.7	1.12	1.10	195.79
0.050	474.9	1.32	1.30	143.28
0.054	431.3	1.42	1.41	129.98
0.062	385.9	1.62	1.61	116.06
0.070	357.1	1.82	1.81	107.19
0.081	320.2	2.12	2.11	95.82
0.093	293.6	2.42	2.42	87.57
0.108	261.8	2.82	2.81	77.78

Tested By JC Date 10/29/12 Input Checked By [illegible] Date 11-2-12

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PERMEABILITY TEST

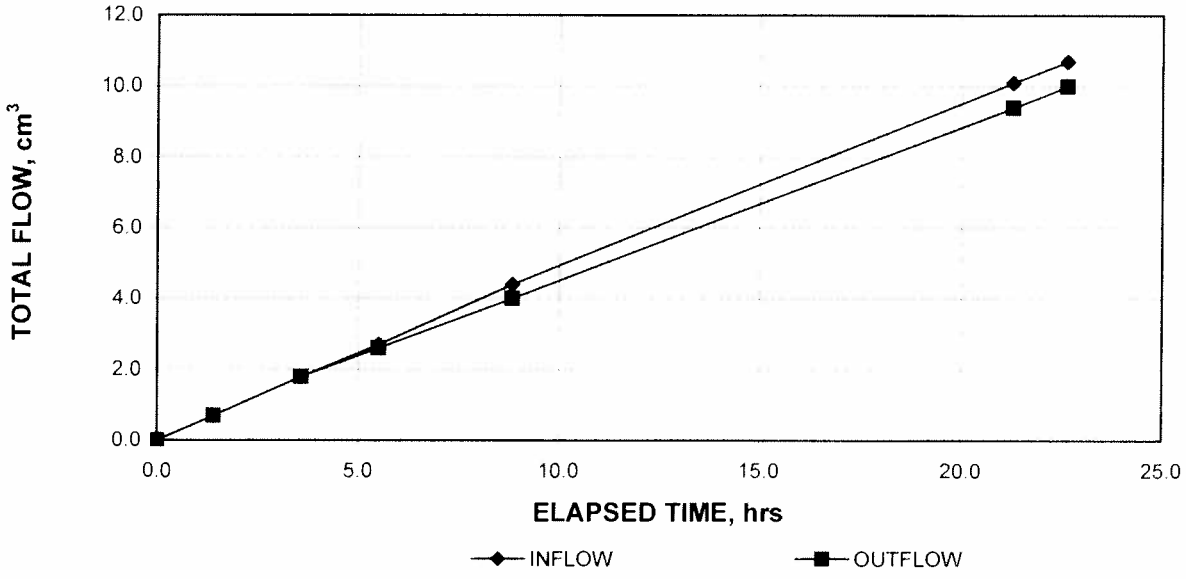
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INTEGRITY IN TESTING

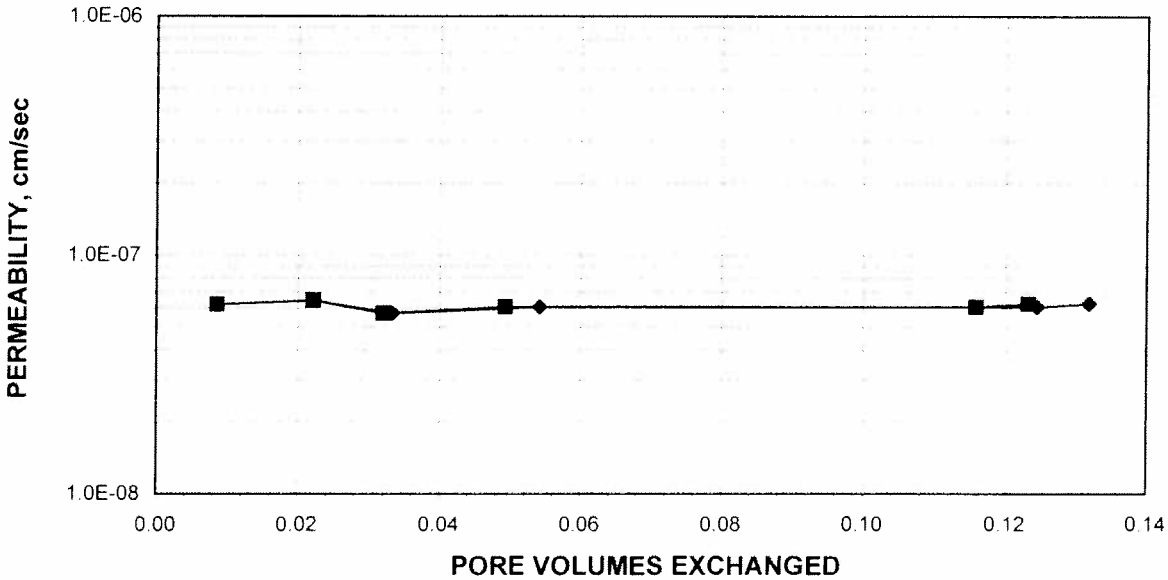
Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 3
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-01		

AVERAGE PERMEABILITY = 6.0E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 6.0E-10 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-19-12

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PERMEABILITY TEST

ASTM D 5084-10
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Geotechnics
INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 3
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-01		

Specific Gravity 2.70 Assumed
Sample Condition Undisturbed

Visual Description: BLACK STABILIZED MATERIAL

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	892	552
Wt. of Tare & WS (gm.)	351.01	449.65
Wt. of Tare & DS (gm.)	312.38	376.78
Wt. of Tare (gm.)	109.76	81.29
Wt. of Water (gm.)	38.63	72.87
Wt. of DS (gm.)	202.62	295.49
Moisture Content (%)	**19.1**	**24.7**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	369.89	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (calc.)(gm.)	369.89	387.27
Length 1 (in.)	1.695	1.656
Length 2 (in.)	1.679	1.664
Length 3 (in.)	1.675	1.686
Top Diameter (in.)	3.016	3.024
Middle Diameter (in.)	3.020	3.025
Bottom Diameter (in.)	3.014	3.019
Average Length (in.)	1.68	1.67
Average Area ($in.^2$)	7.15	7.18
Sample Volume (cm^3)	197.12	196.22
Unit Wet Wt. ($gm./cm^3$)	1.88	1.97
Unit Wet Wt. (pcf)	117.1	123.2
Unit Dry Wt. (pcf)	98.4	98.8
Unit Dry Wt. ($gm./cm^3$)	1.58	1.58
Void Ratio, e	0.71	0.71
Porosity, n	0.42	0.41
Pore Volume (cm^3)	82.1	81.2
Total Wgt. Of Sample After Test		376.2

Tested By: TRE Date: 11/14/12 Checked By: [illegible] Date: 11-19-12

DCN: CT-22 DATE: 2/2/10 REVISION: 9
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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

Geotechnics
INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 3
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-01		

Pressure Heads (Constant)	
Top Cap (psi)	67.5
Bottom Cap (psi)	70.0
Cell (psi)	75.0
Total Pressure Head (cm)	175.8
Hydraulic Gradient	41.47

Final Sample Dimensions	
Sample Length (cm), L	4.24
Sample Diameter (cm)	7.68
Sample Area (cm^2), A	46.30
Inflow Burette Area (cm^2), a-in	0.914
Outflow Burette Area (cm^2), a-out	0.911
B Parameter (%)	100

AVERAGE PERMEABILITY = 6.0E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 6.0E-10 m/sec @ 20°C

DATE	TIME		ELAPSED TIME t	TOTAL INFLOW	TOTAL OUTFLOW	TOTAL HEAD h	FLOW (0 flow)	TEMP.	INCREMENTAL PERMEABILITY @ 20°C
(mm/dd/yy)	(hr)	(min)	(hr)	(cm^3)	(cm^3)	(cm)	(1 stop)	(°C)	(cm/sec)
11/15/12	9	45	0.0	0.0	0.0	200.0	0	20.0	NA
11/15/12	11	10	1.4	0.7	0.7	198.5	0	20.0	6.2E-08
11/15/12	13	20	3.6	1.8	1.8	196.1	0	20.0	6.5E-08
11/15/12	15	15	5.5	2.7	2.6	194.3	0	20.0	5.7E-08
11/15/12	18	35	8.8	4.4	4.0	190.9	0	20.0	6.1E-08
11/16/12	7	1	21.3	10.1	9.4	178.9	0	20.0	6.1E-08
11/16/12	8	22	22.6	10.7	10.0	177.6	1	20.0	6.3E-08

Tested By: TRE Date: 11/14/12 Checked By: JC Date: 11-19-12

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PERMEABILITY TEST

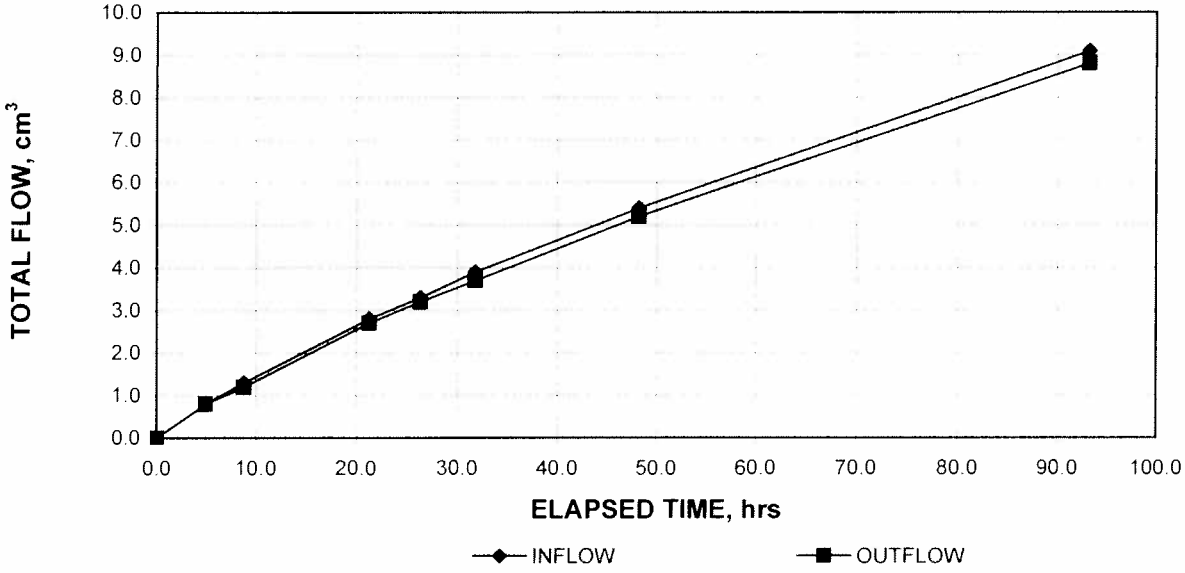
ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

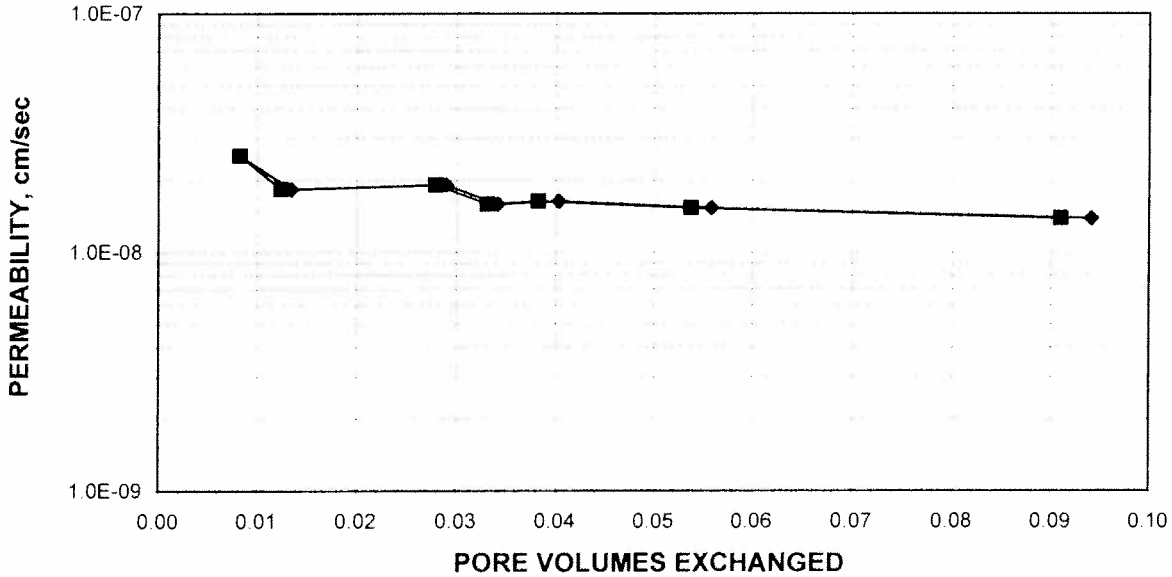
Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 4
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-02		

AVERAGE PERMEABILITY = 1.5E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 1.5E-10 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-20-12

DCN CT-22 DATE 2/2/10 REVISION 9 C:\MSOFFICE\Excel\Perms\November 2012\[429P5.XLS]Sheet1

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PERMEABILITY TEST

ASTM D 5084-10
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INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 4
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-02		

Specific Gravity 2.70 Assumed
Sample Condition Undisturbed

Visual Description: BLACK STABILIZED MATERIAL

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	537	902
Wt. of Tare & WS (gm.)	245.75	549.27
Wt. of Tare & DS (gm.)	219.78	467.00
Wt. of Tare (gm.)	82.28	110.75
Wt. of Water (gm.)	25.97	82.27
Wt. of DS (gm.)	137.50	356.25
Moisture Content (%)	**18.9**	**23.1**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	452.22	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (calc.)(gm.)	452.22	468.22
Length 1 (in.)	2.041	2.013
Length 2 (in.)	2.002	2.035
Length 3 (in.)	2.045	2.044
Top Diameter (in.)	3.016	3.014
Middle Diameter (in.)	3.015	3.016
Bottom Diameter (in.)	3.011	3.015
Average Length (in.)	2.03	2.03
Average Area ($in.^2$)	7.13	7.14
Sample Volume (cm^3)	237.26	237.58
Unit Wet Wt. ($gm./cm^3$)	1.91	1.97
Unit Wet Wt. (pcf)	119.0	123.0
Unit Dry Wt. (pcf)	100.1	99.9
Unit Dry Wt. ($gm./cm^3$)	1.60	1.60
Void Ratio, e	0.68	0.69
Porosity, n	0.41	0.41
Pore Volume (cm^3)	96.4	96.7
Total Wgt. Of Sample After Test		455.1

Tested By: TRE Date: 11/14/12 Checked By: BC Date: 11-20-12

DCN: CT-22 DATE: 2/2/10 REVISION: 9
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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 4
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-02		

Pressure Heads (Constant)	
Top Cap (psi)	67.5
Bottom Cap (psi)	70.0
Cell (psi)	75.0
Total Pressure Head (cm)	175.8
Hydraulic Gradient	34.08

Final Sample Dimensions	
Sample Length (cm), L	5.16
Sample Diameter (cm)	7.66
Sample Area (cm^2), A	46.06
Inflow Burette Area (cm^2), a-in	0.898
Outflow Burette Area (cm^2), a-out	0.899
B Parameter (%)	95

AVERAGE PERMEABILITY = 1.5E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 1.5E-10 m/sec @ 20°C

DATE	TIME		ELAPSED TIME t	TOTAL INFLOW	TOTAL OUTFLOW	TOTAL HEAD h	FLOW (0 flow)	TEMP.	INCREMENTAL PERMEABILITY @ 20°C
(mm/dd/yy)	(hr)	(min)	(hr)	(cm^3)	(cm^3)	(cm)	(1 stop)	(°C)	(cm/sec)
11/15/12	9	47	0.0	0.0	0.0	198.6	0	20.0	NA
11/15/12	14	43	4.9	0.8	0.8	196.8	0	20.0	2.5E-08
11/15/12	18	35	8.8	1.3	1.2	195.8	0	20.0	1.8E-08
11/16/12	7	4	21.3	2.8	2.7	192.5	0	20.0	1.9E-08
11/16/12	12	8	26.4	3.3	3.2	191.4	0	20.0	1.6E-08
11/16/12	17	35	31.8	3.9	3.7	190.2	0	20.0	1.6E-08
11/17/12	10	0	48.2	5.4	5.2	186.9	0	19.0	1.5E-08
11/19/12	7	0	93.2	9.1	8.8	178.8	1	19.5	1.4E-08

Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-20-12

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PERMEABILITY TEST

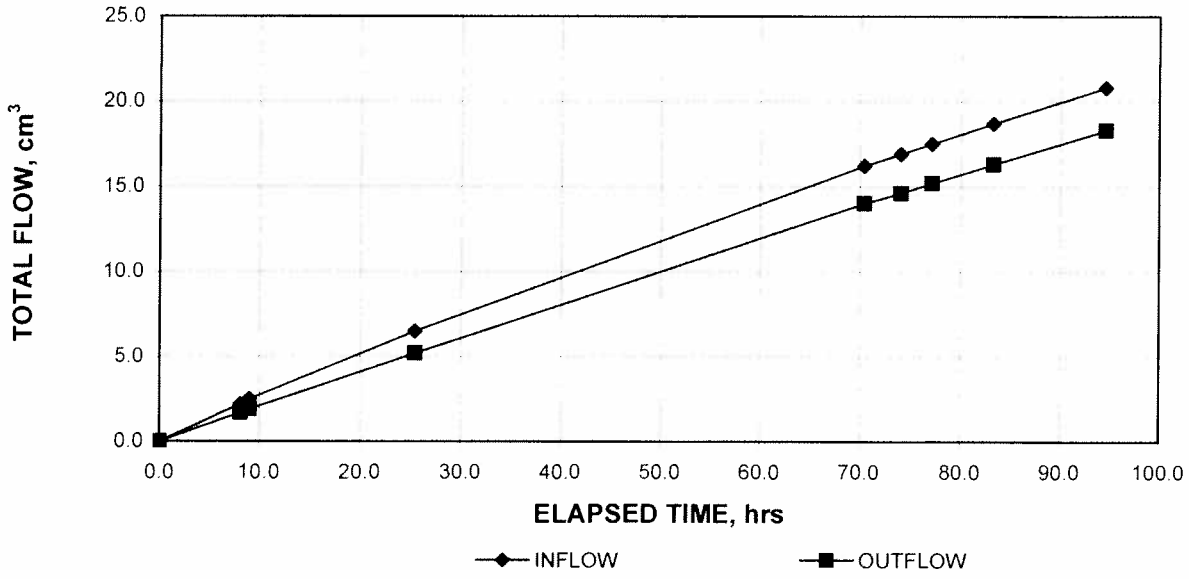
ASTM D 5084-10
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

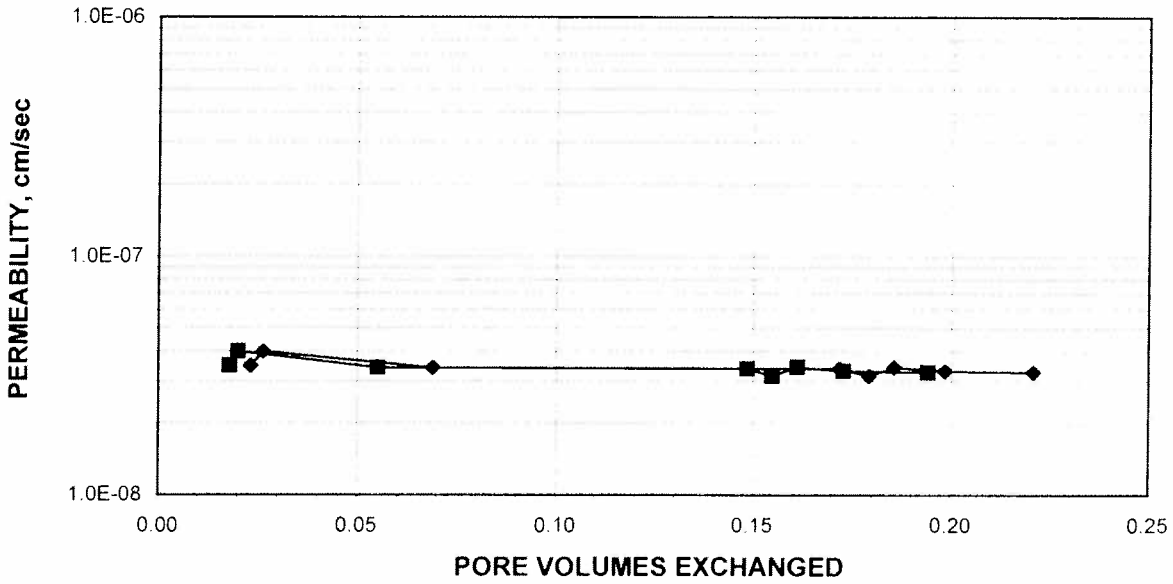
Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 6
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-03		

AVERAGE PERMEABILITY = 3.3E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 3.3E-10 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: YTR Date: 11/14/12 Checked By: KC Date: 11-27-12

DCN: CT-22 DATE: 2/2/10 REVISION: 9 C:\MSOFFICE\Excel\Perms\November 2012\[429P2.XLS]Sheet1

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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 6
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-03		

Specific Gravity	2.70 Assumed
Sample Condition	Undisturbed

Visual Description: BLACK STABILIZED MATERIAL

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	1460	1744
Wt. of Tare & WS (gm.)	293.36	488.52
Wt. of Tare & DS (gm.)	253.69	408.20
Wt. of Tare (gm.)	82.63	83.28
Wt. of Water (gm.)	39.67	80.32
Wt. of DS (gm.)	171.06	324.92
Moisture Content (%)	**23.2**	**24.7**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	408.56	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (calc.)(gm.)	408.56	413.63
Length 1 (in.)	1.860	1.858
Length 2 (in.)	1.863	1.846
Length 3 (in.)	1.862	1.858
Top Diameter (in.)	3.010	3.016
Middle Diameter (in.)	3.013	3.013
Bottom Diameter (in.)	3.018	3.020
Average Length (in.)	1.86	1.85
Average Area ($in.^2$)	7.13	7.15
Sample Volume (cm^3)	217.61	217.10
Unit Wet Wt. ($gm./cm^3$)	1.88	1.91
Unit Wet Wt. (pcf)	117.2	118.9
Unit Dry Wt. (pcf)	95.1	95.4
Unit Dry Wt. ($gm./cm^3$)	1.52	1.53
Void Ratio, e	0.77	0.77
Porosity, n	0.44	0.43
Pore Volume (cm^3)	94.8	94.3
Total Wgt. Of Sample After Test		411.1

Tested By: YTR Date: 11/14/12 Checked By: KC Date: 11-27-12

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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/28/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 6
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-03		

Pressure Heads (Constant)		**Final Sample Dimensions**	
Top Cap (psi)	67.5	Sample Length (cm), L	4.71
Bottom Cap (psi)	70.0	Sample Diameter (cm)	7.66
Cell (psi)	75.0	Sample Area (cm^2), A	46.10
Total Pressure Head (cm)	175.8	Inflow Burette Area (cm^2), a-in	0.897
Hydraulic Gradient	37.32	Outflow Burette Area (cm^2), a-out	0.899
		B Parameter (%)	98

AVERAGE PERMEABILITY = 3.3E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 3.3E-10 m/sec @ 20°C

DATE	TIME		ELAPSED TIME	TOTAL INFLOW	TOTAL OUTFLOW	TOTAL HEAD	FLOW	TEMP.	INCREMENTAL PERMEABILITY
			t			**h**	(0 flow)		@ 20°C
(mm/dd/yy)	(hr)	(min)	(hr)	(cm^3)	(cm^3)	(cm)	(1 stop)	(°C)	(cm/sec)
11/16/12	8	33	0.0	0.0	0.0	197.7	0	20.0	NA
11/16/12	16	40	8.1	2.2	1.7	193.3	0	20.0	3.5E-08
11/16/12	17	35	9.0	2.5	1.9	192.8	0	20.0	4.0E-08
11/17/12	10	0	25.5	6.5	5.2	184.7	0	19.0	3.4E-08
11/19/12	7	0	70.5	16.2	14.0	164.1	0	19.5	3.4E-08
11/19/12	10	37	74.1	16.9	14.6	162.7	0	19.5	3.1E-08
11/19/12	13	42	77.2	17.5	15.2	161.4	0	19.5	3.4E-08
11/19/12	19	50	83.3	18.7	16.3	158.8	0	20.0	3.3E-08
11/20/12	7	10	94.6	20.8	18.3	154.3	1	20.0	3.3E-08

Tested By: YTR Date: 11/14/12 Checked By: KL Date: 11-27-12

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PERMEABILITY TEST

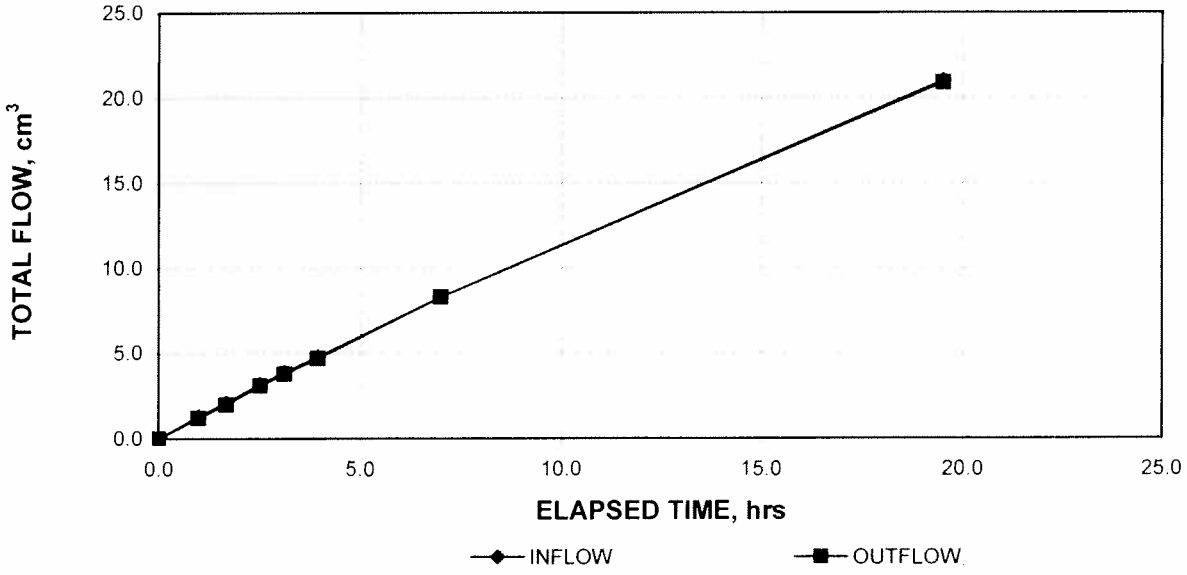
ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

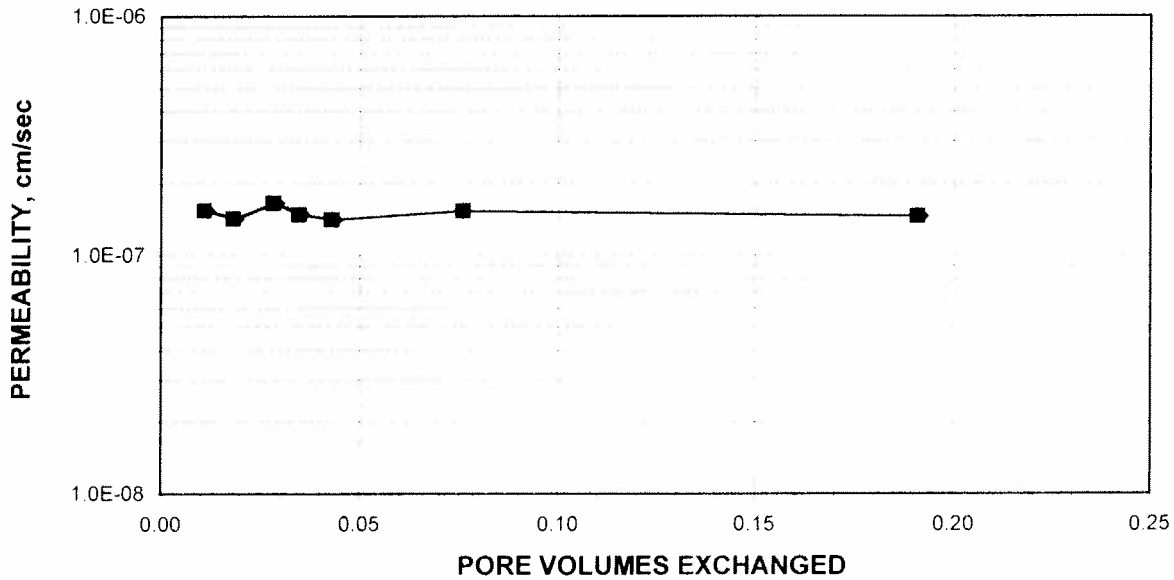
Client	GEO-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 8
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-04		

AVERAGE PERMEABILITY = 1.5E-07 cm/sec @ 20°C
AVERAGE PERMEABILITY = 1.5E-09 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-19-12

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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 8
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-04		
		Specific Gravity	2.70 Assumed
		Sample Condition	Undisturbed

Visual Description: BLACK STABILIZED MATERIAL

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	1743	1717
Wt. of Tare & WS (gm.)	253.16	419.26
Wt. of Tare & DS (gm.)	205.54	321.37
Wt. of Tare (gm.)	83.38	83.18
Wt. of Water (gm.)	47.62	97.89
Wt. of DS (gm.)	122.16	238.19
Moisture Content (%)	**39.0**	**41.1**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	333.52	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (calc.)(gm.)	333.52	338.60
Length 1 (in.)	1.692	1.699
Length 2 (in.)	1.707	1.696
Length 3 (in.)	1.703	1.694
Top Diameter (in.)	3.012	3.021
Middle Diameter (in.)	3.010	3.008
Bottom Diameter (in.)	3.015	3.014
Average Length (in.)	1.70	1.70
Average Area ($in.^2$)	7.13	7.14
Sample Volume (cm^3)	198.62	198.37
Unit Wet Wt. ($gm./cm^3$)	1.68	1.71
Unit Wet Wt. (pcf)	104.8	106.5
Unit Dry Wt. (pcf)	75.4	75.5
Unit Dry Wt. ($gm./cm^3$)	1.21	1.21
Void Ratio, e	1.23	1.23
Porosity, n	0.55	0.55
Pore Volume (cm^3)	109.7	109.5
Total Wgt. Of Sample After Test		336.8

Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-19-12

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PERMEABILITY TEST

ASTM D 5084-10
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INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 8
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-04		

Pressure Heads (Constant)		**Final Sample Dimensions**	
Top Cap (psi)	67.5	Sample Length (cm), L	4.31
Bottom Cap (psi)	70.0	Sample Diameter (cm)	7.66
Cell (psi)	75.0	Sample Area (cm^2), A	46.04
Total Pressure Head (cm)	175.8	Inflow Burette Area (cm^2), a-in	0.874
Hydraulic Gradient	40.79	Outflow Burette Area (cm^2), a-out	0.961
		B Parameter (%)	98

AVERAGE PERMEABILITY = 1.5E-07 cm/sec @ 20°C
AVERAGE PERMEABILITY = 1.5E-09 m/sec @ 20°C

DATE	TIME		ELAPSED TIME	TOTAL INFLOW	TOTAL OUTFLOW	TOTAL HEAD	FLOW	TEMP.	INCREMENTAL PERMEABILITY
			t			**h**	(0 flow)		@ 20°C
(mm/dd/yy)	(hr)	(min)	(hr)	(cm^3)	(cm^3)	(cm)	(1 stop)	(°C)	(cm/sec)
11/15/12	11	36	0.0	0.0	0.0	212.0	0	20.0	NA
11/15/12	12	36	1.0	1.3	1.2	209.3	0	20.0	1.5E-07
11/15/12	13	18	1.7	2.1	2.0	207.6	0	20.0	1.4E-07
11/15/12	14	8	2.5	3.2	3.1	205.2	0	20.0	1.7E-07
11/15/12	14	44	3.1	3.9	3.8	203.6	0	20.0	1.5E-07
11/15/12	15	33	4.0	4.8	4.7	201.7	0	20.0	1.4E-07
11/15/12	18	35	7.0	8.3	8.3	193.9	0	20.0	1.5E-07
11/16/12	7	7	19.5	21.0	20.9	166.4	1	20.0	1.5E-07

Tested By: TRE Date: 11/14/12 Checked By: RC Date: 11-19-12

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PERMEABILITY TEST

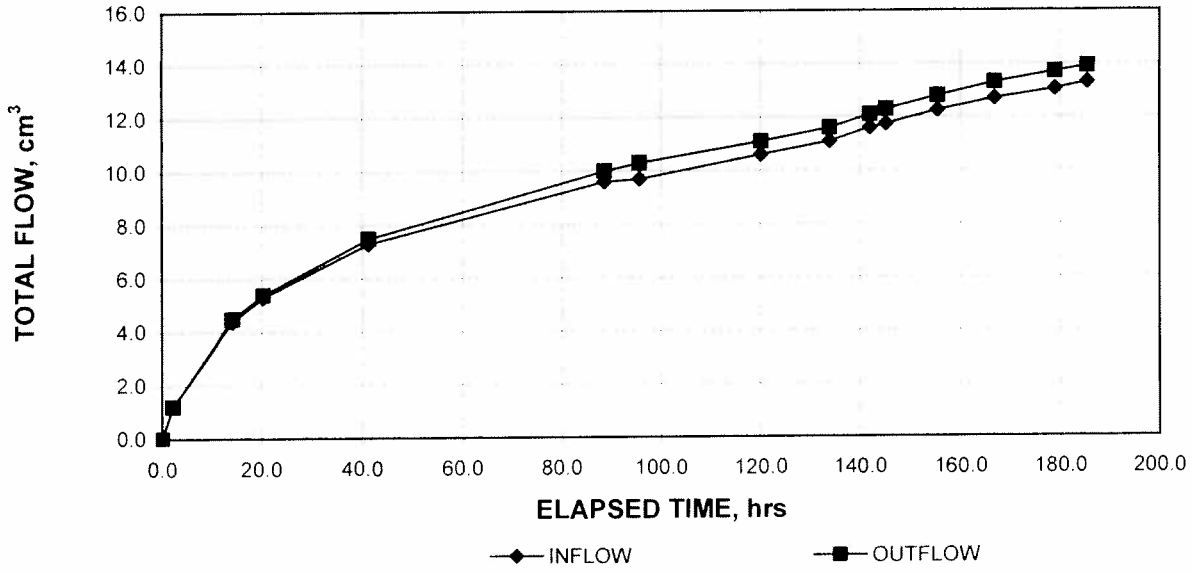
ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

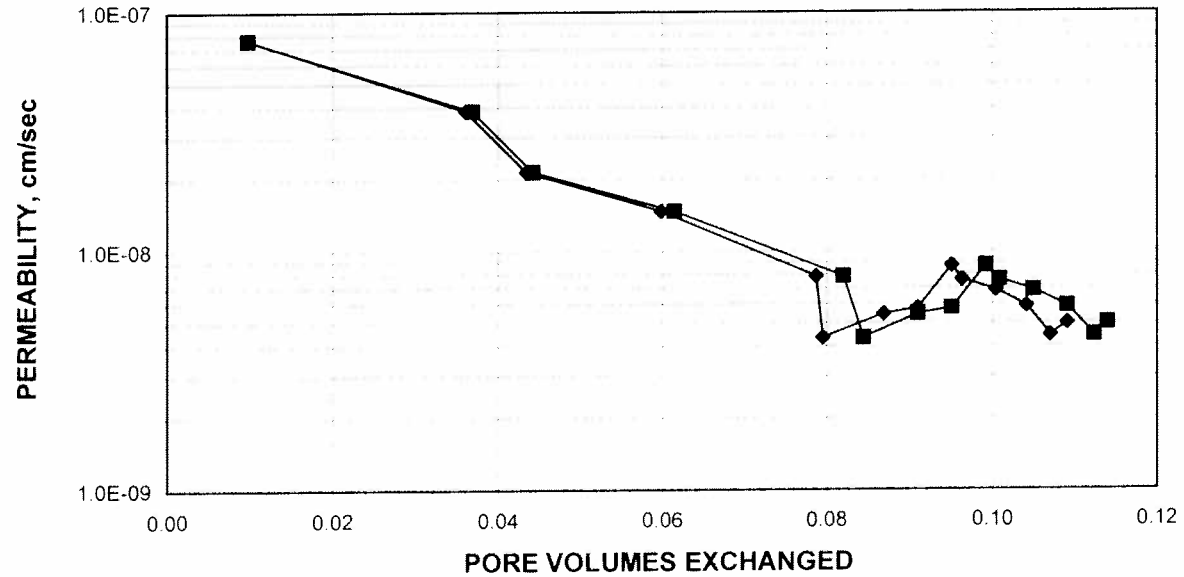
Client	GEC-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 11
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-05		

AVERAGE PERMEABILITY = 5.5E-09 cm/sec @ 20°C
AVERAGE PERMEABILITY = 5.5E-11 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-30-12

DCN: CT-22 DATE: 2/2/10 REVISION: 9 C:\MSOFFICE\Excel\Perms\November 2012\[429P6.XLS]Sheet1

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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

Client	GEC-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 11
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-05		

Specific Gravity	2.70 Assumed
Sample Condition	Undisturbed

Visual Description: BLACK STABILIZED MATERIAL

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	630	911
Wt. of Tare & WS (gm.)	214.90	456.92
Wt. of Tare & DS (gm.)	173.35	348.32
Wt. of Tare (gm.)	82.20	110.06
Wt. of Water (gm.)	41.55	108.60
Wt. of DS (gm.)	91.15	238.26
Moisture Content (%)	**45.6**	**45.6**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	342.29	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (calc.)(gm.)	342.29	342.28
Length 1 (in.)	1.797	1.774
Length 2 (in.)	1.783	1.792
Length 3 (in.)	1.814	1.795
Top Diameter (in.)	3.020	3.017
Middle Diameter (in.)	3.017	3.015
Bottom Diameter (in.)	3.011	3.012
Average Length (in.)	1.80	1.79
Average Area ($in.^2$)	7.14	7.14
Sample Volume (cm^3)	210.50	209.02
Unit Wet Wt. ($gm./cm^3$)	1.63	1.64
Unit Wet Wt. (pcf)	101.5	102.2
Unit Dry Wt. (pcf)	69.7	70.2
Unit Dry Wt. ($gm./cm^3$)	1.12	1.12
Void Ratio, e	1.42	1.40
Porosity, n	0.59	0.58
Pore Volume (cm^3)	123.4	121.9
Total Wgt. Of Sample After Test		348.2

Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-30-12

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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

Client	GEC-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 11
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-05		

Pressure Heads (Constant)	
Top Cap (psi)	67.5
Bottom Cap (psi)	70.0
Cell (psi)	75.0
Total Pressure Head (cm)	175.8
Hydraulic Gradient	38.72

Final Sample Dimensions	
Sample Length (cm), L	4.54
Sample Diameter (cm)	7.66
Sample Area (cm^2), A	46.05
Inflow Burette Area (cm^2), a-in	0.891
Outflow Burette Area (cm^2), a-out	0.915
B Parameter (%)	97

AVERAGE PERMEABILITY = 5.5E-09 cm/sec @ 20°C
AVERAGE PERMEABILITY = 5.5E-11 m/sec @ 20°C

DATE	TIME		ELAPSED TIME t	TOTAL INFLOW	TOTAL OUTFLOW	TOTAL HEAD h	FLOW (0 flow)	TEMP.	INCREMENTAL PERMEABILITY @ 20°C
(mm/dd/yy)	(hr)	(min)	(hr)	(cm^3)	(cm^3)	(cm)	(1 stop)	(°C)	(cm/sec)
11/20/12	17	9	0.0	0.0	0.0	197.2	0	20.0	NA
11/20/12	19	20	2.2	1.2	1.2	194.5	0	20.0	7.6E-08
11/21/12	7	20	14.2	4.4	4.5	187.4	0	20.0	3.9E-08
11/21/12	13	27	20.3	5.3	5.4	185.4	0	20.0	2.2E-08
11/22/12	10	25	41.3	7.3	7.5	180.9	0	19.5	1.5E-08
11/24/12	9	45	88.6	9.6	10.0	175.6	0	19.5	7.8E-09
11/24/12	16	50	95.7	9.7	10.3	175.1	0	20.0	4.3E-09
11/25/12	17	15	120.1	10.6	11.1	173.3	0	20.0	5.4E-09
11/26/12	7	5	133.9	11.1	11.6	172.2	1	19.5	5.8E-09
11/26/12	9	30	133.9	11.1	11.6	194.4	0	20.0	NA
11/26/12	17	35	142.0	11.6	12.1	193.3	0	20.0	8.7E-09
11/26/12	20	50	145.3	11.8	12.3	192.9	0	20.0	7.6E-09
11/27/12	7	7	155.6	12.3	12.8	191.8	0	20.2	6.9E-09
11/27/12	18	30	166.9	12.7	13.3	190.7	0	20.5	5.9E-09
11/28/12	6	35	179.0	13.1	13.7	189.9	0	20.0	4.4E-09
11/28/12	13	4	185.5	13.3	13.9	189.4	1	20.0	5.0E-09

Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-30-12

DCN: CT-22 DATE: 2/2/10 REVISION: 9
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PERMEABILITY TEST

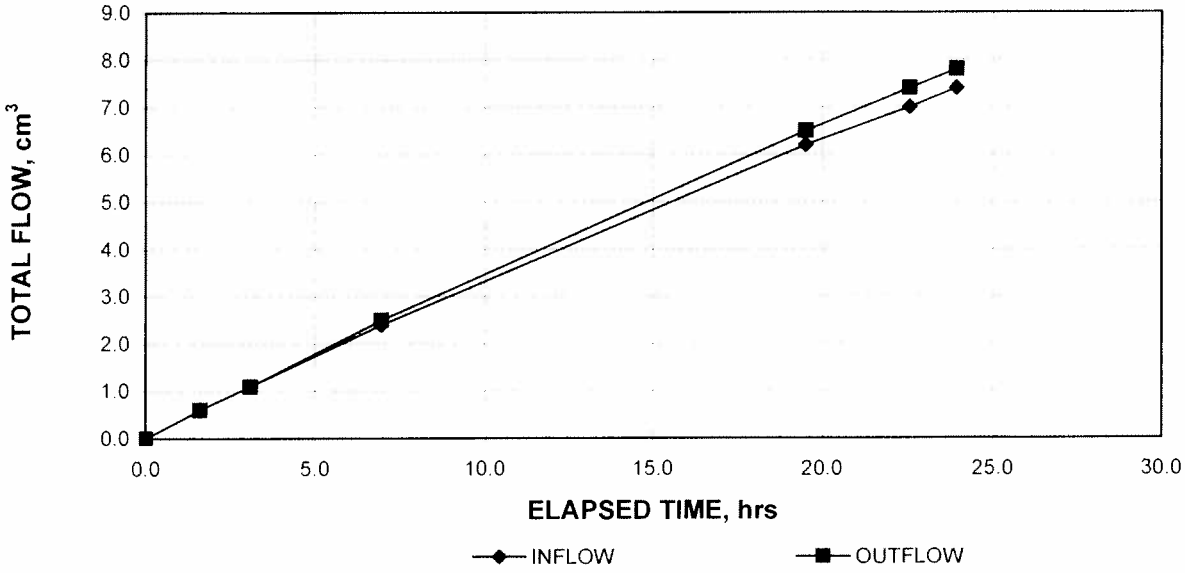
ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

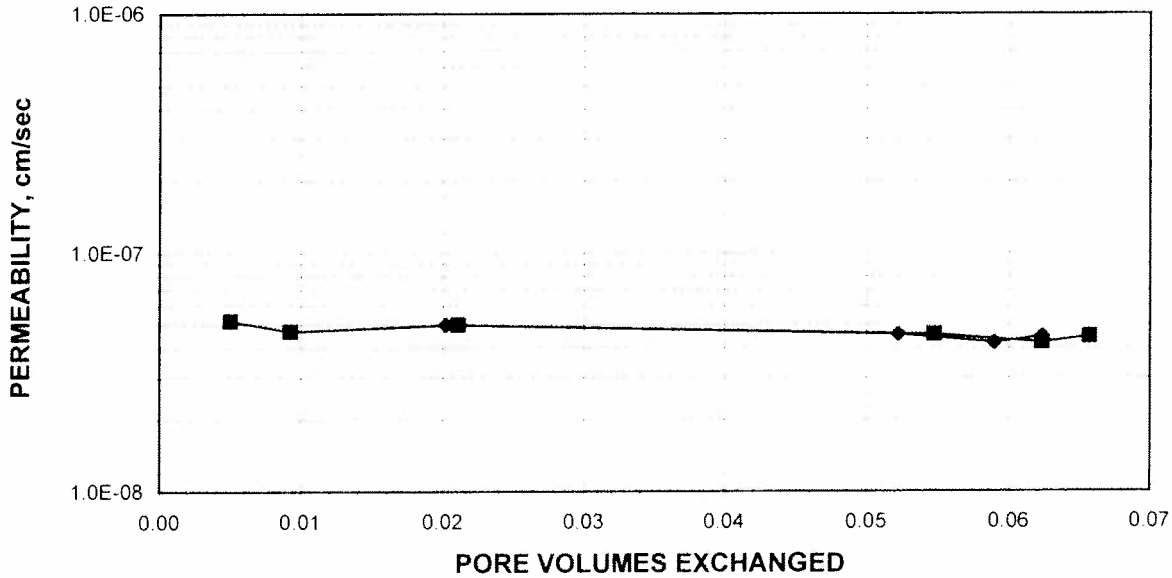
Client	GEO-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 12
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-06		

AVERAGE PERMEABILITY = 4.6E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 4.6E-10 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: TRE Date: 11/14/12 Checked By: BC Date: 11-19-12

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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

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INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 12
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-06		

Specific Gravity 2.70 Assumed
Sample Condition Undisturbed

Visual Description: BLACK STABILIZED MATERIAL

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	1705	870
Wt. of Tare & WS (gm.)	225.31	450.20
Wt. of Tare & DS (gm.)	182.35	343.70
Wt. of Tare (gm.)	83.10	109.83
Wt. of Water (gm.)	42.96	106.50
Wt. of DS (gm.)	99.25	233.87
Moisture Content (%)	**43.3**	**45.5**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	339.08	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (calc.)(gm.)	339.08	344.41
Length 1 (in.)	1.742	1.768
Length 2 (in.)	1.758	1.757
Length 3 (in.)	1.778	1.753
Top Diameter (in.)	3.012	3.019
Middle Diameter (in.)	3.016	3.011
Bottom Diameter (in.)	3.024	3.027
Average Length (in.)	1.76	1.76
Average Area ($in.^2$)	7.15	7.16
Sample Volume (cm^3)	206.15	206.38
Unit Wet Wt. ($gm./cm^3$)	1.64	1.67
Unit Wet Wt. (pcf)	102.7	104.2
Unit Dry Wt. (pcf)	71.7	71.6
Unit Dry Wt. ($gm./cm^3$)	1.15	1.15
Void Ratio, e	1.35	1.35
Porosity, n	0.57	0.58
Pore Volume (cm^3)	118.5	118.7
Total Wgt. Of Sample After Test		344.8

Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-19-12

DCN: CT-22 DATE: 2/2/10 REVISION: 9
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PERMEABILITY TEST

ASTM D 5084-10
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

Client	GEO-CON / EBC	Boring No.	9/29/12
Client Project	12-037 NORTH ALBANY, NY	Depth (ft.)	MIX 12
Project No.	2012-429-04	Sample No.	NA
Lab ID No.	2012-429-04-06		

Pressure Heads (Constant)

Top Cap (psi)	67.5
Bottom Cap (psi)	70.0
Cell (psi)	75.0
Total Pressure Head (cm)	175.8
Hydraulic Gradient	39.33

Final Sample Dimensions

Sample Length (cm), L	4.47
Sample Diameter (cm)	7.67
Sample Area (cm^2), A	46.18
Inflow Burette Area (cm^2), a-in	0.872
Outflow Burette Area (cm^2), a-out	0.896
B Parameter (%)	99

AVERAGE PERMEABILITY = 4.6E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 4.6E-10 m/sec @ 20°C

DATE	TIME		ELAPSED TIME t	TOTAL INFLOW	TOTAL OUTFLOW	TOTAL HEAD h	FLOW (0 flow) (1 stop)	TEMP.	INCREMENTAL PERMEABILITY @ 20°C
(mm/dd/yy)	(hr)	(min)	(hr)	(cm^3)	(cm^3)	(cm)		(°C)	(cm/sec)
11/15/12	11	38	0.0	0.0	0.0	192.9	0	20.0	NA
11/15/12	13	15	1.6	0.6	0.6	191.5	0	20.0	5.2E-08
11/15/12	14	45	3.1	1.1	1.1	190.4	0	20.0	4.7E-08
11/15/12	18	35	7.0	2.4	2.5	187.3	0	20.0	5.0E-08
11/16/12	7	9	19.5	6.2	6.5	178.5	0	20.0	4.6E-08
11/16/12	10	12	22.6	7.0	7.4	176.6	0	20.0	4.2E-08
11/16/12	11	34	23.9	7.4	7.8	175.7	1	20.0	4.5E-08

Tested By: TRE Date: 11/14/12 Checked By: KC Date: 11-19-12

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SCHEDULE OF ELUATE RENEWALS
IN-SITU SOLIDIFICATION TREATABILITY STUDY
FORMER MGP SITE
ALBANY, NEW YORK

GEO-CON 12-037
UPDATED DEC 16, 2012

SAMPLE: **GT-03/04**
MIX NO.: **Mix 37-3**

Interval Label	Interval Duration (day)	Sample Duration (day)	Cumulative Leaching Time (day)	Date	Time (hr:min)	Sample (yes/no)	Sample + Lid Weight (gm)	Sample Weight (gm)	Temperature (^{o}F)
Start				26-Nov-12	11:00		335.31	186.00	72.50
T-1-1	1.0	1.0	1.0	27-Nov-12	11:00	**yes**	337.32	188.01	72.50
T-1-2	1.0	2.0	2.0	28-Nov-12	11:00	no	338.55	189.24	72.50
T-1-3	1.0	3.0	3.0	29-Nov-12	11:00	no	338.44	189.13	72.50
T-1-4	1.0	4.0	4.0	30-Nov-12	11:00	no	338.38	189.07	72.50
T-1-5	1.0	5.0	5.0	1-Dec-12	11:00	**yes**	338.22	188.91	72.50
T-2-1	1.0	1.0	6.0	2-Dec-12	11:00	no	338.34	189.03	72.50
T-2-2	1.0	2.0	7.0	3-Dec-12	11:00	no	338.46	189.15	72.50
T-2-3	1.0	3.0	8.0	4-Dec-12	11:00	no	339.23	189.92	72.50
T-2-4	1.0	4.0	9.0	5-Dec-12	11:00	no	338.93	189.62	72.50
T-2-5	1.0	5.0	10.0	6-Dec-12	11:00	**yes**	338.32	189.01	72.50
T-3-1	1.0	1.0	11.0	7-Dec-12	11:00	no	338.34	189.03	72.50
T-3-2	1.0	2.0	12.0	8-Dec-12	11:00	no	338.29	188.98	72.50
T-3-3	1.0	3.0	13.0	9-Dec-12	11:00	no	338.31	189.00	72.50
T-3-4	1.0	4.0	14.0	10-Dec-12	11:00	no	339.36	190.05	72.50
T-3-5	1.0	5.0	15.0	11-Dec-12	11:00	**yes**	338.10	188.79	72.50
T-4-1	1.0	1.0	16.0	12-Dec-12	11:00	no	338.42	189.11	72.50
T-4-2	1.0	2.0	17.0	13-Dec-12	11:00	no	338.74	189.43	72.50
T-4-3	1.0	3.0	18.0	14-Dec-12	11:00	no	338.95	189.64	72.50
T-4-4	1.0	4.0	19.0	15-Dec-12	11:00	no	338.15	188.84	72.50
T-4-5	1.0	5.0	20.0	16-Dec-12	11:00	**yes**	338.42	189.11	72.50

2.00 inches, Sample Diamter
5.08 cm, Sample Diameter
2.54 cm, Sample Radius
1.75 inches Sample Height
4.45 cm, Sample Height
111.48 cm^2, Sample Area
90.09 ml, Sample Volume
10.00 ml Eluent:cm^2 Sample Area Factor
1,114.75 ml, Eluent
1,204.84 ml, Total Volume
1,220.00 ml, Vessel
15.16 ml, Headspace

SCHEDULE OF ELUATE RENEWALS
IN-SITU SOLIDIFICATION TREATABILITY STUDY
FORMER MGP SITE
ALBANY, NEW YORK

GEO-CON 12-037
UPDATED DEC 16, 2012

SAMPLE: **GT-03/04**
MIX NO.: **Mix 37-4**

Interval Label	Interval Duration (day)	Sample Duration (day)	Cumulative Leaching Time (day)	Date	Time (hr:min)	Sample (yes/no)	Sample + Lid Weight (gm)	Sample Weight (gm)	Temperature (^{o}F)
Start				26-Nov-12	11:05		342.56	194.24	72.50
T-1-1	1.0	1.0	1.0	27-Nov-12	11:05	**yes**	345.06	196.74	72.50
T-1-2	1.0	2.0	2.0	28-Nov-12	11:05	no	344.01	195.69	72.50
T-1-3	1.0	3.0	3.0	29-Nov-12	11:05	no	344.39	196.07	72.50
T-1-4	1.0	4.0	4.0	30-Nov-12	11:05	no	344.90	196.58	72.50
T-1-5	1.0	5.0	5.0	1-Dec-12	11:05	**yes**	344.58	196.26	72.50
T-2-1	1.0	1.0	6.0	2-Dec-12	11:05	no	345.12	196.80	72.50
T-2-2	1.0	2.0	7.0	3-Dec-12	11:05	no	345.44	197.12	72.50
T-2-3	1.0	3.0	8.0	4-Dec-12	11:05	no	345.35	197.03	72.50
T-2-4	1.0	4.0	9.0	5-Dec-12	11:05	no	345.50	197.18	72.50
T-2-5	1.0	5.0	10.0	6-Dec-12	11:05	**yes**	344.97	196.65	72.50
T-3-1	1.0	1.0	11.0	7-Dec-12	11:05	no	344.63	196.31	72.50
T-3-2	1.0	2.0	12.0	8-Dec-12	11:05	no	344.59	196.27	72.50
T-3-3	1.0	3.0	13.0	9-Dec-12	11:05	no	344.53	196.21	72.50
T-3-4	1.0	4.0	14.0	10-Dec-12	11:05	no	344.54	196.22	72.50
T-3-5	1.0	5.0	15.0	11-Dec-12	11:05	**yes**	344.54	196.22	72.50
T-4-1	1.0	1.0	16.0	12-Dec-12	11:05	no	344.56	196.24	72.50
T-4-2	1.0	2.0	17.0	13-Dec-12	11:05	no	344.55	196.23	72.50
T-4-3	1.0	3.0	18.0	14-Dec-12	11:05	no	344.92	196.60	72.50
T-4-4	1.0	4.0	19.0	15-Dec-12	11:05	no	345.49	197.17	72.50
T-4-5	1.0	5.0	20.0	16-Dec-12	11:05	**yes**	345.16	196.84	72.50

2.00 inches, Sample Diamter
5.08 cm, Sample Diameter
2.54 cm, Sample Radius
1.75 inches Sample Height
4.45 cm, Sample Height
111.48 cm^2, Sample Area
90.09 ml, Sample Volume
10.00 ml Eluent:cm^2 Sample Area Factor
1,114.75 ml, Eluent
1,204.84 ml, Total Volume
1,220.00 ml, Vessel
15.16 ml, Headspace

SCHEDULE OF ELUATE RENEWALS
IN-SITU SOLIDIFICATION TREATABILITY STUDY
FORMER MGP SITE
ALBANY, NEW YORK

GEO-CON 12-037
UPDATED DEC 16, 2012

SAMPLE: **GT-03/04**
MIX NO.: **Mix 37-6**

Interval Label	Interval Duration (day)	Sample Duration (day)	Cumulative Leaching Time (day)	Date	Time (hr:min)	Sample (yes/no)	Sample + Lid Weight (gm)	Sample Weight (gm)	Temperature (^{o}F)
Start				26-Nov-12	11:10		335.74	188.68	72.50
T-1-1	1.0	1.0	1.0	27-Nov-12	11:10	**yes**	337.57	190.51	72.50
T-1-2	1.0	2.0	2.0	28-Nov-12	11:10	no	337.09	190.03	72.50
T-1-3	1.0	3.0	3.0	29-Nov-12	11:10	no	337.37	190.31	72.50
T-1-4	1.0	4.0	4.0	30-Nov-12	11:10	no	337.50	190.44	72.50
T-1-5	1.0	5.0	5.0	1-Dec-12	11:10	**yes**	337.65	190.59	72.50
T-2-1	1.0	1.0	6.0	2-Dec-12	11:10	no	337.79	190.73	72.50
T-2-2	1.0	2.0	7.0	3-Dec-12	11:10	no	337.76	190.70	72.50
T-2-3	1.0	3.0	8.0	4-Dec-12	11:10	no	338.39	191.33	72.50
T-2-4	1.0	4.0	9.0	5-Dec-12	11:10	no	338.02	190.96	72.50
T-2-5	1.0	5.0	10.0	6-Dec-12	11:10	**yes**	337.63	190.57	72.50
T-3-1	1.0	1.0	11.0	7-Dec-12	11:10	no	337.80	190.74	72.50
T-3-2	1.0	2.0	12.0	8-Dec-12	11:10	no	337.82	190.76	72.50
T-3-3	1.0	3.0	13.0	9-Dec-12	11:10	no	337.87	190.81	72.50
T-3-4	1.0	4.0	14.0	10-Dec-12	11:10	no	338.19	191.13	72.50
T-3-5	1.0	5.0	15.0	11-Dec-12	11:10	**yes**	337.52	190.46	72.50
T-4-1	1.0	1.0	16.0	12-Dec-12	11:10	no	337.96	190.90	72.50
T-4-2	1.0	2.0	17.0	13-Dec-12	11:10	no	338.34	191.28	72.50
T-4-3	1.0	3.0	18.0	14-Dec-12	11:10	no	337.90	190.84	72.50
T-4-4	1.0	4.0	19.0	15-Dec-12	11:10	no	338.30	191.24	72.50
T-4-5	1.0	5.0	20.0	16-Dec-12	11:10	**yes**	338.26	191.20	72.50

SCHEDULE OF ELUATE RENEWALS
IN-SITU SOLIDIFICATION TREATABILITY STUDY
FORMER MGP SITE
ALBANY, NEW YORK

GEO-CON 12-037
UPDATED DEC 16, 2012

SAMPLE: **GT-06/07**
MIX NO.: **Mix 37-8**

Interval Label	Interval Duration (day)	Sample Duration (day)	Cumulative Leaching Time (day)	Date	Time (hr:min)	Sample (yes/no)	Sample + Lid Weight (gm)	Sample Weight (gm)	Temperature (^{o}F)
Start				26-Nov-12	11:15		305.60	158.22	72.50
T-1-1	1.0	1.0	1.0	27-Nov-12	11:15	**yes**	308.14	160.76	72.50
T-1-2	1.0	2.0	2.0	28-Nov-12	11:15	no	307.97	160.59	72.50
T-1-3	1.0	3.0	3.0	29-Nov-12	11:15	no	308.32	160.94	72.50
T-1-4	1.0	4.0	4.0	30-Nov-12	11:15	no	308.16	160.78	72.50
T-1-5	1.0	5.0	5.0	1-Dec-12	11:15	**yes**	308.20	160.82	72.50
T-2-1	1.0	1.0	6.0	2-Dec-12	11:15	no	308.61	161.23	72.50
T-2-2	1.0	2.0	7.0	3-Dec-12	11:15	no	308.57	161.19	72.50
T-2-3	1.0	3.0	8.0	4-Dec-12	11:15	no	310.33	162.95	72.50
T-2-4	1.0	4.0	9.0	5-Dec-12	11:15	no	308.77	161.39	72.50
T-2-5	1.0	5.0	10.0	6-Dec-12	11:15	**yes**	308.30	160.92	72.50
T-3-1	1.0	1.0	11.0	7-Dec-12	11:15	no	308.46	161.08	72.50
T-3-2	1.0	2.0	12.0	8-Dec-12	11:15	no	308.62	161.24	72.50
T-3-3	1.0	3.0	13.0	9-Dec-12	11:15	no	308.59	161.21	72.50
T-3-4	1.0	4.0	14.0	10-Dec-12	11:15	no	308.93	161.55	72.50
T-3-5	1.0	5.0	15.0	11-Dec-12	11:15	**yes**	308.13	160.75	72.50
T-4-1	1.0	1.0	16.0	12-Dec-12	11:15	no	308.56	161.18	72.50
T-4-2	1.0	2.0	17.0	13-Dec-12	11:15	no	308.48	161.10	72.50
T-4-3	1.0	3.0	18.0	14-Dec-12	11:15	no	309.03	161.65	72.50
T-4-4	1.0	4.0	19.0	15-Dec-12	11:15	no	308.48	161.10	72.50
T-4-5	1.0	5.0	20.0	16-Dec-12	11:15	**yes**	308.63	161.25	72.50

SCHEDULE OF ELUATE RENEWALS
IN-SITU SOLIDIFICATION TREATABILITY STUDY
FORMER MGP SITE
ALBANY, NEW YORK

GEO-CON 12-037
UPDATED DEC 16, 2012

SAMPLE: **GT-06/07**
MIX NO.: **Mix 37-11**

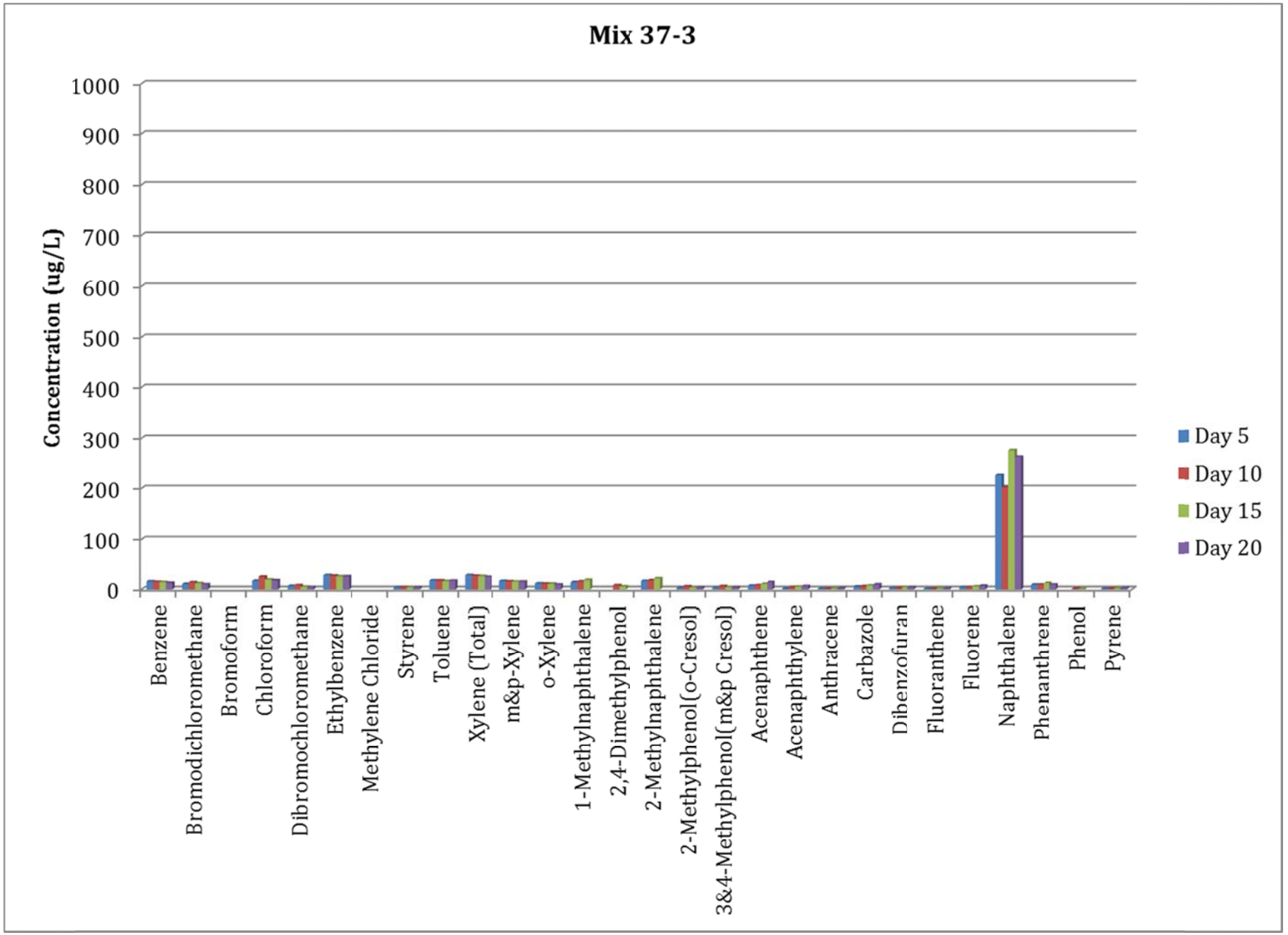
Interval Label	Interval Duration (day)	Sample Duration (day)	Cumulative Leaching Time (day)	Date	Time (hr:min)	Sample (yes/no)	Sample + Lid Weight (gm)	Sample Weight (gm)	Temperature (^{o}F)
Start				26-Nov-12	11:20		305.07	158.42	72.50
T-1-1	1.0	1.0	1.0	27-Nov-12	11:20	**yes**	307.87	161.22	72.50
T-1-2	1.0	2.0	2.0	28-Nov-12	11:20	no	307.66	161.01	72.50
T-1-3	1.0	3.0	3.0	29-Nov-12	11:20	no	307.75	161.10	72.50
T-1-4	1.0	4.0	4.0	30-Nov-12	11:20	no	307.48	160.83	72.50
T-1-5	1.0	5.0	5.0	1-Dec-12	11:20	**yes**	307.62	160.97	72.50
T-2-1	1.0	1.0	6.0	2-Dec-12	11:20	no	307.63	160.98	72.50
T-2-2	1.0	2.0	7.0	3-Dec-12	11:20	no	307.80	161.15	72.50
T-2-3	1.0	3.0	8.0	4-Dec-12	11:20	no	308.54	161.89	72.50
T-2-4	1.0	4.0	9.0	5-Dec-12	11:20	no	308.04	161.39	72.50
T-2-5	1.0	5.0	10.0	6-Dec-12	11:20	**yes**	307.79	161.14	72.50
T-3-1	1.0	1.0	11.0	7-Dec-12	11:20	no	307.71	161.06	72.50
T-3-2	1.0	2.0	12.0	8-Dec-12	11:20	no	307.69	161.04	72.50
T-3-3	1.0	3.0	13.0	9-Dec-12	11:20	no	307.62	160.97	72.50
T-3-4	1.0	4.0	14.0	10-Dec-12	11:20	no	307.57	160.92	72.50
T-3-5	1.0	5.0	15.0	11-Dec-12	11:20	**yes**	307.48	160.83	72.50
T-4-1	1.0	1.0	16.0	12-Dec-12	11:20	no	307.54	160.89	72.50
T-4-2	1.0	2.0	17.0	13-Dec-12	11:20	no	307.62	160.97	72.50
T-4-3	1.0	3.0	18.0	14-Dec-12	11:20	no	307.23	160.58	72.50
T-4-4	1.0	4.0	19.0	15-Dec-12	11:20	no	308.23	161.58	72.50
T-4-5	1.0	5.0	20.0	16-Dec-12	11:20	**yes**	308.11	161.46	72.50

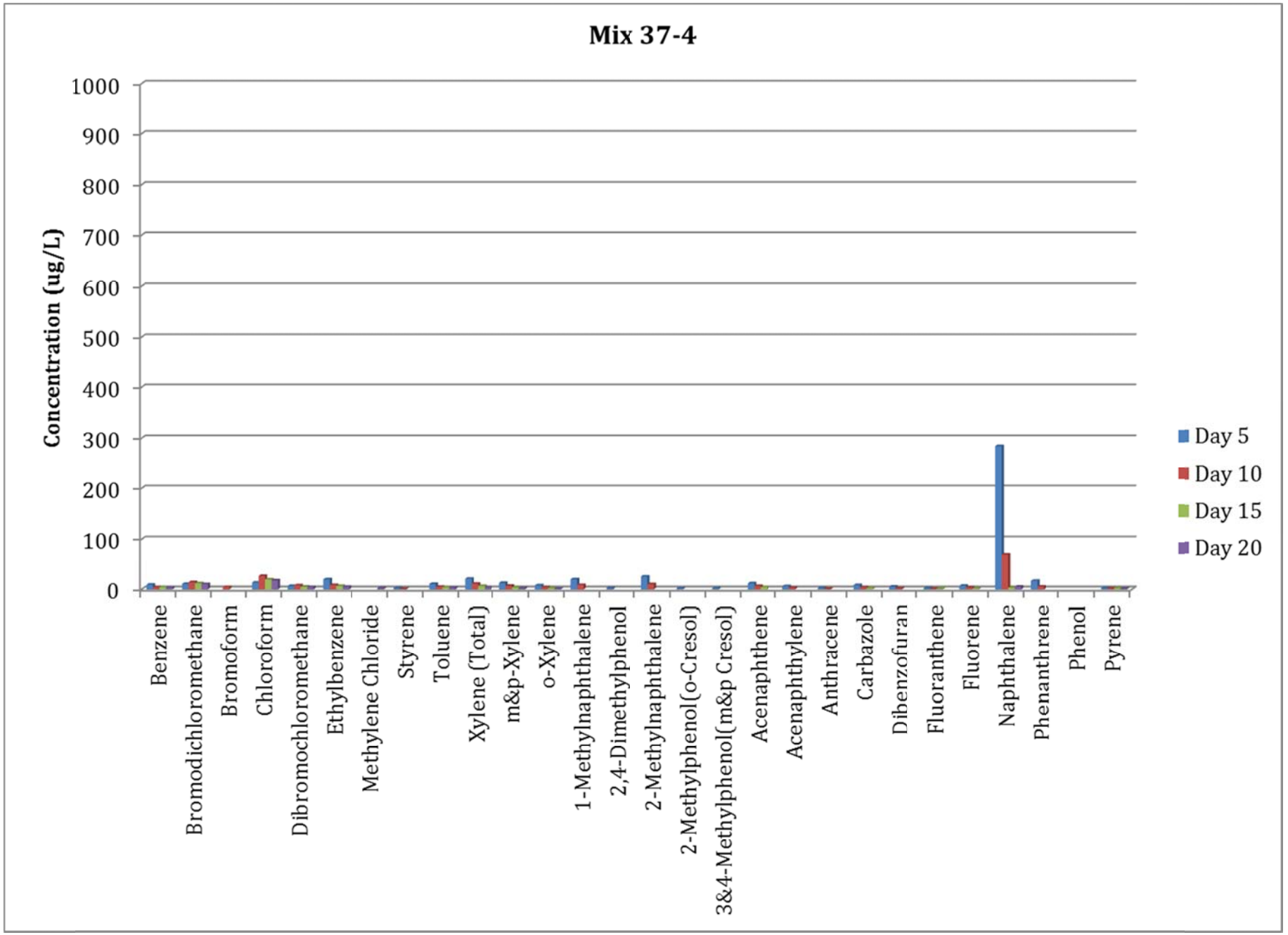
SCHEDULE OF ELUATE RENEWALS
IN-SITU SOLIDIFICATION TREATABILITY STUDY
FORMER MGP SITE
ALBANY, NEW YORK

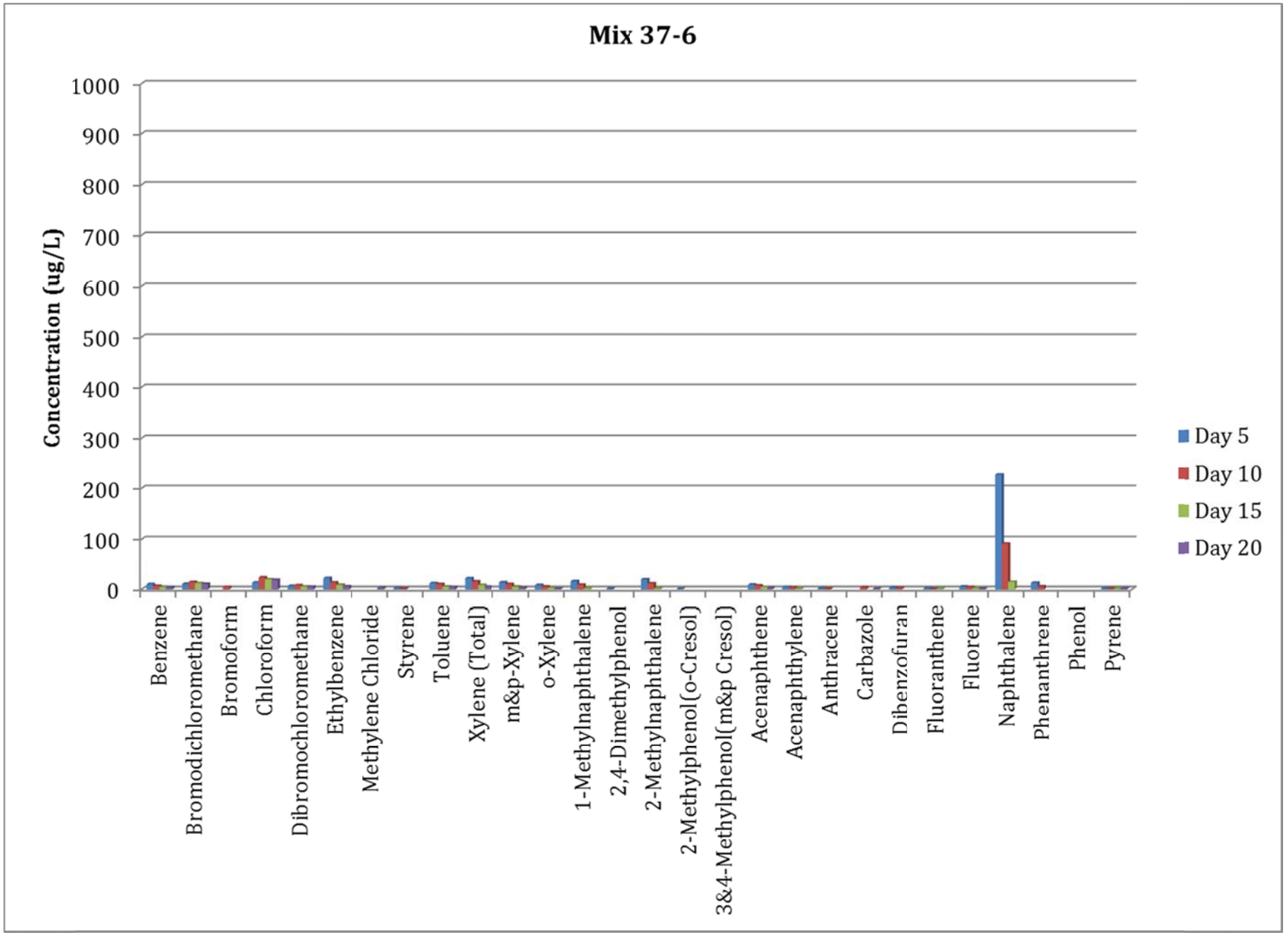
GEO-CON 12-037
UPDATED DEC 16, 2012

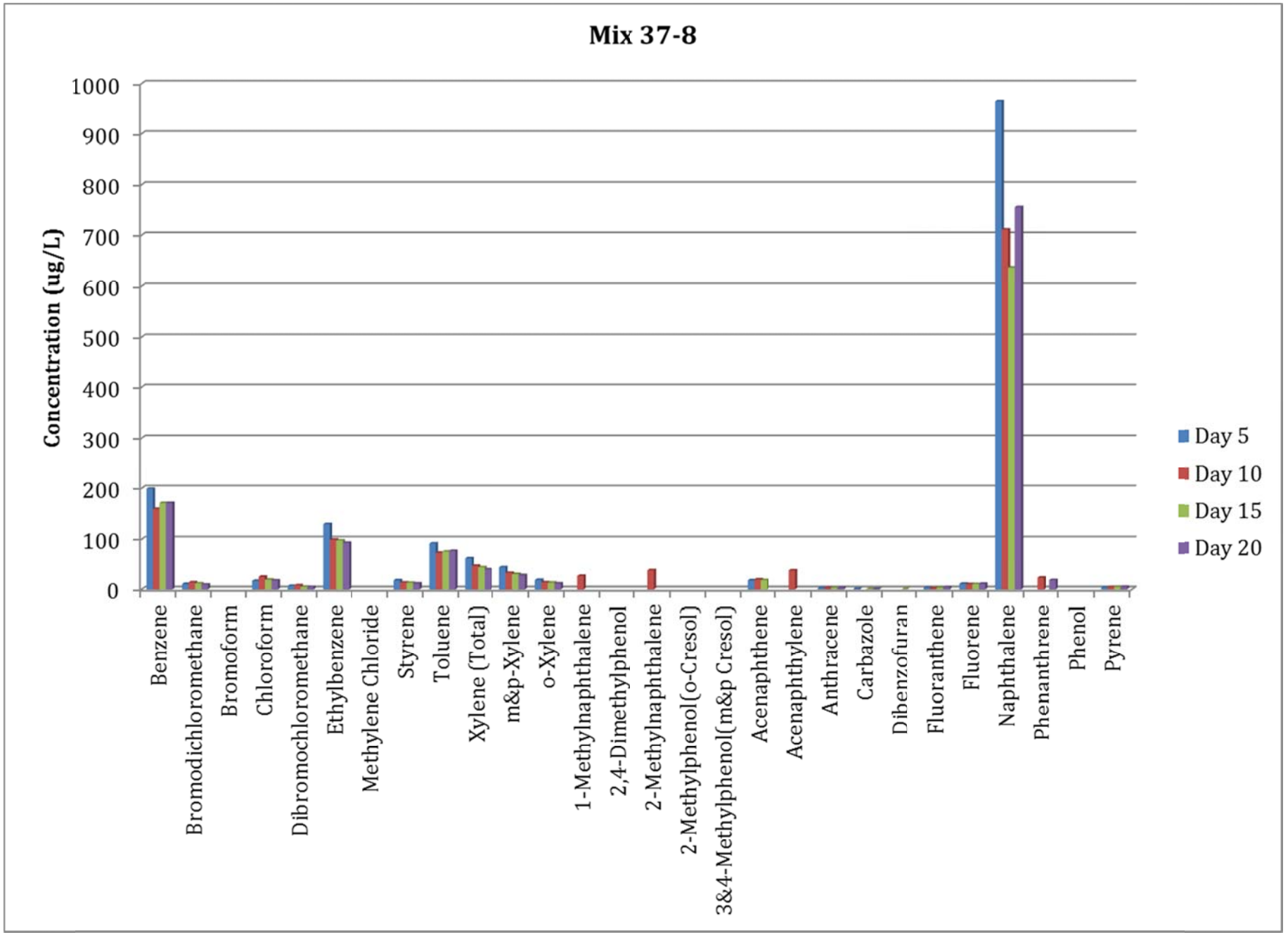
SAMPLE: **GT-06/07**
MIX NO.: **Mix 37-12**

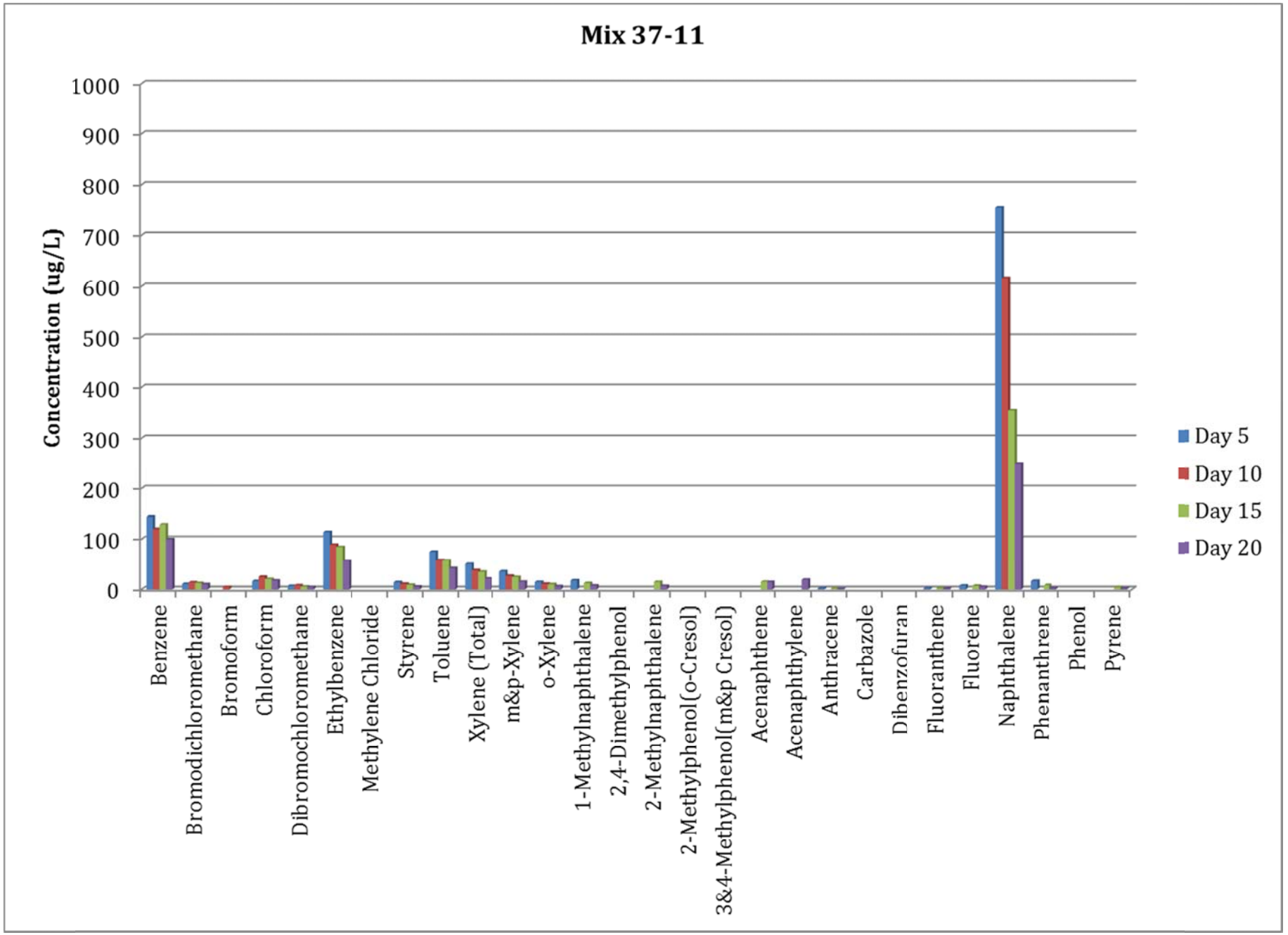
Interval Label	Interval Duration (day)	Sample Duration (day)	Cumulative Leaching Time (day)	Date	Time (hr:min)	Sample (yes/no)	Sample + Lid Weight (gm)	Sample Weight (gm)	Temperature (^{o}F)
Start				26-Nov-12	11:25		309.45	161.35	72.50
T-1-1	1.0	1.0	1.0	27-Nov-12	11:25	**yes**	312.13	164.03	72.50
T-1-2	1.0	2.0	2.0	28-Nov-12	11:25	no	311.26	163.16	72.50
T-1-3	1.0	3.0	3.0	29-Nov-12	11:25	no	311.89	163.79	72.50
T-1-4	1.0	4.0	4.0	30-Nov-12	11:25	no	311.60	163.50	72.50
T-1-5	1.0	5.0	5.0	1-Dec-12	11:25	**yes**	311.49	163.39	72.50
T-2-1	1.0	1.0	6.0	2-Dec-12	11:25	no	311.71	163.61	72.50
T-2-2	1.0	2.0	7.0	3-Dec-12	11:25	no	311.67	163.57	72.50
T-2-3	1.0	3.0	8.0	4-Dec-12	11:25	no	313.62	165.52	72.50
T-2-4	1.0	4.0	9.0	5-Dec-12	11:25	no	311.89	163.79	72.50
T-2-5	1.0	5.0	10.0	6-Dec-12	11:25	**yes**	311.58	163.48	72.50
T-3-1	1.0	1.0	11.0	7-Dec-12	11:25	no	311.64	163.54	72.50
T-3-2	1.0	2.0	12.0	8-Dec-12	11:25	no	311.71	163.61	72.50
T-3-3	1.0	3.0	13.0	9-Dec-12	11:25	no	311.60	163.50	72.50
T-3-4	1.0	4.0	14.0	10-Dec-12	11:25	no	311.80	163.70	72.50
T-3-5	1.0	5.0	15.0	11-Dec-12	11:25	**yes**	311.40	163.30	72.50
T-4-1	1.0	1.0	16.0	12-Dec-12	11:25	no	311.57	163.47	72.50
T-4-2	1.0	2.0	17.0	13-Dec-12	11:25	no	311.68	163.58	72.50
T-4-3	1.0	3.0	18.0	14-Dec-12	11:25	no	311.93	163.83	72.50
T-4-4	1.0	4.0	19.0	15-Dec-12	11:25	no	311.74	163.64	72.50
T-4-5	1.0	5.0	20.0	16-Dec-12	11:25	**yes**	311.82	163.72	72.50

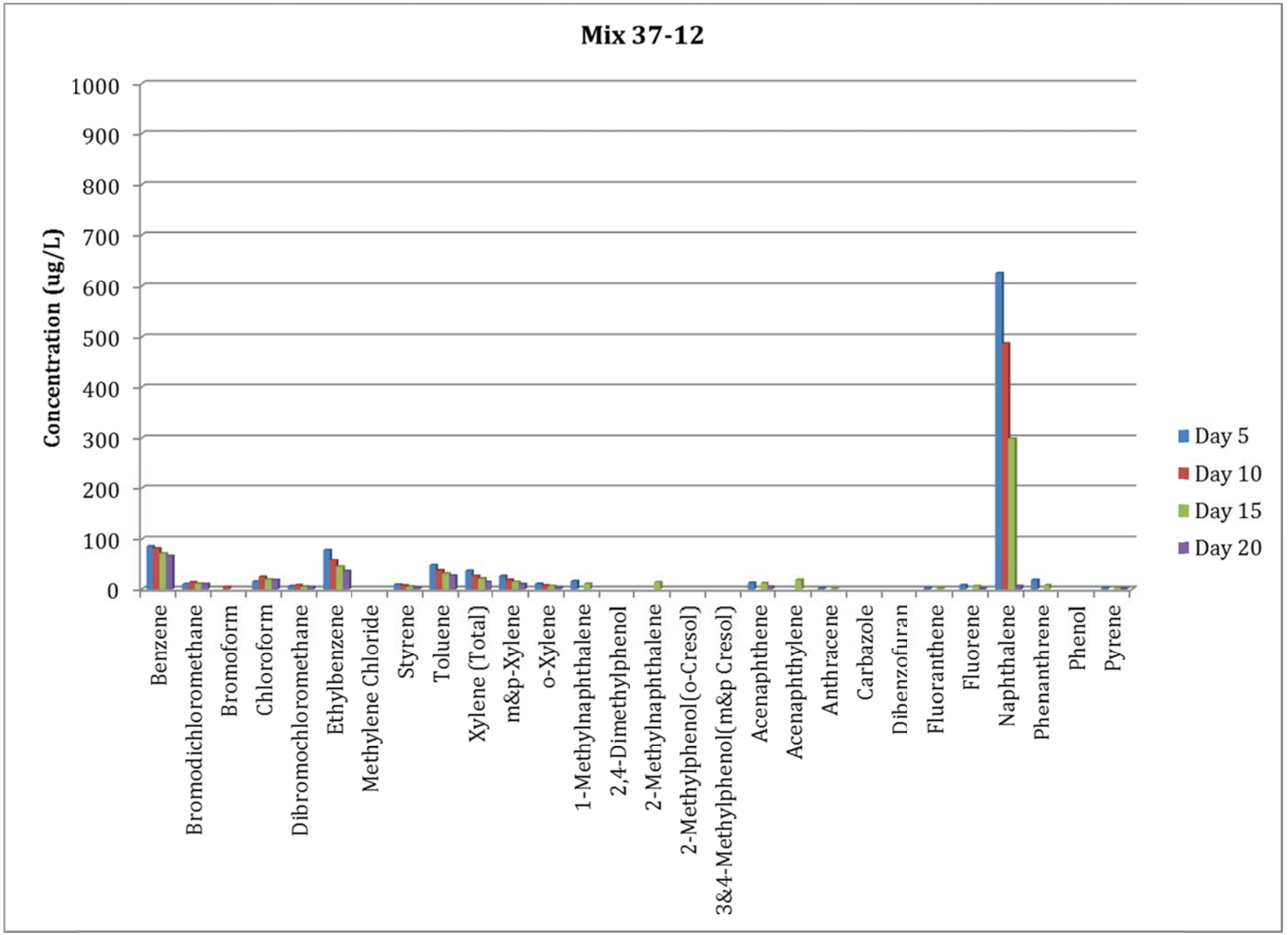

Mix 37-3
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
Benzene
Bromodichloromethane
Bromoform
Chloroform
Dibromochloromethane
Ethylbenzene
Methylene Chloride
Styrene
Toluene
Xylene (Total)
m&p-Xylene
o-Xylene
1-Methylnaphthalene
2,4-Dimethylphenol
2-Methylnaphthalene
2-Methylphenol(o-Cresol)
3&4-Methylphenol(m&p Cresol)
Acenaphthene
Acenaphthylene
Anthracene
Carbazole
Dibenzofuran
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Phenol
Pyrene
Day 5
Day 10
Day 15
Day 20


Mix 37-4
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
Benzene
Bromodichloromethane
Bromoform
Chloroform
Dibromochloromethane
Ethylbenzene
Methylene Chloride
Styrene
Toluene
Xylene (Total)
m&p-Xylene
o-Xylene
1-Methylnaphthalene
2,4-Dimethylphenol
2-Methylnaphthalene
2-Methylphenol(o-Cresol)
3&4-Methylphenol(m&p Cresol)
Acenaphthene
Acenaphthylene
Anthracene
Carbazole
Dibenzofuran
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Phenol
Pyrene
Day 5
Day 10
Day 15
Day 20


Mix 37-6
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
Benzene
Bromodichloromethane
Bromoform
Chloroform
Dibromochloromethane
Ethylbenzene
Methylene Chloride
Styrene
Toluene
Xylene (Total)
m&p-Xylene
o-Xylene
1-Methylnaphthalene
2,4-Dimethylphenol
2-Methylnaphthalene
2-Methylphenol(o-Cresol)
3&4-Methylphenol(m&p Cresol)
Acenaphthene
Acenaphthylene
Anthracene
Carbazole
Dibenzofuran
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Phenol
Pyrene
Day 5
Day 10
Day 15
Day 20


Mix 37-8
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
Benzene
Bromodichloromethane
Bromoform
Chloroform
Dibromochloromethane
Ethylbenzene
Methylene Chloride
Styrene
Toluene
Xylene (Total)
m&p-Xylene
o-Xylene
1-Methylnaphthalene
2,4-Dimethylphenol
2-Methylnaphthalene
2-Methylphenol(o-Cresol)
3&4-Methylphenol(m&p Cresol)
Acenaphthene
Acenaphthylene
Anthracene
Carbazole
Dibenzofuran
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Phenol
Pyrene
Day 5
Day 10
Day 15
Day 20


Mix 37-11
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
Benzene
Bromodichloromethane
Bromoform
Chloroform
Dibromochloromethane
Ethylbenzene
Methylene Chloride
Styrene
Toluene
Xylene (Total)
m&p-Xylene
o-Xylene
1-Methylnaphthalene
2,4-Dimethylphenol
2-Methylnaphthalene
2-Methylphenol(o-Cresol)
3&4-Methylphenol(m&p Cresol)
Acenaphthene
Acenaphthylene
Anthracene
Carbazole
Dibenzofuran
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Phenol
Pyrene
Day 5
Day 10
Day 15
Day 20


Mix 37-12
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
Benzene
Bromodichloromethane
Bromoform
Chloroform
Dibromochloromethane
Ethylbenzene
Methylene Chloride
Styrene
Toluene
Xylene (Total)
m&p-Xylene
o-Xylene
1-Methylnaphthalene
2,4-Dimethylphenol
2-Methylnaphthalene
2-Methylphenol(o-Cresol)
3&4-Methylphenol(m&p Cresol)
Acenaphthene
Acenaphthylene
Anthracene
Carbazole
Dibenzofuran
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Phenol
Pyrene
Day 5
Day 10
Day 15
Day 20

	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
LEACHATE TESTING	3083098001	3083325001	3083659001	3084162001	3083098002	3083325002	3083659002	3084162002	3083098003	3083325003	3083659003	3084162003	3083098004	3083325004	3083659004	3084162004	3083098005	3083325005	3083659005	3084162005	3083098006	3083325006	3083659006	3084162006
ANALYTICAL RESULTS	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method	Method
12-037 ALBANY, NY	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260
	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	Mix 37-3 INT 5	Mix 37-3 INT 10	Mix 37-3 INT 15	Mix 37-3 INT 20	Mix 37-4 INT 5	Mix 37-4 INT 10	Mix 37-4 INT 15	Mix 37-4 INT 20	Mix 37-6 INT 5	Mix 37-6 INT 10	Mix 37-6 INT 15	Mix 37-6 INT 20	Mix 37-8 INT 5	Mix 37-8 INT 10	Mix 37-8 INT 15	Mix 37-8 INT 20	Mix 37-11 INT 5	Mix 37-11 INT 10	Mix 37-11 INT 15	Mix 37-11 INT 20	Mix 37-12-INT 5	Mix 37-12 INT 10	Mix 37-12 INT 15	Mix 37-12 INT 20
Parameter	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	15.5	14.8	14.3	12.8	9.4	4.2	4.5	3.4	10.1	6.8	4.8	4.0	199	159	171	171	144	120	129	99.5	85.7	81.5	71.8	66.9
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	10.6	13.7	11.9	10.0	10.7	14.2	12.0	10.3	10.7	14.5	12.3	10.7	10.6	13.8	11.6	9.6	10.9	13.9	12.7	10.1	10.3	13.7	11.2	10.5
Bromoform	ND	ND	ND	ND	ND	4.5	ND	ND	ND	4.6	ND	ND	ND	ND	ND	ND	ND	4.6	ND	ND	ND	4.6	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	16.9	25.1	19.3	17.8	13.6	26.7	19.7	17.8	13.4	23.7	19.6	18.6	16.8	24.9	19.1	17.4	16.5	25.1	20.5	17.4	15.4	24.6	19.2	18.2
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	6.7	8.2	5.1	4.3	6.7	8.3	5.2	4.7	6.7	8.3	5.5	5.0	6.8	8.2	5.0	4.5	6.9	8.2	5.4	4.6	6.5	8.3	5.3	4.5
Ethylbenzene	28.2	27.1	25.8	25.8	19.9	8.5	6.9	4.9	22.3	13.4	8.8	5.9	130	99.0	97.5	93.0	114	88.5	84.3	56.5	78.4	58.0	45.1	35.9
Methyl-tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	3.9	4.1	3.9	3.6	2.7	1.2	ND	ND	2.9	1.7	ND	ND	17.9	13.6	13.1	11.5	14.2	11.0	9.1	5.5	9.1	7.5	5.2	3.2
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	17.6	17.3	16.4	17.1	10.7	5.1	4.1	3.2	12.2	10.4	5.4	4.6	91.8	73.3	75.7	77.2	74.6	67.7	57.4	42.5	47.6	37.4	31.0	26.8
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	28.2	26.8	26.2	24.6	21.0	11.4	6.7	4.1	22.0	15.5	8.4	4.9	62.3	46.6	43.6	39.8	50.9	38.1	35.0	21.5	36.7	26.4	21.2	14.5
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	16.7	15.7	15.2	15.0	12.9	7.0	4.0	2.7	13.7	10.1	5.2	3.3	43.6	32.7	30.2	28.0	36.0	27.0	24.7	15.3	26.1	18.9	14.9	10.5
o-Xylene	11.5	11.0	11.0	9.6	8.0	4.4	2.7	1.5	8.4	5.4	3.2	1.6	18.7	13.9	13.3	11.7	14.9	11.1	10.2	6.1	10.6	7.5	6.3	4.0
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	14.1	15.6	18.6	ND	20.0	8.5	ND	ND	16.2	9.1	2.1	ND	ND	26.6	ND	ND	17.9	ND	12.6	7.8	16.1	ND	10.8	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	8.3	5.7	ND	2.7	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	16.7	18.0	21.8	ND	25.6	10.1	ND	ND	19.8	11.7	2.1	ND	ND	38.0	ND	ND	19.5	ND	14.8	6.9	ND	13.9	ND	ND
2-Methylphenol(o-Cresol)	3.0	6.0	3.8	3.6	1.9	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)	3.2	6.5	4.2	4.0	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenylphenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenylphenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	7.2	8.2	10.8	14.3	11.9	6.7	4.3	ND	9.2	7.7	4.7	3.1	18.0	19.7	18.4	ND	ND	ND	15.2	14.6	12.9	ND	12.3	4.9
Acenaphthylene	1.8	4.4	5.1	6.4	6.4	3.3	ND	ND	4.6	3.6	1.5	ND	ND	37.4	ND	ND	ND	ND	ND	19.3	ND	ND	18.6	ND
Anthracene	1.5	1.5	2.0	2.6	2.7	1.5	ND	ND	2.2	1.7	ND	ND	2.9	2.8	3.2	3.0	2.1	ND	1.9	1.1	2.2	ND	1.8	ND
Azobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	5.2	6.1	7.6	9.7	8.4	4.1	2.5	ND	ND	4.0	ND	1.4	1.1	ND	1.1	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	2.8	2.9	4.1	4.1	5.2	2.5	ND	ND	3.5	2.8	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1.4	1.2	2.0	2.5	2.7	1.4	1.3	ND	2.5	1.2	1.5	ND	3.2	2.5	3.5	4.3	2.3	ND	2.5	1.8	2.6	ND	2.2	ND
Fluorene	4.2	4.3	6.0	7.0	7.2	3.9	2.1	ND	5.5	4.7	2.5	1.4	11.0	10.2	10.3	11.0	7.7	ND	7.0	4.8	8.0	ND	6.5	1.3
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	226	202	276	263	284	69.8	3.2	5.2	227	91.3	14.8	ND	964	711	637	755	754	616	354	249	626	487	299	6.2
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	9.2	9.5	12.4	9.6	17.0	5.4	ND	ND	13.1	5.8	ND	ND	ND	23.1	ND	18.5	16.9	ND	8.4	2.7	18.5	ND	8.0	ND
Phenol	ND	1.8	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1.5	1.7	2.1	2.8	2.6	2.2	2.6	1.9	2.4	2.2	2.2	2.4	3.8	4.6	4.8	4.9	ND	ND	4.4	2.2	3.4	ND	3.5	1.2
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

APPENDIX D

Untreated Homogenate Sample Analytical Laboratory Report

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 18, 2012

Mr. Bill Buccille
GeoCon
400 Penn Center Blvd.
Pittsburgh, PA 15235

RE: Project: North Albany NY 12-037
Pace Project No.: 3078879

Dear Mr. Buccille:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: North Albany NY 12-037
Pace Project No.: 3078879

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE ANALYTE COUNT

Project: North Albany NY 12-037
Pace Project No.: 3078879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3078879001	**SOIL 1 G+.03/G+.04**	EPA 8270	SPL	70	PASI-PA
		EPA 8260	JEW	45	PASI-PA
		ASTM D2974-87	DSC	1	PASI-PA
3078879002	**SOIL 2 G+.06/G+.07**	EPA 8270	SPL	70	PASI-PA
		EPA 8260	JEW	45	PASI-PA
		ASTM D2974-87	DSC	1	PASI-PA

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PROJECT NARRATIVE

Project: North Albany NY 12-037
Pace Project No.: 3078879

Method: **EPA 8270**
Description: 8270 MSSV FULL LIST MICROWAVE
Client: GeoCon
Date: October 18, 2012

General Information:
2 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/13004

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

- SOIL 1 G+.03/G+.04 (Lab ID: 3078879001)
  - Nitrobenzene-d5 (S)
- SOIL 2 G+.06/G+.07 (Lab ID: 3078879002)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/13004

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3078775001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 496786)
  - Naphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 496787)

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PROJECT NARRATIVE

Project: North Albany NY 12-037
Pace Project No.: 3078879

Method: **EPA 8270**
Description: 8270 MSSV FULL LIST MICROWAVE
Client: GeoCon
Date: October 18, 2012

QC Batch: OEXT/13004

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3078775001

R1: RPD value was outside control limits.

- Pyrene

Additional Comments:

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PROJECT NARRATIVE

Project: North Albany NY 12-037
Pace Project No.: 3078879

Method: **EPA 8260**
Description: 8260 MSV 5030 Low Level
Client: GeoCon
Date: October 18, 2012

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/14263

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: North Albany NY 12-037
Pace Project No.: 3078879

Sample: SOIL 1 G+.03/G+.04 **Lab ID: 3078879001** Collected: 10/02/12 12:00 Received: 10/04/12 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	**203000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	83-32-9	
Acenaphthylene	**97900**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	208-96-8	
Anthracene	**198000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	120-12-7	
Benzo(a)anthracene	**184000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	56-55-3	
Benzo(a)pyrene	**193000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	50-32-8	
Benzo(b)fluoranthene	**188000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	205-99-2	
Benzo(g,h,i)perylene	**108000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	191-24-2	
Benzo(k)fluoranthene	**89700**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	207-08-9	
Benzyl alcohol	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	101-55-3	
Butylbenzylphthalate	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	59-50-7	
4-Chloroaniline	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	108-60-1	
2-Chloronaphthalene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	91-58-7	
2-Chlorophenol	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	7005-72-3	
Chrysene	**178000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	218-01-9	
Dibenz(a,h)anthracene	**15300**	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	53-70-3	
Dibenzofuran	**124000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	120-83-2	
Diethylphthalate	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	105-67-9	
Dimethylphthalate	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	131-11-3	
Di-n-butylphthalate	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	2920	1	10/08/12 15:45	10/09/12 20:45	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2920	1	10/08/12 15:45	10/09/12 20:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	606-20-2	
Di-n-octylphthalate	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	117-81-7	
Fluoranthene	**604000**	ug/kg	117000	100	10/08/12 15:45	10/10/12 13:15	206-44-0	
Fluorene	**182000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	87-68-3	
Hexachlorobenzene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	77-47-4	
Hexachloroethane	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	67-72-1	
Indeno(1,2,3-cd)pyrene	**90000**	ug/kg	11700	10	10/08/12 15:45	10/10/12 13:36	193-39-5	
Isophorone	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	78-59-1	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: North Albany NY 12-037
Pace Project No.: 3078879

Sample: SOIL 1 G+.03/G+.04 **Lab ID: 3078879001** Collected: 10/02/12 12:00 Received: 10/04/12 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2-Methylnaphthalene	**339000**	ug/kg	117000	100	10/08/12 15:45	10/10/12 13:15	91-57-6	
2-Methylphenol(o-Cresol)	**3720**	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	**5250**	ug/kg	2340	1	10/08/12 15:45	10/09/12 20:45		
Naphthalene	**1690000**	ug/kg	117000	100	10/08/12 15:45	10/10/12 13:15	91-20-3	
2-Nitroaniline	ND	ug/kg	2920	1	10/08/12 15:45	10/09/12 20:45	88-74-4	
3-Nitroaniline	ND	ug/kg	2920	1	10/08/12 15:45	10/09/12 20:45	99-09-2	
4-Nitroaniline	ND	ug/kg	2920	1	10/08/12 15:45	10/09/12 20:45	100-01-6	
Nitrobenzene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	98-95-3	
2-Nitrophenol	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	88-75-5	
4-Nitrophenol	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	86-30-6	
Pentachlorophenol	ND	ug/kg	2920	1	10/08/12 15:45	10/09/12 20:45	87-86-5	
Phenanthrene	**1100000**	ug/kg	117000	100	10/08/12 15:45	10/10/12 13:15	85-01-8	
Phenol	**2870**	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	108-95-2	
Pyrene	**706000**	ug/kg	117000	100	10/08/12 15:45	10/10/12 13:15	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	2920	1	10/08/12 15:45	10/09/12 20:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	1170	1	10/08/12 15:45	10/09/12 20:45	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	151	%	49-118	1	10/08/12 15:45	10/09/12 20:45	4165-60-0	S5
2-Fluorobiphenyl (S)	68	%	48-125	1	10/08/12 15:45	10/09/12 20:45	321-60-8	
Terphenyl-d14 (S)	147	%	29-159	1	10/08/12 15:45	10/09/12 20:45	1718-51-0	
Phenol-d6 (S)	72	%	30-130	1	10/08/12 15:45	10/09/12 20:45	13127-88-3	
2-Fluorophenol (S)	67	%	25-138	1	10/08/12 15:45	10/09/12 20:45	367-12-4	
2,4,6-Tribromophenol (S)	106	%	10-144	1	10/08/12 15:45	10/09/12 20:45	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	624	50		10/11/12 18:30	67-64-1	
Benzene	**5640**	ug/kg	312	50		10/11/12 18:30	71-43-2	
Bromodichloromethane	ND	ug/kg	312	50		10/11/12 18:30	75-27-4	
Bromoform	ND	ug/kg	312	50		10/11/12 18:30	75-25-2	
Bromomethane	ND	ug/kg	312	50		10/11/12 18:30	74-83-9	
TOTAL BTEX	**56800**	ug/kg	1870	50		10/11/12 18:30		
2-Butanone (MEK)	ND	ug/kg	624	50		10/11/12 18:30	78-93-3	
Carbon disulfide	ND	ug/kg	312	50		10/11/12 18:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	312	50		10/11/12 18:30	56-23-5	
Chlorobenzene	ND	ug/kg	312	50		10/11/12 18:30	108-90-7	
Chloroethane	ND	ug/kg	312	50		10/11/12 18:30	75-00-3	
Chloroform	ND	ug/kg	312	50		10/11/12 18:30	67-66-3	
Chloromethane	ND	ug/kg	312	50		10/11/12 18:30	74-87-3	
Dibromochloromethane	ND	ug/kg	312	50		10/11/12 18:30	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	312	50		10/11/12 18:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	312	50		10/11/12 18:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	312	50		10/11/12 18:30	106-46-7	

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ANALYTICAL RESULTS

Project: North Albany NY 12-037
Pace Project No.: 3078879

Sample: SOIL 1 G+.03/G+.04 **Lab ID: 3078879001** Collected: 10/02/12 12:00 Received: 10/04/12 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,1-Dichloroethane	ND	ug/kg	312	50		10/11/12 18:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	312	50		10/11/12 18:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	624	50		10/11/12 18:30	540-59-0	
1,1-Dichloroethene	ND	ug/kg	312	50		10/11/12 18:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	312	50		10/11/12 18:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	312	50		10/11/12 18:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	312	50		10/11/12 18:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	312	50		10/11/12 18:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	312	50		10/11/12 18:30	10061-02-6	
Ethylbenzene	**68400**	ug/kg	3120	500		10/16/12 14:27	100-41-4	
2-Hexanone	ND	ug/kg	624	50		10/11/12 18:30	591-78-6	
Methylene Chloride	ND	ug/kg	312	50		10/11/12 18:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	624	50		10/11/12 18:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	312	50		10/11/12 18:30	1634-04-4	
Styrene	**5800**	ug/kg	312	50		10/11/12 18:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	312	50		10/11/12 18:30	79-34-5	
Tetrachloroethene	ND	ug/kg	312	50		10/11/12 18:30	127-18-4	
Toluene	**12700**	ug/kg	312	50		10/11/12 18:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	312	50		10/11/12 18:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	312	50		10/11/12 18:30	79-00-5	
Trichloroethene	ND	ug/kg	312	50		10/11/12 18:30	79-01-6	
Vinyl chloride	ND	ug/kg	312	50		10/11/12 18:30	75-01-4	
Xylene (Total)	**38500**	ug/kg	936	50		10/11/12 18:30	1330-20-7	
m&p-Xylene	**24300**	ug/kg	624	50		10/11/12 18:30	179601-23-1	
o-Xylene	**14200**	ug/kg	312	50		10/11/12 18:30	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	50		10/11/12 18:30	2037-26-5	
4-Bromofluorobenzene (S)	118	%	70-130	50		10/11/12 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	50		10/11/12 18:30	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.0**	%	0.10	1		10/15/12 14:19		

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ANALYTICAL RESULTS

Project: North Albany NY 12-037
Pace Project No.: 3078879

Sample: SOIL 2 G+.06/G+.07 **Lab ID: 3078879002** Collected: 10/02/12 12:00 Received: 10/04/12 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	**752000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	83-32-9	
Acenaphthylene	**851000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	208-96-8	
Anthracene	**508000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	120-12-7	
Benzo(a)anthracene	**492000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	56-55-3	
Benzo(a)pyrene	**630000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	50-32-8	
Benzo(b)fluoranthene	**528000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	205-99-2	
Benzo(g,h,i)perylene	**370000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	191-24-2	
Benzo(k)fluoranthene	**177000**	ug/kg	12000	10	10/08/12 15:45	10/10/12 14:39	207-08-9	
Benzyl alcohol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	101-55-3	
Butylbenzylphthalate	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	59-50-7	
4-Chloroaniline	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	108-60-1	
2-Chloronaphthalene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	91-58-7	
2-Chlorophenol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	7005-72-3	
Chrysene	**517000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	218-01-9	
Dibenz(a,h)anthracene	**49000**	ug/kg	12000	10	10/08/12 15:45	10/10/12 14:39	53-70-3	
Dibenzofuran	**26300**	ug/kg	12000	10	10/08/12 15:45	10/10/12 14:39	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	120-83-2	
Diethylphthalate	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	105-67-9	
Dimethylphthalate	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	131-11-3	
Di-n-butylphthalate	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	3010	1	10/08/12 15:45	10/09/12 21:06	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	3010	1	10/08/12 15:45	10/09/12 21:06	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	606-20-2	
Di-n-octylphthalate	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	117-81-7	
Fluoranthene	**1580000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	206-44-0	
Fluorene	**624000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	87-68-3	
Hexachlorobenzene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	77-47-4	
Hexachloroethane	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	67-72-1	
Indeno(1,2,3-cd)pyrene	**225000**	ug/kg	12000	10	10/08/12 15:45	10/10/12 14:39	193-39-5	
Isophorone	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	78-59-1	

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ANALYTICAL RESULTS

Project: North Albany NY 12-037
Pace Project No.: 3078879

Sample: SOIL 2 G+.06/G+.07 **Lab ID: 3078879002** Collected: 10/02/12 12:00 Received: 10/04/12 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2-Methylnaphthalene	**808000**	ug/kg	120000	100	10/08/12 15:45	10/10/12 14:17	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	2410	1	10/08/12 15:45	10/09/12 21:06		
Naphthalene	**6740000**	ug/kg	1200000	1000	10/08/12 15:45	10/10/12 13:57	91-20-3	
2-Nitroaniline	ND	ug/kg	3010	1	10/08/12 15:45	10/09/12 21:06	88-74-4	
3-Nitroaniline	ND	ug/kg	3010	1	10/08/12 15:45	10/09/12 21:06	99-09-2	
4-Nitroaniline	ND	ug/kg	3010	1	10/08/12 15:45	10/09/12 21:06	100-01-6	
Nitrobenzene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	98-95-3	
2-Nitrophenol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	88-75-5	
4-Nitrophenol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	86-30-6	
Pentachlorophenol	ND	ug/kg	3010	1	10/08/12 15:45	10/09/12 21:06	87-86-5	
Phenanthrene	**3560000**	ug/kg	1200000	1000	10/08/12 15:45	10/10/12 13:57	85-01-8	
Phenol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	108-95-2	
Pyrene	**2340000**	ug/kg	1200000	1000	10/08/12 15:45	10/10/12 13:57	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	3010	1	10/08/12 15:45	10/09/12 21:06	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	1200	1	10/08/12 15:45	10/09/12 21:06	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	97	%	49-118	1	10/08/12 15:45	10/09/12 21:06	4165-60-0	
2-Fluorobiphenyl (S)	90	%	48-125	1	10/08/12 15:45	10/09/12 21:06	321-60-8	
Terphenyl-d14 (S)	175	%	29-159	1	10/08/12 15:45	10/09/12 21:06	1718-51-0	S5
Phenol-d6 (S)	80	%	30-130	1	10/08/12 15:45	10/09/12 21:06	13127-88-3	
2-Fluorophenol (S)	76	%	25-138	1	10/08/12 15:45	10/09/12 21:06	367-12-4	
2,4,6-Tribromophenol (S)	137	%	10-144	1	10/08/12 15:45	10/09/12 21:06	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	871	50		10/11/12 18:08	67-64-1	
Benzene	**5370**	ug/kg	435	50		10/11/12 18:08	71-43-2	
Bromodichloromethane	ND	ug/kg	435	50		10/11/12 18:08	75-27-4	
Bromoform	ND	ug/kg	435	50		10/11/12 18:08	75-25-2	
Bromomethane	ND	ug/kg	435	50		10/11/12 18:08	74-83-9	
TOTAL BTEX	**85800**	ug/kg	2610	50		10/11/12 18:08		
2-Butanone (MEK)	ND	ug/kg	871	50		10/11/12 18:08	78-93-3	
Carbon disulfide	ND	ug/kg	435	50		10/11/12 18:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	435	50		10/11/12 18:08	56-23-5	
Chlorobenzene	ND	ug/kg	435	50		10/11/12 18:08	108-90-7	
Chloroethane	ND	ug/kg	435	50		10/11/12 18:08	75-00-3	
Chloroform	ND	ug/kg	435	50		10/11/12 18:08	67-66-3	
Chloromethane	ND	ug/kg	435	50		10/11/12 18:08	74-87-3	
Dibromochloromethane	ND	ug/kg	435	50		10/11/12 18:08	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	435	50		10/11/12 18:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	435	50		10/11/12 18:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	435	50		10/11/12 18:08	106-46-7	

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ANALYTICAL RESULTS

Project: North Albany NY 12-037
Pace Project No.: 3078879

Sample: SOIL 2 G+.06/G+.07 **Lab ID: 3078879002** Collected: 10/02/12 12:00 Received: 10/04/12 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,1-Dichloroethane	ND	ug/kg	435	50		10/11/12 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	435	50		10/11/12 18:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	871	50		10/11/12 18:08	540-59-0	
1,1-Dichloroethene	ND	ug/kg	435	50		10/11/12 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	435	50		10/11/12 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	435	50		10/11/12 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	435	50		10/11/12 18:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	435	50		10/11/12 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	435	50		10/11/12 18:08	10061-02-6	
Ethylbenzene	**28400**	ug/kg	435	50		10/11/12 18:08	100-41-4	
2-Hexanone	ND	ug/kg	871	50		10/11/12 18:08	591-78-6	
Methylene Chloride	ND	ug/kg	435	50		10/11/12 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	871	50		10/11/12 18:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	435	50		10/11/12 18:08	1634-04-4	
Styrene	**3030**	ug/kg	435	50		10/11/12 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	435	50		10/11/12 18:08	79-34-5	
Tetrachloroethene	ND	ug/kg	435	50		10/11/12 18:08	127-18-4	
Toluene	**8950**	ug/kg	435	50		10/11/12 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	435	50		10/11/12 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	435	50		10/11/12 18:08	79-00-5	
Trichloroethene	ND	ug/kg	435	50		10/11/12 18:08	79-01-6	
Vinyl chloride	ND	ug/kg	435	50		10/11/12 18:08	75-01-4	
Xylene (Total)	**43200**	ug/kg	1310	50		10/11/12 18:08	1330-20-7	
m&p-Xylene	**31300**	ug/kg	871	50		10/11/12 18:08	179601-23-1	
o-Xylene	**11900**	ug/kg	435	50		10/11/12 18:08	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	70-130	50		10/11/12 18:08	2037-26-5	
4-Bromofluorobenzene (S)	116	%	70-130	50		10/11/12 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	50		10/11/12 18:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.4**	%	0.10	1		10/15/12 14:19		

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

QC Batch: MSV/14263 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Low
Associated Lab Samples: 3078879001, 3078879002

METHOD BLANK: 499072 Matrix: Solid
Associated Lab Samples: 3078879001, 3078879002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/11/12 11:25	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/11/12 11:25	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/11/12 11:25	
1,1-Dichloroethane	ug/kg	ND	5.0	10/11/12 11:25	
1,1-Dichloroethene	ug/kg	ND	5.0	10/11/12 11:25	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/11/12 11:25	
1,2-Dichloroethane	ug/kg	ND	5.0	10/11/12 11:25	
1,2-Dichloropropane	ug/kg	ND	5.0	10/11/12 11:25	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/11/12 11:25	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/11/12 11:25	
2-Butanone (MEK)	ug/kg	ND	10.0	10/11/12 11:25	
2-Hexanone	ug/kg	ND	10.0	10/11/12 11:25	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/11/12 11:25	
Acetone	ug/kg	18.2	10.0	10/11/12 11:25	
Benzene	ug/kg	ND	5.0	10/11/12 11:25	
Bromodichloromethane	ug/kg	ND	5.0	10/11/12 11:25	
Bromoform	ug/kg	ND	5.0	10/11/12 11:25	
Bromomethane	ug/kg	ND	5.0	10/11/12 11:25	
Carbon disulfide	ug/kg	ND	5.0	10/11/12 11:25	
Carbon tetrachloride	ug/kg	ND	5.0	10/11/12 11:25	
Chlorobenzene	ug/kg	ND	5.0	10/11/12 11:25	
Chloroethane	ug/kg	ND	5.0	10/11/12 11:25	
Chloroform	ug/kg	ND	5.0	10/11/12 11:25	
Chloromethane	ug/kg	ND	5.0	10/11/12 11:25	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/11/12 11:25	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/11/12 11:25	
Dibromochloromethane	ug/kg	ND	5.0	10/11/12 11:25	
Ethylbenzene	ug/kg	ND	5.0	10/11/12 11:25	
m&p-Xylene	ug/kg	ND	10.0	10/11/12 11:25	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/11/12 11:25	
Methylene Chloride	ug/kg	ND	5.0	10/11/12 11:25	
o-Xylene	ug/kg	ND	5.0	10/11/12 11:25	
Styrene	ug/kg	ND	5.0	10/11/12 11:25	
Tetrachloroethene	ug/kg	ND	5.0	10/11/12 11:25	
Toluene	ug/kg	ND	5.0	10/11/12 11:25	
TOTAL BTEX	ug/kg	ND	30.0	10/11/12 11:25	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/11/12 11:25	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/11/12 11:25	
Trichloroethene	ug/kg	ND	5.0	10/11/12 11:25	
Vinyl chloride	ug/kg	ND	5.0	10/11/12 11:25	
Xylene (Total)	ug/kg	ND	15.0	10/11/12 11:25	
1,2-Dichloroethane-d4 (S)	%	112	70-130	10/11/12 11:25	
4-Bromofluorobenzene (S)	%	97	70-130	10/11/12 11:25	

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

METHOD BLANK: 499072 Matrix: Solid

Associated Lab Samples: 3078879001, 3078879002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%	95	70-130	10/11/12 11:25	

LABORATORY CONTROL SAMPLE: 499073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	20.7	104	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	17.0	85	58-124	
1,1,2-Trichloroethane	ug/kg	20	18.2	91	70-118	
1,1-Dichloroethane	ug/kg	20	18.2	91	64-127	
1,1-Dichloroethene	ug/kg	20	21.1	105	50-133	
1,2-Dichlorobenzene	ug/kg	20	19.8	99	67-122	
1,2-Dichloroethane	ug/kg	20	17.5	88	54-132	
1,2-Dichloropropane	ug/kg	20	17.0	85	68-112	
1,3-Dichlorobenzene	ug/kg	20	19.8	99	65-127	
1,4-Dichlorobenzene	ug/kg	20	19.2	96	66-127	
2-Butanone (MEK)	ug/kg	20	14.4	72	54-135	
2-Hexanone	ug/kg	20	15.6	78	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	13.9	70	55-142	
Acetone	ug/kg	20	24.7	124	39-200	
Benzene	ug/kg	20	19.0	95	65-130	
Bromodichloromethane	ug/kg	20	18.0	90	57-125	
Bromoform	ug/kg	20	20.4	102	53-121	
Bromomethane	ug/kg	20	17.1	86	30-167	
Carbon disulfide	ug/kg	20	20.6	103	49-150	
Carbon tetrachloride	ug/kg	20	22.4	112	47-146	
Chlorobenzene	ug/kg	20	17.7	89	67-124	
Chloroethane	ug/kg	20	20.3	102	34-170	
Chloroform	ug/kg	20	18.0	90	63-128	
Chloromethane	ug/kg	20	11.2	56	39-159	
cis-1,2-Dichloroethene	ug/kg	20	15.1	76	64-126	
cis-1,3-Dichloropropene	ug/kg	20	17.9	89	66-124	
Dibromochloromethane	ug/kg	20	18.7	94	56-122	
Ethylbenzene	ug/kg	20	18.6	93	65-131	
m&p-Xylene	ug/kg	40	40.4	101	63-136	
Methyl-tert-butyl ether	ug/kg	20	16.3	82	71-130	
Methylene Chloride	ug/kg	20	12.3	62	45-136	
o-Xylene	ug/kg	20	19.4	97	68-129	
Styrene	ug/kg	20	23.0	115	64-122	
Tetrachloroethene	ug/kg	20	21.0	105	61-138	
Toluene	ug/kg	20	17.8	89	63-132	
TOTAL BTEX	ug/kg		115			
trans-1,2-Dichloroethene	ug/kg	20	16.6	83	60-130	
trans-1,3-Dichloropropene	ug/kg	20	19.1	96	58-116	
Trichloroethene	ug/kg	20	17.3	87	65-131	
Vinyl chloride	ug/kg	20	18.6	93	49-149	

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

LABORATORY CONTROL SAMPLE: 499073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/kg	60	59.9	100	65-134	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

QC Batch: OEXT/13004 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 3078879001, 3078879002

METHOD BLANK: 496784 Matrix: Solid
Associated Lab Samples: 3078879001, 3078879002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	333	10/09/12 11:40	
1,2-Dichlorobenzene	ug/kg	ND	333	10/09/12 11:40	
1,3-Dichlorobenzene	ug/kg	ND	333	10/09/12 11:40	
1,4-Dichlorobenzene	ug/kg	ND	333	10/09/12 11:40	
2,4,5-Trichlorophenol	ug/kg	ND	833	10/09/12 11:40	
2,4,6-Trichlorophenol	ug/kg	ND	333	10/09/12 11:40	
2,4-Dichlorophenol	ug/kg	ND	333	10/09/12 11:40	
2,4-Dimethylphenol	ug/kg	ND	333	10/09/12 11:40	
2,4-Dinitrophenol	ug/kg	ND	833	10/09/12 11:40	
2,4-Dinitrotoluene	ug/kg	ND	333	10/09/12 11:40	
2,6-Dinitrotoluene	ug/kg	ND	333	10/09/12 11:40	
2-Chloronaphthalene	ug/kg	ND	333	10/09/12 11:40	
2-Chlorophenol	ug/kg	ND	333	10/09/12 11:40	
2-Methylnaphthalene	ug/kg	ND	333	10/09/12 11:40	
2-Methylphenol(o-Cresol)	ug/kg	ND	333	10/09/12 11:40	
2-Nitroaniline	ug/kg	ND	833	10/09/12 11:40	
2-Nitrophenol	ug/kg	ND	333	10/09/12 11:40	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	666	10/09/12 11:40	
3,3'-Dichlorobenzidine	ug/kg	ND	333	10/09/12 11:40	
3-Nitroaniline	ug/kg	ND	833	10/09/12 11:40	
4,6-Dinitro-2-methylphenol	ug/kg	ND	833	10/09/12 11:40	
4-Bromophenylphenyl ether	ug/kg	ND	333	10/09/12 11:40	
4-Chloro-3-methylphenol	ug/kg	ND	333	10/09/12 11:40	
4-Chloroaniline	ug/kg	ND	333	10/09/12 11:40	
4-Chlorophenylphenyl ether	ug/kg	ND	333	10/09/12 11:40	
4-Nitroaniline	ug/kg	ND	833	10/09/12 11:40	
4-Nitrophenol	ug/kg	ND	333	10/09/12 11:40	
Acenaphthene	ug/kg	ND	333	10/09/12 11:40	
Acenaphthylene	ug/kg	ND	333	10/09/12 11:40	
Anthracene	ug/kg	ND	333	10/09/12 11:40	
Benzo(a)anthracene	ug/kg	ND	333	10/09/12 11:40	
Benzo(a)pyrene	ug/kg	ND	333	10/09/12 11:40	
Benzo(b)fluoranthene	ug/kg	ND	333	10/09/12 11:40	
Benzo(g,h,i)perylene	ug/kg	ND	333	10/09/12 11:40	
Benzo(k)fluoranthene	ug/kg	ND	333	10/09/12 11:40	
Benzyl alcohol	ug/kg	ND	333	10/09/12 11:40	
bis(2-Chloroethoxy)methane	ug/kg	ND	333	10/09/12 11:40	
bis(2-Chloroethyl) ether	ug/kg	ND	333	10/09/12 11:40	
bis(2-Chloroisopropyl) ether	ug/kg	ND	333	10/09/12 11:40	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	333	10/09/12 11:40	
Butylbenzylphthalate	ug/kg	ND	333	10/09/12 11:40	
Chrysene	ug/kg	ND	333	10/09/12 11:40	
Di-n-butylphthalate	ug/kg	ND	333	10/09/12 11:40	

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

METHOD BLANK: 496784 Matrix: Solid

Associated Lab Samples: 3078879001, 3078879002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-octylphthalate	ug/kg	ND	333	10/09/12 11:40	
Dibenz(a,h)anthracene	ug/kg	ND	333	10/09/12 11:40	
Dibenzofuran	ug/kg	ND	333	10/09/12 11:40	
Diethylphthalate	ug/kg	ND	333	10/09/12 11:40	
Dimethylphthalate	ug/kg	ND	333	10/09/12 11:40	
Fluoranthene	ug/kg	ND	333	10/09/12 11:40	
Fluorene	ug/kg	ND	333	10/09/12 11:40	
Hexachloro-1,3-butadiene	ug/kg	ND	333	10/09/12 11:40	
Hexachlorobenzene	ug/kg	ND	333	10/09/12 11:40	
Hexachlorocyclopentadiene	ug/kg	ND	333	10/09/12 11:40	
Hexachloroethane	ug/kg	ND	333	10/09/12 11:40	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	333	10/09/12 11:40	
Isophorone	ug/kg	ND	333	10/09/12 11:40	
N-Nitroso-di-n-propylamine	ug/kg	ND	333	10/09/12 11:40	
N-Nitrosodiphenylamine	ug/kg	ND	333	10/09/12 11:40	
Naphthalene	ug/kg	ND	333	10/09/12 11:40	
Nitrobenzene	ug/kg	ND	333	10/09/12 11:40	
Pentachlorophenol	ug/kg	ND	833	10/09/12 11:40	
Phenanthrene	ug/kg	ND	333	10/09/12 11:40	
Phenol	ug/kg	ND	333	10/09/12 11:40	
Pyrene	ug/kg	ND	333	10/09/12 11:40	
2,4,6-Tribromophenol (S)	%	92	10-144	10/09/12 11:40	
2-Fluorobiphenyl (S)	%	91	48-125	10/09/12 11:40	
2-Fluorophenol (S)	%	78	25-138	10/09/12 11:40	
Nitrobenzene-d5 (S)	%	77	49-118	10/09/12 11:40	
Phenol-d6 (S)	%	78	30-130	10/09/12 11:40	
Terphenyl-d14 (S)	%	116	29-159	10/09/12 11:40	

LABORATORY CONTROL SAMPLE: 496785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3330	2970	89	50-115	
1,2-Dichlorobenzene	ug/kg	3330	2720	82	10-200	
1,3-Dichlorobenzene	ug/kg	3330	2640	79	10-200	
1,4-Dichlorobenzene	ug/kg	3330	2620	79	47-105	
2,4,5-Trichlorophenol	ug/kg	3330	3170	95	10-200	
2,4,6-Trichlorophenol	ug/kg	3330	3360	101	10-200	
2,4-Dichlorophenol	ug/kg	3330	3260	98	10-200	
2,4-Dimethylphenol	ug/kg	3330	3020	91	10-200	
2,4-Dinitrophenol	ug/kg	3330	2800	84	10-200	
2,4-Dinitrotoluene	ug/kg	3330	3120	94	45-115	
2,6-Dinitrotoluene	ug/kg	3330	3070	92	10-200	
2-Chloronaphthalene	ug/kg	3330	2960	89	10-200	
2-Chlorophenol	ug/kg	3330	2570	77	51-113	
2-Methylnaphthalene	ug/kg	3330	2830	85	46-112	

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

LABORATORY CONTROL SAMPLE: 496785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylphenol(o-Cresol)	ug/kg	3330	2530	76	10-200	
2-Nitroaniline	ug/kg	3330	2930	88	10-200	
2-Nitrophenol	ug/kg	3330	2950	88	10-200	
3&4-Methylphenol(m&p Cresol)	ug/kg	3330	2480	74	10-200	
3,3'-Dichlorobenzidine	ug/kg		ND			
3-Nitroaniline	ug/kg	3330	2940	88	10-200	
4,6-Dinitro-2-methylphenol	ug/kg	3330	3130	94	10-200	
4-Bromophenylphenyl ether	ug/kg	3330	3210	96	10-200	
4-Chloro-3-methylphenol	ug/kg	3330	2970	89	47-129	
4-Chloroaniline	ug/kg	3330	4400	132	10-200	
4-Chlorophenylphenyl ether	ug/kg	3330	3160	95	10-200	
4-Nitroaniline	ug/kg	3330	3410	102	10-200	
4-Nitrophenol	ug/kg	3330	2010	60	26-117	
Acenaphthene	ug/kg	3330	3120	94	52-114	
Acenaphthylene	ug/kg	3330	3120	93	55-120	
Anthracene	ug/kg	3330	2840	85	57-121	
Benzo(a)anthracene	ug/kg	3330	3080	92	55-126	
Benzo(a)pyrene	ug/kg	3330	2870	86	57-124	
Benzo(b)fluoranthene	ug/kg	3330	2990	90	53-128	
Benzo(g,h,i)perylene	ug/kg	3330	3340	100	25-159	
Benzo(k)fluoranthene	ug/kg	3330	3150	94	52-139	
Benzyl alcohol	ug/kg	3330	2130	64	10-200	
bis(2-Chloroethoxy)methane	ug/kg	3330	2870	86	10-200	
bis(2-Chloroethyl) ether	ug/kg	3330	2420	73	10-200	
bis(2-Chloroisopropyl) ether	ug/kg	3330	2230	67	10-200	
bis(2-Ethylhexyl)phthalate	ug/kg	3330	2690	81	10-200	
Butylbenzylphthalate	ug/kg	3330	2730	82	10-200	
Chrysene	ug/kg	3330	3350	100	42-150	
Di-n-butylphthalate	ug/kg	3330	2640	79	10-200	
Di-n-octylphthalate	ug/kg	3330	2610	78	10-200	
Dibenz(a,h)anthracene	ug/kg	3330	2280	69	32-155	
Dibenzofuran	ug/kg	3330	3160	95	10-200	
Diethylphthalate	ug/kg	3330	2840	85	10-200	
Dimethylphthalate	ug/kg	3330	3060	92	10-200	
Fluoranthene	ug/kg	3330	3040	91	51-125	
Fluorene	ug/kg	3330	3050	92	52-117	
Hexachloro-1,3-butadiene	ug/kg	3330	3490	105	10-200	
Hexachlorobenzene	ug/kg	3330	3390	102	10-200	
Hexachlorocyclopentadiene	ug/kg	3330	2580	77	10-200	
Hexachloroethane	ug/kg	3330	2290	69	10-200	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	3070	92	32-150	
Isophorone	ug/kg	3330	2600	78	10-200	
N-Nitroso-di-n-propylamine	ug/kg	3330	2220	67	52-126	
N-Nitrosodiphenylamine	ug/kg	3330	3040	91	10-200	
Naphthalene	ug/kg	3330	3300	99	51-109	
Nitrobenzene	ug/kg	3330	2640	79	10-200	
Pentachlorophenol	ug/kg	3330	3240	97	20-122	
Phenanthrene	ug/kg	3330	3040	91	54-119	

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

LABORATORY CONTROL SAMPLE: 496785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenol	ug/kg	3330	2400	72	43-112	
Pyrene	ug/kg	3330	3170	95	38-144	
2,4,6-Tribromophenol (S)	%			92	10-144	
2-Fluorobiphenyl (S)	%			84	48-125	
2-Fluorophenol (S)	%			63	25-138	
Nitrobenzene-d5 (S)	%			71	49-118	
Phenol-d6 (S)	%			64	30-130	
Terphenyl-d14 (S)	%			96	29-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 496786 496787

Parameter	Units	3078775001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trichlorobenzene	ug/kg	ND	3940	3970	4410	3920	112	99	50-115	12	
1,2-Dichlorobenzene	ug/kg	ND	3940	3970	4020	3660	102	92	10-200	9	
1,3-Dichlorobenzene	ug/kg	ND	3940	3970	3990	3630	101	91	10-200	9	
1,4-Dichlorobenzene	ug/kg	ND	3940	3970	4000	3570	101	90	47-105	11	
2,4,5-Trichlorophenol	ug/kg	ND	3940	3970	4290	3940	109	99	10-200	8	
2,4,6-Trichlorophenol	ug/kg	ND	3940	3970	4590	4220	116	106	10-200	8	
2,4-Dichlorophenol	ug/kg	ND	3940	3970	4550	4100	115	103	10-200	10	
2,4-Dimethylphenol	ug/kg	ND	3940	3970	3850	3450	98	87	10-200	11	
2,4-Dinitrophenol	ug/kg	ND	3940	3970	1660	1720	42	43	10-200	4	
2,4-Dinitrotoluene	ug/kg	ND	3940	3970	4160	4020	105	101	45-115	3	
2,6-Dinitrotoluene	ug/kg	ND	3940	3970	4290	4000	109	101	10-200	7	
2-Chloronaphthalene	ug/kg	ND	3940	3970	4110	3700	104	93	10-200	10	
2-Chlorophenol	ug/kg	ND	3940	3970	3650	3340	92	84	51-113	9	
2-Methylnaphthalene	ug/kg	ND	3940	3970	4010	3700	102	93	46-112	8	
2-Methylphenol(o-Cresol)	ug/kg	ND	3940	3970	3570	3270	91	82	10-200	9	
2-Nitroaniline	ug/kg	ND	3940	3970	4230	3900	107	98	10-200	8	
2-Nitrophenol	ug/kg	ND	3940	3970	4280	3880	109	98	10-200	10	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	3940	3970	3510	3060	89	77	10-200	14	
3,3'-Dichlorobenzidine	ug/kg	ND			ND	ND					
3-Nitroaniline	ug/kg	ND	3940	3970	4210	3910	107	98	10-200	7	
4,6-Dinitro-2-methylphenol	ug/kg	ND	3940	3970	3580	3350	91	84	10-200	6	
4-Bromophenylphenyl ether	ug/kg	ND	3940	3970	4550	4070	115	102	10-200	11	
4-Chloro-3-methylphenol	ug/kg	ND	3940	3970	4080	3870	103	97	47-129	5	
4-Chloroaniline	ug/kg	ND	3940	3970	5570	5000	141	126	10-200	11	
4-Chlorophenylphenyl ether	ug/kg	ND	3940	3970	4230	3910	107	99	10-200	8	
4-Nitroaniline	ug/kg	ND	3940	3970	4220	4410	107	111	10-200	4	
4-Nitrophenol	ug/kg	ND	3940	3970	2470	2640	63	66	26-117	7	
Acenaphthene	ug/kg	ND	3940	3970	4370	3930	111	99	52-114	11	
Acenaphthylene	ug/kg	ND	3940	3970	4320	3930	109	99	55-120	9	
Anthracene	ug/kg	ND	3940	3970	3930	3660	100	92	57-121	7	
Benzo(a)anthracene	ug/kg	ND	3940	3970	4120	3900	104	98	55-126	5	
Benzo(a)pyrene	ug/kg	ND	3940	3970	4010	3720	102	94	57-124	8	
Benzo(b)fluoranthene	ug/kg	ND	3940	3970	4110	3620	104	91	53-128	13	

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 496786 496787

Parameter	Units	3078775001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzo(g,h,i)perylene	ug/kg	ND	3940	3970	4060	4540	103	114	25-159	11	
Benzo(k)fluoranthene	ug/kg	ND	3940	3970	4700	3930	119	99	52-139	18	
Benzyl alcohol	ug/kg	ND	3940	3970	3390	2950	86	74	10-200	14	
bis(2-Chloroethoxy)methane	ug/kg	ND	3940	3970	4140	3660	105	92	10-200	12	
bis(2-Chloroethyl) ether	ug/kg	ND	3940	3970	3520	3360	89	84	10-200	5	
bis(2-Chloroisopropyl) ether	ug/kg	ND	3940	3970	3430	3130	87	79	10-200	9	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	3940	3970	3550	3430	90	86	10-200	3	
Butylbenzylphthalate	ug/kg	ND	3940	3970	3850	3410	97	86	10-200	12	
Chrysene	ug/kg	ND	3940	3970	4510	4220	114	106	42-150	7	
Di-n-butylphthalate	ug/kg	ND	3940	3970	3450	3390	87	85	10-200	2	
Di-n-octylphthalate	ug/kg	ND	3940	3970	3000	3440	76	87	10-200	14	
Dibenz(a,h)anthracene	ug/kg	ND	3940	3970	2780	3070	70	77	32-155	10	
Dibenzofuran	ug/kg	ND	3940	3970	4380	4020	111	101	10-200	9	
Diethylphthalate	ug/kg	ND	3940	3970	3790	3570	96	90	10-200	6	
Dimethylphthalate	ug/kg	ND	3940	3970	4270	3930	108	99	10-200	8	
Fluoranthene	ug/kg	ND	3940	3970	3870	4090	98	103	51-125	6	
Fluorene	ug/kg	ND	3940	3970	4250	3910	108	98	52-117	8	
Hexachloro-1,3-butadiene	ug/kg	ND	3940	3970	5040	4570	128	115	10-200	10	
Hexachlorobenzene	ug/kg	ND	3940	3970	4880	4340	124	109	10-200	12	
Hexachlorocyclopentadiene	ug/kg	ND	3940	3970	3230	2720	82	68	10-200	17	
Hexachloroethane	ug/kg	ND	3940	3970	3570	3190	90	80	10-200	11	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3940	3970	3840	4210	97	106	32-150	9	
Isophorone	ug/kg	ND	3940	3970	3670	3320	93	83	10-200	10	
N-Nitroso-di-n-propylamine	ug/kg	ND	3940	3970	3320	2850	84	72	52-126	15	
N-Nitrosodiphenylamine	ug/kg	ND	3940	3970	4350	3830	110	97	10-200	13	
Naphthalene	ug/kg	ND	3940	3970	4760	4350	121	109	51-109	9	M0
Nitrobenzene	ug/kg	ND	3940	3970	3930	3580	100	90	10-200	9	
Pentachlorophenol	ug/kg	ND	3940	3970	4270	3990	108	100	20-122	7	
Phenanthrene	ug/kg	ND	3940	3970	4270	4000	108	101	54-119	7	
Phenol	ug/kg	ND	3940	3970	3260	3040	83	77	43-112	7	
Pyrene	ug/kg	ND	3940	3970	4760	3840	121	97	38-144	22	R1
2,4,6-Tribromophenol (S)	%						110	95	10-144		
2-Fluorobiphenyl (S)	%						100	86	48-125		
2-Fluorophenol (S)	%						75	66	25-138		
Nitrobenzene-d5 (S)	%						87	77	49-118		
Phenol-d6 (S)	%						74	68	30-130		
Terphenyl-d14 (S)	%						119	94	29-159		

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QUALITY CONTROL DATA

Project: North Albany NY 12-037
Pace Project No.: 3078879

QC Batch: PMST/3438
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 3078879001, 3078879002

SAMPLE DUPLICATE: 499868

Parameter	Units	3079476001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	19.6	19.9	2	

SAMPLE DUPLICATE: 499869

Parameter	Units	3078622044 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.9	17.8	.8	

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QUALIFIERS

Project: North Albany NY 12-037
Pace Project No.: 3078879

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/14263

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: North Albany NY 12-037
Pace Project No.: 3078879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3078879001	**SOIL 1 G+.03/G+.04**	EPA 3546	OEXT/13004	EPA 8270	MSSV/4460
3078879002	**SOIL 2 G+.06/G+.07**	EPA 3546	OEXT/13004	EPA 8270	MSSV/4460
3078879001	**SOIL 1 G+.03/G+.04**	EPA 8260	MSV/14263		
3078879002	**SOIL 2 G+.06/G+.07**	EPA 8260	MSV/14263		
3078879001	**SOIL 1 G+.03/G+.04**	ASTM D2974-87	PMST/3438		
3078879002	**SOIL 2 G+.06/G+.07**	ASTM D2974-87	PMST/3438		

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APPENDIX E

Leachate Analytical Laboratory Reports

Pace Analytical Services, Inc.
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November 30, 2012

Mr. Bill Buccille
GeoCon
400 Penn Center Blvd.
Pittsburgh, PA 15235

RE: Project: North Albany, NY 12-037
Pace Project No.: 3082628

Dear Mr. Buccille:
Enclosed are the analytical results for sample(s) received by the laboratory on November 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE ANALYTE COUNT

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3082628001	**MIX 37-3 INT 1**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	RES	46	PASI-PA
3082628002	**MIX 37-4 INT 1**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	RES	46	PASI-PA
3082628003	**MIX 37-6 INT 1**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	RES	46	PASI-PA
3082628004	**MIX 37-8 INT 1**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	RES	46	PASI-PA
3082628005	**MIX 37-11 INT 1**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	RES	46	PASI-PA
3082628006	**MIX 37-12 INT 1**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	RES	46	PASI-PA

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: November 30, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/13551

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- MIX 37-12 INT 1 (Lab ID: 3082628006)
  - Nitrobenzene-d5 (S)

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

- MIX 37-8 INT 1 (Lab ID: 3082628004)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/4627

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: November 30, 2012

Workorder Comments:

Cooler temperature 15.8 ° C upon receipt. Ice was present.

Analyte Comments:

QC Batch: OEXT/13551

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MIX 37-3 INT 1 (Lab ID: 3082628001)
  - 2,4-Dimethylphenol
  - 2-Methylphenol(o-Cresol)
  - 3&4-Methylphenol(m&p Cresol)
  - Acenaphthene
  - Acenaphthylene
  - Dibenzofuran
  - Fluorene
- MIX 37-4 INT 1 (Lab ID: 3082628002)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthene
  - Carbazole
  - Phenanthrene
- MIX 37-6 INT 1 (Lab ID: 3082628003)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthene
  - Phenanthrene
- MIX 37-8 INT 1 (Lab ID: 3082628004)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthylene
  - Fluorene
  - Phenanthrene
  - Pyrene

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 517034)
  - 1-Methylnaphthalene
  - Azobenzene
- LCS (Lab ID: 517035)
  - 1-Methylnaphthalene
  - Azobenzene
- MIX 37-11 INT 1 (Lab ID: 3082628005)
  - 1-Methylnaphthalene
  - Azobenzene
- MIX 37-12 INT 1 (Lab ID: 3082628006)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: November 30, 2012

Analyte Comments:

QC Batch: OEXT/13551

N2: The lab does not hold TNI accreditation for this parameter.

- MIX 37-3 INT 1 (Lab ID: 3082628001)
  - 1-Methylnaphthalene
  - Azobenzene
- MIX 37-4 INT 1 (Lab ID: 3082628002)
  - Azobenzene
  - 1-Methylnaphthalene
- MIX 37-6 INT 1 (Lab ID: 3082628003)
  - 1-Methylnaphthalene
  - Azobenzene
- MIX 37-8 INT 1 (Lab ID: 3082628004)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: November 30, 2012

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Workorder Comments:

Cooler temperature 15.8 ° C upon receipt. Ice was present.

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-3 INT 1 **Lab ID: 3082628001** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**60.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	83-32-9	E
Acenaphthylene	**30.7**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	208-96-8	E
Anthracene	**10.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	120-12-7	
Azobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	103-33-3	N2
Benzo(a)anthracene	**1.2**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	56-55-3	
Benzo(a)pyrene	**1.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	207-08-9	
Benzoic acid	ND	ug/L	102	1	11/29/12 08:50	11/29/12 17:43	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	85-68-7	
Carbazole	**56.0**	ug/L	51.0	50	11/29/12 08:50	11/30/12 11:21	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	7005-72-3	
Chrysene	**1.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	53-70-3	
Dibenzofuran	**22.7**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	132-64-9	E
1,2-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	84-66-2	
2,4-Dimethylphenol	**81.7**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	105-67-9	E
Dimethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 17:43	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 17:43	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	117-81-7	
Fluoranthene	**8.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	206-44-0	
Fluorene	**29.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	86-73-7	E
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-3 INT 1 **Lab ID: 3082628001** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	78-59-1	
1-Methylnaphthalene	**101**	ug/L	51.0	50	11/29/12 08:50	11/30/12 11:21	90-12-0	N2
2-Methylnaphthalene	**114**	ug/L	51.0	50	11/29/12 08:50	11/30/12 11:21	91-57-6	
2-Methylphenol(o-Cresol)	**57.3**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	95-48-7	E
3&4-Methylphenol(m&p Cresol)	**60.5**	ug/L	2.0	1	11/29/12 08:50	11/29/12 17:43		E
Naphthalene	**1420**	ug/L	510	500	11/29/12 08:50	11/30/12 15:10	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 17:43	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 17:43	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 17:43	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 17:43	87-86-5	
Phenanthrene	**54.9**	ug/L	51.0	50	11/29/12 08:50	11/30/12 11:21	85-01-8	
Phenol	**16.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	108-95-2	
Pyrene	**12.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 17:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 17:43	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	53	%	35-114	1	11/29/12 08:50	11/29/12 17:43	4165-60-0	
2-Fluorobiphenyl (S)	61	%	43-116	1	11/29/12 08:50	11/29/12 17:43	321-60-8	
Terphenyl-d14 (S)	132	%	33-141	1	11/29/12 08:50	11/29/12 17:43	1718-51-0	
Phenol-d6 (S)	28	%	10-110	1	11/29/12 08:50	11/29/12 17:43	13127-88-3	
2-Fluorophenol (S)	39	%	21-110	1	11/29/12 08:50	11/29/12 17:43	367-12-4	
2,4,6-Tribromophenol (S)	92	%	10-123	1	11/29/12 08:50	11/29/12 17:43	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	**10.3**	ug/L	10.0	1		11/29/12 15:38	67-64-1	
Benzene	**94.9**	ug/L	1.0	1		11/29/12 15:38	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/29/12 15:38	74-97-5	
Bromodichloromethane	**6.1**	ug/L	1.0	1		11/29/12 15:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/29/12 15:38	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/29/12 15:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/29/12 15:38	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		11/29/12 15:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/29/12 15:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/29/12 15:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/29/12 15:38	75-00-3	
Chloroform	**18.3**	ug/L	1.0	1		11/29/12 15:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/29/12 15:38	74-87-3	
Dibromochloromethane	**2.7**	ug/L	1.0	1		11/29/12 15:38	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 15:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 15:38	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-3 INT 1 **Lab ID: 3082628001** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 15:38	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/29/12 15:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/29/12 15:38	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/29/12 15:38	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/29/12 15:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 15:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 15:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/29/12 15:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 15:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 15:38	10061-02-6	
Ethylbenzene	**181**	ug/L	1.0	1		11/29/12 15:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/29/12 15:38	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		11/29/12 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/29/12 15:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/29/12 15:38	1634-04-4	
Styrene	**25.4**	ug/L	1.0	1		11/29/12 15:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/29/12 15:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/29/12 15:38	127-18-4	
Toluene	**113**	ug/L	1.0	1		11/29/12 15:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/29/12 15:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/29/12 15:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/29/12 15:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/29/12 15:38	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/29/12 15:38	75-01-4	
Xylene (Total)	**186**	ug/L	3.0	1		11/29/12 15:38	1330-20-7	
m&p-Xylene	**106**	ug/L	2.0	1		11/29/12 15:38	179601-23-1	
o-Xylene	**79.2**	ug/L	1.0	1		11/29/12 15:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	85-115	1		11/29/12 15:38	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	77-119	1		11/29/12 15:38	17060-07-0	
Toluene-d8 (S)	95	%	85-115	1		11/29/12 15:38	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-4 INT 1 **Lab ID: 3082628002** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**23.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	83-32-9	E
Acenaphthylene	**12.7**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	208-96-8	
Anthracene	**4.9**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	120-12-7	
Azobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	207-08-9	
Benzoic acid	ND	ug/L	102	1	11/29/12 08:50	11/29/12 18:05	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	85-68-7	
Carbazole	**23.2**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	86-74-8	E
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	7005-72-3	
Chrysene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	53-70-3	
Dibenzofuran	**9.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	84-66-2	
2,4-Dimethylphenol	**19.4**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 18:05	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 18:05	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	117-81-7	
Fluoranthene	**3.8**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	206-44-0	
Fluorene	**14.9**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-4 INT 1 **Lab ID: 3082628002** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	78-59-1	
1-Methylnaphthalene	**38.6**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	90-12-0	E,N2
2-Methylnaphthalene	**45.4**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	91-57-6	E
2-Methylphenol(o-Cresol)	**11.6**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	**13.8**	ug/L	2.0	1	11/29/12 08:50	11/29/12 18:05		
Naphthalene	**550**	ug/L	50.8	50	11/29/12 08:50	11/30/12 11:43	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 18:05	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 18:05	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 18:05	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 18:05	87-86-5	
Phenanthrene	**30.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	85-01-8	E
Phenol	**3.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	108-95-2	
Pyrene	**5.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 18:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	53	%	35-114	1	11/29/12 08:50	11/29/12 18:05	4165-60-0	
2-Fluorobiphenyl (S)	56	%	43-116	1	11/29/12 08:50	11/29/12 18:05	321-60-8	
Terphenyl-d14 (S)	106	%	33-141	1	11/29/12 08:50	11/29/12 18:05	1718-51-0	
Phenol-d6 (S)	23	%	10-110	1	11/29/12 08:50	11/29/12 18:05	13127-88-3	
2-Fluorophenol (S)	32	%	21-110	1	11/29/12 08:50	11/29/12 18:05	367-12-4	
2,4,6-Tribromophenol (S)	81	%	10-123	1	11/29/12 08:50	11/29/12 18:05	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/29/12 16:04	67-64-1	
Benzene	**32.7**	ug/L	1.0	1		11/29/12 16:04	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/29/12 16:04	74-97-5	
Bromodichloromethane	**7.6**	ug/L	1.0	1		11/29/12 16:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/29/12 16:04	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/29/12 16:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/29/12 16:04	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		11/29/12 16:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/29/12 16:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/29/12 16:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/29/12 16:04	75-00-3	
Chloroform	**16.5**	ug/L	1.0	1		11/29/12 16:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/29/12 16:04	74-87-3	
Dibromochloromethane	**3.0**	ug/L	1.0	1		11/29/12 16:04	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:04	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-4 INT 1 **Lab ID: 3082628002** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:04	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/29/12 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/29/12 16:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/29/12 16:04	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/29/12 16:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 16:04	10061-02-6	
Ethylbenzene	**54.5**	ug/L	1.0	1		11/29/12 16:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/29/12 16:04	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		11/29/12 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/29/12 16:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/29/12 16:04	1634-04-4	
Styrene	**7.9**	ug/L	1.0	1		11/29/12 16:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/29/12 16:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/29/12 16:04	127-18-4	
Toluene	**34.0**	ug/L	1.0	1		11/29/12 16:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/29/12 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/29/12 16:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/29/12 16:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/29/12 16:04	75-01-4	
Xylene (Total)	**58.9**	ug/L	3.0	1		11/29/12 16:04	1330-20-7	
m&p-Xylene	**34.6**	ug/L	2.0	1		11/29/12 16:04	179601-23-1	
o-Xylene	**24.3**	ug/L	1.0	1		11/29/12 16:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		11/29/12 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	77-119	1		11/29/12 16:04	17060-07-0	
Toluene-d8 (S)	99	%	85-115	1		11/29/12 16:04	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-6 INT 1 **Lab ID: 3082628003** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**27.9**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	83-32-9	E
Acenaphthylene	**14.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	208-96-8	
Anthracene	**5.3**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	120-12-7	
Azobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	207-08-9	
Benzoic acid	ND	ug/L	102	1	11/29/12 08:50	11/29/12 18:27	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	85-68-7	
Carbazole	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	7005-72-3	
Chrysene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	53-70-3	
Dibenzofuran	**10.2**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	84-66-2	
2,4-Dimethylphenol	**17.4**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:27	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:27	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	117-81-7	
Fluoranthene	**4.2**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	206-44-0	
Fluorene	**14.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-6 INT 1 **Lab ID: 3082628003** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	78-59-1	
1-Methylnaphthalene	**49.9**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	90-12-0	E,N2
2-Methylnaphthalene	**58.6**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	91-57-6	E
2-Methylphenol(o-Cresol)	**10.8**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	**13.4**	ug/L	2.0	1	11/29/12 08:50	11/29/12 18:27		
Naphthalene	**656**	ug/L	51.0	50	11/29/12 08:50	11/30/12 12:06	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:27	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:27	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:27	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:27	87-86-5	
Phenanthrene	**33.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	85-01-8	E
Phenol	**2.9**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	108-95-2	
Pyrene	**6.4**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:27	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:27	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	72	%	35-114	1	11/29/12 08:50	11/29/12 18:27	4165-60-0	
2-Fluorobiphenyl (S)	70	%	43-116	1	11/29/12 08:50	11/29/12 18:27	321-60-8	
Terphenyl-d14 (S)	118	%	33-141	1	11/29/12 08:50	11/29/12 18:27	1718-51-0	
Phenol-d6 (S)	30	%	10-110	1	11/29/12 08:50	11/29/12 18:27	13127-88-3	
2-Fluorophenol (S)	46	%	21-110	1	11/29/12 08:50	11/29/12 18:27	367-12-4	
2,4,6-Tribromophenol (S)	90	%	10-123	1	11/29/12 08:50	11/29/12 18:27	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/29/12 16:29	67-64-1	
Benzene	**40.3**	ug/L	1.0	1		11/29/12 16:29	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/29/12 16:29	74-97-5	
Bromodichloromethane	**8.4**	ug/L	1.0	1		11/29/12 16:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/29/12 16:29	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/29/12 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/29/12 16:29	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		11/29/12 16:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/29/12 16:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/29/12 16:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/29/12 16:29	75-00-3	
Chloroform	**18.4**	ug/L	1.0	1		11/29/12 16:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/29/12 16:29	74-87-3	
Dibromochloromethane	**3.3**	ug/L	1.0	1		11/29/12 16:29	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:29	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-6 INT 1 **Lab ID: 3082628003** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:29	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/29/12 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/29/12 16:29	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/29/12 16:29	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/29/12 16:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 16:29	10061-02-6	
Ethylbenzene	**60.3**	ug/L	1.0	1		11/29/12 16:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/29/12 16:29	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		11/29/12 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/29/12 16:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/29/12 16:29	1634-04-4	
Styrene	**8.7**	ug/L	1.0	1		11/29/12 16:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/29/12 16:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/29/12 16:29	127-18-4	
Toluene	**40.8**	ug/L	1.0	1		11/29/12 16:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/29/12 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/29/12 16:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/29/12 16:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/29/12 16:29	75-01-4	
Xylene (Total)	**60.7**	ug/L	3.0	1		11/29/12 16:29	1330-20-7	
m&p-Xylene	**36.0**	ug/L	2.0	1		11/29/12 16:29	179601-23-1	
o-Xylene	**24.7**	ug/L	1.0	1		11/29/12 16:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		11/29/12 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	77-119	1		11/29/12 16:29	17060-07-0	
Toluene-d8 (S)	99	%	85-115	1		11/29/12 16:29	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-8 INT 1 **Lab ID: 3082628004** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	83-32-9	
Acenaphthylene	**218**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	208-96-8	E
Anthracene	**13.2**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	120-12-7	
Azobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	103-33-3	N2
Benzo(a)anthracene	**2.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	56-55-3	
Benzo(a)pyrene	**2.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	50-32-8	
Benzo(b)fluoranthene	**1.8**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	205-99-2	
Benzo(g,h,i)perylene	**1.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	207-08-9	
Benzoic acid	ND	ug/L	102	1	11/29/12 08:50	11/29/12 18:49	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	85-68-7	
Carbazole	**6.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	7005-72-3	
Chrysene	**1.8**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	53-70-3	
Dibenzofuran	**3.3**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:49	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:49	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	117-84-0	
bis(2-Ethylhexyl)phthalate	**1.2**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	117-81-7	
Fluoranthene	**12.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	206-44-0	
Fluorene	**55.3**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	86-73-7	E
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-8 INT 1 **Lab ID: 3082628004** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	78-59-1	
1-Methylnaphthalene	**193**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	90-12-0	E,N2
2-Methylnaphthalene	**272**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	91-57-6	E
2-Methylphenol(o-Cresol)	**7.7**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	**13.0**	ug/L	2.0	1	11/29/12 08:50	11/29/12 18:49		
Naphthalene	**5240**	ug/L	510	500	11/29/12 08:50	11/30/12 12:28	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:49	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:49	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:49	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:49	87-86-5	
Phenanthrene	**111**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	85-01-8	E
Phenol	**10.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	108-95-2	
Pyrene	**28.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	129-00-0	E
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	11/29/12 08:50	11/29/12 18:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 18:49	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	81	%	35-114	1	11/29/12 08:50	11/29/12 18:49	4165-60-0	
2-Fluorobiphenyl (S)	65	%	43-116	1	11/29/12 08:50	11/29/12 18:49	321-60-8	
Terphenyl-d14 (S)	149	%	33-141	1	11/29/12 08:50	11/29/12 18:49	1718-51-0	S5
Phenol-d6 (S)	59	%	10-110	1	11/29/12 08:50	11/29/12 18:49	13127-88-3	
2-Fluorophenol (S)	90	%	21-110	1	11/29/12 08:50	11/29/12 18:49	367-12-4	
2,4,6-Tribromophenol (S)	90	%	10-123	1	11/29/12 08:50	11/29/12 18:49	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	**69.5**	ug/L	10.0	1		11/29/12 16:55	67-64-1	
Benzene	**1500**	ug/L	10.0	10		11/30/12 14:47	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/29/12 16:55	74-97-5	
Bromodichloromethane	**6.3**	ug/L	1.0	1		11/29/12 16:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/29/12 16:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/29/12 16:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/29/12 16:55	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		11/29/12 16:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/29/12 16:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/29/12 16:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/29/12 16:55	75-00-3	
Chloroform	**17.4**	ug/L	1.0	1		11/29/12 16:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/29/12 16:55	74-87-3	
Dibromochloromethane	**3.1**	ug/L	1.0	1		11/29/12 16:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:55	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-8 INT 1 **Lab ID: 3082628004** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/29/12 16:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/29/12 16:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/29/12 16:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 16:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/29/12 16:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 16:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 16:55	10061-02-6	
Ethylbenzene	**674**	ug/L	10.0	10		11/30/12 14:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/29/12 16:55	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		11/29/12 16:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/29/12 16:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/29/12 16:55	1634-04-4	
Styrene	**83.4**	ug/L	1.0	1		11/29/12 16:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/29/12 16:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/29/12 16:55	127-18-4	
Toluene	**585**	ug/L	10.0	10		11/30/12 14:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/29/12 16:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/29/12 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/29/12 16:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/29/12 16:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/29/12 16:55	75-01-4	
Xylene (Total)	**292**	ug/L	3.0	1		11/29/12 16:55	1330-20-7	
m&p-Xylene	**202**	ug/L	2.0	1		11/29/12 16:55	179601-23-1	
o-Xylene	**90.5**	ug/L	1.0	1		11/29/12 16:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	85-115	1		11/29/12 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	77-119	1		11/29/12 16:55	17060-07-0	
Toluene-d8 (S)	99	%	85-115	1		11/29/12 16:55	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-11 INT 1 **Lab ID: 3082628005** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	508	500	11/29/12 08:50	11/30/12 12:50	83-32-9	
Acenaphthylene	ND	ug/L	508	500	11/29/12 08:50	11/30/12 12:50	208-96-8	
Anthracene	**7.8**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	120-12-7	
Azobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	103-33-3	N2
Benzo(a)anthracene	**1.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	56-55-3	
Benzo(a)pyrene	**2.3**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	50-32-8	
Benzo(b)fluoranthene	**2.2**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	205-99-2	
Benzo(g,h,i)perylene	**1.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	191-24-2	
Benzo(k)fluoranthene	**1.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	207-08-9	
Benzoic acid	ND	ug/L	102	1	11/29/12 08:50	11/29/12 19:11	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	85-68-7	
Carbazole	**3.6**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	7005-72-3	
Chrysene	**1.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	53-70-3	
Dibenzofuran	**1.6**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:11	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	117-81-7	
Fluoranthene	**7.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	206-44-0	
Fluorene	ND	ug/L	508	500	11/29/12 08:50	11/30/12 12:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-11 INT 1 **Lab ID: 3082628005** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	78-59-1	
1-Methylnaphthalene	ND	ug/L	508	500	11/29/12 08:50	11/30/12 12:50	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	508	500	11/29/12 08:50	11/30/12 12:50	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	**5.0**	ug/L	2.0	1	11/29/12 08:50	11/29/12 19:11		
Naphthalene	**7020**	ug/L	508	500	11/29/12 08:50	11/30/12 12:50	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:11	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:11	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:11	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:11	87-86-5	
Phenanthrene	ND	ug/L	508	500	11/29/12 08:50	11/30/12 12:50	85-01-8	
Phenol	**3.7**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	108-95-2	
Pyrene	**15.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:11	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	96	%	35-114	1	11/29/12 08:50	11/29/12 19:11	4165-60-0	
2-Fluorobiphenyl (S)	66	%	43-116	1	11/29/12 08:50	11/29/12 19:11	321-60-8	
Terphenyl-d14 (S)	113	%	33-141	1	11/29/12 08:50	11/29/12 19:11	1718-51-0	
Phenol-d6 (S)	46	%	10-110	1	11/29/12 08:50	11/29/12 19:11	13127-88-3	
2-Fluorophenol (S)	69	%	21-110	1	11/29/12 08:50	11/29/12 19:11	367-12-4	
2,4,6-Tribromophenol (S)	87	%	10-123	1	11/29/12 08:50	11/29/12 19:11	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	**20.9**	ug/L	10.0	1		11/29/12 17:20	67-64-1	
Benzene	**871**	ug/L	5.0	5		11/30/12 15:13	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/29/12 17:20	74-97-5	
Bromodichloromethane	**8.2**	ug/L	1.0	1		11/29/12 17:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/29/12 17:20	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/29/12 17:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/29/12 17:20	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		11/29/12 17:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/29/12 17:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/29/12 17:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/29/12 17:20	75-00-3	
Chloroform	**19.7**	ug/L	1.0	1		11/29/12 17:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/29/12 17:20	74-87-3	
Dibromochloromethane	**3.2**	ug/L	1.0	1		11/29/12 17:20	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 17:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 17:20	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-11 INT 1 **Lab ID: 3082628005** Collected: 11/27/12 11:00 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 17:20	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/29/12 17:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/29/12 17:20	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/29/12 17:20	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/29/12 17:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 17:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/29/12 17:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 17:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 17:20	10061-02-6	
Ethylbenzene	**392**	ug/L	1.0	1		11/29/12 17:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/29/12 17:20	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		11/29/12 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/29/12 17:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/29/12 17:20	1634-04-4	
Styrene	**47.2**	ug/L	1.0	1		11/29/12 17:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/29/12 17:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/29/12 17:20	127-18-4	
Toluene	**324**	ug/L	1.0	1		11/29/12 17:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/29/12 17:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/29/12 17:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/29/12 17:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/29/12 17:20	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/29/12 17:20	75-01-4	
Xylene (Total)	**165**	ug/L	3.0	1		11/29/12 17:20	1330-20-7	
m&p-Xylene	**114**	ug/L	2.0	1		11/29/12 17:20	179601-23-1	
o-Xylene	**51.1**	ug/L	1.0	1		11/29/12 17:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		11/29/12 17:20	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-119	1		11/29/12 17:20	17060-07-0	
Toluene-d8 (S)	97	%	85-115	1		11/29/12 17:20	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-12 INT 1 **Lab ID: 3082628006** Collected: 11/27/12 11:25 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	505	500	11/29/12 08:50	11/30/12 13:12	83-32-9	
Acenaphthylene	ND	ug/L	505	500	11/29/12 08:50	11/30/12 13:12	208-96-8	
Anthracene	**6.4**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	120-12-7	
Azobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	207-08-9	
Benzoic acid	ND	ug/L	101	1	11/29/12 08:50	11/29/12 19:33	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	85-68-7	
Carbazole	**3.0**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	7005-72-3	
Chrysene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	53-70-3	
Dibenzofuran	**1.4**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	84-66-2	
2,4-Dimethylphenol	**2.9**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:33	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:33	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	117-81-7	
Fluoranthene	**4.3**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	206-44-0	
Fluorene	ND	ug/L	505	500	11/29/12 08:50	11/30/12 13:12	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-12 INT 1 **Lab ID: 3082628006** Collected: 11/27/12 11:25 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	78-59-1	
1-Methylnaphthalene	ND	ug/L	505	500	11/29/12 08:50	11/30/12 13:12	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	505	500	11/29/12 08:50	11/30/12 13:12	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	**2.0**	ug/L	2.0	1	11/29/12 08:50	11/29/12 19:33		
Naphthalene	**6230**	ug/L	505	500	11/29/12 08:50	11/30/12 13:12	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:33	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:33	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:33	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	100-02-7	
N-Nitrosodimethylamine	**2.1**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:33	87-86-5	
Phenanthrene	ND	ug/L	505	500	11/29/12 08:50	11/30/12 13:12	85-01-8	
Phenol	**1.5**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	108-95-2	
Pyrene	**10.2**	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	11/29/12 08:50	11/29/12 19:33	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	11/29/12 08:50	11/29/12 19:33	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	141	%	35-114	1	11/29/12 08:50	11/29/12 19:33	4165-60-0	S2
2-Fluorobiphenyl (S)	67	%	43-116	1	11/29/12 08:50	11/29/12 19:33	321-60-8	
Terphenyl-d14 (S)	123	%	33-141	1	11/29/12 08:50	11/29/12 19:33	1718-51-0	
Phenol-d6 (S)	28	%	10-110	1	11/29/12 08:50	11/29/12 19:33	13127-88-3	
2-Fluorophenol (S)	40	%	21-110	1	11/29/12 08:50	11/29/12 19:33	367-12-4	
2,4,6-Tribromophenol (S)	91	%	10-123	1	11/29/12 08:50	11/29/12 19:33	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	**19.1**	ug/L	10.0	1		11/29/12 17:46	67-64-1	
Benzene	**587**	ug/L	5.0	5		11/30/12 15:39	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/29/12 17:46	74-97-5	
Bromodichloromethane	**8.5**	ug/L	1.0	1		11/29/12 17:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/29/12 17:46	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/29/12 17:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/29/12 17:46	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		11/29/12 17:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/29/12 17:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/29/12 17:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/29/12 17:46	75-00-3	
Chloroform	**19.5**	ug/L	1.0	1		11/29/12 17:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/29/12 17:46	74-87-3	
Dibromochloromethane	**3.3**	ug/L	1.0	1		11/29/12 17:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 17:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 17:46	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Sample: MIX 37-12 INT 1 **Lab ID: 3082628006** Collected: 11/27/12 11:25 Received: 11/27/12 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/29/12 17:46	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/29/12 17:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/29/12 17:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/29/12 17:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/29/12 17:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 17:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/29/12 17:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/29/12 17:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 17:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/29/12 17:46	10061-02-6	
Ethylbenzene	**304**	ug/L	1.0	1		11/29/12 17:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/29/12 17:46	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		11/29/12 17:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/29/12 17:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/29/12 17:46	1634-04-4	
Styrene	**36.6**	ug/L	1.0	1		11/29/12 17:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/29/12 17:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/29/12 17:46	127-18-4	
Toluene	**244**	ug/L	1.0	1		11/29/12 17:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/29/12 17:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/29/12 17:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/29/12 17:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/29/12 17:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/29/12 17:46	75-01-4	
Xylene (Total)	**133**	ug/L	3.0	1		11/29/12 17:46	1330-20-7	
m&p-Xylene	**92.8**	ug/L	2.0	1		11/29/12 17:46	179601-23-1	
o-Xylene	**40.6**	ug/L	1.0	1		11/29/12 17:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	85-115	1		11/29/12 17:46	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-119	1		11/29/12 17:46	17060-07-0	
Toluene-d8 (S)	98	%	85-115	1		11/29/12 17:46	2037-26-5	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3082628

QC Batch: MSV/14683 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3082628001, 3082628002, 3082628003, 3082628004, 3082628005, 3082628006

METHOD BLANK: 517372 Matrix: Water
Associated Lab Samples: 3082628001, 3082628002, 3082628003, 3082628004, 3082628005, 3082628006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/29/12 14:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/29/12 14:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/29/12 14:22	
1,1-Dichloroethane	ug/L	ND	1.0	11/29/12 14:22	
1,1-Dichloroethene	ug/L	ND	1.0	11/29/12 14:22	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/29/12 14:22	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/29/12 14:22	
1,2-Dichloroethane	ug/L	ND	1.0	11/29/12 14:22	
1,2-Dichloropropane	ug/L	ND	1.0	11/29/12 14:22	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/29/12 14:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/29/12 14:22	
2-Butanone (MEK)	ug/L	ND	10.0	11/29/12 14:22	
2-Hexanone	ug/L	ND	10.0	11/29/12 14:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/29/12 14:22	
Acetone	ug/L	ND	10.0	11/29/12 14:22	
Benzene	ug/L	ND	1.0	11/29/12 14:22	
Bromochloromethane	ug/L	ND	1.0	11/29/12 14:22	
Bromodichloromethane	ug/L	ND	1.0	11/29/12 14:22	
Bromoform	ug/L	ND	1.0	11/29/12 14:22	
Bromomethane	ug/L	ND	1.0	11/29/12 14:22	
Carbon disulfide	ug/L	ND	1.0	11/29/12 14:22	
Carbon tetrachloride	ug/L	ND	1.0	11/29/12 14:22	
Chlorobenzene	ug/L	ND	1.0	11/29/12 14:22	
Chloroethane	ug/L	ND	1.0	11/29/12 14:22	
Chloroform	ug/L	ND	1.0	11/29/12 14:22	
Chloromethane	ug/L	ND	1.0	11/29/12 14:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/29/12 14:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/29/12 14:22	
Dibromochloromethane	ug/L	ND	1.0	11/29/12 14:22	
Ethylbenzene	ug/L	ND	1.0	11/29/12 14:22	
m&p-Xylene	ug/L	ND	2.0	11/29/12 14:22	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/29/12 14:22	
Methylene Chloride	ug/L	ND	1.0	11/29/12 14:22	
o-Xylene	ug/L	ND	1.0	11/29/12 14:22	
Styrene	ug/L	ND	1.0	11/29/12 14:22	
Tetrachloroethene	ug/L	ND	1.0	11/29/12 14:22	
Toluene	ug/L	ND	1.0	11/29/12 14:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/29/12 14:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/29/12 14:22	
Trichloroethene	ug/L	ND	1.0	11/29/12 14:22	
Vinyl chloride	ug/L	ND	1.0	11/29/12 14:22	
Xylene (Total)	ug/L	ND	3.0	11/29/12 14:22	
1,2-Dichloroethane-d4 (S)	%	107	77-119	11/29/12 14:22	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3082628

METHOD BLANK: 517372 Matrix: Water

Associated Lab Samples: 3082628001, 3082628002, 3082628003, 3082628004, 3082628005, 3082628006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	99	85-115	11/29/12 14:22	
Toluene-d8 (S)	%	101	85-115	11/29/12 14:22	

LABORATORY CONTROL SAMPLE: 517373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	61-117	
1,1,2-Trichloroethane	ug/L	20	19.5	98	72-119	
1,1-Dichloroethane	ug/L	20	19.9	99	63-123	
1,1-Dichloroethene	ug/L	20	19.0	95	57-127	
1,2,4-Trichlorobenzene	ug/L	20	20.5	102	52-138	
1,2-Dichlorobenzene	ug/L	20	19.8	99	70-116	
1,2-Dichloroethane	ug/L	20	20.7	103	62-125	
1,2-Dichloropropane	ug/L	20	18.9	94	69-115	
1,3-Dichlorobenzene	ug/L	20	19.5	98	71-118	
1,4-Dichlorobenzene	ug/L	20	19.5	98	67-119	
2-Butanone (MEK)	ug/L	20	12.8	64	48-136	
2-Hexanone	ug/L	20	18.1	91	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.4	102	57-124	
Acetone	ug/L	20	14.7	74	49-138	
Benzene	ug/L	20	18.7	93	66-122	
Bromochloromethane	ug/L	20	20.3	101	61-126	
Bromodichloromethane	ug/L	20	18.6	93	63-118	
Bromoform	ug/L	20	19.0	95	46-130	
Bromomethane	ug/L	20	15.1	75	10-175	
Carbon disulfide	ug/L	20	21.1	106	59-142	
Carbon tetrachloride	ug/L	20	18.9	94	55-126	
Chlorobenzene	ug/L	20	18.2	91	70-121	
Chloroethane	ug/L	20	20.6	103	24-161	
Chloroform	ug/L	20	18.4	92	62-126	
Chloromethane	ug/L	20	16.6	83	37-147	
cis-1,2-Dichloroethene	ug/L	20	19.3	96	64-121	
cis-1,3-Dichloropropene	ug/L	20	18.6	93	64-118	
Dibromochloromethane	ug/L	20	19.0	95	60-120	
Ethylbenzene	ug/L	20	19.2	96	69-119	
m&p-Xylene	ug/L	40	38.4	96	70-124	
Methyl-tert-butyl ether	ug/L	20	18.9	95	58-131	
Methylene Chloride	ug/L	20	20.1	100	59-128	
o-Xylene	ug/L	20	19.2	96	67-123	
Styrene	ug/L	20	19.4	97	67-146	
Tetrachloroethene	ug/L	20	19.0	95	62-125	
Toluene	ug/L	20	18.9	94	72-115	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	59-122	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	64-120	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3082628

LABORATORY CONTROL SAMPLE: 517373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	18.9	95	62-125	
Vinyl chloride	ug/L	20	20.0	100	52-145	
Xylene (Total)	ug/L	60	57.6	96	70-123	
1,2-Dichloroethane-d4 (S)	%			107	77-119	
4-Bromofluorobenzene (S)	%			99	85-115	
Toluene-d8 (S)	%			97	85-115	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3082628

QC Batch: OEXT/13551 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 3082628001, 3082628002, 3082628003, 3082628004, 3082628005, 3082628006

METHOD BLANK: 517034 Matrix: Water
Associated Lab Samples: 3082628001, 3082628002, 3082628003, 3082628004, 3082628005, 3082628006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/29/12 16:59	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/29/12 16:59	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/29/12 16:59	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/29/12 16:59	
1-Methylnaphthalene	ug/L	ND	1.0	11/29/12 16:59	N2
2,4,5-Trichlorophenol	ug/L	ND	2.5	11/29/12 16:59	
2,4,6-Trichlorophenol	ug/L	ND	1.0	11/29/12 16:59	
2,4-Dichlorophenol	ug/L	ND	1.0	11/29/12 16:59	
2,4-Dimethylphenol	ug/L	ND	1.0	11/29/12 16:59	
2,4-Dinitrophenol	ug/L	ND	2.5	11/29/12 16:59	
2,4-Dinitrotoluene	ug/L	ND	1.0	11/29/12 16:59	
2,6-Dinitrotoluene	ug/L	ND	1.0	11/29/12 16:59	
2-Chloronaphthalene	ug/L	ND	1.0	11/29/12 16:59	
2-Chlorophenol	ug/L	ND	1.0	11/29/12 16:59	
2-Methylnaphthalene	ug/L	ND	1.0	11/29/12 16:59	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	11/29/12 16:59	
2-Nitroaniline	ug/L	ND	2.5	11/29/12 16:59	
2-Nitrophenol	ug/L	ND	1.0	11/29/12 16:59	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	11/29/12 16:59	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	11/29/12 16:59	
3-Nitroaniline	ug/L	ND	2.5	11/29/12 16:59	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	11/29/12 16:59	
4-Bromophenylphenyl ether	ug/L	ND	1.0	11/29/12 16:59	
4-Chloro-3-methylphenol	ug/L	ND	1.0	11/29/12 16:59	
4-Chloroaniline	ug/L	ND	1.0	11/29/12 16:59	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	11/29/12 16:59	
4-Nitroaniline	ug/L	ND	2.5	11/29/12 16:59	
4-Nitrophenol	ug/L	ND	1.0	11/29/12 16:59	
Acenaphthene	ug/L	ND	1.0	11/29/12 16:59	
Acenaphthylene	ug/L	ND	1.0	11/29/12 16:59	
Anthracene	ug/L	ND	1.0	11/29/12 16:59	
Azobenzene	ug/L	ND	1.0	11/29/12 16:59	N2
Benzo(a)anthracene	ug/L	ND	1.0	11/29/12 16:59	
Benzo(a)pyrene	ug/L	ND	1.0	11/29/12 16:59	
Benzo(b)fluoranthene	ug/L	ND	1.0	11/29/12 16:59	
Benzo(g,h,i)perylene	ug/L	ND	1.0	11/29/12 16:59	
Benzo(k)fluoranthene	ug/L	ND	1.0	11/29/12 16:59	
Benzoic acid	ug/L	ND	100	11/29/12 16:59	
Benzyl alcohol	ug/L	ND	1.0	11/29/12 16:59	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	11/29/12 16:59	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	11/29/12 16:59	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	11/29/12 16:59	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	11/29/12 16:59	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3082628

METHOD BLANK: 517034 Matrix: Water

Associated Lab Samples: 3082628001, 3082628002, 3082628003, 3082628004, 3082628005, 3082628006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	1.0	11/29/12 16:59	
Carbazole	ug/L	ND	1.0	11/29/12 16:59	
Chrysene	ug/L	ND	1.0	11/29/12 16:59	
Di-n-butylphthalate	ug/L	ND	1.0	11/29/12 16:59	
Di-n-octylphthalate	ug/L	ND	1.0	11/29/12 16:59	
Dibenz(a,h)anthracene	ug/L	ND	1.0	11/29/12 16:59	
Dibenzofuran	ug/L	ND	1.0	11/29/12 16:59	
Diethylphthalate	ug/L	ND	1.0	11/29/12 16:59	
Dimethylphthalate	ug/L	ND	1.0	11/29/12 16:59	
Fluoranthene	ug/L	ND	1.0	11/29/12 16:59	
Fluorene	ug/L	ND	1.0	11/29/12 16:59	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/29/12 16:59	
Hexachlorobenzene	ug/L	ND	1.0	11/29/12 16:59	
Hexachlorocyclopentadiene	ug/L	ND	1.0	11/29/12 16:59	
Hexachloroethane	ug/L	ND	1.0	11/29/12 16:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	11/29/12 16:59	
Isophorone	ug/L	ND	1.0	11/29/12 16:59	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	11/29/12 16:59	
N-Nitrosodimethylamine	ug/L	ND	1.0	11/29/12 16:59	
N-Nitrosodiphenylamine	ug/L	ND	1.0	11/29/12 16:59	
Naphthalene	ug/L	ND	1.0	11/29/12 16:59	
Nitrobenzene	ug/L	ND	1.0	11/29/12 16:59	
Pentachlorophenol	ug/L	ND	2.5	11/29/12 16:59	
Phenanthrene	ug/L	ND	1.0	11/29/12 16:59	
Phenol	ug/L	ND	1.0	11/29/12 16:59	
Pyrene	ug/L	ND	1.0	11/29/12 16:59	
2,4,6-Tribromophenol (S)	%	75	10-123	11/29/12 16:59	
2-Fluorobiphenyl (S)	%	61	43-116	11/29/12 16:59	
2-Fluorophenol (S)	%	41	21-110	11/29/12 16:59	
Nitrobenzene-d5 (S)	%	59	35-114	11/29/12 16:59	
Phenol-d6 (S)	%	26	10-110	11/29/12 16:59	
Terphenyl-d14 (S)	%	118	33-141	11/29/12 16:59	

LABORATORY CONTROL SAMPLE: 517035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	5	3.6	71	12-105	
1,2-Dichlorobenzene	ug/L		ND			
1,3-Dichlorobenzene	ug/L		ND			
1,4-Dichlorobenzene	ug/L	5	4.2	83	10-95	
1-Methylnaphthalene	ug/L	5	4.4	89	15-106	N2
2,4,5-Trichlorophenol	ug/L		ND			
2,4,6-Trichlorophenol	ug/L		ND			
2,4-Dichlorophenol	ug/L		ND			
2,4-Dimethylphenol	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3082628

LABORATORY CONTROL SAMPLE: 517035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L		ND			
2,4-Dinitrotoluene	ug/L	5	3.9	78	10-133	
2,6-Dinitrotoluene	ug/L		ND			
2-Chloronaphthalene	ug/L		ND			
2-Chlorophenol	ug/L	5	4.2	84	10-111	
2-Methylnaphthalene	ug/L	5	4.1	81	10-98	
2-Methylphenol(o-Cresol)	ug/L		ND			
2-Nitroaniline	ug/L		ND			
2-Nitrophenol	ug/L		ND			
3&4-Methylphenol(m&p Cresol)	ug/L		ND			
3,3'-Dichlorobenzidine	ug/L		ND			
3-Nitroaniline	ug/L		ND			
4,6-Dinitro-2-methylphenol	ug/L		ND			
4-Bromophenylphenyl ether	ug/L		ND			
4-Chloro-3-methylphenol	ug/L	5	4.4	88	10-129	
4-Chloroaniline	ug/L		ND			
4-Chlorophenylphenyl ether	ug/L		ND			
4-Nitroaniline	ug/L		ND			
4-Nitrophenol	ug/L	5	1.1	22	10-54	
Acenaphthene	ug/L	5	4.2	83	12-123	
Acenaphthylene	ug/L	5	4.2	84	11-131	
Anthracene	ug/L	5	4.2	84	11-135	
Azobenzene	ug/L		ND			N2
Benzo(a)anthracene	ug/L	5	4.5	89	24-138	
Benzo(a)pyrene	ug/L	5	4.4	87	20-136	
Benzo(b)fluoranthene	ug/L	5	5.2	103	19-147	
Benzo(g,h,i)perylene	ug/L	5	3.5	71	11-156	
Benzo(k)fluoranthene	ug/L	5	6.4	128	22-154	
Benzoic acid	ug/L		ND			
Benzyl alcohol	ug/L		ND			
bis(2-Chloroethoxy)methane	ug/L		ND			
bis(2-Chloroethyl) ether	ug/L		ND			
bis(2-Chloroisopropyl) ether	ug/L		ND			
bis(2-Ethylhexyl)phthalate	ug/L		ND			
Butylbenzylphthalate	ug/L		ND			
Carbazole	ug/L		ND			
Chrysene	ug/L	5	4.7	93	14-158	
Di-n-butylphthalate	ug/L		ND			
Di-n-octylphthalate	ug/L		ND			
Dibenz(a,h)anthracene	ug/L	5	3.4	69	13-154	
Dibenzofuran	ug/L		ND			
Diethylphthalate	ug/L		ND			
Dimethylphthalate	ug/L		ND			
Fluoranthene	ug/L	5	3.9	77	20-135	
Fluorene	ug/L	5	4.2	84	11-128	
Hexachloro-1,3-butadiene	ug/L		ND			
Hexachlorobenzene	ug/L		ND			
Hexachlorocyclopentadiene	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3082628

LABORATORY CONTROL SAMPLE: 517035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L		ND			
Indeno(1,2,3-cd)pyrene	ug/L	5	3.6	72	15-148	
Isophorone	ug/L		ND			
N-Nitroso-di-n-propylamine	ug/L	5	4.3	86	10-136	
N-Nitrosodimethylamine	ug/L		ND			
N-Nitrosodiphenylamine	ug/L		ND			
Naphthalene	ug/L	5	4.4	88	12-116	
Nitrobenzene	ug/L		ND			
Pentachlorophenol	ug/L	5	4.1	81	13-129	
Phenanthrene	ug/L	5	4.3	86	13-134	
Phenol	ug/L	5	1.5	29	10-47	
Pyrene	ug/L	5	5.3	106	10-158	
2,4,6-Tribromophenol (S)	%			88	10-123	
2-Fluorobiphenyl (S)	%			82	43-116	
2-Fluorophenol (S)	%			49	21-110	
Nitrobenzene-d5 (S)	%			82	35-114	
Phenol-d6 (S)	%			31	10-110	
Terphenyl-d14 (S)	%			128	33-141	

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QUALIFIERS

Project: North Albany, NY 12-037
Pace Project No.: 3082628

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

WORKORDER QUALIFIERS

WO: 3082628

[1]	Cooler temperature 15.8 ° C upon receipt. Ice was present.

BATCH QUALIFIERS

Batch: OEXT/13551

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
N2	The lab does not hold TNI accreditation for this parameter.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: North Albany, NY 12-037
Pace Project No.: 3082628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3082628001	**MIX 37-3 INT 1**	EPA 3510	OEXT/13551	EPA 8270	MSSV/4627
3082628002	**MIX 37-4 INT 1**	EPA 3510	OEXT/13551	EPA 8270	MSSV/4627
3082628003	**MIX 37-6 INT 1**	EPA 3510	OEXT/13551	EPA 8270	MSSV/4627
3082628004	**MIX 37-8 INT 1**	EPA 3510	OEXT/13551	EPA 8270	MSSV/4627
3082628005	**MIX 37-11 INT 1**	EPA 3510	OEXT/13551	EPA 8270	MSSV/4627
3082628006	**MIX 37-12 INT 1**	EPA 3510	OEXT/13551	EPA 8270	MSSV/4627
3082628001	**MIX 37-3 INT 1**	EPA 8260	MSV/14683		
3082628002	**MIX 37-4 INT 1**	EPA 8260	MSV/14683		
3082628003	**MIX 37-6 INT 1**	EPA 8260	MSV/14683		
3082628004	**MIX 37-8 INT 1**	EPA 8260	MSV/14683		
3082628005	**MIX 37-11 INT 1**	EPA 8260	MSV/14683		
3082628006	**MIX 37-12 INT 1**	EPA 8260	MSV/14683		

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December 17, 2012

Mr. Bill Buccille
GeoCon
400 Penn Center Blvd.
Pittsburgh, PA 15235

RE: Project: North Albany, NY 12-037
Pace Project No.: 3083098

Dear Mr. Buccille:
Enclosed are the analytical results for sample(s) received by the laboratory on December 04, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE ANALYTE COUNT

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3083098001	**Mix 37-3-INT 5**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083098002	**Mix 37-4-INT 5**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083098003	**Mix 37-6-INT 5**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083098004	**Mix 37-8-INT 5**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083098005	**Mix 37-11-INT 5**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083098006	**Mix 37-12-INT 5**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 17, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/4657

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Workorder Comments:

Cooler temperature 10.7 ° C upon receipt. Ice was present.

Analyte Comments:

QC Batch: OEXT/13655

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 520691)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 17, 2012

Analyte Comments:

QC Batch: OEXT/13655

N2: The lab does not hold TNI accreditation for this parameter.

- LCS (Lab ID: 520692)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-11-INT 5 (Lab ID: 3083098005)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-12-INT 5 (Lab ID: 3083098006)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-3-INT 5 (Lab ID: 3083098001)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-4-INT 5 (Lab ID: 3083098002)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-6-INT 5 (Lab ID: 3083098003)
  - Azobenzene
  - 1-Methylnaphthalene
- Mix 37-8-INT 5 (Lab ID: 3083098004)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 17, 2012

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/14743

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- Mix 37-4-INT 5 (Lab ID: 3083098002)
  - 1,2-Dichloroethane-d4 (S)
- Mix 37-6-INT 5 (Lab ID: 3083098003)
  - 1,2-Dichloroethane-d4 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/14743

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3082906004

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 520151)
  - Bromomethane

R1: RPD value was outside control limits.

- MS (Lab ID: 520150)
  - Bromomethane

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 17, 2012

Additional Comments:

Workorder Comments:

Cooler temperature 10.7 ° C upon receipt. Ice was present.

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-3-INT 5 **Lab ID: 3083098001** Collected: 12/01/12 11:00 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**7.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	83-32-9	
Acenaphthylene	**1.8**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	208-96-8	
Anthracene	**1.5**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	207-08-9	
Benzoic acid	ND	ug/L	103	1	12/07/12 09:00	12/15/12 15:22	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	85-68-7	
Carbazole	**5.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	53-70-3	
Dibenzofuran	**2.8**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:22	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:22	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	117-81-7	
Fluoranthene	**1.4**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	206-44-0	
Fluorene	**4.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-3-INT 5 **Lab ID: 3083098001** Collected: 12/01/12 11:00 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	78-59-1	
1-Methylnaphthalene	**14.1**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	90-12-0	N2
2-Methylnaphthalene	**16.7**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	91-57-6	
2-Methylphenol(o-Cresol)	**3.0**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	95-48-7	
3&4-Methylphenol(m&p Cresol)	**3.2**	ug/L	2.1	1	12/07/12 09:00	12/15/12 15:22		
Naphthalene	**226**	ug/L	20.5	20	12/07/12 09:00	12/17/12 14:36	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:22	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:22	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:22	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:22	87-86-5	
Phenanthrene	**9.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	85-01-8	
Phenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	108-95-2	
Pyrene	**1.5**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:22	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:22	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	46	%	35-114	1	12/07/12 09:00	12/15/12 15:22	4165-60-0	
2-Fluorobiphenyl (S)	45	%	43-116	1	12/07/12 09:00	12/15/12 15:22	321-60-8	
Terphenyl-d14 (S)	78	%	33-141	1	12/07/12 09:00	12/15/12 15:22	1718-51-0	
Phenol-d6 (S)	21	%	10-110	1	12/07/12 09:00	12/15/12 15:22	13127-88-3	
2-Fluorophenol (S)	30	%	21-110	1	12/07/12 09:00	12/15/12 15:22	367-12-4	
2,4,6-Tribromophenol (S)	50	%	10-123	1	12/07/12 09:00	12/15/12 15:22	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/06/12 17:40	67-64-1	
Benzene	**15.5**	ug/L	1.0	1		12/06/12 17:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/06/12 17:40	74-97-5	
Bromodichloromethane	**10.6**	ug/L	1.0	1		12/06/12 17:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/06/12 17:40	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/06/12 17:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/06/12 17:40	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/06/12 17:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/06/12 17:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/06/12 17:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/06/12 17:40	75-00-3	
Chloroform	**16.9**	ug/L	1.0	1		12/06/12 17:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/06/12 17:40	74-87-3	
Dibromochloromethane	**6.7**	ug/L	1.0	1		12/06/12 17:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 17:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 17:40	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-3-INT 5 **Lab ID: 3083098001** Collected: 12/01/12 11:00 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 17:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/06/12 17:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/06/12 17:40	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/06/12 17:40	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/06/12 17:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 17:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 17:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/06/12 17:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 17:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 17:40	10061-02-6	
Ethylbenzene	**28.2**	ug/L	1.0	1		12/06/12 17:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/06/12 17:40	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/06/12 17:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/06/12 17:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/06/12 17:40	1634-04-4	
Styrene	**3.9**	ug/L	1.0	1		12/06/12 17:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/06/12 17:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/06/12 17:40	127-18-4	
Toluene	**17.6**	ug/L	1.0	1		12/06/12 17:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/06/12 17:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/06/12 17:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/06/12 17:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/06/12 17:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/06/12 17:40	75-01-4	
Xylene (Total)	**28.2**	ug/L	3.0	1		12/06/12 17:40	1330-20-7	
m&p-Xylene	**16.7**	ug/L	2.0	1		12/06/12 17:40	179601-23-1	
o-Xylene	**11.5**	ug/L	1.0	1		12/06/12 17:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	85-115	1		12/06/12 17:40	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	77-119	1		12/06/12 17:40	17060-07-0	
Toluene-d8 (S)	95	%	85-115	1		12/06/12 17:40	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-4-INT 5 **Lab ID: 3083098002** Collected: 12/01/12 11:05 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**11.9**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	83-32-9	
Acenaphthylene	**6.4**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	208-96-8	
Anthracene	**2.7**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	207-08-9	
Benzoic acid	ND	ug/L	103	1	12/07/12 09:00	12/15/12 15:44	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	85-68-7	
Carbazole	**8.4**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	53-70-3	
Dibenzofuran	**5.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	84-66-2	
2,4-Dimethylphenol	**2.7**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:44	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:44	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	117-81-7	
Fluoranthene	**2.7**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	206-44-0	
Fluorene	**7.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-4-INT 5 **Lab ID: 3083098002** Collected: 12/01/12 11:05 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	78-59-1	
1-Methylnaphthalene	**20.0**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	90-12-0	N2
2-Methylnaphthalene	**25.6**	ug/L	20.6	20	12/07/12 09:00	12/17/12 12:45	91-57-6	
2-Methylphenol(o-Cresol)	**1.9**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	**2.3**	ug/L	2.1	1	12/07/12 09:00	12/15/12 15:44		
Naphthalene	**284**	ug/L	20.6	20	12/07/12 09:00	12/17/12 12:45	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:44	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:44	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:44	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:44	87-86-5	
Phenanthrene	**17.0**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	85-01-8	
Phenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	108-95-2	
Pyrene	**2.6**	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 15:44	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 15:44	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	57	%	35-114	1	12/07/12 09:00	12/15/12 15:44	4165-60-0	
2-Fluorobiphenyl (S)	57	%	43-116	1	12/07/12 09:00	12/15/12 15:44	321-60-8	
Terphenyl-d14 (S)	83	%	33-141	1	12/07/12 09:00	12/15/12 15:44	1718-51-0	
Phenol-d6 (S)	28	%	10-110	1	12/07/12 09:00	12/15/12 15:44	13127-88-3	
2-Fluorophenol (S)	40	%	21-110	1	12/07/12 09:00	12/15/12 15:44	367-12-4	
2,4,6-Tribromophenol (S)	61	%	10-123	1	12/07/12 09:00	12/15/12 15:44	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/06/12 18:04	67-64-1	HS
Benzene	**9.4**	ug/L	1.0	1		12/06/12 18:04	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/06/12 18:04	74-97-5	
Bromodichloromethane	**10.7**	ug/L	1.0	1		12/06/12 18:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/06/12 18:04	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/06/12 18:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/06/12 18:04	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/06/12 18:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/06/12 18:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/06/12 18:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/06/12 18:04	75-00-3	
Chloroform	**13.6**	ug/L	1.0	1		12/07/12 12:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/06/12 18:04	74-87-3	
Dibromochloromethane	**6.7**	ug/L	1.0	1		12/06/12 18:04	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:04	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-4-INT 5 **Lab ID: 3083098002** Collected: 12/01/12 11:05 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:04	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/06/12 18:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/06/12 18:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/06/12 18:04	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/06/12 18:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 18:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 18:04	10061-02-6	
Ethylbenzene	**19.9**	ug/L	1.0	1		12/06/12 18:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/06/12 18:04	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/06/12 18:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/06/12 18:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/06/12 18:04	1634-04-4	
Styrene	**2.7**	ug/L	1.0	1		12/06/12 18:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/06/12 18:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/06/12 18:04	127-18-4	
Toluene	**10.7**	ug/L	1.0	1		12/06/12 18:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/06/12 18:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/06/12 18:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/06/12 18:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/06/12 18:04	75-01-4	
Xylene (Total)	**21.0**	ug/L	3.0	1		12/06/12 18:04	1330-20-7	
m&p-Xylene	**12.9**	ug/L	2.0	1		12/06/12 18:04	179601-23-1	
o-Xylene	**8.0**	ug/L	1.0	1		12/06/12 18:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	85-115	1		12/06/12 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	77-119	1		12/06/12 18:04	17060-07-0	S3
Toluene-d8 (S)	94	%	85-115	1		12/06/12 18:04	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-6-INT 5 **Lab ID: 3083098003** Collected: 12/01/12 11:10 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**9.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	83-32-9	
Acenaphthylene	**4.6**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	208-96-8	
Anthracene	**2.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	207-08-9	
Benzoic acid	ND	ug/L	104	1	12/07/12 09:00	12/15/12 16:06	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	53-70-3	
Dibenzofuran	**3.5**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	84-66-2	
2,4-Dimethylphenol	**1.7**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:06	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:06	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	117-81-7	
Fluoranthene	**2.5**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	206-44-0	
Fluorene	**5.5**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-6-INT 5 **Lab ID: 3083098003** Collected: 12/01/12 11:10 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	78-59-1	
1-Methylnaphthalene	**16.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	90-12-0	N2
2-Methylnaphthalene	**19.8**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	91-57-6	
2-Methylphenol(o-Cresol)	**1.1**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.1	1	12/07/12 09:00	12/15/12 16:06		
Naphthalene	**227**	ug/L	20.7	20	12/07/12 09:00	12/17/12 16:04	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:06	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:06	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:06	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:06	87-86-5	
Phenanthrene	**13.1**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	85-01-8	
Phenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	108-95-2	
Pyrene	**2.4**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:06	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:06	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49	%	35-114	1	12/07/12 09:00	12/15/12 16:06	4165-60-0	
2-Fluorobiphenyl (S)	47	%	43-116	1	12/07/12 09:00	12/15/12 16:06	321-60-8	
Terphenyl-d14 (S)	79	%	33-141	1	12/07/12 09:00	12/15/12 16:06	1718-51-0	
Phenol-d6 (S)	25	%	10-110	1	12/07/12 09:00	12/15/12 16:06	13127-88-3	
2-Fluorophenol (S)	35	%	21-110	1	12/07/12 09:00	12/15/12 16:06	367-12-4	
2,4,6-Tribromophenol (S)	52	%	10-123	1	12/07/12 09:00	12/15/12 16:06	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/06/12 18:29	67-64-1	HS
Benzene	**10.1**	ug/L	1.0	1		12/06/12 18:29	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/06/12 18:29	74-97-5	
Bromodichloromethane	**10.7**	ug/L	1.0	1		12/06/12 18:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/06/12 18:29	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/06/12 18:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/06/12 18:29	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/06/12 18:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/06/12 18:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/06/12 18:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/06/12 18:29	75-00-3	
Chloroform	**13.4**	ug/L	1.0	1		12/07/12 13:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/06/12 18:29	74-87-3	
Dibromochloromethane	**6.7**	ug/L	1.0	1		12/06/12 18:29	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:29	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-6-INT 5 **Lab ID: 3083098003** Collected: 12/01/12 11:10 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:29	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/06/12 18:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/06/12 18:29	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/06/12 18:29	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/06/12 18:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 18:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 18:29	10061-02-6	
Ethylbenzene	**22.3**	ug/L	1.0	1		12/06/12 18:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/06/12 18:29	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/06/12 18:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/06/12 18:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/06/12 18:29	1634-04-4	
Styrene	**2.9**	ug/L	1.0	1		12/06/12 18:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/06/12 18:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/06/12 18:29	127-18-4	
Toluene	**12.2**	ug/L	1.0	1		12/06/12 18:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/06/12 18:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/06/12 18:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/06/12 18:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/06/12 18:29	75-01-4	
Xylene (Total)	**22.0**	ug/L	3.0	1		12/06/12 18:29	1330-20-7	
m&p-Xylene	**13.7**	ug/L	2.0	1		12/06/12 18:29	179601-23-1	
o-Xylene	**8.4**	ug/L	1.0	1		12/06/12 18:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	85-115	1		12/06/12 18:29	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	77-119	1		12/06/12 18:29	17060-07-0	S3
Toluene-d8 (S)	96	%	85-115	1		12/06/12 18:29	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-8-INT 5 **Lab ID: 3083098004** Collected: 12/01/12 11:15 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**18.0**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	83-32-9	
Acenaphthylene	ND	ug/L	102	100	12/07/12 09:00	12/17/12 13:30	208-96-8	
Anthracene	**2.9**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/07/12 09:00	12/15/12 16:28	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	85-68-7	
Carbazole	**1.1**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/07/12 09:00	12/15/12 16:28	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/07/12 09:00	12/15/12 16:28	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	117-81-7	
Fluoranthene	**3.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	206-44-0	
Fluorene	**11.0**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-8-INT 5 **Lab ID: 3083098004** Collected: 12/01/12 11:15 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	78-59-1	
1-Methylnaphthalene	ND	ug/L	102	100	12/07/12 09:00	12/17/12 13:30	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	102	100	12/07/12 09:00	12/17/12 13:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/07/12 09:00	12/15/12 16:28		
Naphthalene	**964**	ug/L	102	100	12/07/12 09:00	12/17/12 13:30	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/07/12 09:00	12/15/12 16:28	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/07/12 09:00	12/15/12 16:28	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/07/12 09:00	12/15/12 16:28	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/07/12 09:00	12/15/12 16:28	87-86-5	
Phenanthrene	ND	ug/L	102	100	12/07/12 09:00	12/17/12 13:30	85-01-8	
Phenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	108-95-2	
Pyrene	**3.8**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/07/12 09:00	12/15/12 16:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:28	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49	%	35-114	1	12/07/12 09:00	12/15/12 16:28	4165-60-0	
2-Fluorobiphenyl (S)	41	%	43-116	1	12/07/12 09:00	12/15/12 16:28	321-60-8	
Terphenyl-d14 (S)	79	%	33-141	1	12/07/12 09:00	12/15/12 16:28	1718-51-0	
Phenol-d6 (S)	20	%	10-110	1	12/07/12 09:00	12/15/12 16:28	13127-88-3	
2-Fluorophenol (S)	31	%	21-110	1	12/07/12 09:00	12/15/12 16:28	367-12-4	
2,4,6-Tribromophenol (S)	55	%	10-123	1	12/07/12 09:00	12/15/12 16:28	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/06/12 18:53	67-64-1	
Benzene	**199**	ug/L	1.0	1		12/06/12 18:53	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/06/12 18:53	74-97-5	
Bromodichloromethane	**10.6**	ug/L	1.0	1		12/06/12 18:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/06/12 18:53	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/06/12 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/06/12 18:53	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/06/12 18:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/06/12 18:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/06/12 18:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/06/12 18:53	75-00-3	
Chloroform	**16.8**	ug/L	1.0	1		12/06/12 18:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/06/12 18:53	74-87-3	
Dibromochloromethane	**6.8**	ug/L	1.0	1		12/06/12 18:53	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:53	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-8-INT 5 **Lab ID: 3083098004** Collected: 12/01/12 11:15 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:53	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/06/12 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/06/12 18:53	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/06/12 18:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 18:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/06/12 18:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 18:53	10061-02-6	
Ethylbenzene	**130**	ug/L	1.0	1		12/06/12 18:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/06/12 18:53	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/06/12 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/06/12 18:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/06/12 18:53	1634-04-4	
Styrene	**17.9**	ug/L	1.0	1		12/06/12 18:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/06/12 18:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/06/12 18:53	127-18-4	
Toluene	**91.8**	ug/L	1.0	1		12/06/12 18:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/06/12 18:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/06/12 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/06/12 18:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/06/12 18:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/06/12 18:53	75-01-4	
Xylene (Total)	**62.3**	ug/L	3.0	1		12/06/12 18:53	1330-20-7	
m&p-Xylene	**43.6**	ug/L	2.0	1		12/06/12 18:53	179601-23-1	
o-Xylene	**18.7**	ug/L	1.0	1		12/06/12 18:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	85-115	1		12/06/12 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	77-119	1		12/06/12 18:53	17060-07-0	
Toluene-d8 (S)	96	%	85-115	1		12/06/12 18:53	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-11-INT 5 **Lab ID: 3083098005** Collected: 12/01/12 11:20 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	83-32-9	
Acenaphthylene	ND	ug/L	102	100	12/07/12 09:00	12/17/12 13:52	208-96-8	
Anthracene	**2.1**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/07/12 09:00	12/15/12 16:50	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	117-81-7	
Fluoranthene	**2.3**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	206-44-0	
Fluorene	**7.7**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-11-INT 5 **Lab ID: 3083098005** Collected: 12/01/12 11:20 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	78-59-1	
1-Methylnaphthalene	**17.9**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	102	100	12/07/12 09:00	12/17/12 13:52	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/07/12 09:00	12/15/12 16:50		
Naphthalene	**754**	ug/L	102	100	12/07/12 09:00	12/17/12 13:52	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:50	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:50	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:50	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:50	87-86-5	
Phenanthrene	**16.9**	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	85-01-8	
Phenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	108-95-2	
Pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 16:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 16:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	43	%	35-114	1	12/07/12 09:00	12/15/12 16:50	4165-60-0	
2-Fluorobiphenyl (S)	39	%	43-116	1	12/07/12 09:00	12/15/12 16:50	321-60-8	
Terphenyl-d14 (S)	74	%	33-141	1	12/07/12 09:00	12/15/12 16:50	1718-51-0	
Phenol-d6 (S)	17	%	10-110	1	12/07/12 09:00	12/15/12 16:50	13127-88-3	
2-Fluorophenol (S)	29	%	21-110	1	12/07/12 09:00	12/15/12 16:50	367-12-4	
2,4,6-Tribromophenol (S)	45	%	10-123	1	12/07/12 09:00	12/15/12 16:50	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/06/12 19:43	67-64-1	
Benzene	**144**	ug/L	1.0	1		12/06/12 19:43	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/06/12 19:43	74-97-5	
Bromodichloromethane	**10.9**	ug/L	1.0	1		12/06/12 19:43	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/06/12 19:43	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/06/12 19:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/06/12 19:43	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/06/12 19:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/06/12 19:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/06/12 19:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/06/12 19:43	75-00-3	
Chloroform	**16.5**	ug/L	1.0	1		12/06/12 19:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/06/12 19:43	74-87-3	
Dibromochloromethane	**6.9**	ug/L	1.0	1		12/06/12 19:43	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 19:43	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-11-INT 5 **Lab ID: 3083098005** Collected: 12/01/12 11:20 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 19:43	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/06/12 19:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/06/12 19:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/06/12 19:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/06/12 19:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 19:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 19:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/06/12 19:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 19:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 19:43	10061-02-6	
Ethylbenzene	**114**	ug/L	1.0	1		12/06/12 19:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/06/12 19:43	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/06/12 19:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/06/12 19:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/06/12 19:43	1634-04-4	
Styrene	**14.2**	ug/L	1.0	1		12/06/12 19:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/06/12 19:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/06/12 19:43	127-18-4	
Toluene	**74.6**	ug/L	1.0	1		12/06/12 19:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/06/12 19:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/06/12 19:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/06/12 19:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/06/12 19:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/06/12 19:43	75-01-4	
Xylene (Total)	**50.9**	ug/L	3.0	1		12/06/12 19:43	1330-20-7	
m&p-Xylene	**36.0**	ug/L	2.0	1		12/06/12 19:43	179601-23-1	
o-Xylene	**14.9**	ug/L	1.0	1		12/06/12 19:43	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	85-115	1		12/06/12 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	77-119	1		12/06/12 19:43	17060-07-0	
Toluene-d8 (S)	95	%	85-115	1		12/06/12 19:43	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-12-INT 5 **Lab ID: 3083098006** Collected: 12/01/12 11:25 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**12.9**	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	83-32-9	
Acenaphthylene	ND	ug/L	104	100	12/07/12 09:00	12/17/12 14:14	208-96-8	
Anthracene	**2.2**	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	207-08-9	
Benzoic acid	ND	ug/L	104	1	12/07/12 09:00	12/15/12 17:12	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 17:12	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 17:12	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	117-81-7	
Fluoranthene	**2.6**	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	206-44-0	
Fluorene	**8.0**	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-12-INT 5 **Lab ID: 3083098006** Collected: 12/01/12 11:25 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	78-59-1	
1-Methylnaphthalene	**16.1**	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	104	100	12/07/12 09:00	12/17/12 14:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.1	1	12/07/12 09:00	12/15/12 17:12		
Naphthalene	**626**	ug/L	104	100	12/07/12 09:00	12/17/12 14:14	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 17:12	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 17:12	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 17:12	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 17:12	87-86-5	
Phenanthrene	**18.5**	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	85-01-8	
Phenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	108-95-2	
Pyrene	**3.4**	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 09:00	12/15/12 17:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 09:00	12/15/12 17:12	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	44	%	35-114	1	12/07/12 09:00	12/15/12 17:12	4165-60-0	
2-Fluorobiphenyl (S)	44	%	43-116	1	12/07/12 09:00	12/15/12 17:12	321-60-8	
Terphenyl-d14 (S)	88	%	33-141	1	12/07/12 09:00	12/15/12 17:12	1718-51-0	
Phenol-d6 (S)	20	%	10-110	1	12/07/12 09:00	12/15/12 17:12	13127-88-3	
2-Fluorophenol (S)	31	%	21-110	1	12/07/12 09:00	12/15/12 17:12	367-12-4	
2,4,6-Tribromophenol (S)	57	%	10-123	1	12/07/12 09:00	12/15/12 17:12	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/06/12 20:32	67-64-1	
Benzene	**85.7**	ug/L	1.0	1		12/06/12 20:32	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/06/12 20:32	74-97-5	
Bromodichloromethane	**10.3**	ug/L	1.0	1		12/06/12 20:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/06/12 20:32	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/06/12 20:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/06/12 20:32	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/06/12 20:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/06/12 20:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/06/12 20:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/06/12 20:32	75-00-3	
Chloroform	**15.4**	ug/L	1.0	1		12/06/12 20:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/06/12 20:32	74-87-3	
Dibromochloromethane	**6.5**	ug/L	1.0	1		12/06/12 20:32	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 20:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 20:32	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Sample: Mix 37-12-INT 5 **Lab ID: 3083098006** Collected: 12/01/12 11:25 Received: 12/04/12 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/06/12 20:32	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/06/12 20:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/06/12 20:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/06/12 20:32	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/06/12 20:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 20:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/06/12 20:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/06/12 20:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 20:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/06/12 20:32	10061-02-6	
Ethylbenzene	**78.4**	ug/L	1.0	1		12/06/12 20:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/06/12 20:32	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/06/12 20:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/06/12 20:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/06/12 20:32	1634-04-4	
Styrene	**9.1**	ug/L	1.0	1		12/06/12 20:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/06/12 20:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/06/12 20:32	127-18-4	
Toluene	**47.6**	ug/L	1.0	1		12/06/12 20:32	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/06/12 20:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/06/12 20:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/06/12 20:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/06/12 20:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/06/12 20:32	75-01-4	
Xylene (Total)	**36.7**	ug/L	3.0	1		12/06/12 20:32	1330-20-7	
m&p-Xylene	**26.1**	ug/L	2.0	1		12/06/12 20:32	179601-23-1	
o-Xylene	**10.6**	ug/L	1.0	1		12/06/12 20:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	85-115	1		12/06/12 20:32	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	77-119	1		12/06/12 20:32	17060-07-0	
Toluene-d8 (S)	96	%	85-115	1		12/06/12 20:32	2037-26-5	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083098

QC Batch: MSV/14743 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3083098001, 3083098002, 3083098003, 3083098004, 3083098005, 3083098006

METHOD BLANK: 520148 Matrix: Water
Associated Lab Samples: 3083098001, 3083098002, 3083098003, 3083098004, 3083098005, 3083098006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/06/12 09:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/06/12 09:54	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/06/12 09:54	
1,1-Dichloroethane	ug/L	ND	1.0	12/06/12 09:54	
1,1-Dichloroethene	ug/L	ND	1.0	12/06/12 09:54	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/06/12 09:54	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/06/12 09:54	
1,2-Dichloroethane	ug/L	ND	1.0	12/06/12 09:54	
1,2-Dichloropropane	ug/L	ND	1.0	12/06/12 09:54	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/06/12 09:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/06/12 09:54	
2-Butanone (MEK)	ug/L	ND	10.0	12/06/12 09:54	
2-Hexanone	ug/L	ND	10.0	12/06/12 09:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/06/12 09:54	
Acetone	ug/L	ND	10.0	12/06/12 09:54	
Benzene	ug/L	ND	1.0	12/06/12 09:54	
Bromochloromethane	ug/L	ND	1.0	12/06/12 09:54	
Bromodichloromethane	ug/L	ND	1.0	12/06/12 09:54	
Bromoform	ug/L	ND	1.0	12/06/12 09:54	
Bromomethane	ug/L	ND	1.0	12/06/12 09:54	
Carbon disulfide	ug/L	ND	1.0	12/06/12 09:54	
Carbon tetrachloride	ug/L	ND	1.0	12/06/12 09:54	
Chlorobenzene	ug/L	ND	1.0	12/06/12 09:54	
Chloroethane	ug/L	ND	1.0	12/06/12 09:54	
Chloroform	ug/L	ND	1.0	12/06/12 09:54	
Chloromethane	ug/L	ND	1.0	12/06/12 09:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/06/12 09:54	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/06/12 09:54	
Dibromochloromethane	ug/L	ND	1.0	12/06/12 09:54	
Ethylbenzene	ug/L	ND	1.0	12/06/12 09:54	
m&p-Xylene	ug/L	ND	2.0	12/06/12 09:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/06/12 09:54	
Methylene Chloride	ug/L	ND	1.0	12/06/12 09:54	
o-Xylene	ug/L	ND	1.0	12/06/12 09:54	
Styrene	ug/L	ND	1.0	12/06/12 09:54	
Tetrachloroethene	ug/L	ND	1.0	12/06/12 09:54	
Toluene	ug/L	ND	1.0	12/06/12 09:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/06/12 09:54	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/06/12 09:54	
Trichloroethene	ug/L	ND	1.0	12/06/12 09:54	
Vinyl chloride	ug/L	ND	1.0	12/06/12 09:54	
Xylene (Total)	ug/L	ND	3.0	12/06/12 09:54	
1,2-Dichloroethane-d4 (S)	%	115	77-119	12/06/12 09:54	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083098

METHOD BLANK: 520148 Matrix: Water

Associated Lab Samples: 3083098001, 3083098002, 3083098003, 3083098004, 3083098005, 3083098006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	91	85-115	12/06/12 09:54	
Toluene-d8 (S)	%	96	85-115	12/06/12 09:54	

LABORATORY CONTROL SAMPLE: 520149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.2	106	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	17.1	86	61-117	
1,1,2-Trichloroethane	ug/L	20	17.8	89	72-119	
1,1-Dichloroethane	ug/L	20	19.9	100	63-123	
1,1-Dichloroethene	ug/L	20	23.4	117	57-127	
1,2,4-Trichlorobenzene	ug/L	20	18.3	91	52-138	
1,2-Dichlorobenzene	ug/L	20	18.3	91	70-116	
1,2-Dichloroethane	ug/L	20	20.7	103	62-125	
1,2-Dichloropropane	ug/L	20	16.9	84	69-115	
1,3-Dichlorobenzene	ug/L	20	18.4	92	71-118	
1,4-Dichlorobenzene	ug/L	20	18.2	91	67-119	
2-Butanone (MEK)	ug/L	20	20.0	100	48-136	
2-Hexanone	ug/L	20	19.6	98	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.6	93	57-124	
Acetone	ug/L	20	16.7	84	49-138	
Benzene	ug/L	20	16.2	81	66-122	
Bromochloromethane	ug/L	20	16.3	81	61-126	
Bromodichloromethane	ug/L	20	18.9	95	63-118	
Bromoform	ug/L	20	17.2	86	46-130	
Bromomethane	ug/L	20	13.5	68	10-175	
Carbon disulfide	ug/L	20	17.2	86	59-142	
Carbon tetrachloride	ug/L	20	20.5	102	55-126	
Chlorobenzene	ug/L	20	18.0	90	70-121	
Chloroethane	ug/L	20	19.3	96	24-161	
Chloroform	ug/L	20	18.5	93	62-126	
Chloromethane	ug/L	20	17.8	89	37-147	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	64-121	
cis-1,3-Dichloropropene	ug/L	20	19.5	97	64-118	
Dibromochloromethane	ug/L	20	18.4	92	60-120	
Ethylbenzene	ug/L	20	18.8	94	69-119	
m&p-Xylene	ug/L	40	38.2	96	70-124	
Methyl-tert-butyl ether	ug/L	20	19.3	96	58-131	
Methylene Chloride	ug/L	20	18.6	93	59-128	
o-Xylene	ug/L	20	18.5	93	67-123	
Styrene	ug/L	20	19.0	95	67-146	
Tetrachloroethene	ug/L	20	17.0	85	62-125	
Toluene	ug/L	20	17.4	87	72-115	
trans-1,2-Dichloroethene	ug/L	20	19.5	98	59-122	
trans-1,3-Dichloropropene	ug/L	20	18.9	94	64-120	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083098

LABORATORY CONTROL SAMPLE: 520149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	17.0	85	62-125	
Vinyl chloride	ug/L	20	18.0	90	52-145	
Xylene (Total)	ug/L	60	56.7	95	70-123	
1,2-Dichloroethane-d4 (S)	%			117	77-119	
4-Bromofluorobenzene (S)	%			92	85-115	
Toluene-d8 (S)	%			96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 520150 520151

Parameter	Units	3082906004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	21.2	22.4	106	112	62-125	6	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.2	14.9	71	75	61-117	5	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.5	17.1	83	86	72-119	3	
1,1-Dichloroethane	ug/L	ND	20	20	19.0	20.5	95	102	63-123	8	
1,1-Dichloroethene	ug/L	ND	20	20	21.4	23.9	107	120	57-127	11	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.7	15.8	78	79	52-138	.7	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.0	17.4	85	87	70-116	2	
1,2-Dichloroethane	ug/L	ND	20	20	19.2	21.1	96	105	62-125	9	
1,2-Dichloropropane	ug/L	ND	20	20	15.5	16.3	77	81	69-115	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.1	17.8	86	89	71-118	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.7	17.3	83	87	67-119	4	
2-Butanone (MEK)	ug/L	ND	20	20	16.1	16.8	81	84	48-136	4	
2-Hexanone	ug/L	ND	20	20	15.7	17.1	78	85	52-130	8	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.8	16.7	79	83	57-124	5	
Acetone	ug/L	ND	20	20	13.0	12.8	65	64	49-138	2	
Benzene	ug/L	ND	20	20	15.2	16.0	76	80	66-122	5	
Bromochloromethane	ug/L	ND	20	20	16.9	17.8	85	89	61-126	5	
Bromodichloromethane	ug/L	ND	20	20	16.7	17.7	84	89	63-118	6	
Bromoform	ug/L	ND	20	20	14.7	16.0	73	80	46-130	8	
Bromomethane	ug/L	ND	20	20	10.2	15.1	51	75	10-175	39	M0,R1
Carbon disulfide	ug/L	ND	20	20	13.8	15.4	69	77	59-142	11	
Carbon tetrachloride	ug/L	ND	20	20	21.1	21.6	106	108	55-126	2	
Chlorobenzene	ug/L	ND	20	20	17.0	17.9	85	89	70-121	5	
Chloroethane	ug/L	ND	20	20	16.7	19.9	84	99	24-161	17	
Chloroform	ug/L	ND	20	20	17.6	19.7	88	98	62-126	11	
Chloromethane	ug/L	ND	20	20	15.1	15.9	75	80	37-147	5	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.5	19.8	92	99	64-121	7	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.9	18.8	90	94	64-118	5	
Dibromochloromethane	ug/L	ND	20	20	16.5	17.2	83	86	60-120	4	
Ethylbenzene	ug/L	ND	20	20	17.7	18.6	88	93	69-119	5	
m&p-Xylene	ug/L	ND	40	40	36.4	38.6	91	97	70-124	6	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.5	19.6	87	98	58-131	11	
Methylene Chloride	ug/L	ND	20	20	15.8	17.3	79	86	59-128	9	
o-Xylene	ug/L	ND	20	20	17.7	18.8	89	94	67-123	6	
Styrene	ug/L	ND	20	20	18.6	19.8	93	99	67-146	6	
Tetrachloroethene	ug/L	ND	20	20	15.8	16.3	79	82	62-125	3	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083098

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 520150 520151

Parameter	Units	3082906004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Toluene	ug/L	ND	20	20	16.6	17.5	83	87	72-115	5	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.1	20.2	91	101	59-122	11	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.5	18.6	87	93	64-120	6	
Trichloroethene	ug/L	ND	20	20	16.8	17.5	84	88	62-125	4	
Vinyl chloride	ug/L	ND	20	20	16.4	16.7	82	84	52-145	2	
Xylene (Total)	ug/L	ND	60	60	54.1	57.4	90	96	70-123	6	
1,2-Dichloroethane-d4 (S)	%						112	117	77-119		
4-Bromofluorobenzene (S)	%						88	88	85-115		
Toluene-d8 (S)	%						96	95	85-115		

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083098

QC Batch: OEXT/13655 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 3083098001, 3083098002, 3083098003, 3083098004, 3083098005, 3083098006

METHOD BLANK: 520691 Matrix: Water
Associated Lab Samples: 3083098001, 3083098002, 3083098003, 3083098004, 3083098005, 3083098006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
1-Methylnaphthalene	ug/L	ND	1.0	12/10/12 17:09	N2
2,4,5-Trichlorophenol	ug/L	ND	2.5	12/10/12 17:09	
2,4,6-Trichlorophenol	ug/L	ND	1.0	12/10/12 17:09	
2,4-Dichlorophenol	ug/L	ND	1.0	12/10/12 17:09	
2,4-Dimethylphenol	ug/L	ND	1.0	12/10/12 17:09	
2,4-Dinitrophenol	ug/L	ND	2.5	12/10/12 17:09	
2,4-Dinitrotoluene	ug/L	ND	1.0	12/10/12 17:09	
2,6-Dinitrotoluene	ug/L	ND	1.0	12/10/12 17:09	
2-Chloronaphthalene	ug/L	ND	1.0	12/10/12 17:09	
2-Chlorophenol	ug/L	ND	1.0	12/10/12 17:09	
2-Methylnaphthalene	ug/L	ND	1.0	12/10/12 17:09	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	12/10/12 17:09	
2-Nitroaniline	ug/L	ND	2.5	12/10/12 17:09	
2-Nitrophenol	ug/L	ND	1.0	12/10/12 17:09	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	12/10/12 17:09	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	12/10/12 17:09	
3-Nitroaniline	ug/L	ND	2.5	12/10/12 17:09	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	12/10/12 17:09	
4-Bromophenylphenyl ether	ug/L	ND	1.0	12/10/12 17:09	
4-Chloro-3-methylphenol	ug/L	ND	1.0	12/10/12 17:09	
4-Chloroaniline	ug/L	ND	1.0	12/10/12 17:09	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	12/10/12 17:09	
4-Nitroaniline	ug/L	ND	2.5	12/10/12 17:09	
4-Nitrophenol	ug/L	ND	1.0	12/10/12 17:09	
Acenaphthene	ug/L	ND	1.0	12/10/12 17:09	
Acenaphthylene	ug/L	ND	1.0	12/10/12 17:09	
Anthracene	ug/L	ND	1.0	12/10/12 17:09	
Azobenzene	ug/L	ND	1.0	12/10/12 17:09	N2
Benzo(a)anthracene	ug/L	ND	1.0	12/10/12 17:09	
Benzo(a)pyrene	ug/L	ND	1.0	12/10/12 17:09	
Benzo(b)fluoranthene	ug/L	ND	1.0	12/10/12 17:09	
Benzo(g,h,i)perylene	ug/L	ND	1.0	12/10/12 17:09	
Benzo(k)fluoranthene	ug/L	ND	1.0	12/10/12 17:09	
Benzoic acid	ug/L	ND	100	12/10/12 17:09	
Benzyl alcohol	ug/L	ND	1.0	12/10/12 17:09	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	12/10/12 17:09	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	12/10/12 17:09	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	12/10/12 17:09	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	12/10/12 17:09	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083098

METHOD BLANK: 520691 Matrix: Water

Associated Lab Samples: 3083098001, 3083098002, 3083098003, 3083098004, 3083098005, 3083098006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Carbazole	ug/L	ND	1.0	12/10/12 17:09	
Chrysene	ug/L	ND	1.0	12/10/12 17:09	
Di-n-butylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Di-n-octylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Dibenz(a,h)anthracene	ug/L	ND	1.0	12/10/12 17:09	
Dibenzofuran	ug/L	ND	1.0	12/10/12 17:09	
Diethylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Dimethylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Fluoranthene	ug/L	ND	1.0	12/10/12 17:09	
Fluorene	ug/L	ND	1.0	12/10/12 17:09	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/10/12 17:09	
Hexachlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
Hexachlorocyclopentadiene	ug/L	ND	1.0	12/10/12 17:09	
Hexachloroethane	ug/L	ND	1.0	12/10/12 17:09	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	12/10/12 17:09	
Isophorone	ug/L	ND	1.0	12/10/12 17:09	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	12/10/12 17:09	
N-Nitrosodimethylamine	ug/L	ND	1.0	12/10/12 17:09	
N-Nitrosodiphenylamine	ug/L	ND	1.0	12/10/12 17:09	
Naphthalene	ug/L	ND	1.0	12/10/12 17:09	
Nitrobenzene	ug/L	ND	1.0	12/10/12 17:09	
Pentachlorophenol	ug/L	ND	2.5	12/10/12 17:09	
Phenanthrene	ug/L	ND	1.0	12/10/12 17:09	
Phenol	ug/L	ND	1.0	12/10/12 17:09	
Pyrene	ug/L	ND	1.0	12/10/12 17:09	
2,4,6-Tribromophenol (S)	%	62	10-123	12/10/12 17:09	
2-Fluorobiphenyl (S)	%	65	43-116	12/10/12 17:09	
2-Fluorophenol (S)	%	41	21-110	12/10/12 17:09	
Nitrobenzene-d5 (S)	%	62	35-114	12/10/12 17:09	
Phenol-d6 (S)	%	27	10-110	12/10/12 17:09	
Terphenyl-d14 (S)	%	86	33-141	12/10/12 17:09	

LABORATORY CONTROL SAMPLE: 520692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	5	3.4	67	12-105	
1,2-Dichlorobenzene	ug/L		ND			
1,3-Dichlorobenzene	ug/L		ND			
1,4-Dichlorobenzene	ug/L	5	3.4	67	10-95	
1-Methylnaphthalene	ug/L	5	3.9	77	15-106	N2
2,4,5-Trichlorophenol	ug/L		ND			
2,4,6-Trichlorophenol	ug/L		ND			
2,4-Dichlorophenol	ug/L		ND			
2,4-Dimethylphenol	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083098

LABORATORY CONTROL SAMPLE: 520692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L		ND			
2,4-Dinitrotoluene	ug/L	5	3.1	62	10-133	
2,6-Dinitrotoluene	ug/L		ND			
2-Chloronaphthalene	ug/L		ND			
2-Chlorophenol	ug/L	5	3.8	76	10-111	
2-Methylnaphthalene	ug/L	5	3.5	70	10-98	
2-Methylphenol(o-Cresol)	ug/L		ND			
2-Nitroaniline	ug/L		ND			
2-Nitrophenol	ug/L		ND			
3&4-Methylphenol(m&p Cresol)	ug/L		ND			
3,3'-Dichlorobenzidine	ug/L		ND			
3-Nitroaniline	ug/L		ND			
4,6-Dinitro-2-methylphenol	ug/L		ND			
4-Bromophenylphenyl ether	ug/L		ND			
4-Chloro-3-methylphenol	ug/L	5	4.1	83	10-129	
4-Chloroaniline	ug/L		ND			
4-Chlorophenylphenyl ether	ug/L		ND			
4-Nitroaniline	ug/L		ND			
4-Nitrophenol	ug/L	5	1.7	33	10-54	
Acenaphthene	ug/L	5	3.6	72	12-123	
Acenaphthylene	ug/L	5	3.5	70	11-131	
Anthracene	ug/L	5	3.7	75	11-135	
Azobenzene	ug/L		ND			N2
Benzo(a)anthracene	ug/L	5	4.3	86	24-138	
Benzo(a)pyrene	ug/L	5	4.4	87	20-136	
Benzo(b)fluoranthene	ug/L	5	4.5	89	19-147	
Benzo(g,h,i)perylene	ug/L	5	4.7	95	11-156	
Benzo(k)fluoranthene	ug/L	5	4.8	95	22-154	
Benzoic acid	ug/L		ND			
Benzyl alcohol	ug/L		ND			
bis(2-Chloroethoxy)methane	ug/L		ND			
bis(2-Chloroethyl) ether	ug/L		ND			
bis(2-Chloroisopropyl) ether	ug/L		ND			
bis(2-Ethylhexyl)phthalate	ug/L		ND			
Butylbenzylphthalate	ug/L		ND			
Carbazole	ug/L		ND			
Chrysene	ug/L	5	4.5	90	14-158	
Di-n-butylphthalate	ug/L		ND			
Di-n-octylphthalate	ug/L		ND			
Dibenz(a,h)anthracene	ug/L	5	4.3	86	13-154	
Dibenzofuran	ug/L		ND			
Diethylphthalate	ug/L		ND			
Dimethylphthalate	ug/L		ND			
Fluoranthene	ug/L	5	3.7	74	20-135	
Fluorene	ug/L	5	3.5	70	11-128	
Hexachloro-1,3-butadiene	ug/L		ND			
Hexachlorobenzene	ug/L		ND			
Hexachlorocyclopentadiene	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083098

LABORATORY CONTROL SAMPLE: 520692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L		ND			
Indeno(1,2,3-cd)pyrene	ug/L	5	4.3	85	15-148	
Isophorone	ug/L		ND			
N-Nitroso-di-n-propylamine	ug/L	5	4.1	82	10-136	
N-Nitrosodimethylamine	ug/L		ND			
N-Nitrosodiphenylamine	ug/L		ND			
Naphthalene	ug/L	5	3.6	72	12-116	
Nitrobenzene	ug/L		ND			
Pentachlorophenol	ug/L	5	3.6	72	13-129	
Phenanthrene	ug/L	5	3.9	77	13-134	
Phenol	ug/L	5	1.7	34	10-47	
Pyrene	ug/L	5	4.3	87	10-158	
2,4,6-Tribromophenol (S)	%			74	10-123	
2-Fluorobiphenyl (S)	%			76	43-116	
2-Fluorophenol (S)	%			50	21-110	
Nitrobenzene-d5 (S)	%			74	35-114	
Phenol-d6 (S)	%			32	10-110	
Terphenyl-d14 (S)	%			108	33-141	

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QUALIFIERS

Project: North Albany, NY 12-037
Pace Project No.: 3083098

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

WORKORDER QUALIFIERS

WO: 3083098

[1]	Cooler temperature 10.7 ° C upon receipt. Ice was present.

BATCH QUALIFIERS

Batch: OEXT/13655

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: North Albany, NY 12-037
Pace Project No.: 3083098

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3083098001	**Mix 37-3-INT 5**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083098002	**Mix 37-4-INT 5**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083098003	**Mix 37-6-INT 5**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083098004	**Mix 37-8-INT 5**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083098005	**Mix 37-11-INT 5**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083098006	**Mix 37-12-INT 5**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083098001	**Mix 37-3-INT 5**	EPA 8260	MSV/14743		
3083098002	**Mix 37-4-INT 5**	EPA 8260	MSV/14743		
3083098003	**Mix 37-6-INT 5**	EPA 8260	MSV/14743		
3083098004	**Mix 37-8-INT 5**	EPA 8260	MSV/14743		
3083098005	**Mix 37-11-INT 5**	EPA 8260	MSV/14743		
3083098006	**Mix 37-12-INT 5**	EPA 8260	MSV/14743		

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December 14, 2012

Mr. Bill Buccille
GeoCon
400 Penn Center Blvd.
Pittsburgh, PA 15235

RE: Project: North Albany, NY 12-037
Pace Project No.: 3083659

Dear Mr. Buccille:
Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE ANALYTE COUNT

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3083659001	**Mix 37-3 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659002	**Mix 37-4 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659003	**Mix 37-6 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659004	**Mix 37-8 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659005	**Mix 37-11 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659006	**Mix 37-12 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 14, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/4672

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Workorder Comments:

Cooler temperature 11.3 ° C upon receipt. Ice was present.

Analyte Comments:

QC Batch: OEXT/13729

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 523172)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 14, 2012

Analyte Comments:

QC Batch: OEXT/13729

N2: The lab does not hold TNI accreditation for this parameter.

- LCS (Lab ID: 523173)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-11 Int 15 (Lab ID: 3083659005)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-12 Int 15 (Lab ID: 3083659006)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-3 Int 15 (Lab ID: 3083659001)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-4 Int 15 (Lab ID: 3083659002)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-6 Int 15 (Lab ID: 3083659003)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-8 Int 15 (Lab ID: 3083659004)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 14, 2012

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MSV/14821

B: Analyte was detected in the associated method blank.
- BLANK (Lab ID: 523196)
  - Methylene Chloride

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/14821

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Workorder Comments:

Cooler temperature 11.3 ° C upon receipt. Ice was present.

Analyte Comments:

QC Batch: MSV/14821

C9: Common Laboratory Contaminant.
- BLANK (Lab ID: 523196)
  - Methylene Chloride

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 14, 2012

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-3 Int 15 **Lab ID: 3083659001** Collected: 12/11/12 11:00 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**10.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	83-32-9	
Acenaphthylene	**5.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	208-96-8	
Anthracene	**2.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	207-08-9	
Benzoic acid	ND	ug/L	101	1	12/13/12 08:00	12/13/12 15:41	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	85-68-7	
Carbazole	**7.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	53-70-3	
Dibenzofuran	**4.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	84-66-2	
2,4-Dimethylphenol	**5.7**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	117-81-7	
Fluoranthene	**2.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	206-44-0	
Fluorene	**6.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-3 Int 15 **Lab ID: 3083659001** Collected: 12/11/12 11:00 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	78-59-1	
1-Methylnaphthalene	**18.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	90-12-0	N2
2-Methylnaphthalene	**21.8**	ug/L	20.2	20	12/13/12 08:00	12/14/12 09:08	91-57-6	
2-Methylphenol(o-Cresol)	**3.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	**4.2**	ug/L	2.0	1	12/13/12 08:00	12/13/12 15:41		
Naphthalene	**276**	ug/L	20.2	20	12/13/12 08:00	12/14/12 09:08	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	87-86-5	
Phenanthrene	**12.4**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	85-01-8	
Phenol	**1.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	108-95-2	
Pyrene	**2.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	71	%	35-114	1	12/13/12 08:00	12/13/12 15:41	4165-60-0	
2-Fluorobiphenyl (S)	68	%	43-116	1	12/13/12 08:00	12/13/12 15:41	321-60-8	
Terphenyl-d14 (S)	114	%	33-141	1	12/13/12 08:00	12/13/12 15:41	1718-51-0	
Phenol-d6 (S)	30	%	10-110	1	12/13/12 08:00	12/13/12 15:41	13127-88-3	
2-Fluorophenol (S)	46	%	21-110	1	12/13/12 08:00	12/13/12 15:41	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-123	1	12/13/12 08:00	12/13/12 15:41	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 21:24	67-64-1	
Benzene	**14.3**	ug/L	1.0	1		12/12/12 21:24	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 21:24	74-97-5	
Bromodichloromethane	**11.9**	ug/L	1.0	1		12/12/12 21:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 21:24	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 21:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 21:24	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 21:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 21:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 21:24	75-00-3	
Chloroform	**19.3**	ug/L	1.0	1		12/12/12 21:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 21:24	74-87-3	
Dibromochloromethane	**5.1**	ug/L	1.0	1		12/12/12 21:24	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-3 Int 15 **Lab ID: 3083659001** Collected: 12/11/12 11:00 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 21:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 21:24	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 21:24	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 21:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 21:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 21:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 21:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 21:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 21:24	10061-02-6	
Ethylbenzene	**25.8**	ug/L	1.0	1		12/12/12 21:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 21:24	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 21:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 21:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 21:24	1634-04-4	
Styrene	**3.9**	ug/L	1.0	1		12/12/12 21:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 21:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 21:24	127-18-4	
Toluene	**16.4**	ug/L	1.0	1		12/12/12 21:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 21:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 21:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 21:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 21:24	75-01-4	
Xylene (Total)	**26.2**	ug/L	3.0	1		12/12/12 21:24	1330-20-7	
m&p-Xylene	**15.2**	ug/L	2.0	1		12/12/12 21:24	179601-23-1	
o-Xylene	**11.0**	ug/L	1.0	1		12/12/12 21:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		12/12/12 21:24	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	77-119	1		12/12/12 21:24	17060-07-0	
Toluene-d8 (S)	94	%	85-115	1		12/12/12 21:24	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-4 Int 15 **Lab ID: 3083659002** Collected: 12/11/12 11:05 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**4.3**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	208-96-8	
Anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 16:03	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	85-68-7	
Carbazole	**2.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	117-81-7	
Fluoranthene	**1.3**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	206-44-0	
Fluorene	**2.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-4 Int 15 **Lab ID: 3083659002** Collected: 12/11/12 11:05 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 16:03		
Naphthalene	**3.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	87-86-5	
Phenanthrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	108-95-2	
Pyrene	**2.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	35-114	1	12/13/12 08:00	12/13/12 16:03	4165-60-0	
2-Fluorobiphenyl (S)	63	%	43-116	1	12/13/12 08:00	12/13/12 16:03	321-60-8	
Terphenyl-d14 (S)	131	%	33-141	1	12/13/12 08:00	12/13/12 16:03	1718-51-0	
Phenol-d6 (S)	23	%	10-110	1	12/13/12 08:00	12/13/12 16:03	13127-88-3	
2-Fluorophenol (S)	40	%	21-110	1	12/13/12 08:00	12/13/12 16:03	367-12-4	
2,4,6-Tribromophenol (S)	80	%	10-123	1	12/13/12 08:00	12/13/12 16:03	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 22:02	67-64-1	
Benzene	**4.5**	ug/L	1.0	1		12/12/12 22:02	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 22:02	74-97-5	
Bromodichloromethane	**12.0**	ug/L	1.0	1		12/12/12 22:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 22:02	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 22:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 22:02	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 22:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 22:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 22:02	75-00-3	
Chloroform	**19.7**	ug/L	1.0	1		12/12/12 22:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 22:02	74-87-3	
Dibromochloromethane	**5.2**	ug/L	1.0	1		12/12/12 22:02	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-4 Int 15 **Lab ID: 3083659002** Collected: 12/11/12 11:05 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:02	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 22:02	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 22:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:02	10061-02-6	
Ethylbenzene	**6.9**	ug/L	1.0	1		12/12/12 22:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 22:02	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 22:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 22:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 22:02	1634-04-4	
Styrene	ND	ug/L	1.0	1		12/12/12 22:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 22:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 22:02	127-18-4	
Toluene	**4.1**	ug/L	1.0	1		12/12/12 22:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 22:02	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 22:02	75-01-4	
Xylene (Total)	**6.7**	ug/L	3.0	1		12/12/12 22:02	1330-20-7	
m&p-Xylene	**4.0**	ug/L	2.0	1		12/12/12 22:02	179601-23-1	
o-Xylene	**2.7**	ug/L	1.0	1		12/12/12 22:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	85-115	1		12/12/12 22:02	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	77-119	1		12/12/12 22:02	17060-07-0	
Toluene-d8 (S)	91	%	85-115	1		12/12/12 22:02	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-6 Int 15 **Lab ID: 3083659003** Collected: 12/11/12 11:10 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**4.7**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	83-32-9	
Acenaphthylene	**1.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	208-96-8	
Anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 16:25	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	117-81-7	
Fluoranthene	**1.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	206-44-0	
Fluorene	**2.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-6 Int 15 **Lab ID: 3083659003** Collected: 12/11/12 11:10 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	78-59-1	
1-Methylnaphthalene	**2.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	90-12-0	N2
2-Methylnaphthalene	**2.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 16:25		
Naphthalene	**14.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	87-86-5	
Phenanthrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	108-95-2	
Pyrene	**2.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	59	%	35-114	1	12/13/12 08:00	12/13/12 16:25	4165-60-0	
2-Fluorobiphenyl (S)	56	%	43-116	1	12/13/12 08:00	12/13/12 16:25	321-60-8	
Terphenyl-d14 (S)	100	%	33-141	1	12/13/12 08:00	12/13/12 16:25	1718-51-0	
Phenol-d6 (S)	24	%	10-110	1	12/13/12 08:00	12/13/12 16:25	13127-88-3	
2-Fluorophenol (S)	38	%	21-110	1	12/13/12 08:00	12/13/12 16:25	367-12-4	
2,4,6-Tribromophenol (S)	65	%	10-123	1	12/13/12 08:00	12/13/12 16:25	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 22:28	67-64-1	
Benzene	**4.8**	ug/L	1.0	1		12/12/12 22:28	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 22:28	74-97-5	
Bromodichloromethane	**12.3**	ug/L	1.0	1		12/12/12 22:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 22:28	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 22:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 22:28	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 22:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 22:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 22:28	75-00-3	
Chloroform	**19.6**	ug/L	1.0	1		12/12/12 22:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 22:28	74-87-3	
Dibromochloromethane	**5.5**	ug/L	1.0	1		12/12/12 22:28	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-6 Int 15 **Lab ID: 3083659003** Collected: 12/11/12 11:10 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:28	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 22:28	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 22:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:28	10061-02-6	
Ethylbenzene	**8.8**	ug/L	1.0	1		12/12/12 22:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 22:28	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 22:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 22:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 22:28	1634-04-4	
Styrene	ND	ug/L	1.0	1		12/12/12 22:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 22:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 22:28	127-18-4	
Toluene	**5.4**	ug/L	1.0	1		12/12/12 22:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 22:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 22:28	75-01-4	
Xylene (Total)	**8.4**	ug/L	3.0	1		12/12/12 22:28	1330-20-7	
m&p-Xylene	**5.2**	ug/L	2.0	1		12/12/12 22:28	179601-23-1	
o-Xylene	**3.2**	ug/L	1.0	1		12/12/12 22:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		12/12/12 22:28	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	77-119	1		12/12/12 22:28	17060-07-0	
Toluene-d8 (S)	91	%	85-115	1		12/12/12 22:28	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-8 Int 15 **Lab ID: 3083659004** Collected: 12/11/12 11:15 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**18.4**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	83-32-9	
Acenaphthylene	ND	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	208-96-8	
Anthracene	**3.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 16:46	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	85-68-7	
Carbazole	**1.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	53-70-3	
Dibenzofuran	**1.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	117-81-7	
Fluoranthene	**3.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	206-44-0	
Fluorene	**10.3**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-8 Int 15 **Lab ID: 3083659004** Collected: 12/11/12 11:15 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	78-59-1	
1-Methylnaphthalene	ND	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 16:46		
Naphthalene	**637**	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	87-86-5	
Phenanthrene	ND	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	108-95-2	
Pyrene	**4.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	35-114	1	12/13/12 08:00	12/13/12 16:46	4165-60-0	
2-Fluorobiphenyl (S)	61	%	43-116	1	12/13/12 08:00	12/13/12 16:46	321-60-8	
Terphenyl-d14 (S)	107	%	33-141	1	12/13/12 08:00	12/13/12 16:46	1718-51-0	
Phenol-d6 (S)	24	%	10-110	1	12/13/12 08:00	12/13/12 16:46	13127-88-3	
2-Fluorophenol (S)	40	%	21-110	1	12/13/12 08:00	12/13/12 16:46	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-123	1	12/13/12 08:00	12/13/12 16:46	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 22:55	67-64-1	
Benzene	**171**	ug/L	1.0	1		12/12/12 22:55	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 22:55	74-97-5	
Bromodichloromethane	**11.6**	ug/L	1.0	1		12/12/12 22:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 22:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 22:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 22:55	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 22:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 22:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 22:55	75-00-3	
Chloroform	**19.1**	ug/L	1.0	1		12/12/12 22:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 22:55	74-87-3	
Dibromochloromethane	**5.0**	ug/L	1.0	1		12/12/12 22:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-8 Int 15 **Lab ID: 3083659004** Collected: 12/11/12 11:15 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 22:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 22:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:55	10061-02-6	
Ethylbenzene	**97.5**	ug/L	1.0	1		12/12/12 22:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 22:55	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 22:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 22:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 22:55	1634-04-4	
Styrene	**13.1**	ug/L	1.0	1		12/12/12 22:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 22:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 22:55	127-18-4	
Toluene	**75.7**	ug/L	1.0	1		12/12/12 22:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 22:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 22:55	75-01-4	
Xylene (Total)	**43.6**	ug/L	3.0	1		12/12/12 22:55	1330-20-7	
m&p-Xylene	**30.2**	ug/L	2.0	1		12/12/12 22:55	179601-23-1	
o-Xylene	**13.3**	ug/L	1.0	1		12/12/12 22:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		12/12/12 22:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-119	1		12/12/12 22:55	17060-07-0	
Toluene-d8 (S)	92	%	85-115	1		12/12/12 22:55	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-11 Int 15 **Lab ID: 3083659005** Collected: 12/11/12 11:20 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**15.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	83-32-9	
Acenaphthylene	ND	ug/L	20.4	20	12/13/12 08:00	12/14/12 09:52	208-96-8	
Anthracene	**1.9**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 17:08	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	117-81-7	
Fluoranthene	**2.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	206-44-0	
Fluorene	**7.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-11 Int 15 **Lab ID: 3083659005** Collected: 12/11/12 11:20 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	78-59-1	
1-Methylnaphthalene	**12.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	90-12-0	N2
2-Methylnaphthalene	**14.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 17:08		
Naphthalene	**354**	ug/L	20.4	20	12/13/12 08:00	12/14/12 09:52	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	87-86-5	
Phenanthrene	**8.4**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	108-95-2	
Pyrene	**4.4**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	58	%	35-114	1	12/13/12 08:00	12/13/12 17:08	4165-60-0	
2-Fluorobiphenyl (S)	59	%	43-116	1	12/13/12 08:00	12/13/12 17:08	321-60-8	
Terphenyl-d14 (S)	111	%	33-141	1	12/13/12 08:00	12/13/12 17:08	1718-51-0	
Phenol-d6 (S)	25	%	10-110	1	12/13/12 08:00	12/13/12 17:08	13127-88-3	
2-Fluorophenol (S)	24	%	21-110	1	12/13/12 08:00	12/13/12 17:08	367-12-4	
2,4,6-Tribromophenol (S)	68	%	10-123	1	12/13/12 08:00	12/13/12 17:08	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 23:21	67-64-1	
Benzene	**129**	ug/L	1.0	1		12/12/12 23:21	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 23:21	74-97-5	
Bromodichloromethane	**12.7**	ug/L	1.0	1		12/12/12 23:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 23:21	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 23:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 23:21	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 23:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 23:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 23:21	75-00-3	
Chloroform	**20.5**	ug/L	1.0	1		12/12/12 23:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 23:21	74-87-3	
Dibromochloromethane	**5.4**	ug/L	1.0	1		12/12/12 23:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-11 Int 15 **Lab ID: 3083659005** Collected: 12/11/12 11:20 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 23:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 23:21	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 23:21	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 23:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 23:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 23:21	10061-02-6	
Ethylbenzene	**84.3**	ug/L	1.0	1		12/12/12 23:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 23:21	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 23:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 23:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 23:21	1634-04-4	
Styrene	**9.1**	ug/L	1.0	1		12/12/12 23:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 23:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 23:21	127-18-4	
Toluene	**57.4**	ug/L	1.0	1		12/12/12 23:21	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 23:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 23:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 23:21	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 23:21	75-01-4	
Xylene (Total)	**35.0**	ug/L	3.0	1		12/12/12 23:21	1330-20-7	
m&p-Xylene	**24.7**	ug/L	2.0	1		12/12/12 23:21	179601-23-1	
o-Xylene	**10.2**	ug/L	1.0	1		12/12/12 23:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	85-115	1		12/12/12 23:21	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	77-119	1		12/12/12 23:21	17060-07-0	
Toluene-d8 (S)	91	%	85-115	1		12/12/12 23:21	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-12 Int 15 **Lab ID: 3083659006** Collected: 12/11/12 11:25 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**12.3**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	83-32-9	
Acenaphthylene	**18.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	208-96-8	
Anthracene	**1.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 17:30	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	117-81-7	
Fluoranthene	**2.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	206-44-0	
Fluorene	**6.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-12 Int 15 **Lab ID: 3083659006** Collected: 12/11/12 11:25 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	78-59-1	
1-Methylnaphthalene	**10.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	90-12-0	N2
2-Methylnaphthalene	**13.9**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 17:30		
Naphthalene	**299**	ug/L	20.3	20	12/13/12 08:00	12/14/12 10:14	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	87-86-5	
Phenanthrene	**8.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	108-95-2	
Pyrene	**3.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	66	%	35-114	1	12/13/12 08:00	12/13/12 17:30	4165-60-0	
2-Fluorobiphenyl (S)	65	%	43-116	1	12/13/12 08:00	12/13/12 17:30	321-60-8	
Terphenyl-d14 (S)	115	%	33-141	1	12/13/12 08:00	12/13/12 17:30	1718-51-0	
Phenol-d6 (S)	28	%	10-110	1	12/13/12 08:00	12/13/12 17:30	13127-88-3	
2-Fluorophenol (S)	43	%	21-110	1	12/13/12 08:00	12/13/12 17:30	367-12-4	
2,4,6-Tribromophenol (S)	77	%	10-123	1	12/13/12 08:00	12/13/12 17:30	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 23:48	67-64-1	
Benzene	**71.8**	ug/L	1.0	1		12/12/12 23:48	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 23:48	74-97-5	
Bromodichloromethane	**11.2**	ug/L	1.0	1		12/12/12 23:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 23:48	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 23:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 23:48	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 23:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 23:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 23:48	75-00-3	
Chloroform	**19.2**	ug/L	1.0	1		12/12/12 23:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 23:48	74-87-3	
Dibromochloromethane	**5.3**	ug/L	1.0	1		12/12/12 23:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-12 Int 15 **Lab ID: 3083659006** Collected: 12/11/12 11:25 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 23:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 23:48	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 23:48	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 23:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 23:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 23:48	10061-02-6	
Ethylbenzene	**45.1**	ug/L	1.0	1		12/12/12 23:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 23:48	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 23:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 23:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 23:48	1634-04-4	
Styrene	**5.2**	ug/L	1.0	1		12/12/12 23:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 23:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 23:48	127-18-4	
Toluene	**31.0**	ug/L	1.0	1		12/12/12 23:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 23:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 23:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 23:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 23:48	75-01-4	
Xylene (Total)	**21.2**	ug/L	3.0	1		12/12/12 23:48	1330-20-7	
m&p-Xylene	**14.9**	ug/L	2.0	1		12/12/12 23:48	179601-23-1	
o-Xylene	**6.3**	ug/L	1.0	1		12/12/12 23:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	85-115	1		12/12/12 23:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-119	1		12/12/12 23:48	17060-07-0	
Toluene-d8 (S)	93	%	85-115	1		12/12/12 23:48	2037-26-5	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

QC Batch: MSV/14821 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

METHOD BLANK: 523196 Matrix: Water
Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,1-Dichloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,1-Dichloroethene	ug/L	ND	1.0	12/12/12 16:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
1,2-Dichloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,2-Dichloropropane	ug/L	ND	1.0	12/12/12 16:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
2-Butanone (MEK)	ug/L	ND	10.0	12/12/12 16:31	
2-Hexanone	ug/L	ND	10.0	12/12/12 16:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/12/12 16:31	
Acetone	ug/L	ND	10.0	12/12/12 16:31	
Benzene	ug/L	ND	1.0	12/12/12 16:31	
Bromochloromethane	ug/L	ND	1.0	12/12/12 16:31	
Bromodichloromethane	ug/L	ND	1.0	12/12/12 16:31	
Bromoform	ug/L	ND	1.0	12/12/12 16:31	
Bromomethane	ug/L	ND	1.0	12/12/12 16:31	
Carbon disulfide	ug/L	ND	1.0	12/12/12 16:31	
Carbon tetrachloride	ug/L	ND	1.0	12/12/12 16:31	
Chlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
Chloroethane	ug/L	ND	1.0	12/12/12 16:31	
Chloroform	ug/L	ND	1.0	12/12/12 16:31	
Chloromethane	ug/L	ND	1.0	12/12/12 16:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/12/12 16:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/12/12 16:31	
Dibromochloromethane	ug/L	ND	1.0	12/12/12 16:31	
Ethylbenzene	ug/L	ND	1.0	12/12/12 16:31	
m&p-Xylene	ug/L	ND	2.0	12/12/12 16:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/12/12 16:31	
Methylene Chloride	ug/L	1.2	1.0	12/12/12 16:31	B,C9
o-Xylene	ug/L	ND	1.0	12/12/12 16:31	
Styrene	ug/L	ND	1.0	12/12/12 16:31	
Tetrachloroethene	ug/L	ND	1.0	12/12/12 16:31	
Toluene	ug/L	ND	1.0	12/12/12 16:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/12/12 16:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/12/12 16:31	
Trichloroethene	ug/L	ND	1.0	12/12/12 16:31	
Vinyl chloride	ug/L	ND	1.0	12/12/12 16:31	
Xylene (Total)	ug/L	ND	3.0	12/12/12 16:31	
1,2-Dichloroethane-d4 (S)	%	100	77-119	12/12/12 16:31	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

METHOD BLANK: 523196 Matrix: Water

Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	97	85-115	12/12/12 16:31	
Toluene-d8 (S)	%	95	85-115	12/12/12 16:31	

LABORATORY CONTROL SAMPLE: 523197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.9	104	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	100	61-117	
1,1,2-Trichloroethane	ug/L	20	20.6	103	72-119	
1,1-Dichloroethane	ug/L	20	21.3	107	63-123	
1,1-Dichloroethene	ug/L	20	20.7	104	57-127	
1,2,4-Trichlorobenzene	ug/L	20	17.9	90	52-138	
1,2-Dichlorobenzene	ug/L	20	19.6	98	70-116	
1,2-Dichloroethane	ug/L	20	20.4	102	62-125	
1,2-Dichloropropane	ug/L	20	20.3	101	69-115	
1,3-Dichlorobenzene	ug/L	20	20.3	101	71-118	
1,4-Dichlorobenzene	ug/L	20	19.6	98	67-119	
2-Butanone (MEK)	ug/L	20	22.1	110	48-136	
2-Hexanone	ug/L	20	21.2	106	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.9	109	57-124	
Acetone	ug/L	20	19.0	95	49-138	
Benzene	ug/L	20	20.4	102	66-122	
Bromochloromethane	ug/L	20	20.0	100	61-126	
Bromodichloromethane	ug/L	20	19.8	99	63-118	
Bromoform	ug/L	20	19.9	100	46-130	
Bromomethane	ug/L	20	23.0	115	10-175	
Carbon disulfide	ug/L	20	24.4	122	59-142	
Carbon tetrachloride	ug/L	20	20.2	101	55-126	
Chlorobenzene	ug/L	20	20.7	103	70-121	
Chloroethane	ug/L	20	18.6	93	24-161	
Chloroform	ug/L	20	18.9	94	62-126	
Chloromethane	ug/L	20	17.9	89	37-147	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	64-121	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	64-118	
Dibromochloromethane	ug/L	20	20.2	101	60-120	
Ethylbenzene	ug/L	20	20.5	103	69-119	
m&p-Xylene	ug/L	40	42.3	106	70-124	
Methyl-tert-butyl ether	ug/L	20	20.3	102	58-131	
Methylene Chloride	ug/L	20	21.5	108	59-128	
o-Xylene	ug/L	20	21.8	109	67-123	
Styrene	ug/L	20	21.9	110	67-146	
Tetrachloroethene	ug/L	20	19.2	96	62-125	
Toluene	ug/L	20	20.0	100	72-115	
trans-1,2-Dichloroethene	ug/L	20	21.1	105	59-122	
trans-1,3-Dichloropropene	ug/L	20	20.9	104	64-120	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

LABORATORY CONTROL SAMPLE: 523197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	19.1	96	62-125	
Vinyl chloride	ug/L	20	17.6	88	52-145	
Xylene (Total)	ug/L	60	64.1	107	70-123	
1,2-Dichloroethane-d4 (S)	%			101	77-119	
4-Bromofluorobenzene (S)	%			101	85-115	
Toluene-d8 (S)	%			97	85-115	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

QC Batch: OEXT/13729 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

METHOD BLANK: 523172 Matrix: Water
Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
1-Methylnaphthalene	ug/L	ND	1.0	12/13/12 14:57	N2
2,4,5-Trichlorophenol	ug/L	ND	2.5	12/13/12 14:57	
2,4,6-Trichlorophenol	ug/L	ND	1.0	12/13/12 14:57	
2,4-Dichlorophenol	ug/L	ND	1.0	12/13/12 14:57	
2,4-Dimethylphenol	ug/L	ND	1.0	12/13/12 14:57	
2,4-Dinitrophenol	ug/L	ND	2.5	12/13/12 14:57	
2,4-Dinitrotoluene	ug/L	ND	1.0	12/13/12 14:57	
2,6-Dinitrotoluene	ug/L	ND	1.0	12/13/12 14:57	
2-Chloronaphthalene	ug/L	ND	1.0	12/13/12 14:57	
2-Chlorophenol	ug/L	ND	1.0	12/13/12 14:57	
2-Methylnaphthalene	ug/L	ND	1.0	12/13/12 14:57	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	12/13/12 14:57	
2-Nitroaniline	ug/L	ND	2.5	12/13/12 14:57	
2-Nitrophenol	ug/L	ND	1.0	12/13/12 14:57	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	12/13/12 14:57	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	12/13/12 14:57	
3-Nitroaniline	ug/L	ND	2.5	12/13/12 14:57	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	12/13/12 14:57	
4-Bromophenylphenyl ether	ug/L	ND	1.0	12/13/12 14:57	
4-Chloro-3-methylphenol	ug/L	ND	1.0	12/13/12 14:57	
4-Chloroaniline	ug/L	ND	1.0	12/13/12 14:57	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	12/13/12 14:57	
4-Nitroaniline	ug/L	ND	2.5	12/13/12 14:57	
4-Nitrophenol	ug/L	ND	1.0	12/13/12 14:57	
Acenaphthene	ug/L	ND	1.0	12/13/12 14:57	
Acenaphthylene	ug/L	ND	1.0	12/13/12 14:57	
Anthracene	ug/L	ND	1.0	12/13/12 14:57	
Azobenzene	ug/L	ND	1.0	12/13/12 14:57	N2
Benzo(a)anthracene	ug/L	ND	1.0	12/13/12 14:57	
Benzo(a)pyrene	ug/L	ND	1.0	12/13/12 14:57	
Benzo(b)fluoranthene	ug/L	ND	1.0	12/13/12 14:57	
Benzo(g,h,i)perylene	ug/L	ND	1.0	12/13/12 14:57	
Benzo(k)fluoranthene	ug/L	ND	1.0	12/13/12 14:57	
Benzoic acid	ug/L	ND	100	12/13/12 14:57	
Benzyl alcohol	ug/L	ND	1.0	12/13/12 14:57	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	12/13/12 14:57	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	12/13/12 14:57	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	12/13/12 14:57	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	12/13/12 14:57	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

METHOD BLANK: 523172 Matrix: Water

Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Carbazole	ug/L	ND	1.0	12/13/12 14:57	
Chrysene	ug/L	ND	1.0	12/13/12 14:57	
Di-n-butylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Di-n-octylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Dibenz(a,h)anthracene	ug/L	ND	1.0	12/13/12 14:57	
Dibenzofuran	ug/L	ND	1.0	12/13/12 14:57	
Diethylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Dimethylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Fluoranthene	ug/L	ND	1.0	12/13/12 14:57	
Fluorene	ug/L	ND	1.0	12/13/12 14:57	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/13/12 14:57	
Hexachlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
Hexachlorocyclopentadiene	ug/L	ND	1.0	12/13/12 14:57	
Hexachloroethane	ug/L	ND	1.0	12/13/12 14:57	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	12/13/12 14:57	
Isophorone	ug/L	ND	1.0	12/13/12 14:57	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	12/13/12 14:57	
N-Nitrosodimethylamine	ug/L	ND	1.0	12/13/12 14:57	
N-Nitrosodiphenylamine	ug/L	ND	1.0	12/13/12 14:57	
Naphthalene	ug/L	ND	1.0	12/13/12 14:57	
Nitrobenzene	ug/L	ND	1.0	12/13/12 14:57	
Pentachlorophenol	ug/L	ND	2.5	12/13/12 14:57	
Phenanthrene	ug/L	ND	1.0	12/13/12 14:57	
Phenol	ug/L	ND	1.0	12/13/12 14:57	
Pyrene	ug/L	ND	1.0	12/13/12 14:57	
2,4,6-Tribromophenol (S)	%	72	10-123	12/13/12 14:57	
2-Fluorobiphenyl (S)	%	62	43-116	12/13/12 14:57	
2-Fluorophenol (S)	%	37	21-110	12/13/12 14:57	
Nitrobenzene-d5 (S)	%	59	35-114	12/13/12 14:57	
Phenol-d6 (S)	%	22	10-110	12/13/12 14:57	
Terphenyl-d14 (S)	%	106	33-141	12/13/12 14:57	

LABORATORY CONTROL SAMPLE: 523173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	5	2.9	58	12-105	
1,2-Dichlorobenzene	ug/L		ND			
1,3-Dichlorobenzene	ug/L		ND			
1,4-Dichlorobenzene	ug/L	5	2.9	57	10-95	
1-Methylnaphthalene	ug/L	5	3.3	66	15-106	N2
2,4,5-Trichlorophenol	ug/L		ND			
2,4,6-Trichlorophenol	ug/L		ND			
2,4-Dichlorophenol	ug/L		ND			
2,4-Dimethylphenol	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

LABORATORY CONTROL SAMPLE: 523173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L		ND			
2,4-Dinitrotoluene	ug/L	5	3.1	62	10-133	
2,6-Dinitrotoluene	ug/L		ND			
2-Chloronaphthalene	ug/L		ND			
2-Chlorophenol	ug/L	5	3.1	63	10-111	
2-Methylnaphthalene	ug/L	5	2.9	59	10-98	
2-Methylphenol(o-Cresol)	ug/L		ND			
2-Nitroaniline	ug/L		ND			
2-Nitrophenol	ug/L		ND			
3&4-Methylphenol(m&p Cresol)	ug/L		ND			
3,3'-Dichlorobenzidine	ug/L		ND			
3-Nitroaniline	ug/L		ND			
4,6-Dinitro-2-methylphenol	ug/L		ND			
4-Bromophenylphenyl ether	ug/L		ND			
4-Chloro-3-methylphenol	ug/L	5	3.4	67	10-129	
4-Chloroaniline	ug/L		ND			
4-Chlorophenylphenyl ether	ug/L		ND			
4-Nitroaniline	ug/L		ND			
4-Nitrophenol	ug/L	5	1.5	30	10-54	
Acenaphthene	ug/L	5	3.3	66	12-123	
Acenaphthylene	ug/L	5	3.3	65	11-131	
Anthracene	ug/L	5	3.6	71	11-135	
Azobenzene	ug/L		ND			N2
Benzo(a)anthracene	ug/L	5	3.8	76	24-138	
Benzo(a)pyrene	ug/L	5	3.9	78	20-136	
Benzo(b)fluoranthene	ug/L	5	4.2	85	19-147	
Benzo(g,h,i)perylene	ug/L	5	3.0	60	11-156	
Benzo(k)fluoranthene	ug/L	5	4.3	86	22-154	
Benzoic acid	ug/L		ND			
Benzyl alcohol	ug/L		ND			
bis(2-Chloroethoxy)methane	ug/L		ND			
bis(2-Chloroethyl) ether	ug/L		ND			
bis(2-Chloroisopropyl) ether	ug/L		ND			
bis(2-Ethylhexyl)phthalate	ug/L		ND			
Butylbenzylphthalate	ug/L		ND			
Carbazole	ug/L		ND			
Chrysene	ug/L	5	4.1	81	14-158	
Di-n-butylphthalate	ug/L		ND			
Di-n-octylphthalate	ug/L		ND			
Dibenz(a,h)anthracene	ug/L	5	3.4	67	13-154	
Dibenzofuran	ug/L		ND			
Diethylphthalate	ug/L		ND			
Dimethylphthalate	ug/L		ND			
Fluoranthene	ug/L	5	3.9	78	20-135	
Fluorene	ug/L	5	3.5	69	11-128	
Hexachloro-1,3-butadiene	ug/L		ND			
Hexachlorobenzene	ug/L		ND			
Hexachlorocyclopentadiene	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

LABORATORY CONTROL SAMPLE: 523173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L		ND			
Indeno(1,2,3-cd)pyrene	ug/L	5	3.2	64	15-148	
Isophorone	ug/L		ND			
N-Nitroso-di-n-propylamine	ug/L	5	3.5	69	10-136	
N-Nitrosodimethylamine	ug/L		ND			
N-Nitrosodiphenylamine	ug/L		ND			
Naphthalene	ug/L	5	3.2	63	12-116	
Nitrobenzene	ug/L		ND			
Pentachlorophenol	ug/L	5	3.0	60	13-129	
Phenanthrene	ug/L	5	3.6	71	13-134	
Phenol	ug/L	5	1.2	24	10-47	
Pyrene	ug/L	5	3.9	77	10-158	
2,4,6-Tribromophenol (S)	%			70	10-123	
2-Fluorobiphenyl (S)	%			62	43-116	
2-Fluorophenol (S)	%			39	21-110	
Nitrobenzene-d5 (S)	%			61	35-114	
Phenol-d6 (S)	%			24	10-110	
Terphenyl-d14 (S)	%			94	33-141	

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QUALIFIERS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

WORKORDER QUALIFIERS

WO: 3083659

[1] Cooler temperature 11.3 ° C upon receipt. Ice was present.

BATCH QUALIFIERS

Batch: OEXT/13729

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/14821

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C9 Common Laboratory Contaminant.

N2 The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3083659001	**Mix 37-3 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659002	**Mix 37-4 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659003	**Mix 37-6 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659004	**Mix 37-8 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659005	**Mix 37-11 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659006	**Mix 37-12 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659001	**Mix 37-3 Int 15**	EPA 8260	MSV/14821		
3083659002	**Mix 37-4 Int 15**	EPA 8260	MSV/14821		
3083659003	**Mix 37-6 Int 15**	EPA 8260	MSV/14821		
3083659004	**Mix 37-8 Int 15**	EPA 8260	MSV/14821		
3083659005	**Mix 37-11 Int 15**	EPA 8260	MSV/14821		
3083659006	**Mix 37-12 Int 15**	EPA 8260	MSV/14821		

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(724)850-5600

December 11, 2012

Mr. Bill Buccille
GeoCon
400 Penn Center Blvd.
Pittsburgh, PA 15235

RE: Project: North Albany, NY 12-037
Pace Project No.: 3083325

Dear Mr. Buccille:
Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE ANALYTE COUNT

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3083325001	**Mix 37-3 INT 10**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083325002	**Mix 37-4 INT 10**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083325003	**Mix 37-6 INT 10**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083325004	**Mix 37-8 INT 10**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083325005	**Mix 37-11 INT 10**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083325006	**Mix 37-12 INT 10**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 11, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/13655

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Mix 37-11 INT 10 (Lab ID: 3083325005)
  - 2,4,6-Tribromophenol (S)
  - 2-Fluorobiphenyl (S)
  - 2-Fluorophenol (S)
  - Nitrobenzene-d5 (S)
  - Phenol-d6 (S)
  - Terphenyl-d14 (S)
- Mix 37-12 INT 10 (Lab ID: 3083325006)
  - 2,4,6-Tribromophenol (S)
  - 2-Fluorobiphenyl (S)
  - 2-Fluorophenol (S)
  - Nitrobenzene-d5 (S)
  - Phenol-d6 (S)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 11, 2012

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/4657

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/13655

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- Mix 37-8 INT 10 (Lab ID: 3083325004)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthylene
  - Phenanthrene

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 520691)
  - 1-Methylnaphthalene
  - Azobenzene
- LCS (Lab ID: 520692)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-11 INT 10 (Lab ID: 3083325005)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-12 INT 10 (Lab ID: 3083325006)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-3 INT 10 (Lab ID: 3083325001)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-4 INT 10 (Lab ID: 3083325002)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-6 INT 10 (Lab ID: 3083325003)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-8 INT 10 (Lab ID: 3083325004)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 11, 2012

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/14776

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- BLANK (Lab ID: 521333)
  - 1,2-Dichloroethane-d4 (S)
- Mix 37-6 INT 10 (Lab ID: 3083325003)
  - 1,2-Dichloroethane-d4 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-3 INT 10 **Lab ID: 3083325001** Collected: 12/06/12 11:00 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**8.2**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	83-32-9	
Acenaphthylene	**4.4**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	208-96-8	
Anthracene	**1.5**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	207-08-9	
Benzoic acid	ND	ug/L	104	1	12/07/12 13:30	12/10/12 19:21	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	85-68-7	
Carbazole	**6.1**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	53-70-3	
Dibenzofuran	**2.9**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	84-66-2	
2,4-Dimethylphenol	**8.3**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:21	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:21	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	117-81-7	
Fluoranthene	**1.2**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	206-44-0	
Fluorene	**4.3**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-3 INT 10 **Lab ID: 3083325001** Collected: 12/06/12 11:00 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	78-59-1	
1-Methylnaphthalene	**15.6**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	90-12-0	N2
2-Methylnaphthalene	**18.0**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	91-57-6	
2-Methylphenol(o-Cresol)	**6.0**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	**6.5**	ug/L	2.1	1	12/07/12 13:30	12/10/12 19:21		
Naphthalene	**202**	ug/L	20.7	20	12/07/12 13:30	12/11/12 11:01	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:21	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:21	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:21	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:21	87-86-5	
Phenanthrene	**9.5**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	85-01-8	
Phenol	**1.8**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	108-95-2	
Pyrene	**1.7**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:21	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:21	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	68	%	35-114	1	12/07/12 13:30	12/10/12 19:21	4165-60-0	
2-Fluorobiphenyl (S)	72	%	43-116	1	12/07/12 13:30	12/10/12 19:21	321-60-8	
Terphenyl-d14 (S)	98	%	33-141	1	12/07/12 13:30	12/10/12 19:21	1718-51-0	
Phenol-d6 (S)	32	%	10-110	1	12/07/12 13:30	12/10/12 19:21	13127-88-3	
2-Fluorophenol (S)	47	%	21-110	1	12/07/12 13:30	12/10/12 19:21	367-12-4	
2,4,6-Tribromophenol (S)	76	%	10-123	1	12/07/12 13:30	12/10/12 19:21	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/07/12 17:52	67-64-1	HS
Benzene	**14.8**	ug/L	1.0	1		12/07/12 17:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/07/12 17:52	74-97-5	
Bromodichloromethane	**13.7**	ug/L	1.0	1		12/07/12 17:52	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/07/12 17:52	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/07/12 17:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/12 17:52	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/07/12 17:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/12 17:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/12 17:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/12 17:52	75-00-3	
Chloroform	**25.1**	ug/L	1.0	1		12/07/12 17:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/12 17:52	74-87-3	
Dibromochloromethane	**8.2**	ug/L	1.0	1		12/07/12 17:52	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 17:52	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-3 INT 10 **Lab ID: 3083325001** Collected: 12/06/12 11:00 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 17:52	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/12 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/12 17:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/07/12 17:52	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/12 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/12 17:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 17:52	10061-02-6	
Ethylbenzene	**27.1**	ug/L	1.0	1		12/07/12 17:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/07/12 17:52	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/07/12 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/12 17:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/12 17:52	1634-04-4	
Styrene	**4.1**	ug/L	1.0	1		12/07/12 17:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/12 17:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/12 17:52	127-18-4	
Toluene	**17.3**	ug/L	1.0	1		12/07/12 17:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/12 17:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/12 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/12 17:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/12 17:52	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/07/12 17:52	75-01-4	
Xylene (Total)	**26.8**	ug/L	3.0	1		12/07/12 17:52	1330-20-7	
m&p-Xylene	**15.7**	ug/L	2.0	1		12/07/12 17:52	179601-23-1	
o-Xylene	**11.0**	ug/L	1.0	1		12/07/12 17:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	85-115	1		12/07/12 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	77-119	1		12/07/12 17:52	17060-07-0	
Toluene-d8 (S)	93	%	85-115	1		12/07/12 17:52	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-4 INT 10 **Lab ID: 3083325002** Collected: 12/06/12 11:05 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**6.7**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	83-32-9	
Acenaphthylene	**3.3**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	208-96-8	
Anthracene	**1.5**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/07/12 13:30	12/10/12 19:43	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	85-68-7	
Carbazole	**4.1**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	53-70-3	
Dibenzofuran	**2.5**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:43	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:43	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	117-81-7	
Fluoranthene	**1.4**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	206-44-0	
Fluorene	**3.9**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-4 INT 10 **Lab ID: 3083325002** Collected: 12/06/12 11:05 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	78-59-1	
1-Methylnaphthalene	**8.5**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	90-12-0	N2
2-Methylnaphthalene	**10.1**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/07/12 13:30	12/10/12 19:43		
Naphthalene	**69.8**	ug/L	10.2	10	12/07/12 13:30	12/11/12 11:23	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:43	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:43	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:43	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:43	87-86-5	
Phenanthrene	**5.4**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	85-01-8	
Phenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	108-95-2	
Pyrene	**2.2**	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 19:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 19:43	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	57	%	35-114	1	12/07/12 13:30	12/10/12 19:43	4165-60-0	
2-Fluorobiphenyl (S)	60	%	43-116	1	12/07/12 13:30	12/10/12 19:43	321-60-8	
Terphenyl-d14 (S)	100	%	33-141	1	12/07/12 13:30	12/10/12 19:43	1718-51-0	
Phenol-d6 (S)	24	%	10-110	1	12/07/12 13:30	12/10/12 19:43	13127-88-3	
2-Fluorophenol (S)	36	%	21-110	1	12/07/12 13:30	12/10/12 19:43	367-12-4	
2,4,6-Tribromophenol (S)	66	%	10-123	1	12/07/12 13:30	12/10/12 19:43	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/07/12 18:17	67-64-1	
Benzene	**4.2**	ug/L	1.0	1		12/07/12 18:17	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/07/12 18:17	74-97-5	
Bromodichloromethane	**14.2**	ug/L	1.0	1		12/07/12 18:17	75-27-4	
Bromoform	**4.5**	ug/L	1.0	1		12/07/12 18:17	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/07/12 18:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/12 18:17	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/07/12 18:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/12 18:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/12 18:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/12 18:17	75-00-3	
Chloroform	**26.7**	ug/L	1.0	1		12/07/12 18:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/12 18:17	74-87-3	
Dibromochloromethane	**8.3**	ug/L	1.0	1		12/07/12 18:17	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 18:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 18:17	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-4 INT 10 **Lab ID: 3083325002** Collected: 12/06/12 11:05 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 18:17	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/12 18:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/12 18:17	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/07/12 18:17	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/12 18:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 18:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 18:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/12 18:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 18:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 18:17	10061-02-6	
Ethylbenzene	**8.5**	ug/L	1.0	1		12/07/12 18:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/07/12 18:17	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/07/12 18:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/12 18:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/12 18:17	1634-04-4	
Styrene	**1.2**	ug/L	1.0	1		12/07/12 18:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/12 18:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/12 18:17	127-18-4	
Toluene	**5.1**	ug/L	1.0	1		12/07/12 18:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/12 18:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/12 18:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/12 18:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/12 18:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/07/12 18:17	75-01-4	
Xylene (Total)	**11.4**	ug/L	3.0	1		12/07/12 18:17	1330-20-7	
m&p-Xylene	**7.0**	ug/L	2.0	1		12/07/12 18:17	179601-23-1	
o-Xylene	**4.4**	ug/L	1.0	1		12/07/12 18:17	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	85-115	1		12/07/12 18:17	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	77-119	1		12/07/12 18:17	17060-07-0	
Toluene-d8 (S)	92	%	85-115	1		12/07/12 18:17	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-6 INT 10 **Lab ID: 3083325003** Collected: 12/06/12 11:10 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**7.7**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	83-32-9	
Acenaphthylene	**3.6**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	208-96-8	
Anthracene	**1.7**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/07/12 13:30	12/10/12 20:05	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	85-68-7	
Carbazole	**4.0**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	53-70-3	
Dibenzofuran	**2.8**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:05	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:05	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	117-81-7	
Fluoranthene	**1.2**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	206-44-0	
Fluorene	**4.7**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-6 INT 10 **Lab ID: 3083325003** Collected: 12/06/12 11:10 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	78-59-1	
1-Methylnaphthalene	**9.1**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	90-12-0	N2
2-Methylnaphthalene	**11.7**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/07/12 13:30	12/10/12 20:05		
Naphthalene	**91.3**	ug/L	10.2	10	12/07/12 13:30	12/11/12 11:45	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:05	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:05	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:05	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:05	87-86-5	
Phenanthrene	**5.8**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	85-01-8	
Phenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	108-95-2	
Pyrene	**2.2**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	58	%	35-114	1	12/07/12 13:30	12/10/12 20:05	4165-60-0	
2-Fluorobiphenyl (S)	65	%	43-116	1	12/07/12 13:30	12/10/12 20:05	321-60-8	
Terphenyl-d14 (S)	98	%	33-141	1	12/07/12 13:30	12/10/12 20:05	1718-51-0	
Phenol-d6 (S)	24	%	10-110	1	12/07/12 13:30	12/10/12 20:05	13127-88-3	
2-Fluorophenol (S)	38	%	21-110	1	12/07/12 13:30	12/10/12 20:05	367-12-4	
2,4,6-Tribromophenol (S)	70	%	10-123	1	12/07/12 13:30	12/10/12 20:05	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/07/12 19:06	67-64-1	
Benzene	**6.8**	ug/L	1.0	1		12/07/12 19:06	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/07/12 19:06	74-97-5	
Bromodichloromethane	**14.5**	ug/L	1.0	1		12/07/12 19:06	75-27-4	
Bromoform	**4.6**	ug/L	1.0	1		12/07/12 19:06	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/07/12 19:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/12 19:06	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/07/12 19:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/12 19:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/12 19:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/12 19:06	75-00-3	
Chloroform	**23.7**	ug/L	1.0	1		12/10/12 23:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/12 19:06	74-87-3	
Dibromochloromethane	**8.3**	ug/L	1.0	1		12/07/12 19:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:06	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-6 INT 10 **Lab ID: 3083325003** Collected: 12/06/12 11:10 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/12 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/12 19:06	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/07/12 19:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/12 19:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 19:06	10061-02-6	
Ethylbenzene	**13.4**	ug/L	1.0	1		12/07/12 19:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/07/12 19:06	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/07/12 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/12 19:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/12 19:06	1634-04-4	
Styrene	**1.7**	ug/L	1.0	1		12/07/12 19:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/12 19:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/12 19:06	127-18-4	
Toluene	**10.4**	ug/L	1.0	1		12/07/12 19:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/12 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/12 19:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/12 19:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/07/12 19:06	75-01-4	
Xylene (Total)	**15.5**	ug/L	3.0	1		12/07/12 19:06	1330-20-7	
m&p-Xylene	**10.1**	ug/L	2.0	1		12/07/12 19:06	179601-23-1	
o-Xylene	**5.4**	ug/L	1.0	1		12/07/12 19:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	85-115	1		12/07/12 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	126	%	77-119	1		12/07/12 19:06	17060-07-0	S3
Toluene-d8 (S)	94	%	85-115	1		12/07/12 19:06	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-8 INT 10 **Lab ID: 3083325004** Collected: 12/06/12 11:15 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**19.7**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	83-32-9	
Acenaphthylene	**37.4**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	208-96-8	E
Anthracene	**2.8**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	207-08-9	
Benzoic acid	ND	ug/L	103	1	12/07/12 13:30	12/10/12 20:27	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:27	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:27	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	117-81-7	
Fluoranthene	**2.5**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	206-44-0	
Fluorene	**10.2**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-8 INT 10 **Lab ID: 3083325004** Collected: 12/06/12 11:15 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	78-59-1	
1-Methylnaphthalene	**26.6**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	90-12-0	E,N2
2-Methylnaphthalene	**38.0**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	91-57-6	E
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.1	1	12/07/12 13:30	12/10/12 20:27		
Naphthalene	**711**	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:07	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:27	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:27	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:27	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:27	87-86-5	
Phenanthrene	**23.1**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	85-01-8	E
Phenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	108-95-2	
Pyrene	**4.6**	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/07/12 13:30	12/10/12 20:27	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/07/12 13:30	12/10/12 20:27	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	80	%	35-114	1	12/07/12 13:30	12/10/12 20:27	4165-60-0	
2-Fluorobiphenyl (S)	74	%	43-116	1	12/07/12 13:30	12/10/12 20:27	321-60-8	
Terphenyl-d14 (S)	113	%	33-141	1	12/07/12 13:30	12/10/12 20:27	1718-51-0	
Phenol-d6 (S)	36	%	10-110	1	12/07/12 13:30	12/10/12 20:27	13127-88-3	
2-Fluorophenol (S)	56	%	21-110	1	12/07/12 13:30	12/10/12 20:27	367-12-4	
2,4,6-Tribromophenol (S)	79	%	10-123	1	12/07/12 13:30	12/10/12 20:27	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/07/12 19:55	67-64-1	HS
Benzene	**159**	ug/L	1.0	1		12/07/12 19:55	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/07/12 19:55	74-97-5	
Bromodichloromethane	**13.8**	ug/L	1.0	1		12/07/12 19:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/07/12 19:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/07/12 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/12 19:55	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/07/12 19:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/12 19:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/12 19:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/12 19:55	75-00-3	
Chloroform	**24.9**	ug/L	1.0	1		12/07/12 19:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/12 19:55	74-87-3	
Dibromochloromethane	**8.2**	ug/L	1.0	1		12/07/12 19:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:55	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-8 INT 10 **Lab ID: 3083325004** Collected: 12/06/12 11:15 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/12 19:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/12 19:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/07/12 19:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/12 19:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 19:55	10061-02-6	
Ethylbenzene	**99.0**	ug/L	1.0	1		12/07/12 19:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/07/12 19:55	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/07/12 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/12 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/12 19:55	1634-04-4	
Styrene	**13.6**	ug/L	1.0	1		12/07/12 19:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/12 19:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/12 19:55	127-18-4	
Toluene	**73.3**	ug/L	1.0	1		12/07/12 19:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/12 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/12 19:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/12 19:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/07/12 19:55	75-01-4	
Xylene (Total)	**46.6**	ug/L	3.0	1		12/07/12 19:55	1330-20-7	
m&p-Xylene	**32.7**	ug/L	2.0	1		12/07/12 19:55	179601-23-1	
o-Xylene	**13.9**	ug/L	1.0	1		12/07/12 19:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	85-115	1		12/07/12 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	77-119	1		12/07/12 19:55	17060-07-0	
Toluene-d8 (S)	92	%	85-115	1		12/07/12 19:55	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-11 INT 10 **Lab ID: 3083325005** Collected: 12/06/12 11:20 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	83-32-9	
Acenaphthylene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	208-96-8	
Anthracene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	120-12-7	
Azobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	207-08-9	
Benzoic acid	ND	ug/L	5130	50	12/07/12 13:30	12/11/12 12:29	65-85-0	
Benzyl alcohol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	101-55-3	
Butylbenzylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	85-68-7	
Carbazole	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	59-50-7	
4-Chloroaniline	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	108-60-1	
2-Chloronaphthalene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	91-58-7	
2-Chlorophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	7005-72-3	
Chrysene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	53-70-3	
Dibenzofuran	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	91-94-1	
2,4-Dichlorophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	120-83-2	
Diethylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	84-66-2	
2,4-Dimethylphenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	105-67-9	
Dimethylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	131-11-3	
Di-n-butylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:29	534-52-1	
2,4-Dinitrophenol	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:29	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	606-20-2	
Di-n-octylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	117-81-7	
Fluoranthene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	206-44-0	
Fluorene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	87-68-3	
Hexachlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	77-47-4	
Hexachloroethane	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-11 INT 10 **Lab ID: 3083325005** Collected: 12/06/12 11:20 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	78-59-1	
1-Methylnaphthalene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	103	50	12/07/12 13:30	12/11/12 12:29		
Naphthalene	**616**	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	91-20-3	
2-Nitroaniline	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:29	88-74-4	
3-Nitroaniline	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:29	99-09-2	
4-Nitroaniline	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:29	100-01-6	
Nitrobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	98-95-3	
2-Nitrophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	88-75-5	
4-Nitrophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	86-30-6	
Pentachlorophenol	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:29	87-86-5	
Phenanthrene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	85-01-8	
Phenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	108-95-2	
Pyrene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:29	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:29	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	35-114	50	12/07/12 13:30	12/11/12 12:29	4165-60-0	S4
2-Fluorobiphenyl (S)	0	%	43-116	50	12/07/12 13:30	12/11/12 12:29	321-60-8	S4
Terphenyl-d14 (S)	0	%	33-141	50	12/07/12 13:30	12/11/12 12:29	1718-51-0	S4
Phenol-d6 (S)	0	%	10-110	50	12/07/12 13:30	12/11/12 12:29	13127-88-3	S4
2-Fluorophenol (S)	0	%	21-110	50	12/07/12 13:30	12/11/12 12:29	367-12-4	S4
2,4,6-Tribromophenol (S)	0	%	10-123	50	12/07/12 13:30	12/11/12 12:29	118-79-6	S4
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/07/12 19:30	67-64-1	HS
Benzene	**120**	ug/L	1.0	1		12/07/12 19:30	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/07/12 19:30	74-97-5	
Bromodichloromethane	**13.9**	ug/L	1.0	1		12/07/12 19:30	75-27-4	
Bromoform	**4.6**	ug/L	1.0	1		12/07/12 19:30	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/07/12 19:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/12 19:30	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/07/12 19:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/12 19:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/12 19:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/12 19:30	75-00-3	
Chloroform	**25.1**	ug/L	1.0	1		12/07/12 19:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/12 19:30	74-87-3	
Dibromochloromethane	**8.2**	ug/L	1.0	1		12/07/12 19:30	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:30	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-11 INT 10 **Lab ID: 3083325005** Collected: 12/06/12 11:20 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:30	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/12 19:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/12 19:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/07/12 19:30	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 19:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/12 19:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 19:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 19:30	10061-02-6	
Ethylbenzene	**88.5**	ug/L	1.0	1		12/07/12 19:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/07/12 19:30	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/07/12 19:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/12 19:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/12 19:30	1634-04-4	
Styrene	**11.0**	ug/L	1.0	1		12/07/12 19:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/12 19:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/12 19:30	127-18-4	
Toluene	**57.7**	ug/L	1.0	1		12/07/12 19:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/12 19:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/12 19:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/12 19:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/12 19:30	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/07/12 19:30	75-01-4	
Xylene (Total)	**38.1**	ug/L	3.0	1		12/07/12 19:30	1330-20-7	
m&p-Xylene	**27.0**	ug/L	2.0	1		12/07/12 19:30	179601-23-1	
o-Xylene	**11.1**	ug/L	1.0	1		12/07/12 19:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	85-115	1		12/07/12 19:30	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	77-119	1		12/07/12 19:30	17060-07-0	
Toluene-d8 (S)	94	%	85-115	1		12/07/12 19:30	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-12 INT 10 **Lab ID: 3083325006** Collected: 12/06/12 11:25 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	83-32-9	
Acenaphthylene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	208-96-8	
Anthracene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	120-12-7	
Azobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	207-08-9	
Benzoic acid	ND	ug/L	5130	50	12/07/12 13:30	12/11/12 12:51	65-85-0	
Benzyl alcohol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	101-55-3	
Butylbenzylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	85-68-7	
Carbazole	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	59-50-7	
4-Chloroaniline	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	108-60-1	
2-Chloronaphthalene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	91-58-7	
2-Chlorophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	7005-72-3	
Chrysene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	53-70-3	
Dibenzofuran	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	91-94-1	
2,4-Dichlorophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	120-83-2	
Diethylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	84-66-2	
2,4-Dimethylphenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	105-67-9	
Dimethylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	131-11-3	
Di-n-butylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	606-20-2	
Di-n-octylphthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	117-81-7	
Fluoranthene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	206-44-0	
Fluorene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	87-68-3	
Hexachlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	77-47-4	
Hexachloroethane	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-12 INT 10 **Lab ID: 3083325006** Collected: 12/06/12 11:25 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	78-59-1	
1-Methylnaphthalene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	103	50	12/07/12 13:30	12/11/12 12:51		
Naphthalene	**487**	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	91-20-3	
2-Nitroaniline	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:51	88-74-4	
3-Nitroaniline	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:51	99-09-2	
4-Nitroaniline	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:51	100-01-6	
Nitrobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	98-95-3	
2-Nitrophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	88-75-5	
4-Nitrophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	86-30-6	
Pentachlorophenol	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:51	87-86-5	
Phenanthrene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	85-01-8	
Phenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	108-95-2	
Pyrene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	128	50	12/07/12 13:30	12/11/12 12:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	51.3	50	12/07/12 13:30	12/11/12 12:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	35-114	50	12/07/12 13:30	12/11/12 12:51	4165-60-0	S4
2-Fluorobiphenyl (S)	0	%	43-116	50	12/07/12 13:30	12/11/12 12:51	321-60-8	S4
Terphenyl-d14 (S)	0	%	33-141	50	12/07/12 13:30	12/11/12 12:51	1718-51-0	S4
Phenol-d6 (S)	0	%	10-110	50	12/07/12 13:30	12/11/12 12:51	13127-88-3	S4
2-Fluorophenol (S)	0	%	21-110	50	12/07/12 13:30	12/11/12 12:51	367-12-4	S4
2,4,6-Tribromophenol (S)	0	%	10-123	50	12/07/12 13:30	12/11/12 12:51	118-79-6	S4
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/07/12 18:41	67-64-1	HS
Benzene	**81.5**	ug/L	1.0	1		12/07/12 18:41	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/07/12 18:41	74-97-5	
Bromodichloromethane	**13.7**	ug/L	1.0	1		12/07/12 18:41	75-27-4	
Bromoform	**4.6**	ug/L	1.0	1		12/07/12 18:41	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/07/12 18:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/12 18:41	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/07/12 18:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/12 18:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/07/12 18:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/12 18:41	75-00-3	
Chloroform	**24.6**	ug/L	1.0	1		12/07/12 18:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/12 18:41	74-87-3	
Dibromochloromethane	**8.3**	ug/L	1.0	1		12/07/12 18:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 18:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 18:41	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Sample: Mix 37-12 INT 10 **Lab ID: 3083325006** Collected: 12/06/12 11:25 Received: 12/06/12 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/12 18:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/12 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/12 18:41	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/07/12 18:41	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/12 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/12 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/12 18:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/12 18:41	10061-02-6	
Ethylbenzene	**58.0**	ug/L	1.0	1		12/07/12 18:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/07/12 18:41	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/07/12 18:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/12 18:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/12 18:41	1634-04-4	
Styrene	**7.5**	ug/L	1.0	1		12/07/12 18:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/12 18:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/07/12 18:41	127-18-4	
Toluene	**37.4**	ug/L	1.0	1		12/07/12 18:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/12 18:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/12 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/12 18:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/07/12 18:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/07/12 18:41	75-01-4	
Xylene (Total)	**26.4**	ug/L	3.0	1		12/07/12 18:41	1330-20-7	
m&p-Xylene	**18.9**	ug/L	2.0	1		12/07/12 18:41	179601-23-1	
o-Xylene	**7.5**	ug/L	1.0	1		12/07/12 18:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	87	%	85-115	1		12/07/12 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	77-119	1		12/07/12 18:41	17060-07-0	
Toluene-d8 (S)	93	%	85-115	1		12/07/12 18:41	2037-26-5	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083325

QC Batch: MSV/14776 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3083325001, 3083325002, 3083325003, 3083325004, 3083325005, 3083325006

METHOD BLANK: 521333 Matrix: Water
Associated Lab Samples: 3083325001, 3083325002, 3083325003, 3083325004, 3083325005, 3083325006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/07/12 12:57	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/07/12 12:57	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/07/12 12:57	
1,1-Dichloroethane	ug/L	ND	1.0	12/07/12 12:57	
1,1-Dichloroethene	ug/L	ND	1.0	12/07/12 12:57	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/07/12 12:57	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/07/12 12:57	
1,2-Dichloroethane	ug/L	ND	1.0	12/07/12 12:57	
1,2-Dichloropropane	ug/L	ND	1.0	12/07/12 12:57	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/07/12 12:57	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/07/12 12:57	
2-Butanone (MEK)	ug/L	ND	10.0	12/07/12 12:57	
2-Hexanone	ug/L	ND	10.0	12/07/12 12:57	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/07/12 12:57	
Acetone	ug/L	ND	10.0	12/07/12 12:57	
Benzene	ug/L	ND	1.0	12/07/12 12:57	
Bromochloromethane	ug/L	ND	1.0	12/07/12 12:57	
Bromodichloromethane	ug/L	ND	1.0	12/07/12 12:57	
Bromoform	ug/L	ND	1.0	12/07/12 12:57	
Bromomethane	ug/L	ND	1.0	12/07/12 12:57	
Carbon disulfide	ug/L	ND	1.0	12/07/12 12:57	
Carbon tetrachloride	ug/L	ND	1.0	12/07/12 12:57	
Chlorobenzene	ug/L	ND	1.0	12/07/12 12:57	
Chloroethane	ug/L	ND	1.0	12/07/12 12:57	
Chloroform	ug/L	ND	1.0	12/07/12 12:57	
Chloromethane	ug/L	ND	1.0	12/07/12 12:57	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/07/12 12:57	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/07/12 12:57	
Dibromochloromethane	ug/L	ND	1.0	12/07/12 12:57	
Ethylbenzene	ug/L	ND	1.0	12/07/12 12:57	
m&p-Xylene	ug/L	ND	2.0	12/07/12 12:57	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/07/12 12:57	
Methylene Chloride	ug/L	ND	1.0	12/07/12 12:57	
o-Xylene	ug/L	ND	1.0	12/07/12 12:57	
Styrene	ug/L	ND	1.0	12/07/12 12:57	
Tetrachloroethene	ug/L	ND	1.0	12/07/12 12:57	
Toluene	ug/L	ND	1.0	12/07/12 12:57	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/07/12 12:57	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/07/12 12:57	
Trichloroethene	ug/L	ND	1.0	12/07/12 12:57	
Vinyl chloride	ug/L	ND	1.0	12/07/12 12:57	
Xylene (Total)	ug/L	ND	3.0	12/07/12 12:57	
1,2-Dichloroethane-d4 (S)	%	120	77-119	12/07/12 12:57	S3

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083325

METHOD BLANK: 521333 Matrix: Water

Associated Lab Samples: 3083325001, 3083325002, 3083325003, 3083325004, 3083325005, 3083325006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	89	85-115	12/07/12 12:57	
Toluene-d8 (S)	%	92	85-115	12/07/12 12:57	

LABORATORY CONTROL SAMPLE: 521334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.6	118	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	17.2	86	61-117	
1,1,2-Trichloroethane	ug/L	20	18.4	92	72-119	
1,1-Dichloroethane	ug/L	20	21.5	108	63-123	
1,1-Dichloroethene	ug/L	20	24.8	124	57-127	
1,2,4-Trichlorobenzene	ug/L	20	19.1	95	52-138	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-116	
1,2-Dichloroethane	ug/L	20	22.6	113	62-125	
1,2-Dichloropropane	ug/L	20	17.7	88	69-115	
1,3-Dichlorobenzene	ug/L	20	20.9	104	71-118	
1,4-Dichlorobenzene	ug/L	20	20.2	101	67-119	
2-Butanone (MEK)	ug/L	20	18.4	92	48-136	
2-Hexanone	ug/L	20	18.3	91	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.4	92	57-124	
Acetone	ug/L	20	16.2	81	49-138	
Benzene	ug/L	20	17.1	85	66-122	
Bromochloromethane	ug/L	20	18.8	94	61-126	
Bromodichloromethane	ug/L	20	19.0	95	63-118	
Bromoform	ug/L	20	17.7	88	46-130	
Bromomethane	ug/L	20	14.5	73	10-175	
Carbon disulfide	ug/L	20	14.8	74	59-142	
Carbon tetrachloride	ug/L	20	22.5	112	55-126	
Chlorobenzene	ug/L	20	19.0	95	70-121	
Chloroethane	ug/L	20	18.5	92	24-161	
Chloroform	ug/L	20	20.6	103	62-126	
Chloromethane	ug/L	20	15.8	79	37-147	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	64-121	
cis-1,3-Dichloropropene	ug/L	20	20.6	103	64-118	
Dibromochloromethane	ug/L	20	18.9	95	60-120	
Ethylbenzene	ug/L	20	20.2	101	69-119	
m&p-Xylene	ug/L	40	41.7	104	70-124	
Methyl-tert-butyl ether	ug/L	20	19.2	96	58-131	
Methylene Chloride	ug/L	20	18.9	95	59-128	
o-Xylene	ug/L	20	20.3	101	67-123	
Styrene	ug/L	20	21.5	108	67-146	
Tetrachloroethene	ug/L	20	17.8	89	62-125	
Toluene	ug/L	20	18.5	93	72-115	
trans-1,2-Dichloroethene	ug/L	20	21.3	106	59-122	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	64-120	

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(724)850-5600

QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083325

LABORATORY CONTROL SAMPLE: 521334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	18.5	92	62-125	
Vinyl chloride	ug/L	20	15.9	79	52-145	
Xylene (Total)	ug/L	60	62.0	103	70-123	
1,2-Dichloroethane-d4 (S)	%			115	77-119	
4-Bromofluorobenzene (S)	%			91	85-115	
Toluene-d8 (S)	%			95	85-115	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083325

QC Batch: OEXT/13655 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 3083325001, 3083325002, 3083325003, 3083325004, 3083325005, 3083325006

METHOD BLANK: 520691 Matrix: Water
Associated Lab Samples: 3083325001, 3083325002, 3083325003, 3083325004, 3083325005, 3083325006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
1-Methylnaphthalene	ug/L	ND	1.0	12/10/12 17:09	N2
2,4,5-Trichlorophenol	ug/L	ND	2.5	12/10/12 17:09	
2,4,6-Trichlorophenol	ug/L	ND	1.0	12/10/12 17:09	
2,4-Dichlorophenol	ug/L	ND	1.0	12/10/12 17:09	
2,4-Dimethylphenol	ug/L	ND	1.0	12/10/12 17:09	
2,4-Dinitrophenol	ug/L	ND	2.5	12/10/12 17:09	
2,4-Dinitrotoluene	ug/L	ND	1.0	12/10/12 17:09	
2,6-Dinitrotoluene	ug/L	ND	1.0	12/10/12 17:09	
2-Chloronaphthalene	ug/L	ND	1.0	12/10/12 17:09	
2-Chlorophenol	ug/L	ND	1.0	12/10/12 17:09	
2-Methylnaphthalene	ug/L	ND	1.0	12/10/12 17:09	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	12/10/12 17:09	
2-Nitroaniline	ug/L	ND	2.5	12/10/12 17:09	
2-Nitrophenol	ug/L	ND	1.0	12/10/12 17:09	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	12/10/12 17:09	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	12/10/12 17:09	
3-Nitroaniline	ug/L	ND	2.5	12/10/12 17:09	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	12/10/12 17:09	
4-Bromophenylphenyl ether	ug/L	ND	1.0	12/10/12 17:09	
4-Chloro-3-methylphenol	ug/L	ND	1.0	12/10/12 17:09	
4-Chloroaniline	ug/L	ND	1.0	12/10/12 17:09	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	12/10/12 17:09	
4-Nitroaniline	ug/L	ND	2.5	12/10/12 17:09	
4-Nitrophenol	ug/L	ND	1.0	12/10/12 17:09	
Acenaphthene	ug/L	ND	1.0	12/10/12 17:09	
Acenaphthylene	ug/L	ND	1.0	12/10/12 17:09	
Anthracene	ug/L	ND	1.0	12/10/12 17:09	
Azobenzene	ug/L	ND	1.0	12/10/12 17:09	N2
Benzo(a)anthracene	ug/L	ND	1.0	12/10/12 17:09	
Benzo(a)pyrene	ug/L	ND	1.0	12/10/12 17:09	
Benzo(b)fluoranthene	ug/L	ND	1.0	12/10/12 17:09	
Benzo(g,h,i)perylene	ug/L	ND	1.0	12/10/12 17:09	
Benzo(k)fluoranthene	ug/L	ND	1.0	12/10/12 17:09	
Benzoic acid	ug/L	ND	100	12/10/12 17:09	
Benzyl alcohol	ug/L	ND	1.0	12/10/12 17:09	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	12/10/12 17:09	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	12/10/12 17:09	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	12/10/12 17:09	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	12/10/12 17:09	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083325

METHOD BLANK: 520691 Matrix: Water

Associated Lab Samples: 3083325001, 3083325002, 3083325003, 3083325004, 3083325005, 3083325006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Carbazole	ug/L	ND	1.0	12/10/12 17:09	
Chrysene	ug/L	ND	1.0	12/10/12 17:09	
Di-n-butylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Di-n-octylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Dibenz(a,h)anthracene	ug/L	ND	1.0	12/10/12 17:09	
Dibenzofuran	ug/L	ND	1.0	12/10/12 17:09	
Diethylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Dimethylphthalate	ug/L	ND	1.0	12/10/12 17:09	
Fluoranthene	ug/L	ND	1.0	12/10/12 17:09	
Fluorene	ug/L	ND	1.0	12/10/12 17:09	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/10/12 17:09	
Hexachlorobenzene	ug/L	ND	1.0	12/10/12 17:09	
Hexachlorocyclopentadiene	ug/L	ND	1.0	12/10/12 17:09	
Hexachloroethane	ug/L	ND	1.0	12/10/12 17:09	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	12/10/12 17:09	
Isophorone	ug/L	ND	1.0	12/10/12 17:09	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	12/10/12 17:09	
N-Nitrosodimethylamine	ug/L	ND	1.0	12/10/12 17:09	
N-Nitrosodiphenylamine	ug/L	ND	1.0	12/10/12 17:09	
Naphthalene	ug/L	ND	1.0	12/10/12 17:09	
Nitrobenzene	ug/L	ND	1.0	12/10/12 17:09	
Pentachlorophenol	ug/L	ND	2.5	12/10/12 17:09	
Phenanthrene	ug/L	ND	1.0	12/10/12 17:09	
Phenol	ug/L	ND	1.0	12/10/12 17:09	
Pyrene	ug/L	ND	1.0	12/10/12 17:09	
2,4,6-Tribromophenol (S)	%	62	10-123	12/10/12 17:09	
2-Fluorobiphenyl (S)	%	65	43-116	12/10/12 17:09	
2-Fluorophenol (S)	%	41	21-110	12/10/12 17:09	
Nitrobenzene-d5 (S)	%	62	35-114	12/10/12 17:09	
Phenol-d6 (S)	%	27	10-110	12/10/12 17:09	
Terphenyl-d14 (S)	%	86	33-141	12/10/12 17:09	

LABORATORY CONTROL SAMPLE: 520692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	5	3.4	67	12-105	
1,2-Dichlorobenzene	ug/L		ND			
1,3-Dichlorobenzene	ug/L		ND			
1,4-Dichlorobenzene	ug/L	5	3.4	67	10-95	
1-Methylnaphthalene	ug/L	5	3.9	77	15-106	N2
2,4,5-Trichlorophenol	ug/L		ND			
2,4,6-Trichlorophenol	ug/L		ND			
2,4-Dichlorophenol	ug/L		ND			
2,4-Dimethylphenol	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083325

LABORATORY CONTROL SAMPLE: 520692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L		ND			
2,4-Dinitrotoluene	ug/L	5	3.1	62	10-133	
2,6-Dinitrotoluene	ug/L		ND			
2-Chloronaphthalene	ug/L		ND			
2-Chlorophenol	ug/L	5	3.8	76	10-111	
2-Methylnaphthalene	ug/L	5	3.5	70	10-98	
2-Methylphenol(o-Cresol)	ug/L		ND			
2-Nitroaniline	ug/L		ND			
2-Nitrophenol	ug/L		ND			
3&4-Methylphenol(m&p Cresol)	ug/L		ND			
3,3'-Dichlorobenzidine	ug/L		ND			
3-Nitroaniline	ug/L		ND			
4,6-Dinitro-2-methylphenol	ug/L		ND			
4-Bromophenylphenyl ether	ug/L		ND			
4-Chloro-3-methylphenol	ug/L	5	4.1	83	10-129	
4-Chloroaniline	ug/L		ND			
4-Chlorophenylphenyl ether	ug/L		ND			
4-Nitroaniline	ug/L		ND			
4-Nitrophenol	ug/L	5	1.7	33	10-54	
Acenaphthene	ug/L	5	3.6	72	12-123	
Acenaphthylene	ug/L	5	3.5	70	11-131	
Anthracene	ug/L	5	3.7	75	11-135	
Azobenzene	ug/L		ND			N2
Benzo(a)anthracene	ug/L	5	4.3	86	24-138	
Benzo(a)pyrene	ug/L	5	4.4	87	20-136	
Benzo(b)fluoranthene	ug/L	5	4.5	89	19-147	
Benzo(g,h,i)perylene	ug/L	5	4.7	95	11-156	
Benzo(k)fluoranthene	ug/L	5	4.8	95	22-154	
Benzoic acid	ug/L		ND			
Benzyl alcohol	ug/L		ND			
bis(2-Chloroethoxy)methane	ug/L		ND			
bis(2-Chloroethyl) ether	ug/L		ND			
bis(2-Chloroisopropyl) ether	ug/L		ND			
bis(2-Ethylhexyl)phthalate	ug/L		ND			
Butylbenzylphthalate	ug/L		ND			
Carbazole	ug/L		ND			
Chrysene	ug/L	5	4.5	90	14-158	
Di-n-butylphthalate	ug/L		ND			
Di-n-octylphthalate	ug/L		ND			
Dibenz(a,h)anthracene	ug/L	5	4.3	86	13-154	
Dibenzofuran	ug/L		ND			
Diethylphthalate	ug/L		ND			
Dimethylphthalate	ug/L		ND			
Fluoranthene	ug/L	5	3.7	74	20-135	
Fluorene	ug/L	5	3.5	70	11-128	
Hexachloro-1,3-butadiene	ug/L		ND			
Hexachlorobenzene	ug/L		ND			
Hexachlorocyclopentadiene	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083325

LABORATORY CONTROL SAMPLE: 520692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L		ND			
Indeno(1,2,3-cd)pyrene	ug/L	5	4.3	85	15-148	
Isophorone	ug/L		ND			
N-Nitroso-di-n-propylamine	ug/L	5	4.1	82	10-136	
N-Nitrosodimethylamine	ug/L		ND			
N-Nitrosodiphenylamine	ug/L		ND			
Naphthalene	ug/L	5	3.6	72	12-116	
Nitrobenzene	ug/L		ND			
Pentachlorophenol	ug/L	5	3.6	72	13-129	
Phenanthrene	ug/L	5	3.9	77	13-134	
Phenol	ug/L	5	1.7	34	10-47	
Pyrene	ug/L	5	4.3	87	10-158	
2,4,6-Tribromophenol (S)	%			74	10-123	
2-Fluorobiphenyl (S)	%			76	43-116	
2-Fluorophenol (S)	%			50	21-110	
Nitrobenzene-d5 (S)	%			74	35-114	
Phenol-d6 (S)	%			32	10-110	
Terphenyl-d14 (S)	%			108	33-141	

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QUALIFIERS

Project: North Albany, NY 12-037
Pace Project No.: 3083325

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: OEXT/13655

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
N2	The lab does not hold TNI accreditation for this parameter.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: North Albany, NY 12-037
Pace Project No.: 3083325

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3083325001	**Mix 37-3 INT 10**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083325002	**Mix 37-4 INT 10**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083325003	**Mix 37-6 INT 10**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083325004	**Mix 37-8 INT 10**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083325005	**Mix 37-11 INT 10**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083325006	**Mix 37-12 INT 10**	EPA 3510	OEXT/13655	EPA 8270	MSSV/4657
3083325001	**Mix 37-3 INT 10**	EPA 8260	MSV/14776		
3083325002	**Mix 37-4 INT 10**	EPA 8260	MSV/14776		
3083325003	**Mix 37-6 INT 10**	EPA 8260	MSV/14776		
3083325004	**Mix 37-8 INT 10**	EPA 8260	MSV/14776		
3083325005	**Mix 37-11 INT 10**	EPA 8260	MSV/14776		
3083325006	**Mix 37-12 INT 10**	EPA 8260	MSV/14776		

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December 14, 2012

Mr. Bill Buccille
GeoCon
400 Penn Center Blvd.
Pittsburgh, PA 15235

RE: Project: North Albany, NY 12-037
Pace Project No.: 3083659

Dear Mr. Buccille:
Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE ANALYTE COUNT

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3083659001	**Mix 37-3 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659002	**Mix 37-4 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659003	**Mix 37-6 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659004	**Mix 37-8 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659005	**Mix 37-11 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
3083659006	**Mix 37-12 Int 15**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 14, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/4672

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Workorder Comments:

Cooler temperature 11.3 ° C upon receipt. Ice was present.

Analyte Comments:

QC Batch: OEXT/13729

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 523172)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 14, 2012

Analyte Comments:

QC Batch: OEXT/13729

N2: The lab does not hold TNI accreditation for this parameter.

- LCS (Lab ID: 523173)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-11 Int 15 (Lab ID: 3083659005)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-12 Int 15 (Lab ID: 3083659006)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-3 Int 15 (Lab ID: 3083659001)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-4 Int 15 (Lab ID: 3083659002)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-6 Int 15 (Lab ID: 3083659003)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-8 Int 15 (Lab ID: 3083659004)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 14, 2012

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MSV/14821

B: Analyte was detected in the associated method blank.
- BLANK (Lab ID: 523196)
  - Methylene Chloride

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/14821

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Workorder Comments:

Cooler temperature 11.3 ° C upon receipt. Ice was present.

Analyte Comments:

QC Batch: MSV/14821

C9: Common Laboratory Contaminant.
- BLANK (Lab ID: 523196)
  - Methylene Chloride

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PROJECT NARRATIVE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 14, 2012

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-3 Int 15 **Lab ID: 3083659001** Collected: 12/11/12 11:00 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**10.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	83-32-9	
Acenaphthylene	**5.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	208-96-8	
Anthracene	**2.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	207-08-9	
Benzoic acid	ND	ug/L	101	1	12/13/12 08:00	12/13/12 15:41	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	85-68-7	
Carbazole	**7.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	53-70-3	
Dibenzofuran	**4.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	84-66-2	
2,4-Dimethylphenol	**5.7**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	117-81-7	
Fluoranthene	**2.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	206-44-0	
Fluorene	**6.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-3 Int 15 **Lab ID: 3083659001** Collected: 12/11/12 11:00 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	78-59-1	
1-Methylnaphthalene	**18.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	90-12-0	N2
2-Methylnaphthalene	**21.8**	ug/L	20.2	20	12/13/12 08:00	12/14/12 09:08	91-57-6	
2-Methylphenol(o-Cresol)	**3.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	**4.2**	ug/L	2.0	1	12/13/12 08:00	12/13/12 15:41		
Naphthalene	**276**	ug/L	20.2	20	12/13/12 08:00	12/14/12 09:08	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	87-86-5	
Phenanthrene	**12.4**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	85-01-8	
Phenol	**1.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	108-95-2	
Pyrene	**2.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 15:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 15:41	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	71	%	35-114	1	12/13/12 08:00	12/13/12 15:41	4165-60-0	
2-Fluorobiphenyl (S)	68	%	43-116	1	12/13/12 08:00	12/13/12 15:41	321-60-8	
Terphenyl-d14 (S)	114	%	33-141	1	12/13/12 08:00	12/13/12 15:41	1718-51-0	
Phenol-d6 (S)	30	%	10-110	1	12/13/12 08:00	12/13/12 15:41	13127-88-3	
2-Fluorophenol (S)	46	%	21-110	1	12/13/12 08:00	12/13/12 15:41	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-123	1	12/13/12 08:00	12/13/12 15:41	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 21:24	67-64-1	
Benzene	**14.3**	ug/L	1.0	1		12/12/12 21:24	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 21:24	74-97-5	
Bromodichloromethane	**11.9**	ug/L	1.0	1		12/12/12 21:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 21:24	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 21:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 21:24	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 21:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 21:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 21:24	75-00-3	
Chloroform	**19.3**	ug/L	1.0	1		12/12/12 21:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 21:24	74-87-3	
Dibromochloromethane	**5.1**	ug/L	1.0	1		12/12/12 21:24	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-3 Int 15 **Lab ID: 3083659001** Collected: 12/11/12 11:00 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 21:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 21:24	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 21:24	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 21:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 21:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 21:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 21:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 21:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 21:24	10061-02-6	
Ethylbenzene	**25.8**	ug/L	1.0	1		12/12/12 21:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 21:24	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 21:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 21:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 21:24	1634-04-4	
Styrene	**3.9**	ug/L	1.0	1		12/12/12 21:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 21:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 21:24	127-18-4	
Toluene	**16.4**	ug/L	1.0	1		12/12/12 21:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 21:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 21:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 21:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 21:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 21:24	75-01-4	
Xylene (Total)	**26.2**	ug/L	3.0	1		12/12/12 21:24	1330-20-7	
m&p-Xylene	**15.2**	ug/L	2.0	1		12/12/12 21:24	179601-23-1	
o-Xylene	**11.0**	ug/L	1.0	1		12/12/12 21:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		12/12/12 21:24	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	77-119	1		12/12/12 21:24	17060-07-0	
Toluene-d8 (S)	94	%	85-115	1		12/12/12 21:24	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-4 Int 15 **Lab ID: 3083659002** Collected: 12/11/12 11:05 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**4.3**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	208-96-8	
Anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 16:03	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	85-68-7	
Carbazole	**2.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	117-81-7	
Fluoranthene	**1.3**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	206-44-0	
Fluorene	**2.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-4 Int 15 **Lab ID: 3083659002** Collected: 12/11/12 11:05 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 16:03		
Naphthalene	**3.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	87-86-5	
Phenanthrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	108-95-2	
Pyrene	**2.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:03	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:03	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	35-114	1	12/13/12 08:00	12/13/12 16:03	4165-60-0	
2-Fluorobiphenyl (S)	63	%	43-116	1	12/13/12 08:00	12/13/12 16:03	321-60-8	
Terphenyl-d14 (S)	131	%	33-141	1	12/13/12 08:00	12/13/12 16:03	1718-51-0	
Phenol-d6 (S)	23	%	10-110	1	12/13/12 08:00	12/13/12 16:03	13127-88-3	
2-Fluorophenol (S)	40	%	21-110	1	12/13/12 08:00	12/13/12 16:03	367-12-4	
2,4,6-Tribromophenol (S)	80	%	10-123	1	12/13/12 08:00	12/13/12 16:03	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 22:02	67-64-1	
Benzene	**4.5**	ug/L	1.0	1		12/12/12 22:02	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 22:02	74-97-5	
Bromodichloromethane	**12.0**	ug/L	1.0	1		12/12/12 22:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 22:02	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 22:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 22:02	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 22:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 22:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 22:02	75-00-3	
Chloroform	**19.7**	ug/L	1.0	1		12/12/12 22:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 22:02	74-87-3	
Dibromochloromethane	**5.2**	ug/L	1.0	1		12/12/12 22:02	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-4 Int 15 **Lab ID: 3083659002** Collected: 12/11/12 11:05 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:02	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 22:02	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 22:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:02	10061-02-6	
Ethylbenzene	**6.9**	ug/L	1.0	1		12/12/12 22:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 22:02	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 22:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 22:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 22:02	1634-04-4	
Styrene	ND	ug/L	1.0	1		12/12/12 22:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 22:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 22:02	127-18-4	
Toluene	**4.1**	ug/L	1.0	1		12/12/12 22:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 22:02	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 22:02	75-01-4	
Xylene (Total)	**6.7**	ug/L	3.0	1		12/12/12 22:02	1330-20-7	
m&p-Xylene	**4.0**	ug/L	2.0	1		12/12/12 22:02	179601-23-1	
o-Xylene	**2.7**	ug/L	1.0	1		12/12/12 22:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	85-115	1		12/12/12 22:02	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	77-119	1		12/12/12 22:02	17060-07-0	
Toluene-d8 (S)	91	%	85-115	1		12/12/12 22:02	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-6 Int 15 **Lab ID: 3083659003** Collected: 12/11/12 11:10 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**4.7**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	83-32-9	
Acenaphthylene	**1.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	208-96-8	
Anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 16:25	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	117-81-7	
Fluoranthene	**1.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	206-44-0	
Fluorene	**2.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-6 Int 15 **Lab ID: 3083659003** Collected: 12/11/12 11:10 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	78-59-1	
1-Methylnaphthalene	**2.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	90-12-0	N2
2-Methylnaphthalene	**2.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 16:25		
Naphthalene	**14.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	87-86-5	
Phenanthrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	108-95-2	
Pyrene	**2.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 16:25	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:25	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	59	%	35-114	1	12/13/12 08:00	12/13/12 16:25	4165-60-0	
2-Fluorobiphenyl (S)	56	%	43-116	1	12/13/12 08:00	12/13/12 16:25	321-60-8	
Terphenyl-d14 (S)	100	%	33-141	1	12/13/12 08:00	12/13/12 16:25	1718-51-0	
Phenol-d6 (S)	24	%	10-110	1	12/13/12 08:00	12/13/12 16:25	13127-88-3	
2-Fluorophenol (S)	38	%	21-110	1	12/13/12 08:00	12/13/12 16:25	367-12-4	
2,4,6-Tribromophenol (S)	65	%	10-123	1	12/13/12 08:00	12/13/12 16:25	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 22:28	67-64-1	
Benzene	**4.8**	ug/L	1.0	1		12/12/12 22:28	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 22:28	74-97-5	
Bromodichloromethane	**12.3**	ug/L	1.0	1		12/12/12 22:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 22:28	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 22:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 22:28	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 22:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 22:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 22:28	75-00-3	
Chloroform	**19.6**	ug/L	1.0	1		12/12/12 22:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 22:28	74-87-3	
Dibromochloromethane	**5.5**	ug/L	1.0	1		12/12/12 22:28	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-6 Int 15 **Lab ID: 3083659003** Collected: 12/11/12 11:10 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:28	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 22:28	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 22:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:28	10061-02-6	
Ethylbenzene	**8.8**	ug/L	1.0	1		12/12/12 22:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 22:28	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 22:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 22:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 22:28	1634-04-4	
Styrene	ND	ug/L	1.0	1		12/12/12 22:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 22:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 22:28	127-18-4	
Toluene	**5.4**	ug/L	1.0	1		12/12/12 22:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 22:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 22:28	75-01-4	
Xylene (Total)	**8.4**	ug/L	3.0	1		12/12/12 22:28	1330-20-7	
m&p-Xylene	**5.2**	ug/L	2.0	1		12/12/12 22:28	179601-23-1	
o-Xylene	**3.2**	ug/L	1.0	1		12/12/12 22:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		12/12/12 22:28	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	77-119	1		12/12/12 22:28	17060-07-0	
Toluene-d8 (S)	91	%	85-115	1		12/12/12 22:28	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-8 Int 15 **Lab ID: 3083659004** Collected: 12/11/12 11:15 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**18.4**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	83-32-9	
Acenaphthylene	ND	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	208-96-8	
Anthracene	**3.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 16:46	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	85-68-7	
Carbazole	**1.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	53-70-3	
Dibenzofuran	**1.1**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	117-81-7	
Fluoranthene	**3.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	206-44-0	
Fluorene	**10.3**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-8 Int 15 **Lab ID: 3083659004** Collected: 12/11/12 11:15 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	78-59-1	
1-Methylnaphthalene	ND	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 16:46		
Naphthalene	**637**	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	87-86-5	
Phenanthrene	ND	ug/L	51.0	50	12/13/12 08:00	12/14/12 09:30	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	108-95-2	
Pyrene	**4.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 16:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 16:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	35-114	1	12/13/12 08:00	12/13/12 16:46	4165-60-0	
2-Fluorobiphenyl (S)	61	%	43-116	1	12/13/12 08:00	12/13/12 16:46	321-60-8	
Terphenyl-d14 (S)	107	%	33-141	1	12/13/12 08:00	12/13/12 16:46	1718-51-0	
Phenol-d6 (S)	24	%	10-110	1	12/13/12 08:00	12/13/12 16:46	13127-88-3	
2-Fluorophenol (S)	40	%	21-110	1	12/13/12 08:00	12/13/12 16:46	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-123	1	12/13/12 08:00	12/13/12 16:46	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 22:55	67-64-1	
Benzene	**171**	ug/L	1.0	1		12/12/12 22:55	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 22:55	74-97-5	
Bromodichloromethane	**11.6**	ug/L	1.0	1		12/12/12 22:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 22:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 22:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 22:55	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 22:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 22:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 22:55	75-00-3	
Chloroform	**19.1**	ug/L	1.0	1		12/12/12 22:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 22:55	74-87-3	
Dibromochloromethane	**5.0**	ug/L	1.0	1		12/12/12 22:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-8 Int 15 **Lab ID: 3083659004** Collected: 12/11/12 11:15 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 22:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 22:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 22:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 22:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 22:55	10061-02-6	
Ethylbenzene	**97.5**	ug/L	1.0	1		12/12/12 22:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 22:55	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 22:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 22:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 22:55	1634-04-4	
Styrene	**13.1**	ug/L	1.0	1		12/12/12 22:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 22:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 22:55	127-18-4	
Toluene	**75.7**	ug/L	1.0	1		12/12/12 22:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 22:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 22:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 22:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 22:55	75-01-4	
Xylene (Total)	**43.6**	ug/L	3.0	1		12/12/12 22:55	1330-20-7	
m&p-Xylene	**30.2**	ug/L	2.0	1		12/12/12 22:55	179601-23-1	
o-Xylene	**13.3**	ug/L	1.0	1		12/12/12 22:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		12/12/12 22:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-119	1		12/12/12 22:55	17060-07-0	
Toluene-d8 (S)	92	%	85-115	1		12/12/12 22:55	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-11 Int 15 **Lab ID: 3083659005** Collected: 12/11/12 11:20 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**15.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	83-32-9	
Acenaphthylene	ND	ug/L	20.4	20	12/13/12 08:00	12/14/12 09:52	208-96-8	
Anthracene	**1.9**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 17:08	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	117-81-7	
Fluoranthene	**2.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	206-44-0	
Fluorene	**7.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-11 Int 15 **Lab ID: 3083659005** Collected: 12/11/12 11:20 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	78-59-1	
1-Methylnaphthalene	**12.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	90-12-0	N2
2-Methylnaphthalene	**14.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 17:08		
Naphthalene	**354**	ug/L	20.4	20	12/13/12 08:00	12/14/12 09:52	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	87-86-5	
Phenanthrene	**8.4**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	108-95-2	
Pyrene	**4.4**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/13/12 08:00	12/13/12 17:08	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:08	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	58	%	35-114	1	12/13/12 08:00	12/13/12 17:08	4165-60-0	
2-Fluorobiphenyl (S)	59	%	43-116	1	12/13/12 08:00	12/13/12 17:08	321-60-8	
Terphenyl-d14 (S)	111	%	33-141	1	12/13/12 08:00	12/13/12 17:08	1718-51-0	
Phenol-d6 (S)	25	%	10-110	1	12/13/12 08:00	12/13/12 17:08	13127-88-3	
2-Fluorophenol (S)	24	%	21-110	1	12/13/12 08:00	12/13/12 17:08	367-12-4	
2,4,6-Tribromophenol (S)	68	%	10-123	1	12/13/12 08:00	12/13/12 17:08	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 23:21	67-64-1	
Benzene	**129**	ug/L	1.0	1		12/12/12 23:21	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 23:21	74-97-5	
Bromodichloromethane	**12.7**	ug/L	1.0	1		12/12/12 23:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 23:21	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 23:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 23:21	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 23:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 23:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 23:21	75-00-3	
Chloroform	**20.5**	ug/L	1.0	1		12/12/12 23:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 23:21	74-87-3	
Dibromochloromethane	**5.4**	ug/L	1.0	1		12/12/12 23:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-11 Int 15 **Lab ID: 3083659005** Collected: 12/11/12 11:20 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 23:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 23:21	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 23:21	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 23:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 23:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 23:21	10061-02-6	
Ethylbenzene	**84.3**	ug/L	1.0	1		12/12/12 23:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 23:21	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 23:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 23:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 23:21	1634-04-4	
Styrene	**9.1**	ug/L	1.0	1		12/12/12 23:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 23:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 23:21	127-18-4	
Toluene	**57.4**	ug/L	1.0	1		12/12/12 23:21	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 23:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 23:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 23:21	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 23:21	75-01-4	
Xylene (Total)	**35.0**	ug/L	3.0	1		12/12/12 23:21	1330-20-7	
m&p-Xylene	**24.7**	ug/L	2.0	1		12/12/12 23:21	179601-23-1	
o-Xylene	**10.2**	ug/L	1.0	1		12/12/12 23:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	85-115	1		12/12/12 23:21	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	77-119	1		12/12/12 23:21	17060-07-0	
Toluene-d8 (S)	91	%	85-115	1		12/12/12 23:21	2037-26-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-12 Int 15 **Lab ID: 3083659006** Collected: 12/11/12 11:25 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**12.3**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	83-32-9	
Acenaphthylene	**18.6**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	208-96-8	
Anthracene	**1.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/13/12 08:00	12/13/12 17:30	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	117-81-7	
Fluoranthene	**2.2**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	206-44-0	
Fluorene	**6.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	193-39-5	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-12 Int 15 **Lab ID: 3083659006** Collected: 12/11/12 11:25 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	78-59-1	
1-Methylnaphthalene	**10.8**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	90-12-0	N2
2-Methylnaphthalene	**13.9**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/13/12 08:00	12/13/12 17:30		
Naphthalene	**299**	ug/L	20.3	20	12/13/12 08:00	12/14/12 10:14	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	87-86-5	
Phenanthrene	**8.0**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	85-01-8	
Phenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	108-95-2	
Pyrene	**3.5**	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/13/12 08:00	12/13/12 17:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/13/12 08:00	12/13/12 17:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	66	%	35-114	1	12/13/12 08:00	12/13/12 17:30	4165-60-0	
2-Fluorobiphenyl (S)	65	%	43-116	1	12/13/12 08:00	12/13/12 17:30	321-60-8	
Terphenyl-d14 (S)	115	%	33-141	1	12/13/12 08:00	12/13/12 17:30	1718-51-0	
Phenol-d6 (S)	28	%	10-110	1	12/13/12 08:00	12/13/12 17:30	13127-88-3	
2-Fluorophenol (S)	43	%	21-110	1	12/13/12 08:00	12/13/12 17:30	367-12-4	
2,4,6-Tribromophenol (S)	77	%	10-123	1	12/13/12 08:00	12/13/12 17:30	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/12/12 23:48	67-64-1	
Benzene	**71.8**	ug/L	1.0	1		12/12/12 23:48	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/12/12 23:48	74-97-5	
Bromodichloromethane	**11.2**	ug/L	1.0	1		12/12/12 23:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/12/12 23:48	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/12/12 23:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/12/12 23:48	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/12/12 23:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/12/12 23:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/12/12 23:48	75-00-3	
Chloroform	**19.2**	ug/L	1.0	1		12/12/12 23:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/12/12 23:48	74-87-3	
Dibromochloromethane	**5.3**	ug/L	1.0	1		12/12/12 23:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	541-73-1	

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ANALYTICAL RESULTS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Sample: Mix 37-12 Int 15 **Lab ID: 3083659006** Collected: 12/11/12 11:25 Received: 12/11/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/12/12 23:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/12 23:48	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/12/12 23:48	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/12/12 23:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/12/12 23:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 23:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/12/12 23:48	10061-02-6	
Ethylbenzene	**45.1**	ug/L	1.0	1		12/12/12 23:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/12/12 23:48	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/12/12 23:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/12/12 23:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/12 23:48	1634-04-4	
Styrene	**5.2**	ug/L	1.0	1		12/12/12 23:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/12/12 23:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/12/12 23:48	127-18-4	
Toluene	**31.0**	ug/L	1.0	1		12/12/12 23:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/12/12 23:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/12/12 23:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/12/12 23:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/12/12 23:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/12/12 23:48	75-01-4	
Xylene (Total)	**21.2**	ug/L	3.0	1		12/12/12 23:48	1330-20-7	
m&p-Xylene	**14.9**	ug/L	2.0	1		12/12/12 23:48	179601-23-1	
o-Xylene	**6.3**	ug/L	1.0	1		12/12/12 23:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	85-115	1		12/12/12 23:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-119	1		12/12/12 23:48	17060-07-0	
Toluene-d8 (S)	93	%	85-115	1		12/12/12 23:48	2037-26-5	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

QC Batch: MSV/14821 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

METHOD BLANK: 523196 Matrix: Water
Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,1-Dichloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,1-Dichloroethene	ug/L	ND	1.0	12/12/12 16:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
1,2-Dichloroethane	ug/L	ND	1.0	12/12/12 16:31	
1,2-Dichloropropane	ug/L	ND	1.0	12/12/12 16:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
2-Butanone (MEK)	ug/L	ND	10.0	12/12/12 16:31	
2-Hexanone	ug/L	ND	10.0	12/12/12 16:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/12/12 16:31	
Acetone	ug/L	ND	10.0	12/12/12 16:31	
Benzene	ug/L	ND	1.0	12/12/12 16:31	
Bromochloromethane	ug/L	ND	1.0	12/12/12 16:31	
Bromodichloromethane	ug/L	ND	1.0	12/12/12 16:31	
Bromoform	ug/L	ND	1.0	12/12/12 16:31	
Bromomethane	ug/L	ND	1.0	12/12/12 16:31	
Carbon disulfide	ug/L	ND	1.0	12/12/12 16:31	
Carbon tetrachloride	ug/L	ND	1.0	12/12/12 16:31	
Chlorobenzene	ug/L	ND	1.0	12/12/12 16:31	
Chloroethane	ug/L	ND	1.0	12/12/12 16:31	
Chloroform	ug/L	ND	1.0	12/12/12 16:31	
Chloromethane	ug/L	ND	1.0	12/12/12 16:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/12/12 16:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/12/12 16:31	
Dibromochloromethane	ug/L	ND	1.0	12/12/12 16:31	
Ethylbenzene	ug/L	ND	1.0	12/12/12 16:31	
m&p-Xylene	ug/L	ND	2.0	12/12/12 16:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/12/12 16:31	
Methylene Chloride	ug/L	1.2	1.0	12/12/12 16:31	B,C9
o-Xylene	ug/L	ND	1.0	12/12/12 16:31	
Styrene	ug/L	ND	1.0	12/12/12 16:31	
Tetrachloroethene	ug/L	ND	1.0	12/12/12 16:31	
Toluene	ug/L	ND	1.0	12/12/12 16:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/12/12 16:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/12/12 16:31	
Trichloroethene	ug/L	ND	1.0	12/12/12 16:31	
Vinyl chloride	ug/L	ND	1.0	12/12/12 16:31	
Xylene (Total)	ug/L	ND	3.0	12/12/12 16:31	
1,2-Dichloroethane-d4 (S)	%	100	77-119	12/12/12 16:31	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

METHOD BLANK: 523196 Matrix: Water

Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	97	85-115	12/12/12 16:31	
Toluene-d8 (S)	%	95	85-115	12/12/12 16:31	

LABORATORY CONTROL SAMPLE: 523197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.9	104	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	100	61-117	
1,1,2-Trichloroethane	ug/L	20	20.6	103	72-119	
1,1-Dichloroethane	ug/L	20	21.3	107	63-123	
1,1-Dichloroethene	ug/L	20	20.7	104	57-127	
1,2,4-Trichlorobenzene	ug/L	20	17.9	90	52-138	
1,2-Dichlorobenzene	ug/L	20	19.6	98	70-116	
1,2-Dichloroethane	ug/L	20	20.4	102	62-125	
1,2-Dichloropropane	ug/L	20	20.3	101	69-115	
1,3-Dichlorobenzene	ug/L	20	20.3	101	71-118	
1,4-Dichlorobenzene	ug/L	20	19.6	98	67-119	
2-Butanone (MEK)	ug/L	20	22.1	110	48-136	
2-Hexanone	ug/L	20	21.2	106	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.9	109	57-124	
Acetone	ug/L	20	19.0	95	49-138	
Benzene	ug/L	20	20.4	102	66-122	
Bromochloromethane	ug/L	20	20.0	100	61-126	
Bromodichloromethane	ug/L	20	19.8	99	63-118	
Bromoform	ug/L	20	19.9	100	46-130	
Bromomethane	ug/L	20	23.0	115	10-175	
Carbon disulfide	ug/L	20	24.4	122	59-142	
Carbon tetrachloride	ug/L	20	20.2	101	55-126	
Chlorobenzene	ug/L	20	20.7	103	70-121	
Chloroethane	ug/L	20	18.6	93	24-161	
Chloroform	ug/L	20	18.9	94	62-126	
Chloromethane	ug/L	20	17.9	89	37-147	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	64-121	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	64-118	
Dibromochloromethane	ug/L	20	20.2	101	60-120	
Ethylbenzene	ug/L	20	20.5	103	69-119	
m&p-Xylene	ug/L	40	42.3	106	70-124	
Methyl-tert-butyl ether	ug/L	20	20.3	102	58-131	
Methylene Chloride	ug/L	20	21.5	108	59-128	
o-Xylene	ug/L	20	21.8	109	67-123	
Styrene	ug/L	20	21.9	110	67-146	
Tetrachloroethene	ug/L	20	19.2	96	62-125	
Toluene	ug/L	20	20.0	100	72-115	
trans-1,2-Dichloroethene	ug/L	20	21.1	105	59-122	
trans-1,3-Dichloropropene	ug/L	20	20.9	104	64-120	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

LABORATORY CONTROL SAMPLE: 523197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	19.1	96	62-125	
Vinyl chloride	ug/L	20	17.6	88	52-145	
Xylene (Total)	ug/L	60	64.1	107	70-123	
1,2-Dichloroethane-d4 (S)	%			101	77-119	
4-Bromofluorobenzene (S)	%			101	85-115	
Toluene-d8 (S)	%			97	85-115	

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

QC Batch: OEXT/13729 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

METHOD BLANK: 523172 Matrix: Water
Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
1-Methylnaphthalene	ug/L	ND	1.0	12/13/12 14:57	N2
2,4,5-Trichlorophenol	ug/L	ND	2.5	12/13/12 14:57	
2,4,6-Trichlorophenol	ug/L	ND	1.0	12/13/12 14:57	
2,4-Dichlorophenol	ug/L	ND	1.0	12/13/12 14:57	
2,4-Dimethylphenol	ug/L	ND	1.0	12/13/12 14:57	
2,4-Dinitrophenol	ug/L	ND	2.5	12/13/12 14:57	
2,4-Dinitrotoluene	ug/L	ND	1.0	12/13/12 14:57	
2,6-Dinitrotoluene	ug/L	ND	1.0	12/13/12 14:57	
2-Chloronaphthalene	ug/L	ND	1.0	12/13/12 14:57	
2-Chlorophenol	ug/L	ND	1.0	12/13/12 14:57	
2-Methylnaphthalene	ug/L	ND	1.0	12/13/12 14:57	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	12/13/12 14:57	
2-Nitroaniline	ug/L	ND	2.5	12/13/12 14:57	
2-Nitrophenol	ug/L	ND	1.0	12/13/12 14:57	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	12/13/12 14:57	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	12/13/12 14:57	
3-Nitroaniline	ug/L	ND	2.5	12/13/12 14:57	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	12/13/12 14:57	
4-Bromophenylphenyl ether	ug/L	ND	1.0	12/13/12 14:57	
4-Chloro-3-methylphenol	ug/L	ND	1.0	12/13/12 14:57	
4-Chloroaniline	ug/L	ND	1.0	12/13/12 14:57	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	12/13/12 14:57	
4-Nitroaniline	ug/L	ND	2.5	12/13/12 14:57	
4-Nitrophenol	ug/L	ND	1.0	12/13/12 14:57	
Acenaphthene	ug/L	ND	1.0	12/13/12 14:57	
Acenaphthylene	ug/L	ND	1.0	12/13/12 14:57	
Anthracene	ug/L	ND	1.0	12/13/12 14:57	
Azobenzene	ug/L	ND	1.0	12/13/12 14:57	N2
Benzo(a)anthracene	ug/L	ND	1.0	12/13/12 14:57	
Benzo(a)pyrene	ug/L	ND	1.0	12/13/12 14:57	
Benzo(b)fluoranthene	ug/L	ND	1.0	12/13/12 14:57	
Benzo(g,h,i)perylene	ug/L	ND	1.0	12/13/12 14:57	
Benzo(k)fluoranthene	ug/L	ND	1.0	12/13/12 14:57	
Benzoic acid	ug/L	ND	100	12/13/12 14:57	
Benzyl alcohol	ug/L	ND	1.0	12/13/12 14:57	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	12/13/12 14:57	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	12/13/12 14:57	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	12/13/12 14:57	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	12/13/12 14:57	

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(724)850-5600

QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

METHOD BLANK: 523172 Matrix: Water

Associated Lab Samples: 3083659001, 3083659002, 3083659003, 3083659004, 3083659005, 3083659006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Carbazole	ug/L	ND	1.0	12/13/12 14:57	
Chrysene	ug/L	ND	1.0	12/13/12 14:57	
Di-n-butylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Di-n-octylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Dibenz(a,h)anthracene	ug/L	ND	1.0	12/13/12 14:57	
Dibenzofuran	ug/L	ND	1.0	12/13/12 14:57	
Diethylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Dimethylphthalate	ug/L	ND	1.0	12/13/12 14:57	
Fluoranthene	ug/L	ND	1.0	12/13/12 14:57	
Fluorene	ug/L	ND	1.0	12/13/12 14:57	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/13/12 14:57	
Hexachlorobenzene	ug/L	ND	1.0	12/13/12 14:57	
Hexachlorocyclopentadiene	ug/L	ND	1.0	12/13/12 14:57	
Hexachloroethane	ug/L	ND	1.0	12/13/12 14:57	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	12/13/12 14:57	
Isophorone	ug/L	ND	1.0	12/13/12 14:57	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	12/13/12 14:57	
N-Nitrosodimethylamine	ug/L	ND	1.0	12/13/12 14:57	
N-Nitrosodiphenylamine	ug/L	ND	1.0	12/13/12 14:57	
Naphthalene	ug/L	ND	1.0	12/13/12 14:57	
Nitrobenzene	ug/L	ND	1.0	12/13/12 14:57	
Pentachlorophenol	ug/L	ND	2.5	12/13/12 14:57	
Phenanthrene	ug/L	ND	1.0	12/13/12 14:57	
Phenol	ug/L	ND	1.0	12/13/12 14:57	
Pyrene	ug/L	ND	1.0	12/13/12 14:57	
2,4,6-Tribromophenol (S)	%	72	10-123	12/13/12 14:57	
2-Fluorobiphenyl (S)	%	62	43-116	12/13/12 14:57	
2-Fluorophenol (S)	%	37	21-110	12/13/12 14:57	
Nitrobenzene-d5 (S)	%	59	35-114	12/13/12 14:57	
Phenol-d6 (S)	%	22	10-110	12/13/12 14:57	
Terphenyl-d14 (S)	%	106	33-141	12/13/12 14:57	

LABORATORY CONTROL SAMPLE: 523173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	5	2.9	58	12-105	
1,2-Dichlorobenzene	ug/L		ND			
1,3-Dichlorobenzene	ug/L		ND			
1,4-Dichlorobenzene	ug/L	5	2.9	57	10-95	
1-Methylnaphthalene	ug/L	5	3.3	66	15-106	N2
2,4,5-Trichlorophenol	ug/L		ND			
2,4,6-Trichlorophenol	ug/L		ND			
2,4-Dichlorophenol	ug/L		ND			
2,4-Dimethylphenol	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

LABORATORY CONTROL SAMPLE: 523173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L		ND			
2,4-Dinitrotoluene	ug/L	5	3.1	62	10-133	
2,6-Dinitrotoluene	ug/L		ND			
2-Chloronaphthalene	ug/L		ND			
2-Chlorophenol	ug/L	5	3.1	63	10-111	
2-Methylnaphthalene	ug/L	5	2.9	59	10-98	
2-Methylphenol(o-Cresol)	ug/L		ND			
2-Nitroaniline	ug/L		ND			
2-Nitrophenol	ug/L		ND			
3&4-Methylphenol(m&p Cresol)	ug/L		ND			
3,3'-Dichlorobenzidine	ug/L		ND			
3-Nitroaniline	ug/L		ND			
4,6-Dinitro-2-methylphenol	ug/L		ND			
4-Bromophenylphenyl ether	ug/L		ND			
4-Chloro-3-methylphenol	ug/L	5	3.4	67	10-129	
4-Chloroaniline	ug/L		ND			
4-Chlorophenylphenyl ether	ug/L		ND			
4-Nitroaniline	ug/L		ND			
4-Nitrophenol	ug/L	5	1.5	30	10-54	
Acenaphthene	ug/L	5	3.3	66	12-123	
Acenaphthylene	ug/L	5	3.3	65	11-131	
Anthracene	ug/L	5	3.6	71	11-135	
Azobenzene	ug/L		ND			N2
Benzo(a)anthracene	ug/L	5	3.8	76	24-138	
Benzo(a)pyrene	ug/L	5	3.9	78	20-136	
Benzo(b)fluoranthene	ug/L	5	4.2	85	19-147	
Benzo(g,h,i)perylene	ug/L	5	3.0	60	11-156	
Benzo(k)fluoranthene	ug/L	5	4.3	86	22-154	
Benzoic acid	ug/L		ND			
Benzyl alcohol	ug/L		ND			
bis(2-Chloroethoxy)methane	ug/L		ND			
bis(2-Chloroethyl) ether	ug/L		ND			
bis(2-Chloroisopropyl) ether	ug/L		ND			
bis(2-Ethylhexyl)phthalate	ug/L		ND			
Butylbenzylphthalate	ug/L		ND			
Carbazole	ug/L		ND			
Chrysene	ug/L	5	4.1	81	14-158	
Di-n-butylphthalate	ug/L		ND			
Di-n-octylphthalate	ug/L		ND			
Dibenz(a,h)anthracene	ug/L	5	3.4	67	13-154	
Dibenzofuran	ug/L		ND			
Diethylphthalate	ug/L		ND			
Dimethylphthalate	ug/L		ND			
Fluoranthene	ug/L	5	3.9	78	20-135	
Fluorene	ug/L	5	3.5	69	11-128	
Hexachloro-1,3-butadiene	ug/L		ND			
Hexachlorobenzene	ug/L		ND			
Hexachlorocyclopentadiene	ug/L		ND			

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QUALITY CONTROL DATA

Project: North Albany, NY 12-037
Pace Project No.: 3083659

LABORATORY CONTROL SAMPLE: 523173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L		ND			
Indeno(1,2,3-cd)pyrene	ug/L	5	3.2	64	15-148	
Isophorone	ug/L		ND			
N-Nitroso-di-n-propylamine	ug/L	5	3.5	69	10-136	
N-Nitrosodimethylamine	ug/L		ND			
N-Nitrosodiphenylamine	ug/L		ND			
Naphthalene	ug/L	5	3.2	63	12-116	
Nitrobenzene	ug/L		ND			
Pentachlorophenol	ug/L	5	3.0	60	13-129	
Phenanthrene	ug/L	5	3.6	71	13-134	
Phenol	ug/L	5	1.2	24	10-47	
Pyrene	ug/L	5	3.9	77	10-158	
2,4,6-Tribromophenol (S)	%			70	10-123	
2-Fluorobiphenyl (S)	%			62	43-116	
2-Fluorophenol (S)	%			39	21-110	
Nitrobenzene-d5 (S)	%			61	35-114	
Phenol-d6 (S)	%			24	10-110	
Terphenyl-d14 (S)	%			94	33-141	

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QUALIFIERS

Project: North Albany, NY 12-037
Pace Project No.: 3083659

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

WORKORDER QUALIFIERS

WO: 3083659

[1] Cooler temperature 11.3 ° C upon receipt. Ice was present.

BATCH QUALIFIERS

Batch: OEXT/13729

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/14821

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C9 Common Laboratory Contaminant.

N2 The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: North Albany, NY 12-037
Pace Project No.: 3083659

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3083659001	**Mix 37-3 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659002	**Mix 37-4 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659003	**Mix 37-6 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659004	**Mix 37-8 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659005	**Mix 37-11 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659006	**Mix 37-12 Int 15**	EPA 3510	OEXT/13729	EPA 8270	MSSV/4672
3083659001	**Mix 37-3 Int 15**	EPA 8260	MSV/14821		
3083659002	**Mix 37-4 Int 15**	EPA 8260	MSV/14821		
3083659003	**Mix 37-6 Int 15**	EPA 8260	MSV/14821		
3083659004	**Mix 37-8 Int 15**	EPA 8260	MSV/14821		
3083659005	**Mix 37-11 Int 15**	EPA 8260	MSV/14821		
3083659006	**Mix 37-12 Int 15**	EPA 8260	MSV/14821		

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December 24, 2012

Mr. Bill Buccille
GeoCon
400 Penn Center Blvd.
Pittsburgh, PA 15235

RE: Project: 12-037 North Albany NY
Pace Project No.: 3084162

Dear Mr. Buccille:
Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE ANALYTE COUNT

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3084162001	**Mix 37-3 Interval 20**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3084162002	**Mix 37-4 Interval 20**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3084162003	**Mix 37-6 Interval 20**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3084162004	**Mix 37-8 Interval 20**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3084162005	**Mix 37-11 Interval 20**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3084162006	**Mix 37-12 Interval 20**	EPA 8270	SPL	75	PASI-PA
		EPA 8260	JAS	46	PASI-PA

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PROJECT NARRATIVE

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 24, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/4698

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/13816

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 525979)
  - 1-Methylnaphthalene
  - Azobenzene
- LCS (Lab ID: 525980)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: GeoCon
Date: December 24, 2012

Analyte Comments:

QC Batch: OEXT/13816

N2: The lab does not hold TNI accreditation for this parameter.

- Mix 37-11 Interval 20 (Lab ID: 3084162005)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-12 Interval 20 (Lab ID: 3084162006)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-3 Interval 20 (Lab ID: 3084162001)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-4 Interval 20 (Lab ID: 3084162002)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-6 Interval 20 (Lab ID: 3084162003)
  - 1-Methylnaphthalene
  - Azobenzene
- Mix 37-8 Interval 20 (Lab ID: 3084162004)
  - 1-Methylnaphthalene
  - Azobenzene

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PROJECT NARRATIVE

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 24, 2012

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MSV/14915

B: Analyte was detected in the associated method blank.
- BLANK (Lab ID: 525831)
  - 1,2,4-Trichlorobenzene
  - Methylene Chloride

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/14915

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: MSV/14915

C9: Common Laboratory Contaminant.
- BLANK (Lab ID: 525831)
  - Methylene Chloride

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PROJECT NARRATIVE

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Method: **EPA 8260**
Description: 8260 MSV
Client: GeoCon
Date: December 24, 2012

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-3 Interval 20 **Lab ID: 3084162001** Collected: 12/16/12 11:00 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**14.3**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	83-32-9	
Acenaphthylene	**6.4**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	208-96-8	
Anthracene	**2.6**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	207-08-9	
Benzoic acid	ND	ug/L	103	1	12/20/12 08:45	12/21/12 10:28	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	85-68-7	
Carbazole	**9.7**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	53-70-3	
Dibenzofuran	**4.1**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:28	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:28	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	117-81-7	
Fluoranthene	**2.5**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	206-44-0	
Fluorene	**7.0**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	193-39-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-3 Interval 20 **Lab ID: 3084162001** Collected: 12/16/12 11:00 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	78-59-1	
1-Methylnaphthalene	ND	ug/L	20.6	20	12/20/12 08:45	12/21/12 14:33	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	20.6	20	12/20/12 08:45	12/21/12 14:33	91-57-6	
2-Methylphenol(o-Cresol)	**3.6**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	**4.0**	ug/L	2.1	1	12/20/12 08:45	12/21/12 10:28		
Naphthalene	**263**	ug/L	20.6	20	12/20/12 08:45	12/21/12 14:33	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:28	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:28	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:28	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:28	87-86-5	
Phenanthrene	**9.6**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	85-01-8	
Phenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	108-95-2	
Pyrene	**2.8**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:28	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	56	%	35-114	1	12/20/12 08:45	12/21/12 10:28	4165-60-0	
2-Fluorobiphenyl (S)	85	%	43-116	1	12/20/12 08:45	12/21/12 10:28	321-60-8	
Terphenyl-d14 (S)	128	%	33-141	1	12/20/12 08:45	12/21/12 10:28	1718-51-0	
Phenol-d6 (S)	32	%	10-110	1	12/20/12 08:45	12/21/12 10:28	13127-88-3	
2-Fluorophenol (S)	46	%	21-110	1	12/20/12 08:45	12/21/12 10:28	367-12-4	
2,4,6-Tribromophenol (S)	84	%	10-123	1	12/20/12 08:45	12/21/12 10:28	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/19/12 19:26	67-64-1	
Benzene	**12.8**	ug/L	1.0	1		12/19/12 19:26	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/19/12 19:26	74-97-5	
Bromodichloromethane	**10**	ug/L	1.0	1		12/19/12 19:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/19/12 19:26	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/19/12 19:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/19/12 19:26	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/19/12 19:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/12 19:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/12 19:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/12 19:26	75-00-3	
Chloroform	**17.8**	ug/L	1.0	1		12/19/12 19:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/12 19:26	74-87-3	
Dibromochloromethane	**4.3**	ug/L	1.0	1		12/19/12 19:26	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 19:26	541-73-1	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-3 Interval 20 **Lab ID: 3084162001** Collected: 12/16/12 11:00 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 19:26	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/12 19:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/12 19:26	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/19/12 19:26	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/12 19:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 19:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/12 19:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 19:26	10061-02-6	
Ethylbenzene	**25.8**	ug/L	1.0	1		12/19/12 19:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/19/12 19:26	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/19/12 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/19/12 19:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/12 19:26	1634-04-4	
Styrene	**3.6**	ug/L	1.0	1		12/19/12 19:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/12 19:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/12 19:26	127-18-4	
Toluene	**17.1**	ug/L	1.0	1		12/19/12 19:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/12 19:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/12 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/12 19:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/12 19:26	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/19/12 19:26	75-01-4	
Xylene (Total)	**24.6**	ug/L	3.0	1		12/19/12 19:26	1330-20-7	
m&p-Xylene	**15.0**	ug/L	2.0	1		12/19/12 19:26	179601-23-1	
o-Xylene	**9.6**	ug/L	1.0	1		12/19/12 19:26	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	85-115	1		12/19/12 19:26	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	77-119	1		12/19/12 19:26	17060-07-0	
Toluene-d8 (S)	87	%	85-115	1		12/19/12 19:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-4 Interval 20 **Lab ID: 3084162002** Collected: 12/16/12 11:05 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	208-96-8	
Anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	207-08-9	
Benzoic acid	ND	ug/L	103	1	12/20/12 08:45	12/21/12 10:50	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	117-81-7	
Fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	206-44-0	
Fluorene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	193-39-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-4 Interval 20 **Lab ID: 3084162002** Collected: 12/16/12 11:05 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.1	1	12/20/12 08:45	12/21/12 10:50		
Naphthalene	**5.2**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:50	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:50	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:50	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:50	87-86-5	
Phenanthrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	85-01-8	
Phenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	108-95-2	
Pyrene	**1.9**	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 10:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 10:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%	35-114	1	12/20/12 08:45	12/21/12 10:50	4165-60-0	
2-Fluorobiphenyl (S)	77	%	43-116	1	12/20/12 08:45	12/21/12 10:50	321-60-8	
Terphenyl-d14 (S)	125	%	33-141	1	12/20/12 08:45	12/21/12 10:50	1718-51-0	
Phenol-d6 (S)	27	%	10-110	1	12/20/12 08:45	12/21/12 10:50	13127-88-3	
2-Fluorophenol (S)	45	%	21-110	1	12/20/12 08:45	12/21/12 10:50	367-12-4	
2,4,6-Tribromophenol (S)	81	%	10-123	1	12/20/12 08:45	12/21/12 10:50	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/19/12 19:53	67-64-1	
Benzene	**3.4**	ug/L	1.0	1		12/19/12 19:53	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/19/12 19:53	74-97-5	
Bromodichloromethane	**10.3**	ug/L	1.0	1		12/19/12 19:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/19/12 19:53	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/19/12 19:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/19/12 19:53	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/19/12 19:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/12 19:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/12 19:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/12 19:53	75-00-3	
Chloroform	**17.8**	ug/L	1.0	1		12/19/12 19:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/12 19:53	74-87-3	
Dibromochloromethane	**4.7**	ug/L	1.0	1		12/19/12 19:53	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 19:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 19:53	541-73-1	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-4 Interval 20 **Lab ID: 3084162002** Collected: 12/16/12 11:05 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 19:53	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/12 19:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/12 19:53	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/19/12 19:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/12 19:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 19:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/12 19:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 19:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 19:53	10061-02-6	
Ethylbenzene	**4.9**	ug/L	1.0	1		12/19/12 19:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/19/12 19:53	591-78-6	
Methylene Chloride	**2.7**	ug/L	1.0	1		12/19/12 19:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/19/12 19:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/12 19:53	1634-04-4	
Styrene	ND	ug/L	1.0	1		12/19/12 19:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/12 19:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/12 19:53	127-18-4	
Toluene	**3.2**	ug/L	1.0	1		12/19/12 19:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/12 19:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/12 19:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/12 19:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/12 19:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/19/12 19:53	75-01-4	
Xylene (Total)	**4.1**	ug/L	3.0	1		12/19/12 19:53	1330-20-7	
m&p-Xylene	**2.7**	ug/L	2.0	1		12/19/12 19:53	179601-23-1	
o-Xylene	**1.5**	ug/L	1.0	1		12/19/12 19:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		12/19/12 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	77-119	1		12/19/12 19:53	17060-07-0	
Toluene-d8 (S)	88	%	85-115	1		12/19/12 19:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-6 Interval 20 **Lab ID: 3084162003** Collected: 12/16/12 11:10 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**3.1**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	208-96-8	
Anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	207-08-9	
Benzoic acid	ND	ug/L	105	1	12/20/12 08:45	12/21/12 11:12	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	85-68-7	
Carbazole	**1.4**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:12	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:12	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	117-81-7	
Fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	206-44-0	
Fluorene	**1.4**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	193-39-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-6 Interval 20 **Lab ID: 3084162003** Collected: 12/16/12 11:10 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.1	1	12/20/12 08:45	12/21/12 11:12		
Naphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:12	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:12	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:12	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:12	87-86-5	
Phenanthrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	85-01-8	
Phenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	108-95-2	
Pyrene	**2.4**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:12	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	67	%	35-114	1	12/20/12 08:45	12/21/12 11:12	4165-60-0	
2-Fluorobiphenyl (S)	72	%	43-116	1	12/20/12 08:45	12/21/12 11:12	321-60-8	
Terphenyl-d14 (S)	126	%	33-141	1	12/20/12 08:45	12/21/12 11:12	1718-51-0	
Phenol-d6 (S)	29	%	10-110	1	12/20/12 08:45	12/21/12 11:12	13127-88-3	
2-Fluorophenol (S)	39	%	21-110	1	12/20/12 08:45	12/21/12 11:12	367-12-4	
2,4,6-Tribromophenol (S)	81	%	10-123	1	12/20/12 08:45	12/21/12 11:12	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/19/12 20:19	67-64-1	
Benzene	**4.0**	ug/L	1.0	1		12/19/12 20:19	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/19/12 20:19	74-97-5	
Bromodichloromethane	**10.7**	ug/L	1.0	1		12/19/12 20:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/19/12 20:19	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/19/12 20:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/19/12 20:19	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/19/12 20:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/12 20:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/12 20:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/12 20:19	75-00-3	
Chloroform	**18.6**	ug/L	1.0	1		12/19/12 20:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/12 20:19	74-87-3	
Dibromochloromethane	**5.0**	ug/L	1.0	1		12/19/12 20:19	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 20:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 20:19	541-73-1	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-6 Interval 20 **Lab ID: 3084162003** Collected: 12/16/12 11:10 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 20:19	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/12 20:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/12 20:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/19/12 20:19	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/12 20:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 20:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 20:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/12 20:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 20:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 20:19	10061-02-6	
Ethylbenzene	**5.9**	ug/L	1.0	1		12/19/12 20:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/19/12 20:19	591-78-6	
Methylene Chloride	**3.0**	ug/L	1.0	1		12/19/12 20:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/19/12 20:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/12 20:19	1634-04-4	
Styrene	ND	ug/L	1.0	1		12/19/12 20:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/12 20:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/12 20:19	127-18-4	
Toluene	**4.6**	ug/L	1.0	1		12/19/12 20:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/12 20:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/12 20:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/12 20:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/12 20:19	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/19/12 20:19	75-01-4	
Xylene (Total)	**4.9**	ug/L	3.0	1		12/19/12 20:19	1330-20-7	
m&p-Xylene	**3.3**	ug/L	2.0	1		12/19/12 20:19	179601-23-1	
o-Xylene	**1.6**	ug/L	1.0	1		12/19/12 20:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	85-115	1		12/19/12 20:19	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	77-119	1		12/19/12 20:19	17060-07-0	
Toluene-d8 (S)	89	%	85-115	1		12/19/12 20:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-8 Interval 20 **Lab ID: 3084162004** Collected: 12/16/12 11:15 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	51.0	50	12/20/12 08:45	12/21/12 14:55	83-32-9	
Acenaphthylene	ND	ug/L	51.0	50	12/20/12 08:45	12/21/12 14:55	208-96-8	
Anthracene	**3.0**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	207-08-9	
Benzoic acid	ND	ug/L	102	1	12/20/12 08:45	12/21/12 11:34	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	85-68-7	
Carbazole	**1.0**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:34	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:34	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	117-81-7	
Fluoranthene	**4.3**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	206-44-0	
Fluorene	**11.0**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	193-39-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-8 Interval 20 **Lab ID: 3084162004** Collected: 12/16/12 11:15 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	78-59-1	
1-Methylnaphthalene	ND	ug/L	51.0	50	12/20/12 08:45	12/21/12 14:55	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	51.0	50	12/20/12 08:45	12/21/12 14:55	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/20/12 08:45	12/21/12 11:34		
Naphthalene	**755**	ug/L	51.0	50	12/20/12 08:45	12/21/12 14:55	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:34	88-74-4	
3-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:34	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:34	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:34	87-86-5	
Phenanthrene	**18.5**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	85-01-8	
Phenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	108-95-2	
Pyrene	**4.9**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1	12/20/12 08:45	12/21/12 11:34	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:34	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	88	%	35-114	1	12/20/12 08:45	12/21/12 11:34	4165-60-0	
2-Fluorobiphenyl (S)	81	%	43-116	1	12/20/12 08:45	12/21/12 11:34	321-60-8	
Terphenyl-d14 (S)	117	%	33-141	1	12/20/12 08:45	12/21/12 11:34	1718-51-0	
Phenol-d6 (S)	33	%	10-110	1	12/20/12 08:45	12/21/12 11:34	13127-88-3	
2-Fluorophenol (S)	49	%	21-110	1	12/20/12 08:45	12/21/12 11:34	367-12-4	
2,4,6-Tribromophenol (S)	84	%	10-123	1	12/20/12 08:45	12/21/12 11:34	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/19/12 20:46	67-64-1	
Benzene	**171**	ug/L	1.0	1		12/19/12 20:46	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/19/12 20:46	74-97-5	
Bromodichloromethane	**9.6**	ug/L	1.0	1		12/19/12 20:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/19/12 20:46	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/19/12 20:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/19/12 20:46	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/19/12 20:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/12 20:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/12 20:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/12 20:46	75-00-3	
Chloroform	**17.4**	ug/L	1.0	1		12/19/12 20:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/12 20:46	74-87-3	
Dibromochloromethane	**4.5**	ug/L	1.0	1		12/19/12 20:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 20:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 20:46	541-73-1	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-8 Interval 20 **Lab ID: 3084162004** Collected: 12/16/12 11:15 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 20:46	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/12 20:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/12 20:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/19/12 20:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/12 20:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 20:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 20:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/12 20:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 20:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 20:46	10061-02-6	
Ethylbenzene	**93.0**	ug/L	1.0	1		12/19/12 20:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/19/12 20:46	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/19/12 20:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/19/12 20:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/12 20:46	1634-04-4	
Styrene	**11.5**	ug/L	1.0	1		12/19/12 20:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/12 20:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/12 20:46	127-18-4	
Toluene	**77.2**	ug/L	1.0	1		12/19/12 20:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/12 20:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/12 20:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/12 20:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/12 20:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/19/12 20:46	75-01-4	
Xylene (Total)	**39.8**	ug/L	3.0	1		12/19/12 20:46	1330-20-7	
m&p-Xylene	**28.0**	ug/L	2.0	1		12/19/12 20:46	179601-23-1	
o-Xylene	**11.7**	ug/L	1.0	1		12/19/12 20:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	85-115	1		12/19/12 20:46	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	77-119	1		12/19/12 20:46	17060-07-0	
Toluene-d8 (S)	86	%	85-115	1		12/19/12 20:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-11 Interval 20 **Lab ID: 3084162005** Collected: 12/16/12 11:20 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**14.6**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	83-32-9	
Acenaphthylene	**19.3**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	208-96-8	
Anthracene	**1.1**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	207-08-9	
Benzoic acid	ND	ug/L	101	1	12/20/12 08:45	12/21/12 11:56	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 11:56	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 11:56	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	117-81-7	
Fluoranthene	**1.8**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	206-44-0	
Fluorene	**4.8**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	193-39-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-11 Interval 20 **Lab ID: 3084162005** Collected: 12/16/12 11:20 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	78-59-1	
1-Methylnaphthalene	**7.8**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	90-12-0	N2
2-Methylnaphthalene	**6.9**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/20/12 08:45	12/21/12 11:56		
Naphthalene	**249**	ug/L	20.2	20	12/20/12 08:45	12/21/12 15:17	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 11:56	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 11:56	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 11:56	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 11:56	87-86-5	
Phenanthrene	**2.7**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	85-01-8	
Phenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	108-95-2	
Pyrene	**2.2**	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 11:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 11:56	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	81	%	35-114	1	12/20/12 08:45	12/21/12 11:56	4165-60-0	
2-Fluorobiphenyl (S)	80	%	43-116	1	12/20/12 08:45	12/21/12 11:56	321-60-8	
Terphenyl-d14 (S)	117	%	33-141	1	12/20/12 08:45	12/21/12 11:56	1718-51-0	
Phenol-d6 (S)	33	%	10-110	1	12/20/12 08:45	12/21/12 11:56	13127-88-3	
2-Fluorophenol (S)	44	%	21-110	1	12/20/12 08:45	12/21/12 11:56	367-12-4	
2,4,6-Tribromophenol (S)	85	%	10-123	1	12/20/12 08:45	12/21/12 11:56	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/19/12 21:13	67-64-1	
Benzene	**99.5**	ug/L	1.0	1		12/19/12 21:13	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/19/12 21:13	74-97-5	
Bromodichloromethane	**10.1**	ug/L	1.0	1		12/19/12 21:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/19/12 21:13	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/19/12 21:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/19/12 21:13	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/19/12 21:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/12 21:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/12 21:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/12 21:13	75-00-3	
Chloroform	**17.4**	ug/L	1.0	1		12/19/12 21:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/12 21:13	74-87-3	
Dibromochloromethane	**4.6**	ug/L	1.0	1		12/19/12 21:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 21:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 21:13	541-73-1	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-11 Interval 20 **Lab ID: 3084162005** Collected: 12/16/12 11:20 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 21:13	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/12 21:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/12 21:13	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/19/12 21:13	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/12 21:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 21:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 21:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/12 21:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 21:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 21:13	10061-02-6	
Ethylbenzene	**56.5**	ug/L	1.0	1		12/19/12 21:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/19/12 21:13	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/19/12 21:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/19/12 21:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/12 21:13	1634-04-4	
Styrene	**5.5**	ug/L	1.0	1		12/19/12 21:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/12 21:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/12 21:13	127-18-4	
Toluene	**42.5**	ug/L	1.0	1		12/19/12 21:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/12 21:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/12 21:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/12 21:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/12 21:13	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/19/12 21:13	75-01-4	
Xylene (Total)	**21.5**	ug/L	3.0	1		12/19/12 21:13	1330-20-7	
m&p-Xylene	**15.3**	ug/L	2.0	1		12/19/12 21:13	179601-23-1	
o-Xylene	**6.1**	ug/L	1.0	1		12/19/12 21:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	85-115	1		12/19/12 21:13	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	77-119	1		12/19/12 21:13	17060-07-0	
Toluene-d8 (S)	89	%	85-115	1		12/19/12 21:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-12 Interval 20 **Lab ID: 3084162006** Collected: 12/16/12 11:25 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	**4.9**	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	208-96-8	
Anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	120-12-7	
Azobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	207-08-9	
Benzoic acid	ND	ug/L	101	1	12/20/12 08:45	12/21/12 12:18	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	85-68-7	
Carbazole	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	7005-72-3	
Chrysene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	53-70-3	
Dibenzofuran	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	120-83-2	
Diethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 12:18	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 12:18	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	606-20-2	
Di-n-octylphthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	117-81-7	
Fluoranthene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	206-44-0	
Fluorene	**1.3**	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	77-47-4	
Hexachloroethane	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	193-39-5	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-12 Interval 20 **Lab ID: 3084162006** Collected: 12/16/12 11:25 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1	12/20/12 08:45	12/21/12 12:18		
Naphthalene	**6.2**	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 12:18	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 12:18	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 12:18	100-01-6	
Nitrobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 12:18	87-86-5	
Phenanthrene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	85-01-8	
Phenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	108-95-2	
Pyrene	**1.2**	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1	12/20/12 08:45	12/21/12 12:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	1	12/20/12 08:45	12/21/12 12:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	78	%	35-114	1	12/20/12 08:45	12/21/12 12:18	4165-60-0	
2-Fluorobiphenyl (S)	77	%	43-116	1	12/20/12 08:45	12/21/12 12:18	321-60-8	
Terphenyl-d14 (S)	118	%	33-141	1	12/20/12 08:45	12/21/12 12:18	1718-51-0	
Phenol-d6 (S)	34	%	10-110	1	12/20/12 08:45	12/21/12 12:18	13127-88-3	
2-Fluorophenol (S)	43	%	21-110	1	12/20/12 08:45	12/21/12 12:18	367-12-4	
2,4,6-Tribromophenol (S)	83	%	10-123	1	12/20/12 08:45	12/21/12 12:18	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/19/12 21:39	67-64-1	
Benzene	**66.9**	ug/L	1.0	1		12/19/12 21:39	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/19/12 21:39	74-97-5	
Bromodichloromethane	**10.5**	ug/L	1.0	1		12/19/12 21:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/19/12 21:39	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/19/12 21:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/19/12 21:39	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/19/12 21:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/12 21:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/12 21:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/12 21:39	75-00-3	
Chloroform	**18.2**	ug/L	1.0	1		12/19/12 21:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/12 21:39	74-87-3	
Dibromochloromethane	**4.5**	ug/L	1.0	1		12/19/12 21:39	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 21:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 21:39	541-73-1	

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ANALYTICAL RESULTS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Sample: Mix 37-12 Interval 20 **Lab ID: 3084162006** Collected: 12/16/12 11:25 Received: 12/18/12 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/12 21:39	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/12 21:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/12 21:39	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		12/19/12 21:39	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/12 21:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 21:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/12 21:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/12 21:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 21:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/12 21:39	10061-02-6	
Ethylbenzene	**35.9**	ug/L	1.0	1		12/19/12 21:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/19/12 21:39	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/19/12 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/19/12 21:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/12 21:39	1634-04-4	
Styrene	**3.2**	ug/L	1.0	1		12/19/12 21:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/12 21:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/12 21:39	127-18-4	
Toluene	**26.8**	ug/L	1.0	1		12/19/12 21:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/12 21:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/12 21:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/12 21:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/12 21:39	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/19/12 21:39	75-01-4	
Xylene (Total)	**14.5**	ug/L	3.0	1		12/19/12 21:39	1330-20-7	
m&p-Xylene	**10.5**	ug/L	2.0	1		12/19/12 21:39	179601-23-1	
o-Xylene	**4.0**	ug/L	1.0	1		12/19/12 21:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	85-115	1		12/19/12 21:39	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	77-119	1		12/19/12 21:39	17060-07-0	
Toluene-d8 (S)	89	%	85-115	1		12/19/12 21:39	2037-26-5	

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QUALITY CONTROL DATA

Project: 12-037 North Albany NY
Pace Project No.: 3084162

QC Batch: MSV/14915 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3084162001, 3084162002, 3084162003, 3084162004, 3084162005, 3084162006

METHOD BLANK: 525831 Matrix: Water
Associated Lab Samples: 3084162001, 3084162002, 3084162003, 3084162004, 3084162005, 3084162006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/19/12 12:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/19/12 12:19	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/19/12 12:19	
1,1-Dichloroethane	ug/L	ND	1.0	12/19/12 12:19	
1,1-Dichloroethene	ug/L	ND	1.0	12/19/12 12:19	
1,2,4-Trichlorobenzene	ug/L	1.2	1.0	12/19/12 12:19	B
1,2-Dichlorobenzene	ug/L	ND	1.0	12/19/12 12:19	
1,2-Dichloroethane	ug/L	ND	1.0	12/19/12 12:19	
1,2-Dichloropropane	ug/L	ND	1.0	12/19/12 12:19	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/19/12 12:19	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/19/12 12:19	
2-Butanone (MEK)	ug/L	ND	10.0	12/19/12 12:19	
2-Hexanone	ug/L	ND	10.0	12/19/12 12:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/19/12 12:19	
Acetone	ug/L	ND	10.0	12/19/12 12:19	
Benzene	ug/L	ND	1.0	12/19/12 12:19	
Bromochloromethane	ug/L	ND	1.0	12/19/12 12:19	
Bromodichloromethane	ug/L	ND	1.0	12/19/12 12:19	
Bromoform	ug/L	ND	1.0	12/19/12 12:19	
Bromomethane	ug/L	ND	1.0	12/19/12 12:19	
Carbon disulfide	ug/L	ND	1.0	12/19/12 12:19	
Carbon tetrachloride	ug/L	ND	1.0	12/19/12 12:19	
Chlorobenzene	ug/L	ND	1.0	12/19/12 12:19	
Chloroethane	ug/L	ND	1.0	12/19/12 12:19	
Chloroform	ug/L	ND	1.0	12/19/12 12:19	
Chloromethane	ug/L	ND	1.0	12/19/12 12:19	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/19/12 12:19	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/19/12 12:19	
Dibromochloromethane	ug/L	ND	1.0	12/19/12 12:19	
Ethylbenzene	ug/L	ND	1.0	12/19/12 12:19	
m&p-Xylene	ug/L	ND	2.0	12/19/12 12:19	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/19/12 12:19	
Methylene Chloride	ug/L	2.9	1.0	12/19/12 12:19	B,C9
o-Xylene	ug/L	ND	1.0	12/19/12 12:19	
Styrene	ug/L	ND	1.0	12/19/12 12:19	
Tetrachloroethene	ug/L	ND	1.0	12/19/12 12:19	
Toluene	ug/L	ND	1.0	12/19/12 12:19	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/19/12 12:19	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/19/12 12:19	
Trichloroethene	ug/L	ND	1.0	12/19/12 12:19	
Vinyl chloride	ug/L	ND	1.0	12/19/12 12:19	
Xylene (Total)	ug/L	ND	3.0	12/19/12 12:19	
1,2-Dichloroethane-d4 (S)	%	115	77-119	12/19/12 12:19	

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QUALITY CONTROL DATA

Project: 12-037 North Albany NY
Pace Project No.: 3084162

METHOD BLANK: 525831 Matrix: Water

Associated Lab Samples: 3084162001, 3084162002, 3084162003, 3084162004, 3084162005, 3084162006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	97	85-115	12/19/12 12:19	
Toluene-d8 (S)	%	91	85-115	12/19/12 12:19	

LABORATORY CONTROL SAMPLE: 525832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.2	116	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	22.2	111	61-117	
1,1,2-Trichloroethane	ug/L	20	22.3	112	72-119	
1,1-Dichloroethane	ug/L	20	24.6	123	63-123	
1,1-Dichloroethene	ug/L	20	23.6	118	57-127	
1,2,4-Trichlorobenzene	ug/L	20	18.2	91	52-138	
1,2-Dichlorobenzene	ug/L	20	20.5	102	70-116	
1,2-Dichloroethane	ug/L	20	23.8	119	62-125	
1,2-Dichloropropane	ug/L	20	22.2	111	69-115	
1,3-Dichlorobenzene	ug/L	20	20.4	102	71-118	
1,4-Dichlorobenzene	ug/L	20	20.3	101	67-119	
2-Butanone (MEK)	ug/L	20	23.6	118	48-136	
2-Hexanone	ug/L	20	24.3	121	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.0	110	57-124	
Acetone	ug/L	20	26.5	132	49-138	
Benzene	ug/L	20	21.8	109	66-122	
Bromochloromethane	ug/L	20	22.4	112	61-126	
Bromodichloromethane	ug/L	20	22.2	111	63-118	
Bromoform	ug/L	20	19.5	97	46-130	
Bromomethane	ug/L	20	20.5	103	10-175	
Carbon disulfide	ug/L	20	26.7	134	59-142	
Carbon tetrachloride	ug/L	20	22.4	112	55-126	
Chlorobenzene	ug/L	20	20.1	101	70-121	
Chloroethane	ug/L	20	18.6	93	24-161	
Chloroform	ug/L	20	22.1	111	62-126	
Chloromethane	ug/L	20	18.4	92	37-147	
cis-1,2-Dichloroethene	ug/L	20	23.8	119	64-121	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	64-118	
Dibromochloromethane	ug/L	20	21.0	105	60-120	
Ethylbenzene	ug/L	20	20.7	103	69-119	
m&p-Xylene	ug/L	40	43.4	108	70-124	
Methyl-tert-butyl ether	ug/L	20	23.2	116	58-131	
Methylene Chloride	ug/L	20	25.5	127	59-128	
o-Xylene	ug/L	20	20.5	103	67-123	
Styrene	ug/L	20	21.3	107	67-146	
Tetrachloroethene	ug/L	20	19.5	97	62-125	
Toluene	ug/L	20	21.7	108	72-115	
trans-1,2-Dichloroethene	ug/L	20	23.5	118	59-122	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	64-120	

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QUALITY CONTROL DATA

Project: 12-037 North Albany NY
Pace Project No.: 3084162

LABORATORY CONTROL SAMPLE: 525832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	20.1	100	62-125	
Vinyl chloride	ug/L	20	18.8	94	52-145	
Xylene (Total)	ug/L	60	63.9	107	70-123	
1,2-Dichloroethane-d4 (S)	%			103	77-119	
4-Bromofluorobenzene (S)	%			100	85-115	
Toluene-d8 (S)	%			97	85-115	

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QUALITY CONTROL DATA

Project: 12-037 North Albany NY
Pace Project No.: 3084162

QC Batch: OEXT/13816 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 3084162001, 3084162002, 3084162003, 3084162004, 3084162005, 3084162006

METHOD BLANK: 525979 Matrix: Water
Associated Lab Samples: 3084162001, 3084162002, 3084162003, 3084162004, 3084162005, 3084162006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/21/12 09:44	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/21/12 09:44	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/21/12 09:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/21/12 09:44	
1-Methylnaphthalene	ug/L	ND	1.0	12/21/12 09:44	N2
2,4,5-Trichlorophenol	ug/L	ND	2.5	12/21/12 09:44	
2,4,6-Trichlorophenol	ug/L	ND	1.0	12/21/12 09:44	
2,4-Dichlorophenol	ug/L	ND	1.0	12/21/12 09:44	
2,4-Dimethylphenol	ug/L	ND	1.0	12/21/12 09:44	
2,4-Dinitrophenol	ug/L	ND	2.5	12/21/12 09:44	
2,4-Dinitrotoluene	ug/L	ND	1.0	12/21/12 09:44	
2,6-Dinitrotoluene	ug/L	ND	1.0	12/21/12 09:44	
2-Chloronaphthalene	ug/L	ND	1.0	12/21/12 09:44	
2-Chlorophenol	ug/L	ND	1.0	12/21/12 09:44	
2-Methylnaphthalene	ug/L	ND	1.0	12/21/12 09:44	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	12/21/12 09:44	
2-Nitroaniline	ug/L	ND	2.5	12/21/12 09:44	
2-Nitrophenol	ug/L	ND	1.0	12/21/12 09:44	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	12/21/12 09:44	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	12/21/12 09:44	
3-Nitroaniline	ug/L	ND	2.5	12/21/12 09:44	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	12/21/12 09:44	
4-Bromophenylphenyl ether	ug/L	ND	1.0	12/21/12 09:44	
4-Chloro-3-methylphenol	ug/L	ND	1.0	12/21/12 09:44	
4-Chloroaniline	ug/L	ND	1.0	12/21/12 09:44	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	12/21/12 09:44	
4-Nitroaniline	ug/L	ND	2.5	12/21/12 09:44	
4-Nitrophenol	ug/L	ND	1.0	12/21/12 09:44	
Acenaphthene	ug/L	ND	1.0	12/21/12 09:44	
Acenaphthylene	ug/L	ND	1.0	12/21/12 09:44	
Anthracene	ug/L	ND	1.0	12/21/12 09:44	
Azobenzene	ug/L	ND	1.0	12/21/12 09:44	N2
Benzo(a)anthracene	ug/L	ND	1.0	12/21/12 09:44	
Benzo(a)pyrene	ug/L	ND	1.0	12/21/12 09:44	
Benzo(b)fluoranthene	ug/L	ND	1.0	12/21/12 09:44	
Benzo(g,h,i)perylene	ug/L	ND	1.0	12/21/12 09:44	
Benzo(k)fluoranthene	ug/L	ND	1.0	12/21/12 09:44	
Benzoic acid	ug/L	ND	100	12/21/12 09:44	
Benzyl alcohol	ug/L	ND	1.0	12/21/12 09:44	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	12/21/12 09:44	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	12/21/12 09:44	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	12/21/12 09:44	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	12/21/12 09:44	

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QUALITY CONTROL DATA

Project: 12-037 North Albany NY
Pace Project No.: 3084162

METHOD BLANK: 525979 Matrix: Water

Associated Lab Samples: 3084162001, 3084162002, 3084162003, 3084162004, 3084162005, 3084162006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	1.0	12/21/12 09:44	
Carbazole	ug/L	ND	1.0	12/21/12 09:44	
Chrysene	ug/L	ND	1.0	12/21/12 09:44	
Di-n-butylphthalate	ug/L	ND	1.0	12/21/12 09:44	
Di-n-octylphthalate	ug/L	ND	1.0	12/21/12 09:44	
Dibenz(a,h)anthracene	ug/L	ND	1.0	12/21/12 09:44	
Dibenzofuran	ug/L	ND	1.0	12/21/12 09:44	
Diethylphthalate	ug/L	ND	1.0	12/21/12 09:44	
Dimethylphthalate	ug/L	ND	1.0	12/21/12 09:44	
Fluoranthene	ug/L	ND	1.0	12/21/12 09:44	
Fluorene	ug/L	ND	1.0	12/21/12 09:44	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/21/12 09:44	
Hexachlorobenzene	ug/L	ND	1.0	12/21/12 09:44	
Hexachlorocyclopentadiene	ug/L	ND	1.0	12/21/12 09:44	
Hexachloroethane	ug/L	ND	1.0	12/21/12 09:44	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	12/21/12 09:44	
Isophorone	ug/L	ND	1.0	12/21/12 09:44	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	12/21/12 09:44	
N-Nitrosodimethylamine	ug/L	ND	1.0	12/21/12 09:44	
N-Nitrosodiphenylamine	ug/L	ND	1.0	12/21/12 09:44	
Naphthalene	ug/L	ND	1.0	12/21/12 09:44	
Nitrobenzene	ug/L	ND	1.0	12/21/12 09:44	
Pentachlorophenol	ug/L	ND	2.5	12/21/12 09:44	
Phenanthrene	ug/L	ND	1.0	12/21/12 09:44	
Phenol	ug/L	ND	1.0	12/21/12 09:44	
Pyrene	ug/L	ND	1.0	12/21/12 09:44	
2,4,6-Tribromophenol (S)	%	58	10-123	12/21/12 09:44	
2-Fluorobiphenyl (S)	%	62	43-116	12/21/12 09:44	
2-Fluorophenol (S)	%	36	21-110	12/21/12 09:44	
Nitrobenzene-d5 (S)	%	51	35-114	12/21/12 09:44	
Phenol-d6 (S)	%	23	10-110	12/21/12 09:44	
Terphenyl-d14 (S)	%	92	33-141	12/21/12 09:44	

LABORATORY CONTROL SAMPLE: 525980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	5	3.2	64	12-105	
1,2-Dichlorobenzene	ug/L		ND			
1,3-Dichlorobenzene	ug/L		ND			
1,4-Dichlorobenzene	ug/L	5	3.2	64	10-95	
1-Methylnaphthalene	ug/L	5	4.2	84	15-106	N2
2,4,5-Trichlorophenol	ug/L		ND			
2,4,6-Trichlorophenol	ug/L		ND			
2,4-Dichlorophenol	ug/L		ND			
2,4-Dimethylphenol	ug/L		ND			

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 12-037 North Albany NY
Pace Project No.: 3084162

LABORATORY CONTROL SAMPLE: 525980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L		ND			
2,4-Dinitrotoluene	ug/L	5	2.5	50	10-133	
2,6-Dinitrotoluene	ug/L		ND			
2-Chloronaphthalene	ug/L		ND			
2-Chlorophenol	ug/L	5	3.1	63	10-111	
2-Methylnaphthalene	ug/L	5	3.6	73	10-98	
2-Methylphenol(o-Cresol)	ug/L		ND			
2-Nitroaniline	ug/L		ND			
2-Nitrophenol	ug/L		ND			
3&4-Methylphenol(m&p Cresol)	ug/L		ND			
3,3'-Dichlorobenzidine	ug/L		ND			
3-Nitroaniline	ug/L		ND			
4,6-Dinitro-2-methylphenol	ug/L		ND			
4-Bromophenylphenyl ether	ug/L		ND			
4-Chloro-3-methylphenol	ug/L	5	ND	0	10-129	
4-Chloroaniline	ug/L		ND			
4-Chlorophenylphenyl ether	ug/L		ND			
4-Nitroaniline	ug/L		ND			
4-Nitrophenol	ug/L	5	.89J	18	10-54	
Acenaphthene	ug/L	5	3.6	71	12-123	
Acenaphthylene	ug/L	5	3.4	68	11-131	
Anthracene	ug/L	5	3.8	76	11-135	
Azobenzene	ug/L		ND			N2
Benzo(a)anthracene	ug/L	5	3.8	75	24-138	
Benzo(a)pyrene	ug/L	5	4.0	81	20-136	
Benzo(b)fluoranthene	ug/L	5	4.4	87	19-147	
Benzo(g,h,i)perylene	ug/L	5	4.0	80	11-156	
Benzo(k)fluoranthene	ug/L	5	4.6	92	22-154	
Benzoic acid	ug/L		ND			
Benzyl alcohol	ug/L		ND			
bis(2-Chloroethoxy)methane	ug/L		ND			
bis(2-Chloroethyl) ether	ug/L		ND			
bis(2-Chloroisopropyl) ether	ug/L		ND			
bis(2-Ethylhexyl)phthalate	ug/L		ND			
Butylbenzylphthalate	ug/L		ND			
Carbazole	ug/L		ND			
Chrysene	ug/L	5	4.3	87	14-158	
Di-n-butylphthalate	ug/L		ND			
Di-n-octylphthalate	ug/L		ND			
Dibenz(a,h)anthracene	ug/L	5	4.2	84	13-154	
Dibenzofuran	ug/L		ND			
Diethylphthalate	ug/L		ND			
Dimethylphthalate	ug/L		ND			
Fluoranthene	ug/L	5	4.7	95	20-135	
Fluorene	ug/L	5	3.6	72	11-128	
Hexachloro-1,3-butadiene	ug/L		ND			
Hexachlorobenzene	ug/L		ND			
Hexachlorocyclopentadiene	ug/L		ND			

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QUALITY CONTROL DATA

Project: 12-037 North Albany NY
Pace Project No.: 3084162

LABORATORY CONTROL SAMPLE: 525980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L		ND			
Indeno(1,2,3-cd)pyrene	ug/L	5	4.1	82	15-148	
Isophorone	ug/L		ND			
N-Nitroso-di-n-propylamine	ug/L	5	3.8	76	10-136	
N-Nitrosodimethylamine	ug/L		ND			
N-Nitrosodiphenylamine	ug/L		ND			
Naphthalene	ug/L	5	3.8	76	12-116	
Nitrobenzene	ug/L		ND			
Pentachlorophenol	ug/L	5	3.3	65	13-129	
Phenanthrene	ug/L	5	3.8	76	13-134	
Phenol	ug/L	5	1.4	28	10-47	
Pyrene	ug/L	5	3.9	78	10-158	
2,4,6-Tribromophenol (S)	%			63	10-123	
2-Fluorobiphenyl (S)	%			66	43-116	
2-Fluorophenol (S)	%			34	21-110	
Nitrobenzene-d5 (S)	%			74	35-114	
Phenol-d6 (S)	%			27	10-110	
Terphenyl-d14 (S)	%			91	33-141	

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QUALIFIERS

Project: 12-037 North Albany NY
Pace Project No.: 3084162

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/14915

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/13816

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12-037 North Albany NY
Pace Project No.: 3084162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3084162001	**Mix 37-3 Interval 20**	EPA 3510	OEXT/13816	EPA 8270	MSSV/4698
3084162002	**Mix 37-4 Interval 20**	EPA 3510	OEXT/13816	EPA 8270	MSSV/4698
3084162003	**Mix 37-6 Interval 20**	EPA 3510	OEXT/13816	EPA 8270	MSSV/4698
3084162004	**Mix 37-8 Interval 20**	EPA 3510	OEXT/13816	EPA 8270	MSSV/4698
3084162005	**Mix 37-11 Interval 20**	EPA 3510	OEXT/13816	EPA 8270	MSSV/4698
3084162006	**Mix 37-12 Interval 20**	EPA 3510	OEXT/13816	EPA 8270	MSSV/4698
3084162001	**Mix 37-3 Interval 20**	EPA 8260	MSV/14915		
3084162002	**Mix 37-4 Interval 20**	EPA 8260	MSV/14915		
3084162003	**Mix 37-6 Interval 20**	EPA 8260	MSV/14915		
3084162004	**Mix 37-8 Interval 20**	EPA 8260	MSV/14915		
3084162005	**Mix 37-11 Interval 20**	EPA 8260	MSV/14915		
3084162006	**Mix 37-12 Interval 20**	EPA 8260	MSV/14915		

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APPENDIX F

Structural Inspection Summary

MEMO

ARCADIS Design & Consultancy for natural and built assets

To:

File

Copies:

Michael Jones, Arcadis

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Tel 315 446 9120
Fax 315 449 0017

From:

Lisa Bowe, PE

Date:

January 10, 2018

Arcadis Project No.:

B0036648

Subject:

National Grid North Albany MGP Site
PDI Structural Review

Arcadis performed a visual structural review of Building #2 and the Vehicle Maintenance Building located at National Grid's Albany, New York facility on December 8, 2017. The review was conducted to support the forthcoming remedial design, including the design of excavation support systems for soil removal areas in close proximity to the buildings. Figure 1 identifies the location and designation of the various components of the buildings. Observations related to each building and references to the photographs (see the Photo Log included as Attachment 1 to this memo) are provided below.

Prior to the visual review Arcadis completed a review of existing construction drawings for Building #2 and the Vehicle Maintenance Building which were provided by National Grid in October 2017. The purpose of this review was to develop an understanding of the buildings' structural components and foundation systems, some of which were not accessible during the visual review.

As discussed below, the visual review identified physical conditions and inferred structural integrities. The review was not intended to be a comprehensive evaluation of all existing construction, current conditions, structural defects or impairments, etc. and did not include any form of intrusive or destructive testing of building components. Instead, the inspection focused on direct visual observation of building condition from inside and outside of the buildings.

BUILDING #2

The building is occupied and consists of a single-story garage/service area on the north side and a three-story office/machine shop on the south side. Office areas occupy the east half of the south side and the machine shop occupies the west half of the first and second floors, with office areas on the third floor.

According to the drawings provided by National Grid, Building #2 was constructed in 1930. The structural system for both portions of the building is structural steel beam and column framing. Interior columns are supported on a foundation system consisting of individual pile-supported caps. Perimeter columns are supported on continuous concrete walls on pile-supported footings. The drawings provided by National Grid indicate that the piles are round and extend 4 inches into the bottom of the pile caps but do not identify the size, type or depth of the piles. Both portions of the building have a reinforced 6-inch-thick slab on grade for the first floor and there is no basement space. The office/machine shop second and third floors consist of a 4 ½-inch-thick concrete slab supported on steel beams with 3-inch gypsum block partition walls. The northern garage/service area has a roof level approximately 15 feet above grade at the perimeter. There is a clerestory in the center with a pitched roof that extends 5 to 8 feet above the lower roof. The office/machine shop roof is approximately 36 feet above grade. The drawings indicate the roofs are constructed of metal deck supported by steel beams. The exterior and common walls of the building are non-load bearing masonry supported on the concrete foundation wall which extends 2 feet above grade and 4 feet below grade. The walls extend above the roofs to serve as a perimeter parapet. As there is no vertical bracing or rigid beam or column connections shown in the drawings, it is likely that the masonry walls act as shear walls to distribute lateral loads from the upper portions of the building to the foundations.

The visual review of the building indicated that the masonry walls consist of exposed concrete masonry block on the east and north sides of the building with a brick exterior on the west and south. The common wall above the garage/service area roof has been covered with metal siding. Several of the original windows in the garage service area have been filled in with concrete block and most of the windows appear to be of newer construction. A new concrete masonry building addition has been constructed north of the garage/service area. On the east side, a new door was added in the location of an original window. Along the east side of the office/machine shop portion, a loading dock has been constructed and covered with a steel framed canopy. The canopy is cantilevered from the building wall with diagonal braces back to the wall. Two new doors have been added and all windows appear to be of newer construction. A dumpster on a concrete pad has been positioned adjacent to the loading dock. Along the south side, only the first floor windows in the area of the machine shop (at the west end) appear to be from the original construction.

The interior of the garage/service area is largely open (as indicated on the construction drawings); however, some interior masonry partition walls have been added. In the northeast corner of the building, masonry walls have been constructed to create an office area with an elevated floor, approximately 28 inches above the building floor slab. In portions of the east end of the garage/service area the roof deck appears to be of concrete plank (channel slab) construction, rather than the metal decking indicated on the construction drawings. The first floor office area is sub-divided by masonry partition walls which were not part of the original construction. The second and third floor office areas are subdivided by what appear to be painted gypsum board partition walls. All areas are carpeted. The machine shop, extending from the first floor to the underside of the third floor, area appears to unchanged from its original layout.

Several cracks were observed in the interior masonry walls of the office at the northeast corner of the garage/service area (see photos 1 through 3). Settlement is generally the source of cracking such as this; however, there was no indication of settlement of the floor slab under these walls and the floor slab of the garage/service area was generally in good condition. It is possible that these walls, which were not part of the original construction, were built on a new, thicker slab or an interior foundation wall, based on floor markings visible in photo 3. The exposed metal roof deck and concrete plank at the east end of the garage/service area shows signs of rusting, discoloration, and deterioration, particularly in the locations

where the vertical walls of the clerestory meet the upper and lower roof deck (see photos 4 and 5). The structural steel framing supporting the roofs and clerestory walls also shows signs of deterioration, rust, and discoloration, all of which is appears to be due to water penetration through the joint between the clerestory walls and lower roofs. Due to the floor, wall and ceiling finishes, the structural framing and slabs were not able to be viewed inside the three-story office portions of the building.

Some previously repaired cracks were observed in the exterior masonry wall at the east end of the garage/service area (see photos 6 and 7), which is the same corner where cracked masonry was noted on interior walls. Cracking was also noted in the exposed portion of the supporting concrete wall. As noted previously, this wall has been modified significantly from its original construction with the addition of doors and patching of original window openings; therefore, it is unknown if the observed masonry cracks are the result of these modifications or movement of the supporting piles. The exterior masonry wall of the three-story office portion did not exhibit similar cracking; however, there is some cracking evident in the wall of the loading dock just east of the building (see photo 8).

Considerations for Excavation Support Design

The lack of information available on the type and depth of the pile support system for the building presents a challenge. Based on geotechnical borings completed at the site, weathered bedrock appears to be located from 20 to 25 feet below existing grade; therefore, it is feasible that the building piles are end bearing on the rock layer. In this case, the column and wall loads along the east wall would not be transmitted as surcharge loading to the excavation supports; however, this cannot be verified. In any case, the excavation support system should take into consideration the location of the piles and maintain an adequate horizontal clearance from the building wall to avoid damaging the piles. The cracking of the interior masonry walls in the northeast corner of the garage/service may be the result of settlement or consolidation of the original fill under the building slab, as this area is not pile supported. Excavation adjacent to this area may lead to further settlement if the excavation supports exhibit horizontal deflection. Installation of sheeting or shoring can also cause vibrations that can be detrimental to brittle building materials like masonry. Therefore, deflection monitoring of this corner of the building during excavation work will be especially important.

The foundation under the loading dock is unknown. For excavation adjacent to the east wall of the loading dock, test pits may need to be made at different locations along the wall to determine the supporting foundation system prior to designing the excavation support system.

VEHICLE MAINTENANCE BUILDING

The Vehicle Maintenance Building is single story steel framed clear span building with the main load bearing columns along the north and south walls. The roof is sloped with the high point in the center.

According to the drawings provided by National Grid, the Vehicle Maintenance Building was constructed in 1979. The east and west walls are concrete block up to a height of 11’-4” with metal siding for the remaining wall height. The east exterior wall extends out 4’-8” along the southern portion to form an equipment and storage area approximately 9 feet tall. The north and south walls have metal siding full height with three overhead doors on the north side and seven on the south. The roof is metal deck, which is covered by insulation on the underside. The floor slab consists of a reinforced 6-inch slab on grade. Exterior walls and building columns are supported on grade beams constructed over concrete pile caps which in turn are supported on round concrete piles. The length and diameter of the piles is not indicated

on the provided drawings. The perimeter grade beams extend one foot above and 4 feet below adjacent grade. An interior office and mezzanine storage area is constructed along the north wall of the building. Perimeter walls are load bearing concrete masonry. The mezzanine level is comprised of hollow core concrete planks supported on structural steel beams and the masonry walls. Grade beams and pile caps support all load bearing elements of the office/mezzanine area.

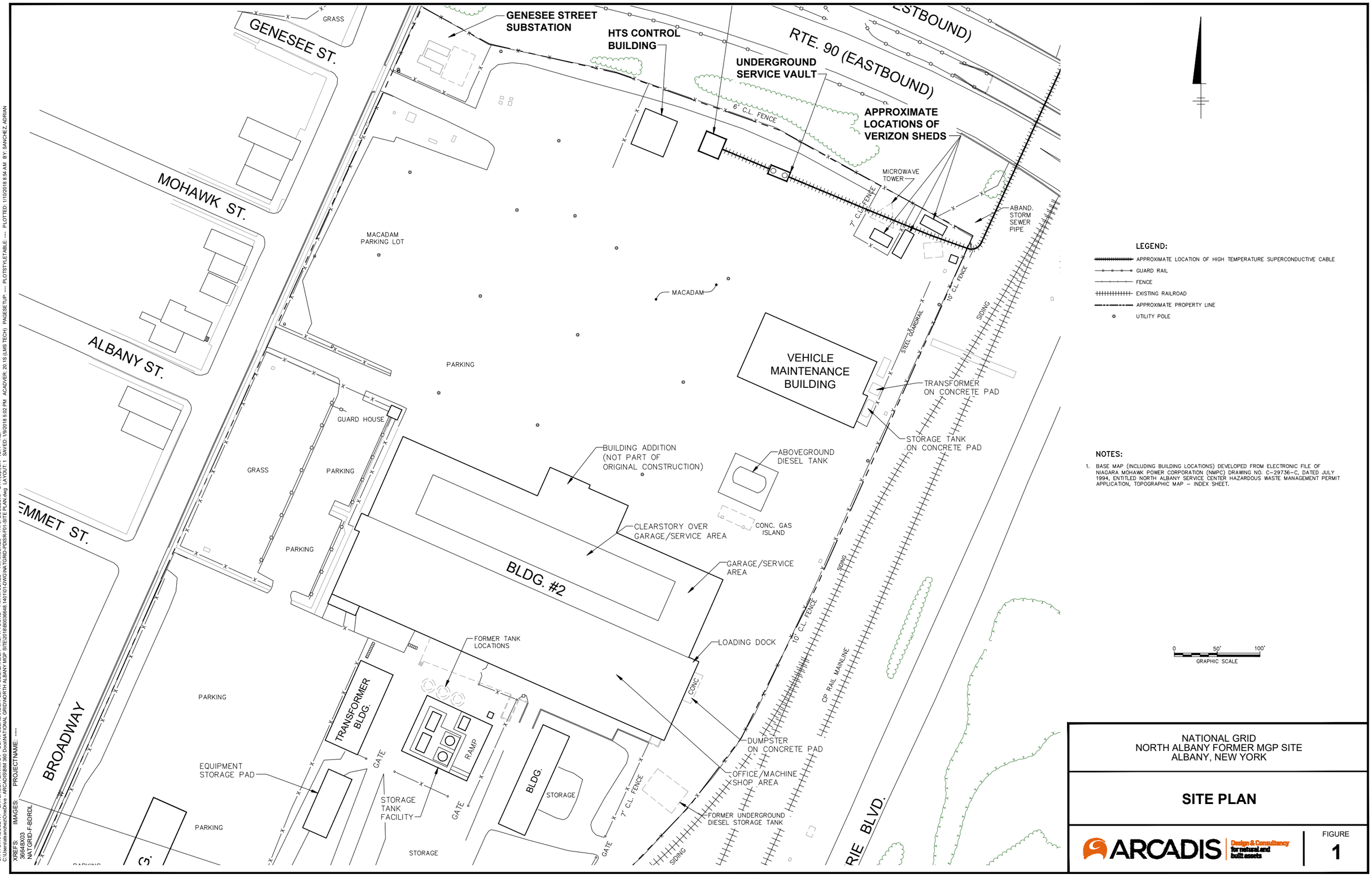
The visual review of the building did not indicate any significant discrepancies from the construction drawings. However, directly east of the building, an above ground storage tank and a transformer have been installed on concrete foundations.

The building appears to be in good condition. On the interior, exposed steel framing, masonry wall surfaces, and the concrete floor slab did not show any significant signs of deterioration or settlement. However, on the exposed masonry wall surfaces on the east side of the building, some cracking was observed in the joints and in the concrete block units, particularly at the northeast corner (see photo 9). Some rust stains emanating from the bottom of the steel panels on top of the masonry were evident, as well as discoloration of the concrete blocks which may indicate moisture penetration.

Considerations for Excavation Support Design

Similar to Building #2, the lack of information available on the type and depth of the pile support system for the building presents a challenge. Based weathered bedrock location from 20 to 25 feet below existing grade, it is feasible that the building piles are end bearing on the rock layer and in this case the column and wall loads along the east wall would not be transmitted as surcharge loading to the excavation supports. In any case, the excavation support system should take into consideration the location of the piles and maintain an adequate horizontal clearance from the building wall to avoid damaging the piles.

FIGURE



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- UTILITY POLE

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP – INDEX SHEET.

0 50' 100'
GRAPHIC SCALE

NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

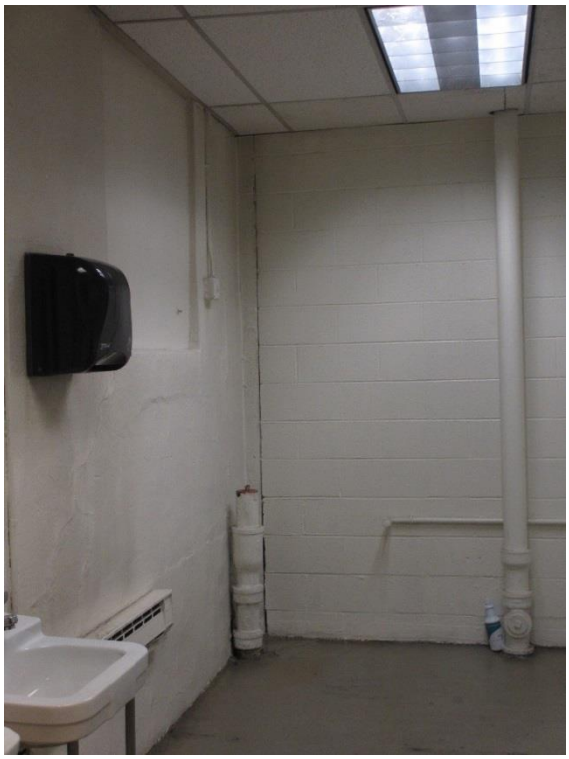
CITY: SYRACUSE NY DIV/GROUP: ENV/MHDV DB: R. OBERLANDER LD: R. OBERLANDER PIC: T. YOUNG PM: M. JONES TM: M.JONES TR: J. GOLUBSKI LYR:(On)|On*|;OFF=*REF*
C:\Users\alsanchez\OneDrive - ARCADIS\BIM 360 Docs\NATIONAL GRID\NORTH ALBANY MGP SITE\2018\B0036848.1401\01-DWG\NATGRID-PDISR-F01-SITE PLAN.dwg LAYOUT: 1 SAVED: 1/9/2018 5:02 PM ACADVER: 20.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 1/10/2018 8:54 AM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ----
36648X03
NATGRID-F-BDRDL

ATTACHMENT 1

Photograph Log

PHOTOGRAPH LOG

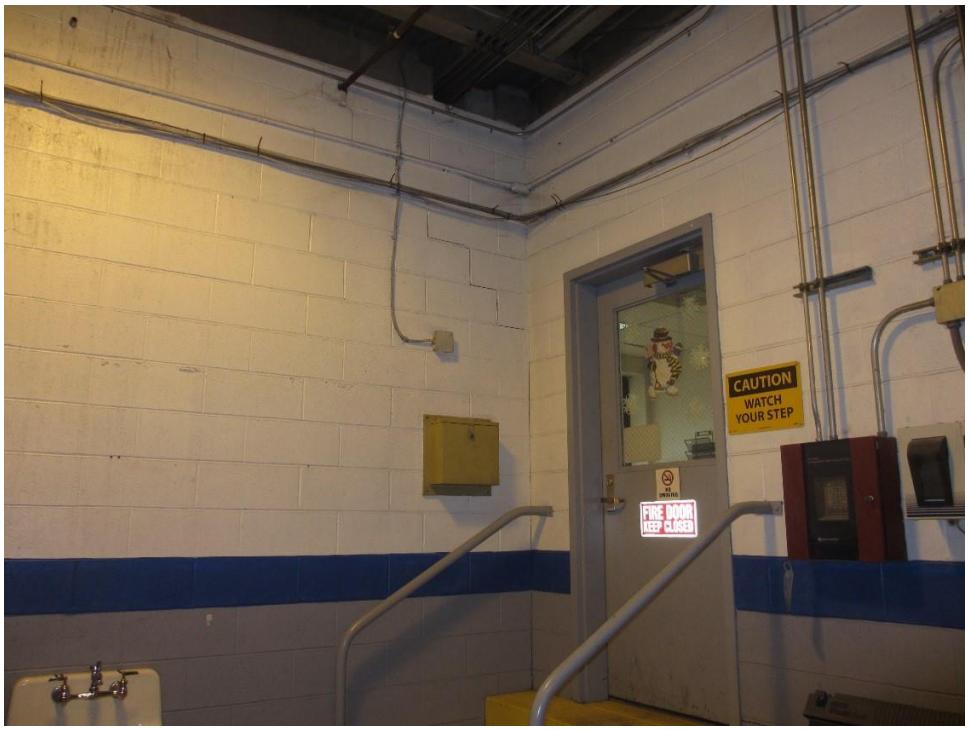
National Grid
North Albany – B0036648.1401.00009
Albany, New York



Photograph: 1

Description: Office, northeast corner of garage/service area

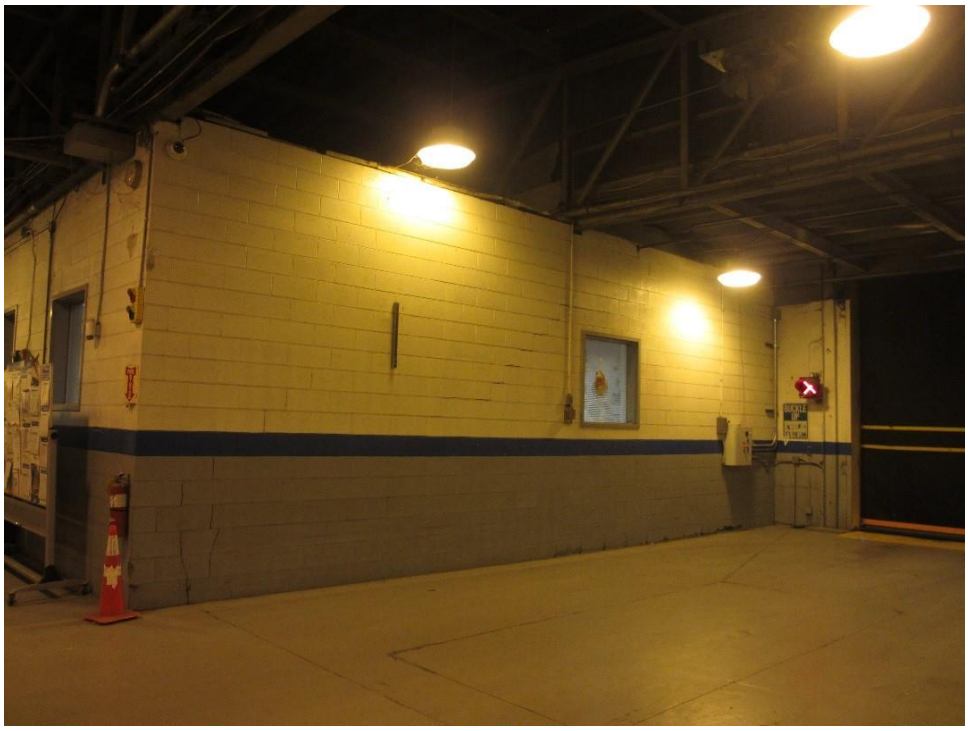
Location: Building #2



Photograph: 2

Description: Garage/service area

Location: Building #2



Photograph: 3

Description: Garage/service area

Location: Building #2



Photograph: 4

Description: Ceiling in garage/service area

Location: Building #2



Photograph: 5

Description: Ceiling in garage/service area

Location: Building #2



Photograph: 6

Description: East end garage/service area

Location: Building #2



Photograph: 7

Description: East end garage/service area

Location: Building #2



Photograph: 8

Description: Loading Dock

Location: Building #2



Photograph: 9

Description: Northeast exterior corner

Location: Vehicle Maintenance Building

APPENDIX G

Groundwater Sample Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-122636-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/12/2017 1:29:31 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
b	Result Detected in the Unseeded Control blank (USB).
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-122636-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-122636-1

Receipt
The samples were received on 8/12/2017 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.1º C, 0.2º C, 0.5º C, 0.6º C, 0.7º C and 0.8º C.

GC/MS VOA
Method(s) 624: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: MW-27S (480-122636-1), MW-27SMS (480-122636-1[MS]) and MW-27SMSD (480-122636-1[MSD]). The requested target analyte list contains 2-chloroethyl vinyl ether, which is an acid-labile compound that degrade in an acidic medium.

Method(s) 624: The following volatiles samples was diluted due to foaming at the time of purging during the original sample analysis: MW-27S (480-122636-1), MW-27SMS (480-122636-1[MS]) and MW-27SMSD (480-122636-1[MSD]). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-372045 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 608: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 608: All primary data for analytical batch 372186 is reported from the ZB-5 column.

Method(s) 608: The recovery of surrogate Decachlorobiphenyl in samples MW-27S (480-122636-1), MW-27SMS (480-122636-1[MS]) and MW-27SMSD (480-122636-1[MSD]) exceeded quality control limits. The recovery of the secondary surrogate is within quality control criteria, no corrective action is required.

Method(s) 608: All primary data for analytical batch 372460 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-372572/40) contained Total Manganese outside the control limits. All reported samples (480-122636-I-1-D MSD) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-27S (480-122636-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) SM 5210B: The glucose-glutamic acid standard recovered outside the recovery limits specified in the method in batch 480-371873 .The LCS recovery was low, therefore the sample results may be biased low.MW-27S (480-122636-1), MW-27SMS (480-122636-1[MS]) and MW-27SMSD (480-122636-1[MSD])

Job ID: 480-122636-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) SM 5210B: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. Both sets of data are being reported.MW-27S (480-122636-1), MW-27SMS (480-122636-1[MS]) and MW-27SMSD (480-122636-1[MSD])

Method(s) 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-27S (480-122636-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122636-1

Client Sample ID: MW-27S — Lab Sample ID: 480-122636-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	40		20	2.4	ug/L	4		624	Total/NA
Ethylbenzene	5.2	J	20	1.9	ug/L	4		624	Total/NA
Acenaphthene	24		4.8	0.77	ug/L	1		625	Total/NA
Acenaphthylene	1.9	J	4.8	0.83	ug/L	1		625	Total/NA
Anthracene	3.3	J	4.8	1.3	ug/L	1		625	Total/NA
Fluoranthene	2.3	J	4.8	1.5	ug/L	1		625	Total/NA
Fluorene	9.1		4.8	0.95	ug/L	1		625	Total/NA
Naphthalene	16		4.8	0.82	ug/L	1		625	Total/NA
Phenanthrene	12		4.8	1.1	ug/L	1		625	Total/NA
Pyrene	2.8	J	4.8	1.3	ug/L	1		625	Total/NA
alpha-BHC	0.019	J	0.050	0.0077	ug/L	1		608	Total/NA
beta-BHC	0.044	J	0.050	0.025	ug/L	1		608	Total/NA
delta-BHC	0.035	J	0.050	0.010	ug/L	1		608	Total/NA
gamma-BHC (Lindane)	0.037	J	0.050	0.0080	ug/L	1		608	Total/NA
4,4'-DDT	0.029	J	0.050	0.011	ug/L	1		608	Total/NA
Endosulfan sulfate	0.019	J	0.050	0.016	ug/L	1		608	Total/NA
Arsenic	0.0062	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.15		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	134		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0034	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0012	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0032	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	4.0		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0049	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	19.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.31	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0050	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	12.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	459		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0018	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0063	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	124		0.50	0.10	mg/L	1		6010C	Dissolved
Cobalt	0.00090	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Iron	0.13		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	18.2		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.29		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0015	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	11.9		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	433		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0034	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Oil & Grease	2.0	J	5.5	1.5	mg/L	1		1664B	Total/NA
Total Kjeldahl Nitrogen	2.4		0.20	0.15	mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	42.4		10.0	5.0	mg/L	1		410.4	Total/NA
Cyanide, Total	0.25		0.010	0.0050	mg/L	1		9012B	Total/NA
Hardness as calcium carbonate	416		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	1520		40.0	16.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	2.0	b *	2.0	2.0	mg/L	1		SM 5210B	Total/NA
Cyanide, Total	0.26		0.010	0.0050	mg/L	1		9012B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122636-1

Client Sample ID: MW-27S (Continued)

Lab Sample ID: 480-122636-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.92	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	22.0	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Suspended Solids	10.4		4.0	4.0	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-27S

Date Collected: 08/11/17 09:30
Date Received: 08/12/17 01:45

Lab Sample ID: 480-122636-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		400	70	ug/L			08/16/17 00:10	4
Acrylonitrile	ND		200	7.6	ug/L			08/16/17 00:10	4
Benzene	**40**		20	2.4	ug/L			08/16/17 00:10	4
Dichlorobromomethane	ND		20	2.1	ug/L			08/16/17 00:10	4
Bromoform	ND		20	1.9	ug/L			08/16/17 00:10	4
Bromomethane	ND		20	4.8	ug/L			08/16/17 00:10	4
Carbon tetrachloride	ND		20	2.0	ug/L			08/16/17 00:10	4
Chlorobenzene	ND		20	1.9	ug/L			08/16/17 00:10	4
Chloroethane	ND		20	3.5	ug/L			08/16/17 00:10	4
2-Chloroethyl vinyl ether	ND	F1	100	7.4	ug/L			08/16/17 00:10	4
Chloroform	ND		20	2.2	ug/L			08/16/17 00:10	4
Chloromethane	ND		20	2.5	ug/L			08/16/17 00:10	4
Chlorodibromomethane	ND		20	1.7	ug/L			08/16/17 00:10	4
1,1-Dichloroethane	ND		20	2.4	ug/L			08/16/17 00:10	4
1,2-Dichloroethane	ND		20	2.4	ug/L			08/16/17 00:10	4
1,1-Dichloroethene	ND		20	3.4	ug/L			08/16/17 00:10	4
trans-1,2-Dichloroethene	ND		20	2.4	ug/L			08/16/17 00:10	4
1,2-Dichloropropane	ND		20	2.4	ug/L			08/16/17 00:10	4
cis-1,3-Dichloropropene	ND		20	1.3	ug/L			08/16/17 00:10	4
trans-1,3-Dichloropropene	ND		20	1.8	ug/L			08/16/17 00:10	4
Ethylbenzene	**5.2**	**J**	20	1.9	ug/L			08/16/17 00:10	4
Methylene Chloride	ND		20	3.3	ug/L			08/16/17 00:10	4
1,1,2,2-Tetrachloroethane	ND		20	1.0	ug/L			08/16/17 00:10	4
Tetrachloroethene	ND		20	1.4	ug/L			08/16/17 00:10	4
Toluene	ND		20	1.8	ug/L			08/16/17 00:10	4
1,1,1-Trichloroethane	ND		20	1.5	ug/L			08/16/17 00:10	4
1,1,2-Trichloroethane	ND		20	1.9	ug/L			08/16/17 00:10	4
Trichloroethene	ND		20	2.4	ug/L			08/16/17 00:10	4
Vinyl chloride	ND		20	3.0	ug/L			08/16/17 00:10	4
1,2-Dichlorobenzene	ND		20	1.8	ug/L			08/16/17 00:10	4
1,2-Dichloroethene, Total	ND		40	13	ug/L			08/16/17 00:10	4
1,3-Dichlorobenzene	ND		20	2.2	ug/L			08/16/17 00:10	4
1,4-Dichlorobenzene	ND		20	2.0	ug/L			08/16/17 00:10	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*08/16/17 00:10*	*4*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*08/16/17 00:10*	*4*
Toluene-d8 (Surr)	*101*		*77 - 120*		*08/16/17 00:10*	*4*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/16/17 00:10*	*4*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**24**		4.8	0.77	ug/L		08/14/17 14:29	08/22/17 07:59	1
Acenaphthylene	**1.9**	**J**	4.8	0.83	ug/L		08/14/17 14:29	08/22/17 07:59	1
Anthracene	**3.3**	**J**	4.8	1.3	ug/L		08/14/17 14:29	08/22/17 07:59	1
Benzidine	ND	F1	76	33	ug/L		08/14/17 14:29	08/22/17 07:59	1
Benzo[a]anthracene	ND		4.8	1.0	ug/L		08/14/17 14:29	08/22/17 07:59	1
Benzo[a]pyrene	ND		4.8	1.2	ug/L		08/14/17 14:29	08/22/17 07:59	1
Benzo[b]fluoranthene	ND		4.8	1.1	ug/L		08/14/17 14:29	08/22/17 07:59	1
Benzo[g,h,i]perylene	ND		4.8	1.4	ug/L		08/14/17 14:29	08/22/17 07:59	1

Client Sample ID: MW-27S
Date Collected: 08/11/17 09:30
Date Received: 08/12/17 01:45

Lab Sample ID: 480-122636-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		4.8	1.2	ug/L		08/14/17 14:29	08/22/17 07:59	1
Bis(2-chloroethyl)ether	ND		4.8	0.89	ug/L		08/14/17 14:29	08/22/17 07:59	1
Bis(2-chloroethoxy)methane	ND		4.8	0.71	ug/L		08/14/17 14:29	08/22/17 07:59	1
bis (2-chloroisopropyl) ether	ND		4.8	0.80	ug/L		08/14/17 14:29	08/22/17 07:59	1
Bis(2-ethylhexyl) phthalate	ND		9.5	1.1	ug/L		08/14/17 14:29	08/22/17 07:59	1
4-Bromophenyl phenyl ether	ND		4.8	1.3	ug/L		08/14/17 14:29	08/22/17 07:59	1
Butyl benzyl phthalate	ND		4.8	1.0	ug/L		08/14/17 14:29	08/22/17 07:59	1
2-Chloronaphthalene	ND		4.8	0.87	ug/L		08/14/17 14:29	08/22/17 07:59	1
4-Chlorophenyl phenyl ether	ND		4.8	1.2	ug/L		08/14/17 14:29	08/22/17 07:59	1
Chrysene	ND		4.8	0.95	ug/L		08/14/17 14:29	08/22/17 07:59	1
Dibenz(a,h)anthracene	ND		4.8	1.4	ug/L		08/14/17 14:29	08/22/17 07:59	1
Di-n-butyl phthalate	ND		4.8	1.5	ug/L		08/14/17 14:29	08/22/17 07:59	1
1,2-Dichlorobenzene	ND		9.5	4.8	ug/L		08/14/17 14:29	08/22/17 07:59	1
1,3-Dichlorobenzene	ND		9.5	0.66	ug/L		08/14/17 14:29	08/22/17 07:59	1
1,4-Dichlorobenzene	ND		9.5	5.4	ug/L		08/14/17 14:29	08/22/17 07:59	1
3,3'-Dichlorobenzidine	ND		4.8	0.78	ug/L		08/14/17 14:29	08/22/17 07:59	1
Diethyl phthalate	ND		4.8	0.95	ug/L		08/14/17 14:29	08/22/17 07:59	1
Dimethyl phthalate	ND		4.8	0.87	ug/L		08/14/17 14:29	08/22/17 07:59	1
2,4-Dinitrotoluene	ND		9.5	4.8	ug/L		08/14/17 14:29	08/22/17 07:59	1
2,6-Dinitrotoluene	ND		4.8	0.95	ug/L		08/14/17 14:29	08/22/17 07:59	1
Di-n-octyl phthalate	ND		4.8	1.1	ug/L		08/14/17 14:29	08/22/17 07:59	1
1,2-Diphenylhydrazine	ND		9.5	0.74	ug/L		08/14/17 14:29	08/22/17 07:59	1
Fluoranthene	**2.3**	**J**	4.8	1.5	ug/L		08/14/17 14:29	08/22/17 07:59	1
Fluorene	**9.1**		4.8	0.95	ug/L		08/14/17 14:29	08/22/17 07:59	1
Hexachlorobenzene	ND		4.8	0.95	ug/L		08/14/17 14:29	08/22/17 07:59	1
Hexachlorobutadiene	ND		4.8	0.95	ug/L		08/14/17 14:29	08/22/17 07:59	1
Hexachlorocyclopentadiene	ND		9.5	4.8	ug/L		08/14/17 14:29	08/22/17 07:59	1
Hexachloroethane	ND	F1	4.8	0.57	ug/L		08/14/17 14:29	08/22/17 07:59	1
Indeno[1,2,3-cd]pyrene	ND		4.8	1.4	ug/L		08/14/17 14:29	08/22/17 07:59	1
Isophorone	ND		4.8	0.70	ug/L		08/14/17 14:29	08/22/17 07:59	1
Naphthalene	**16**		4.8	0.82	ug/L		08/14/17 14:29	08/22/17 07:59	1
Nitrobenzene	ND		4.8	0.77	ug/L		08/14/17 14:29	08/22/17 07:59	1
N-Nitrosodi-n-propylamine	ND		4.8	0.85	ug/L		08/14/17 14:29	08/22/17 07:59	1
N-Nitrosodimethylamine	ND		9.5	4.8	ug/L		08/14/17 14:29	08/22/17 07:59	1
N-Nitrosodiphenylamine	ND		4.8	0.38	ug/L		08/14/17 14:29	08/22/17 07:59	1
Phenanthrene	**12**		4.8	1.1	ug/L		08/14/17 14:29	08/22/17 07:59	1
Pyrene	**2.8**	**J**	4.8	1.3	ug/L		08/14/17 14:29	08/22/17 07:59	1
1,2,4-Trichlorobenzene	ND		9.5	0.78	ug/L		08/14/17 14:29	08/22/17 07:59	1
4-Chloro-3-methylphenol	ND		4.8	1.0	ug/L		08/14/17 14:29	08/22/17 07:59	1
2-Chlorophenol	ND		4.8	0.63	ug/L		08/14/17 14:29	08/22/17 07:59	1
2,4-Dichlorophenol	ND		4.8	0.73	ug/L		08/14/17 14:29	08/22/17 07:59	1
2,4-Dimethylphenol	ND		4.8	1.3	ug/L		08/14/17 14:29	08/22/17 07:59	1
2,4-Dinitrophenol	ND		9.5	4.8	ug/L		08/14/17 14:29	08/22/17 07:59	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.63	ug/L		08/14/17 14:29	08/22/17 07:59	1
2-Nitrophenol	ND		4.8	0.67	ug/L		08/14/17 14:29	08/22/17 07:59	1
4-Nitrophenol	ND		14	9.5	ug/L		08/14/17 14:29	08/22/17 07:59	1
Pentachlorophenol	ND		9.5	1.5	ug/L		08/14/17 14:29	08/22/17 07:59	1
Phenol	ND		4.8	0.33	ug/L		08/14/17 14:29	08/22/17 07:59	1
2,4,6-Trichlorophenol	ND		4.8	0.95	ug/L		08/14/17 14:29	08/22/17 07:59	1

Client Sample ID: MW-27S

Date Collected: 08/11/17 09:30
Date Received: 08/12/17 01:45

Lab Sample ID: 480-122636-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	*80*		*52 - 151*	*08/14/17 14:29*	*08/22/17 07:59*	*1*
2-Fluorobiphenyl	*57*		*44 - 120*	*08/14/17 14:29*	*08/22/17 07:59*	*1*
2-Fluorophenol	*24*		*17 - 120*	*08/14/17 14:29*	*08/22/17 07:59*	*1*
Nitrobenzene-d5	*49*		*42 - 120*	*08/14/17 14:29*	*08/22/17 07:59*	*1*
Phenol-d5	*23*		*10 - 120*	*08/14/17 14:29*	*08/22/17 07:59*	*1*
p-Terphenyl-d14	*60*		*22 - 125*	*08/14/17 14:29*	*08/22/17 07:59*	*1*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/15/17 07:44	08/16/17 12:05	1
alpha-BHC	**0.019**	**J**	0.050	0.0077	ug/L		08/15/17 07:44	08/16/17 12:05	1
beta-BHC	**0.044**	**J**	0.050	0.025	ug/L		08/15/17 07:44	08/16/17 12:05	1
delta-BHC	**0.035**	**J**	0.050	0.010	ug/L		08/15/17 07:44	08/16/17 12:05	1
gamma-BHC (Lindane)	**0.037**	**J**	0.050	0.0080	ug/L		08/15/17 07:44	08/16/17 12:05	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/15/17 07:44	08/16/17 12:05	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/15/17 07:44	08/16/17 12:05	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/15/17 07:44	08/16/17 12:05	1
4,4'-DDT	**0.029**	**J**	0.050	0.011	ug/L		08/15/17 07:44	08/16/17 12:05	1
Dieldrin	ND		0.050	0.0098	ug/L		08/15/17 07:44	08/16/17 12:05	1
Endosulfan I	ND		0.050	0.011	ug/L		08/15/17 07:44	08/16/17 12:05	1
Endosulfan II	ND		0.050	0.012	ug/L		08/15/17 07:44	08/16/17 12:05	1
Endosulfan sulfate	**0.019**	**J**	0.050	0.016	ug/L		08/15/17 07:44	08/16/17 12:05	1
Endrin	ND		0.050	0.014	ug/L		08/15/17 07:44	08/16/17 12:05	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/15/17 07:44	08/16/17 12:05	1
Heptachlor	ND		0.050	0.0085	ug/L		08/15/17 07:44	08/16/17 12:05	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/15/17 07:44	08/16/17 12:05	1
Toxaphene	ND		0.50	0.12	ug/L		08/15/17 07:44	08/16/17 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*42*		*23 - 120*	*08/15/17 07:44*	*08/16/17 12:05*	*1*
DCB Decachlorobiphenyl	*46*		*23 - 120*	*08/15/17 07:44*	*08/16/17 12:05*	*1*
Tetrachloro-m-xylene	*96*		*44 - 120*	*08/15/17 07:44*	*08/16/17 12:05*	*1*
Tetrachloro-m-xylene	*68*		*44 - 120*	*08/15/17 07:44*	*08/16/17 12:05*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 18:32	1
PCB-1221	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 18:32	1
PCB-1232	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 18:32	1
PCB-1242	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 18:32	1
PCB-1248	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 18:32	1
PCB-1254	ND		0.060	0.031	ug/L		08/15/17 07:48	08/15/17 18:32	1
PCB-1260	ND		0.060	0.031	ug/L		08/15/17 07:48	08/15/17 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*34*	*X*	*36 - 121*	*08/15/17 07:48*	*08/15/17 18:32*	*1*
DCB Decachlorobiphenyl	*67*		*36 - 121*	*08/15/17 07:48*	*08/15/17 18:32*	*1*
Tetrachloro-m-xylene	*73*		*42 - 135*	*08/15/17 07:48*	*08/15/17 18:32*	*1*
Tetrachloro-m-xylene	*86*		*42 - 135*	*08/15/17 07:48*	*08/15/17 18:32*	*1*

Client Sample ID: MW-27S
Date Collected: 08/11/17 09:30
Date Received: 08/12/17 01:45

Lab Sample ID: 480-122636-1
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/15/17 09:55	08/16/17 19:33	1
Antimony	ND		0.020	0.0068	mg/L		08/15/17 09:55	08/16/17 19:33	1
Arsenic	**0.0062**	**J**	0.015	0.0056	mg/L		08/15/17 09:55	08/16/17 19:33	1
Barium	**0.15**		0.0020	0.00070	mg/L		08/15/17 09:55	08/16/17 19:33	1
Beryllium	ND		0.0020	0.00030	mg/L		08/15/17 09:55	08/16/17 19:33	1
Cadmium	ND		0.0020	0.00050	mg/L		08/15/17 09:55	08/16/17 19:33	1
Calcium	**134**		0.50	0.10	mg/L		08/15/17 09:55	08/16/17 19:33	1
Chromium	**0.0034**	**J**	0.0040	0.0010	mg/L		08/15/17 09:55	08/16/17 19:33	1
Cobalt	**0.0012**	**J**	0.0040	0.00063	mg/L		08/15/17 09:55	08/16/17 19:33	1
Copper	**0.0032**	**J**	0.010	0.0016	mg/L		08/15/17 09:55	08/16/17 19:33	1
Iron	**4.0**		0.050	0.019	mg/L		08/15/17 09:55	08/16/17 19:33	1
Lead	**0.0049**	**J**	0.010	0.0030	mg/L		08/15/17 09:55	08/16/17 19:33	1
Magnesium	**19.1**		0.20	0.043	mg/L		08/15/17 09:55	08/16/17 19:33	1
Manganese	**0.31**	**B**	0.0030	0.00040	mg/L		08/15/17 09:55	08/16/17 19:33	1
Nickel	**0.0050**	**J**	0.010	0.0013	mg/L		08/15/17 09:55	08/16/17 19:33	1
Potassium	**12.3**		0.50	0.10	mg/L		08/15/17 09:55	08/16/17 19:33	1
Selenium	ND		0.025	0.0087	mg/L		08/15/17 09:55	08/16/17 19:33	1
Silver	ND		0.0060	0.0017	mg/L		08/15/17 09:55	08/16/17 19:33	1
Sodium	**459**		1.0	0.32	mg/L		08/15/17 09:55	08/16/17 19:33	1
Thallium	ND		0.020	0.010	mg/L		08/15/17 09:55	08/16/17 19:33	1
Vanadium	**0.0018**	**J**	0.0050	0.0015	mg/L		08/15/17 09:55	08/16/17 19:33	1
Zinc	**0.0063**	**J**	0.010	0.0015	mg/L		08/15/17 09:55	08/16/17 19:33	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/16/17 09:30	08/16/17 23:47	1
Antimony	ND		0.020	0.0068	mg/L		08/16/17 09:30	08/16/17 23:47	1
Arsenic	ND		0.015	0.0056	mg/L		08/16/17 09:30	08/16/17 23:47	1
Barium	**0.13**		0.0020	0.00070	mg/L		08/16/17 09:30	08/16/17 23:47	1
Beryllium	ND		0.0020	0.00030	mg/L		08/16/17 09:30	08/16/17 23:47	1
Cadmium	ND		0.0020	0.00050	mg/L		08/16/17 09:30	08/16/17 23:47	1
Calcium	**124**		0.50	0.10	mg/L		08/16/17 09:30	08/16/17 23:47	1
Chromium	ND		0.0040	0.0010	mg/L		08/16/17 09:30	08/16/17 23:47	1
Cobalt	**0.00090**	**J**	0.0040	0.00063	mg/L		08/16/17 09:30	08/16/17 23:47	1
Copper	ND		0.010	0.0016	mg/L		08/16/17 09:30	08/16/17 23:47	1
Iron	**0.13**		0.050	0.019	mg/L		08/16/17 09:30	08/16/17 23:47	1
Lead	ND		0.010	0.0030	mg/L		08/16/17 09:30	08/16/17 23:47	1
Magnesium	**18.2**		0.20	0.043	mg/L		08/16/17 09:30	08/16/17 23:47	1
Manganese	**0.29**		0.0030	0.00040	mg/L		08/16/17 09:30	08/16/17 23:47	1
Nickel	**0.0015**	**J**	0.010	0.0013	mg/L		08/16/17 09:30	08/16/17 23:47	1
Potassium	**11.9**		0.50	0.10	mg/L		08/16/17 09:30	08/17/17 12:34	1
Selenium	ND		0.025	0.0087	mg/L		08/16/17 09:30	08/16/17 23:47	1
Silver	ND		0.0060	0.0017	mg/L		08/16/17 09:30	08/16/17 23:47	1
Sodium	**433**		1.0	0.32	mg/L		08/16/17 09:30	08/16/17 23:47	1
Thallium	ND		0.020	0.010	mg/L		08/16/17 09:30	08/16/17 23:47	1
Vanadium	ND		0.0050	0.0015	mg/L		08/16/17 09:30	08/16/17 23:47	1
Zinc	**0.0034**	**J B**	0.010	0.0015	mg/L		08/16/17 09:30	08/16/17 23:47	1

Client Sample ID: MW-27S
Date Collected: 08/11/17 09:30
Date Received: 08/12/17 01:45

Lab Sample ID: 480-122636-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/14/17 10:00	08/14/17 14:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/16/17 09:40	08/16/17 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	**2.0**	**J**	5.5	1.5	mg/L		08/22/17 08:32	08/22/17 08:32	1
SGT-HEM	ND		5.5	2.1	mg/L		08/22/17 08:32	08/22/17 08:32	1
Total Kjeldahl Nitrogen	**2.4**		0.20	0.15	mg/L		08/14/17 16:25	08/15/17 08:51	1
Chemical Oxygen Demand	**42.4**		10.0	5.0	mg/L			08/14/17 19:02	1
Cyanide, Total	**0.25**		0.010	0.0050	mg/L		08/17/17 14:10	08/18/17 12:57	1
Hardness as calcium carbonate	**416**		4.0	1.1	mg/L			08/14/17 14:29	1
Total Dissolved Solids	**1520**		40.0	16.0	mg/L			08/12/17 11:53	1
Biochemical Oxygen Demand	**2.0**	**b ***	2.0	2.0	mg/L			08/12/17 09:44	1
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/12/17 09:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.92**	**HF**	0.100	0.100	SU			08/13/17 09:30	1
Temperature	**22.0**	**HF**	0.00100	0.00100	Degrees C			08/13/17 09:30	1
Total Suspended Solids	**10.4**		4.0	4.0	mg/L			08/14/17 08:39	1

General Chemistry - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND	H	2.0	2.0	mg/L			08/19/17 15:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.26**		0.010	0.0050	mg/L		08/17/17 14:10	08/18/17 12:58	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122636-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-122636-1	MW-27S	96	96	101	96
480-122636-1 MS	MW-27SMS	100	92	99	97
480-122636-1 MSD	MW-27SMSD	96	99	101	97
LCS 480-372232/6	Lab Control Sample	95	92	97	101
MB 480-372232/8	Method Blank	94	93	101	95

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(42-120)	(10-120)	(22-125)
480-122636-1	MW-27S	80	57	24	49	23	60
480-122636-1 MS	MW-27SMS	90	72	36	69	32	57
480-122636-1 MSD	MW-27SMSD	87	64	35	63	29	61
LCS 480-372045/2-A	Lab Control Sample	83	79	45	79	39	85
MB 480-372045/1-A	Method Blank	64	64	39	65	33	73

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(23-120)	(23-120)	(44-120)	(44-120)
480-122636-1	MW-27S	42	46	96	68
480-122636-1 MS	MW-27SMS	45	49	94	69
480-122636-1 MSD	MW-27SMSD	53	64	93	73
LCS 480-372123/2-A	Lab Control Sample	57	64	79	69
MB 480-372123/1-A	Method Blank	61	64	78	69

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122636-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(36-121)	(36-121)	(42-135)	(42-135)
480-122636-1	MW-27S	34 X	67	73	86
480-122636-1 MS	MW-27SMS	31 X	63	72	87
480-122636-1 MSD	MW-27SMSD	30 X	60	69	80
LCS 480-372124/2-A	Lab Control Sample	46	84	93	140 X
MB 480-372124/1-A	Method Blank	50	86	102	180 X

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-372232/8
Matrix: Water
Analysis Batch: 372232

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/15/17 16:51	1
Acrylonitrile	ND		50	1.9	ug/L			08/15/17 16:51	1
Benzene	ND		5.0	0.60	ug/L			08/15/17 16:51	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/15/17 16:51	1
Bromoform	ND		5.0	0.47	ug/L			08/15/17 16:51	1
Bromomethane	ND		5.0	1.2	ug/L			08/15/17 16:51	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/15/17 16:51	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/15/17 16:51	1
Chloroethane	ND		5.0	0.87	ug/L			08/15/17 16:51	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/15/17 16:51	1
Chloroform	ND		5.0	0.54	ug/L			08/15/17 16:51	1
Chloromethane	ND		5.0	0.64	ug/L			08/15/17 16:51	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/15/17 16:51	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/15/17 16:51	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/15/17 16:51	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/15/17 16:51	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/15/17 16:51	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/15/17 16:51	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/15/17 16:51	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/15/17 16:51	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/15/17 16:51	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/15/17 16:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/15/17 16:51	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/15/17 16:51	1
Toluene	ND		5.0	0.45	ug/L			08/15/17 16:51	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/15/17 16:51	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/15/17 16:51	1
Trichloroethene	ND		5.0	0.60	ug/L			08/15/17 16:51	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/15/17 16:51	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/15/17 16:51	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/15/17 16:51	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/15/17 16:51	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/15/17 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*08/15/17 16:51*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 123*		*08/15/17 16:51*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*08/15/17 16:51*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*08/15/17 16:51*	*1*

Lab Sample ID: LCS 480-372232/6
Matrix: Water
Analysis Batch: 372232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.1		ug/L		101	37 - 151
Dichlorobromomethane	20.0	20.7		ug/L		103	35 - 155
Bromoform	20.0	18.2		ug/L		91	45 - 169

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372232/6
Matrix: Water
Analysis Batch: 372232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	20.4		ug/L		102	1 - 242
Carbon tetrachloride	20.0	18.8		ug/L		94	70 - 140
Chlorobenzene	20.0	20.0		ug/L		100	37 - 160
Chloroethane	20.0	20.3		ug/L		102	14 - 230
2-Chloroethyl vinyl ether	20.0	20.2	J	ug/L		101	1 - 305
Chloroform	20.0	18.6		ug/L		93	51 - 138
Chloromethane	20.0	19.3		ug/L		96	1 - 273
Chlorodibromomethane	20.0	19.5		ug/L		97	53 - 149
1,1-Dichloroethane	20.0	19.0		ug/L		95	59 - 155
1,2-Dichloroethane	20.0	18.7		ug/L		94	49 - 155
1,1-Dichloroethene	20.0	17.7		ug/L		89	1 - 234
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	54 - 156
1,2-Dichloropropane	20.0	19.9		ug/L		99	1 - 210
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	1 - 227
trans-1,3-Dichloropropene	20.0	19.1		ug/L		95	17 - 183
Ethylbenzene	20.0	19.9		ug/L		100	37 - 162
Methylene Chloride	20.0	19.8		ug/L		99	1 - 221
1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	46 - 157
Tetrachloroethene	20.0	19.7		ug/L		98	64 - 148
Toluene	20.0	18.7		ug/L		93	47 - 150
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	52 - 162
1,1,2-Trichloroethane	20.0	18.9		ug/L		94	52 - 150
Trichloroethene	20.0	19.7		ug/L		99	71 - 157
Vinyl chloride	20.0	21.5		ug/L		107	1 - 251
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	18 - 190
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	59 - 156
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 130*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*
Toluene-d8 (Surr)	*97*		*77 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372232

Client Sample ID: MW-27SMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	40		80.0	160		ug/L		149	37 - 151
Dichlorobromomethane	ND		80.0	79.6		ug/L		99	35 - 155
Bromoform	ND		80.0	70.6		ug/L		88	45 - 169
Bromomethane	ND		80.0	79.3		ug/L		99	1 - 242
Carbon tetrachloride	ND		80.0	80.6		ug/L		101	70 - 140
Chlorobenzene	ND		80.0	79.0		ug/L		99	37 - 160
Chloroethane	ND		80.0	79.7		ug/L		100	14 - 230
2-Chloroethyl vinyl ether	ND	F1	80.0	ND	F1	ug/L		0	1 - 305
Chloroform	ND		80.0	77.4		ug/L		97	51 - 138

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372232

Client Sample ID: MW-27SMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloromethane	ND		80.0	71.3		ug/L		89	1 - 273		
Chlorodibromomethane	ND		80.0	78.8		ug/L		98	53 - 149		
1,1-Dichloroethane	ND		80.0	72.0		ug/L		90	59 - 155		
1,2-Dichloroethane	ND		80.0	77.2		ug/L		97	49 - 155		
1,1-Dichloroethene	ND		80.0	71.2		ug/L		89	1 - 234		
trans-1,2-Dichloroethene	ND		80.0	73.3		ug/L		92	54 - 156		
1,2-Dichloropropane	ND		80.0	77.4		ug/L		97	1 - 210		
cis-1,3-Dichloropropene	ND		80.0	79.2		ug/L		99	1 - 227		
trans-1,3-Dichloropropene	ND		80.0	78.8		ug/L		99	17 - 183		
Ethylbenzene	5.2	J	80.0	91.8		ug/L		108	37 - 162		
Methylene Chloride	ND		80.0	75.0		ug/L		94	1 - 221		
1,1,2,2-Tetrachloroethane	ND		80.0	73.5		ug/L		92	46 - 157		
Tetrachloroethene	ND		80.0	83.0		ug/L		104	64 - 148		
Toluene	ND		80.0	79.6		ug/L		99	47 - 150		
1,1,1-Trichloroethane	ND		80.0	77.0		ug/L		96	52 - 162		
1,1,2-Trichloroethane	ND		80.0	79.2		ug/L		99	52 - 150		
Trichloroethene	ND		80.0	75.5		ug/L		94	71 - 157		
Vinyl chloride	ND		80.0	84.5		ug/L		106	1 - 251		
1,2-Dichlorobenzene	ND		80.0	74.7		ug/L		93	18 - 190		
1,3-Dichlorobenzene	ND		80.0	76.9		ug/L		96	59 - 156		
1,4-Dichlorobenzene	ND		80.0	76.5		ug/L		96	18 - 190		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*
Toluene-d8 (Surr)	*99*		*77 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372232

Client Sample ID: MW-27SMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	40		80.0	152		ug/L		140	37 - 151	5	15
Dichlorobromomethane	ND		80.0	78.2		ug/L		98	35 - 155	2	15
Bromoform	ND		80.0	70.3		ug/L		88	45 - 169	1	15
Bromomethane	ND		80.0	80.8		ug/L		101	1 - 242	2	15
Carbon tetrachloride	ND		80.0	75.8		ug/L		95	70 - 140	6	15
Chlorobenzene	ND		80.0	80.5		ug/L		101	37 - 160	2	15
Chloroethane	ND		80.0	73.2		ug/L		92	14 - 230	9	15
2-Chloroethyl vinyl ether	ND	F1	80.0	ND	F1	ug/L		0	1 - 305	NC	15
Chloroform	ND		80.0	73.0		ug/L		91	51 - 138	6	15
Chloromethane	ND		80.0	71.3		ug/L		89	1 - 273	0	15
Chlorodibromomethane	ND		80.0	76.7		ug/L		96	53 - 149	3	15
1,1-Dichloroethane	ND		80.0	71.1		ug/L		89	59 - 155	1	15
1,2-Dichloroethane	ND		80.0	74.7		ug/L		93	49 - 155	3	15
1,1-Dichloroethene	ND		80.0	66.9		ug/L		84	1 - 234	6	15
trans-1,2-Dichloroethene	ND		80.0	72.7		ug/L		91	54 - 156	1	15

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372232

Client Sample ID: MW-27SMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		80.0	77.0		ug/L		96	1 - 210	0	15
cis-1,3-Dichloropropene	ND		80.0	78.5		ug/L		98	1 - 227	1	15
trans-1,3-Dichloropropene	ND		80.0	75.1		ug/L		94	17 - 183	5	15
Ethylbenzene	5.2	J	80.0	91.6		ug/L		108	37 - 162	0	15
Methylene Chloride	ND		80.0	71.9		ug/L		90	1 - 221	4	15
1,1,2,2-Tetrachloroethane	ND		80.0	73.2		ug/L		92	46 - 157	0	15
Tetrachloroethene	ND		80.0	81.5		ug/L		102	64 - 148	2	15
Toluene	ND		80.0	78.4		ug/L		98	47 - 150	2	15
1,1,1-Trichloroethane	ND		80.0	70.4		ug/L		88	52 - 162	9	15
1,1,2-Trichloroethane	ND		80.0	79.9		ug/L		100	52 - 150	1	15
Trichloroethene	ND		80.0	74.2		ug/L		93	71 - 157	2	15
Vinyl chloride	ND		80.0	77.5		ug/L		97	1 - 251	9	15
1,2-Dichlorobenzene	ND		80.0	76.1		ug/L		95	18 - 190	2	15
1,3-Dichlorobenzene	ND		80.0	77.4		ug/L		97	59 - 156	1	15
1,4-Dichlorobenzene	ND		80.0	76.6		ug/L		96	18 - 190	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-372045/1-A
Matrix: Water
Analysis Batch: 373121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.81	ug/L		08/14/17 14:29	08/22/17 06:15	1
Acenaphthylene	ND		5.0	0.87	ug/L		08/14/17 14:29	08/22/17 06:15	1
Anthracene	ND		5.0	1.4	ug/L		08/14/17 14:29	08/22/17 06:15	1
Benzidine	ND		80	35	ug/L		08/14/17 14:29	08/22/17 06:15	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		08/14/17 14:29	08/22/17 06:15	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		08/14/17 14:29	08/22/17 06:15	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		08/14/17 14:29	08/22/17 06:15	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		08/14/17 14:29	08/22/17 06:15	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		08/14/17 14:29	08/22/17 06:15	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		08/14/17 14:29	08/22/17 06:15	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		08/14/17 14:29	08/22/17 06:15	1
bis (2-chloroisopropyl) ether	ND		5.0	0.84	ug/L		08/14/17 14:29	08/22/17 06:15	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		08/14/17 14:29	08/22/17 06:15	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		08/14/17 14:29	08/22/17 06:15	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		08/14/17 14:29	08/22/17 06:15	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		08/14/17 14:29	08/22/17 06:15	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		08/14/17 14:29	08/22/17 06:15	1
Chrysene	ND		5.0	1.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		08/14/17 14:29	08/22/17 06:15	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-372045/1-A
Matrix: Water
Analysis Batch: 373121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		08/14/17 14:29	08/22/17 06:15	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		08/14/17 14:29	08/22/17 06:15	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		08/14/17 14:29	08/22/17 06:15	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		08/14/17 14:29	08/22/17 06:15	1
Diethyl phthalate	ND		5.0	1.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		08/14/17 14:29	08/22/17 06:15	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		08/14/17 14:29	08/22/17 06:15	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		08/14/17 14:29	08/22/17 06:15	1
Fluoranthene	ND		5.0	1.6	ug/L		08/14/17 14:29	08/22/17 06:15	1
Fluorene	ND		5.0	1.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
Hexachloroethane	ND		5.0	0.60	ug/L		08/14/17 14:29	08/22/17 06:15	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		08/14/17 14:29	08/22/17 06:15	1
Isophorone	ND		5.0	0.74	ug/L		08/14/17 14:29	08/22/17 06:15	1
Naphthalene	ND		5.0	0.86	ug/L		08/14/17 14:29	08/22/17 06:15	1
Nitrobenzene	ND		5.0	0.81	ug/L		08/14/17 14:29	08/22/17 06:15	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		08/14/17 14:29	08/22/17 06:15	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		08/14/17 14:29	08/22/17 06:15	1
Phenanthrene	ND		5.0	1.2	ug/L		08/14/17 14:29	08/22/17 06:15	1
Pyrene	ND		5.0	1.4	ug/L		08/14/17 14:29	08/22/17 06:15	1
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		08/14/17 14:29	08/22/17 06:15	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		08/14/17 14:29	08/22/17 06:15	1
2-Chlorophenol	ND		5.0	0.66	ug/L		08/14/17 14:29	08/22/17 06:15	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		08/14/17 14:29	08/22/17 06:15	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		08/14/17 14:29	08/22/17 06:15	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		08/14/17 14:29	08/22/17 06:15	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		08/14/17 14:29	08/22/17 06:15	1
2-Nitrophenol	ND		5.0	0.70	ug/L		08/14/17 14:29	08/22/17 06:15	1
4-Nitrophenol	ND		15	10	ug/L		08/14/17 14:29	08/22/17 06:15	1
Pentachlorophenol	ND		10	1.6	ug/L		08/14/17 14:29	08/22/17 06:15	1
Phenol	ND		5.0	0.35	ug/L		08/14/17 14:29	08/22/17 06:15	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		08/14/17 14:29	08/22/17 06:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*52 - 151*	*08/14/17 14:29*	*08/22/17 06:15*	*1*
2-Fluorobiphenyl	*64*		*44 - 120*	*08/14/17 14:29*	*08/22/17 06:15*	*1*
2-Fluorophenol	*39*		*17 - 120*	*08/14/17 14:29*	*08/22/17 06:15*	*1*
Nitrobenzene-d5	*65*		*42 - 120*	*08/14/17 14:29*	*08/22/17 06:15*	*1*
Phenol-d5	*33*		*10 - 120*	*08/14/17 14:29*	*08/22/17 06:15*	*1*
p-Terphenyl-d14	*73*		*22 - 125*	*08/14/17 14:29*	*08/22/17 06:15*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372045/2-A
Matrix: Water
Analysis Batch: 373121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	39.1		ug/L		78	47 - 145
Acenaphthylene	50.0	40.1		ug/L		80	33 - 145
Anthracene	50.0	44.1		ug/L		88	27 - 133
Benzo[a]anthracene	50.0	46.7		ug/L		93	33 - 143
Benzo[a]pyrene	50.0	44.5		ug/L		89	17 - 163
Benzo[b]fluoranthene	50.0	42.9		ug/L		86	24 - 159
Benzo[g,h,i]perylene	50.0	50.2		ug/L		100	1 - 219
Benzo[k]fluoranthene	50.0	47.6		ug/L		95	11 - 162
Bis(2-chloroethyl)ether	50.0	37.7		ug/L		75	12 - 158
Bis(2-chloroethoxy)methane	50.0	41.3		ug/L		83	33 - 184
bis (2-chloroisopropyl) ether	50.0	41.0		ug/L		82	36 - 166
Bis(2-ethylhexyl) phthalate	50.0	49.1		ug/L		98	8 - 158
4-Bromophenyl phenyl ether	50.0	45.0		ug/L		90	53 - 127
Butyl benzyl phthalate	50.0	48.9		ug/L		98	1 - 152
2-Chloronaphthalene	50.0	36.0		ug/L		72	60 - 118
4-Chlorophenyl phenyl ether	50.0	42.0		ug/L		84	25 - 158
Chrysene	50.0	45.7		ug/L		91	17 - 168
Dibenz(a,h)anthracene	50.0	48.7		ug/L		97	1 - 227
Di-n-butyl phthalate	50.0	47.1		ug/L		94	1 - 118
1,2-Dichlorobenzene	50.0	25.6		ug/L		51	32 - 129
1,3-Dichlorobenzene	50.0	23.5		ug/L		47	1 - 172
1,4-Dichlorobenzene	50.0	23.8		ug/L		48	20 - 124
3,3'-Dichlorobenzidine	100	86.5		ug/L		86	1 - 262
Diethyl phthalate	50.0	46.5		ug/L		93	1 - 114
Dimethyl phthalate	50.0	46.0		ug/L		92	1 - 112
2,4-Dinitrotoluene	50.0	47.2		ug/L		94	39 - 139
2,6-Dinitrotoluene	50.0	47.4		ug/L		95	50 - 158
Di-n-octyl phthalate	50.0	49.4		ug/L		99	4 - 146
Fluoranthene	50.0	45.7		ug/L		91	26 - 137
Fluorene	50.0	43.7		ug/L		87	59 - 121
Hexachlorobenzene	50.0	43.2		ug/L		86	1 - 152
Hexachlorocyclopentadiene	50.0	21.2		ug/L		42	5 - 120
Hexachloroethane	50.0	21.1		ug/L		42	40 - 113
Indeno[1,2,3-cd]pyrene	50.0	48.2		ug/L		96	1 - 171
Isophorone	50.0	42.6		ug/L		85	21 - 196
Naphthalene	50.0	33.3		ug/L		67	21 - 133
Nitrobenzene	50.0	38.4		ug/L		77	35 - 180
N-Nitrosodi-n-propylamine	50.0	41.2		ug/L		82	1 - 230
N-Nitrosodiphenylamine	50.0	44.2		ug/L		88	54 - 125
Phenanthrene	50.0	43.6		ug/L		87	54 - 120
Pyrene	50.0	46.4		ug/L		93	52 - 115
1,2,4-Trichlorobenzene	50.0	26.9		ug/L		54	44 - 142
4-Chloro-3-methylphenol	50.0	42.0		ug/L		84	22 - 147
2-Chlorophenol	50.0	35.3		ug/L		71	23 - 134
2,4-Dichlorophenol	50.0	40.3		ug/L		81	39 - 135
2,4-Dimethylphenol	50.0	40.0		ug/L		80	32 - 119
2,4-Dinitrophenol	100	79.2		ug/L		79	1 - 191
4,6-Dinitro-2-methylphenol	100	87.0		ug/L		87	1 - 181

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372045/2-A
Matrix: Water
Analysis Batch: 373121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitrophenol	50.0	38.6		ug/L		77	29 - 182
4-Nitrophenol	100	51.3		ug/L		51	1 - 132
Pentachlorophenol	100	69.9		ug/L		70	14 - 176
Phenol	50.0	20.0		ug/L		40	5 - 112
2,4,6-Trichlorophenol	50.0	41.2		ug/L		82	37 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*83*		*52 - 151*
2-Fluorobiphenyl	*79*		*44 - 120*
2-Fluorophenol	*45*		*17 - 120*
Nitrobenzene-d5	*79*		*42 - 120*
Phenol-d5	*39*		*10 - 120*
p-Terphenyl-d14	*85*		*22 - 125*

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 373121

Client Sample ID: MW-27SMS
Prep Type: Total/NA
Prep Batch: 372045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	24		47.6	69.5		ug/L		95	47 - 145
Acenaphthylene	1.9	J	47.6	38.8		ug/L		77	33 - 145
Anthracene	3.3	J	47.6	45.1		ug/L		88	27 - 133
Benzo[a]anthracene	ND		47.6	43.3		ug/L		91	33 - 143
Benzo[a]pyrene	ND		47.6	41.7		ug/L		88	17 - 163
Benzo[b]fluoranthene	ND		47.6	42.4		ug/L		89	24 - 159
Benzo[g,h,i]perylene	ND		47.6	46.4		ug/L		97	1 - 219
Benzo[k]fluoranthene	ND		47.6	41.0		ug/L		86	11 - 162
Bis(2-chloroethyl)ether	ND		47.6	29.9		ug/L		63	12 - 158
Bis(2-chloroethoxy)methane	ND		47.6	34.5		ug/L		72	33 - 184
bis (2-chloroisopropyl) ether	ND		47.6	32.1		ug/L		67	36 - 166
Bis(2-ethylhexyl) phthalate	ND		47.6	46.8		ug/L		98	8 - 158
4-Bromophenyl phenyl ether	ND		47.6	41.6		ug/L		87	53 - 127
Butyl benzyl phthalate	ND		47.6	45.8		ug/L		96	1 - 152
2-Chloronaphthalene	ND		47.6	35.7		ug/L		75	60 - 118
4-Chlorophenyl phenyl ether	ND		47.6	38.7		ug/L		81	25 - 158
Chrysene	ND		47.6	43.1		ug/L		90	17 - 168
Dibenz(a,h)anthracene	ND		47.6	45.1		ug/L		95	1 - 227
Di-n-butyl phthalate	ND		47.6	43.9		ug/L		92	1 - 118
1,2-Dichlorobenzene	ND		47.6	21.3		ug/L		45	32 - 129
1,3-Dichlorobenzene	ND		47.6	19.9		ug/L		42	1 - 172
1,4-Dichlorobenzene	ND		47.6	21.2		ug/L		45	20 - 124
3,3'-Dichlorobenzidine	ND		95.2	14.8		ug/L		16	1 - 262
Diethyl phthalate	ND		47.6	41.5		ug/L		87	1 - 114
Dimethyl phthalate	ND		47.6	41.9		ug/L		88	1 - 112
2,4-Dinitrotoluene	ND		47.6	42.9		ug/L		90	39 - 139
2,6-Dinitrotoluene	ND		47.6	43.4		ug/L		91	50 - 158
Di-n-octyl phthalate	ND		47.6	46.0		ug/L		97	4 - 146
Fluoranthene	2.3	J	47.6	43.6		ug/L		87	26 - 137

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 373121

Client Sample ID: MW-27SMS
Prep Type: Total/NA
Prep Batch: 372045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	9.1		47.6	50.1		ug/L		86	59 - 121
Hexachlorobenzene	ND		47.6	39.8		ug/L		84	1 - 152
Hexachlorocyclopentadiene	ND		47.6	22.0		ug/L		46	5 - 120
Hexachloroethane	ND	F1	47.6	17.9	F1	ug/L		38	40 - 113
Indeno[1,2,3-cd]pyrene	ND		47.6	45.4		ug/L		95	1 - 171
Isophorone	ND		47.6	36.1		ug/L		76	21 - 196
Naphthalene	16		47.6	61.4		ug/L		95	21 - 133
Nitrobenzene	ND		47.6	33.0		ug/L		69	35 - 180
N-Nitrosodi-n-propylamine	ND		47.6	33.1		ug/L		70	1 - 230
N-Nitrosodiphenylamine	ND		47.6	42.1		ug/L		88	54 - 125
Phenanthrene	12		47.6	53.9		ug/L		89	54 - 120
Pyrene	2.8	J	47.6	47.5		ug/L		94	52 - 115
1,2,4-Trichlorobenzene	ND		47.6	25.3		ug/L		53	44 - 142
4-Chloro-3-methylphenol	ND		47.6	38.7		ug/L		81	22 - 147
2-Chlorophenol	ND		47.6	28.3		ug/L		60	23 - 134
2,4-Dichlorophenol	ND		47.6	36.5		ug/L		77	39 - 135
2,4-Dimethylphenol	ND		47.6	36.0		ug/L		76	32 - 119
2,4-Dinitrophenol	ND		95.2	83.4		ug/L		88	1 - 191
4,6-Dinitro-2-methylphenol	ND		95.2	88.2		ug/L		93	1 - 181
2-Nitrophenol	ND		47.6	33.4		ug/L		70	29 - 182
4-Nitrophenol	ND		95.2	52.9		ug/L		56	1 - 132
Pentachlorophenol	ND		95.2	89.1		ug/L		94	14 - 176
Phenol	ND		47.6	16.2		ug/L		34	5 - 112
2,4,6-Trichlorophenol	ND		47.6	40.2		ug/L		84	37 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*90*		*52 - 151*
2-Fluorobiphenyl	*72*		*44 - 120*
2-Fluorophenol	*36*		*17 - 120*
Nitrobenzene-d5	*69*		*42 - 120*
Phenol-d5	*32*		*10 - 120*
p-Terphenyl-d14	*57*		*22 - 125*

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 373121

Client Sample ID: MW-27SMSD
Prep Type: Total/NA
Prep Batch: 372045

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	24		47.6	75.8		ug/L		108	47 - 145	9	25
Acenaphthylene	1.9	J	47.6	35.8		ug/L		71	33 - 145	8	22
Anthracene	3.3	J	47.6	42.3		ug/L		82	27 - 133	7	15
Benzo[a]anthracene	ND		47.6	39.9		ug/L		84	33 - 143	8	15
Benzo[a]pyrene	ND		47.6	38.8		ug/L		81	17 - 163	7	15
Benzo[b]fluoranthene	ND		47.6	40.3		ug/L		85	24 - 159	5	17
Benzo[g,h,i]perylene	ND		47.6	43.4		ug/L		91	1 - 219	7	19
Benzo[k]fluoranthene	ND		47.6	36.6		ug/L		77	11 - 162	11	19
Bis(2-chloroethyl)ether	ND		47.6	28.0		ug/L		59	12 - 158	7	33
Bis(2-chloroethoxy)methane	ND		47.6	31.7		ug/L		66	33 - 184	9	23

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 373121

Client Sample ID: MW-27SMSD
Prep Type: Total/NA
Prep Batch: 372045

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
bis (2-chloroisopropyl) ether	ND		47.6	30.1		ug/L		63	36 - 166	7	36
Bis(2-ethylhexyl) phthalate	ND		47.6	43.7		ug/L		92	8 - 158	7	15
4-Bromophenyl phenyl ether	ND		47.6	38.5		ug/L		81	53 - 127	8	16
Butyl benzyl phthalate	ND		47.6	43.1		ug/L		91	1 - 152	6	15
2-Chloronaphthalene	ND		47.6	31.3		ug/L		66	60 - 118	13	30
4-Chlorophenyl phenyl ether	ND		47.6	36.9		ug/L		77	25 - 158	5	15
Chrysene	ND		47.6	39.8		ug/L		84	17 - 168	8	15
Dibenz(a,h)anthracene	ND		47.6	42.1		ug/L		88	1 - 227	7	18
Di-n-butyl phthalate	ND		47.6	40.8		ug/L		86	1 - 118	7	15
1,2-Dichlorobenzene	ND		47.6	19.9		ug/L		42	32 - 129	7	38
1,3-Dichlorobenzene	ND		47.6	19.0		ug/L		40	1 - 172	4	37
1,4-Dichlorobenzene	ND		47.6	19.1		ug/L		40	20 - 124	10	40
3,3'-Dichlorobenzidine	ND		95.2	12.8		ug/L		13	1 - 262	14	31
Diethyl phthalate	ND		47.6	39.4		ug/L		83	1 - 114	5	15
Dimethyl phthalate	ND		47.6	38.3		ug/L		80	1 - 112	9	15
2,4-Dinitrotoluene	ND		47.6	41.3		ug/L		87	39 - 139	4	20
2,6-Dinitrotoluene	ND		47.6	39.4		ug/L		83	50 - 158	10	17
Di-n-octyl phthalate	ND		47.6	43.4		ug/L		91	4 - 146	6	15
Fluoranthene	2.3	J	47.6	40.7		ug/L		81	26 - 137	7	15
Fluorene	9.1		47.6	50.8		ug/L		88	59 - 121	1	18
Hexachlorobenzene	ND		47.6	38.3		ug/L		80	1 - 152	4	15
Hexachlorocyclopentadiene	ND		47.6	19.6		ug/L		41	5 - 120	12	50
Hexachloroethane	ND	F1	47.6	17.3	F1	ug/L		36	40 - 113	4	43
Indeno[1,2,3-cd]pyrene	ND		47.6	42.4		ug/L		89	1 - 171	7	17
Isophorone	ND		47.6	33.0		ug/L		69	21 - 196	9	21
Naphthalene	16		47.6	67.7		ug/L		108	21 - 133	10	31
Nitrobenzene	ND		47.6	29.6		ug/L		62	35 - 180	11	27
N-Nitrosodi-n-propylamine	ND		47.6	30.6		ug/L		64	1 - 230	8	23
N-Nitrosodiphenylamine	ND		47.6	39.0		ug/L		82	54 - 125	8	15
Phenanthrene	12		47.6	53.6		ug/L		88	54 - 120	1	16
Pyrene	2.8	J	47.6	43.7		ug/L		86	52 - 115	8	15
1,2,4-Trichlorobenzene	ND		47.6	23.2		ug/L		49	44 - 142	8	34
4-Chloro-3-methylphenol	ND		47.6	37.1		ug/L		78	22 - 147	4	16
2-Chlorophenol	ND		47.6	27.2		ug/L		57	23 - 134	4	26
2,4-Dichlorophenol	ND		47.6	33.5		ug/L		70	39 - 135	8	23
2,4-Dimethylphenol	ND		47.6	34.0		ug/L		71	32 - 119	6	18
2,4-Dinitrophenol	ND		95.2	82.4		ug/L		87	1 - 191	1	29
4,6-Dinitro-2-methylphenol	ND		95.2	85.1		ug/L		89	1 - 181	3	30
2-Nitrophenol	ND		47.6	31.6		ug/L		66	29 - 182	6	28
4-Nitrophenol	ND		95.2	51.0		ug/L		54	1 - 132	4	24
Pentachlorophenol	ND		95.2	84.4		ug/L		89	14 - 176	5	21
Phenol	ND		47.6	15.1		ug/L		32	5 - 112	7	36
2,4,6-Trichlorophenol	ND		47.6	36.9		ug/L		77	37 - 144	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*87*		*52 - 151*
2-Fluorobiphenyl	*64*		*44 - 120*
2-Fluorophenol	*35*		*17 - 120*

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 373121

Client Sample ID: MW-27SMSD
Prep Type: Total/NA
Prep Batch: 372045

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*63*		*42 - 120*
Phenol-d5	*29*		*10 - 120*
p-Terphenyl-d14	*61*		*22 - 125*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-372123/1-A
Matrix: Water
Analysis Batch: 372460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/15/17 07:44	08/16/17 10:46	1
alpha-BHC	ND		0.050	0.0077	ug/L		08/15/17 07:44	08/16/17 10:46	1
beta-BHC	ND		0.050	0.025	ug/L		08/15/17 07:44	08/16/17 10:46	1
delta-BHC	ND		0.050	0.010	ug/L		08/15/17 07:44	08/16/17 10:46	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		08/15/17 07:44	08/16/17 10:46	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/15/17 07:44	08/16/17 10:46	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/15/17 07:44	08/16/17 10:46	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/15/17 07:44	08/16/17 10:46	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/15/17 07:44	08/16/17 10:46	1
Dieldrin	ND		0.050	0.0098	ug/L		08/15/17 07:44	08/16/17 10:46	1
Endosulfan I	ND		0.050	0.011	ug/L		08/15/17 07:44	08/16/17 10:46	1
Endosulfan II	ND		0.050	0.012	ug/L		08/15/17 07:44	08/16/17 10:46	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/15/17 07:44	08/16/17 10:46	1
Endrin	ND		0.050	0.014	ug/L		08/15/17 07:44	08/16/17 10:46	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/15/17 07:44	08/16/17 10:46	1
Heptachlor	ND		0.050	0.0085	ug/L		08/15/17 07:44	08/16/17 10:46	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/15/17 07:44	08/16/17 10:46	1
Toxaphene	ND		0.50	0.12	ug/L		08/15/17 07:44	08/16/17 10:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*23 - 120*	*08/15/17 07:44*	*08/16/17 10:46*	*1*
DCB Decachlorobiphenyl	*64*		*23 - 120*	*08/15/17 07:44*	*08/16/17 10:46*	*1*
Tetrachloro-m-xylene	*78*		*44 - 120*	*08/15/17 07:44*	*08/16/17 10:46*	*1*
Tetrachloro-m-xylene	*69*		*44 - 120*	*08/15/17 07:44*	*08/16/17 10:46*	*1*

Lab Sample ID: LCS 480-372123/2-A
Matrix: Water
Analysis Batch: 372460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.500	0.291		ug/L		58	40 - 125
alpha-BHC	0.500	0.365		ug/L		73	52 - 125
beta-BHC	0.500	0.458		ug/L		92	52 - 120
delta-BHC	0.500	0.446		ug/L		89	51 - 120
gamma-BHC (Lindane)	0.500	0.444		ug/L		89	56 - 120
4,4'-DDD	0.500	0.506		ug/L		101	64 - 129

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 480-372123/2-A
Matrix: Water
Analysis Batch: 372460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	0.500	0.433		ug/L		87	50 - 120
4,4'-DDT	0.500	0.514		ug/L		103	59 - 120
Dieldrin	0.500	0.499		ug/L		100	66 - 128
Endosulfan I	0.500	0.455		ug/L		91	57 - 120
Endosulfan II	0.500	0.482		ug/L		96	66 - 131
Endosulfan sulfate	0.500	0.586		ug/L		117	66 - 131
Endrin	0.500	0.506		ug/L		101	65 - 135
Endrin aldehyde	0.500	0.361		ug/L		72	61 - 134
Heptachlor	0.500	0.388		ug/L		78	58 - 120
Heptachlor epoxide	0.500	0.493		ug/L		99	65 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*23 - 120*
DCB Decachlorobiphenyl	*64*		*23 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*
Tetrachloro-m-xylene	*69*		*44 - 120*

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372460

Client Sample ID: MW-27SMS
Prep Type: Total/NA
Prep Batch: 372123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		0.500	0.299		ug/L		60	16 - 128
alpha-BHC	0.019	J	0.500	0.349		ug/L		66	48 - 120
beta-BHC	0.044	J	0.500	0.437		ug/L		78	41 - 147
delta-BHC	0.035	J	0.500	0.400		ug/L		73	29 - 152
gamma-BHC (Lindane)	0.037	J	0.500	0.402		ug/L		73	58 - 120
4,4'-DDD	ND		0.500	0.352		ug/L		70	57 - 130
4,4'-DDE	ND		0.500	0.275		ug/L		55	39 - 120
4,4'-DDT	0.029	J	0.500	0.320		ug/L		58	37 - 130
Dieldrin	ND		0.500	0.426		ug/L		85	56 - 130
Endosulfan I	ND		0.500	0.359		ug/L		72	40 - 126
Endosulfan II	ND		0.500	0.494		ug/L		99	59 - 140
Endosulfan sulfate	0.019	J	0.500	0.562		ug/L		109	60 - 134
Endrin	ND		0.500	0.437		ug/L		87	54 - 135
Endrin aldehyde	ND		0.500	0.365		ug/L		73	50 - 142
Heptachlor	ND		0.500	0.413		ug/L		83	56 - 120
Heptachlor epoxide	ND		0.500	0.391		ug/L		78	58 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*45*		*23 - 120*
DCB Decachlorobiphenyl	*49*		*23 - 120*
Tetrachloro-m-xylene	*94*		*44 - 120*
Tetrachloro-m-xylene	*69*		*44 - 120*

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372460

Client Sample ID: MW-27SMSD
Prep Type: Total/NA
Prep Batch: 372123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		0.500	0.318		ug/L		64	16 - 128	6	50
alpha-BHC	0.019	J	0.500	0.328		ug/L		62	48 - 120	6	50
beta-BHC	0.044	J	0.500	0.419		ug/L		75	41 - 147	4	50
delta-BHC	0.035	J	0.500	0.382		ug/L		69	29 - 152	5	50
gamma-BHC (Lindane)	0.037	J	0.500	0.403		ug/L		73	58 - 120	0	50
4,4'-DDD	ND		0.500	0.366		ug/L		73	57 - 130	4	50
4,4'-DDE	ND		0.500	0.295		ug/L		59	39 - 120	7	50
4,4'-DDT	0.029	J	0.500	0.352		ug/L		65	37 - 130	10	50
Dieldrin	ND		0.500	0.442		ug/L		88	56 - 130	4	50
Endosulfan I	ND		0.500	0.372		ug/L		74	40 - 126	4	50
Endosulfan II	ND		0.500	0.480		ug/L		96	59 - 140	3	50
Endosulfan sulfate	0.019	J	0.500	0.525		ug/L		101	60 - 134	7	50
Endrin	ND		0.500	0.500		ug/L		100	54 - 135	13	50
Endrin aldehyde	ND		0.500	0.347		ug/L		69	50 - 142	5	50
Heptachlor	ND		0.500	0.432		ug/L		86	56 - 120	4	50
Heptachlor epoxide	ND		0.500	0.401		ug/L		80	58 - 125	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*53*		*23 - 120*
DCB Decachlorobiphenyl	*64*		*23 - 120*
Tetrachloro-m-xylene	*93*		*44 - 120*
Tetrachloro-m-xylene	*73*		*44 - 120*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-372124/1-A
Matrix: Water
Analysis Batch: 372186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 15:05	1
PCB-1221	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 15:05	1
PCB-1232	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 15:05	1
PCB-1242	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 15:05	1
PCB-1248	ND		0.060	0.038	ug/L		08/15/17 07:48	08/15/17 15:05	1
PCB-1254	ND		0.060	0.031	ug/L		08/15/17 07:48	08/15/17 15:05	1
PCB-1260	ND		0.060	0.031	ug/L		08/15/17 07:48	08/15/17 15:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*36 - 121*	*08/15/17 07:48*	*08/15/17 15:05*	*1*
DCB Decachlorobiphenyl	*86*		*36 - 121*	*08/15/17 07:48*	*08/15/17 15:05*	*1*
Tetrachloro-m-xylene	*102*		*42 - 135*	*08/15/17 07:48*	*08/15/17 15:05*	*1*
Tetrachloro-m-xylene	*180*	*X*	*42 - 135*	*08/15/17 07:48*	*08/15/17 15:05*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 480-372124/2-A
Matrix: Water
Analysis Batch: 372186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372124

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.00	0.994		ug/L		99	69 - 123		
PCB-1260			1.00	0.854		ug/L		85	69 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*		*36 - 121*
DCB Decachlorobiphenyl	*84*		*36 - 121*
Tetrachloro-m-xylene	*93*		*42 - 135*
Tetrachloro-m-xylene	*140*	*X*	*42 - 135*

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372186

Client Sample ID: MW-27SMS
Prep Type: Total/NA
Prep Batch: 372124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.00	0.869		ug/L		87	43 - 150		
PCB-1260	ND		1.00	0.432		ug/L		43	21 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*31*	*X*	*36 - 121*
DCB Decachlorobiphenyl	*63*		*36 - 121*
Tetrachloro-m-xylene	*72*		*42 - 135*
Tetrachloro-m-xylene	*87*		*42 - 135*

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372186

Client Sample ID: MW-27SMSD
Prep Type: Total/NA
Prep Batch: 372124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.00	0.806		ug/L		81	43 - 150	8	30
PCB-1260	ND		1.00	0.432		ug/L		43	21 - 150	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*30*	*X*	*36 - 121*
DCB Decachlorobiphenyl	*60*		*36 - 121*
Tetrachloro-m-xylene	*69*		*42 - 135*
Tetrachloro-m-xylene	*80*		*42 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-372146/1-A
Matrix: Water
Analysis Batch: 372572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/15/17 09:55	08/16/17 19:26	1
Antimony	ND		0.020	0.0068	mg/L		08/15/17 09:55	08/16/17 19:26	1
Arsenic	ND		0.015	0.0056	mg/L		08/15/17 09:55	08/16/17 19:26	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-372146/1-A
Matrix: Water
Analysis Batch: 372572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0020	0.00070	mg/L		08/15/17 09:55	08/16/17 19:26	1
Beryllium	ND		0.0020	0.00030	mg/L		08/15/17 09:55	08/16/17 19:26	1
Cadmium	ND		0.0020	0.00050	mg/L		08/15/17 09:55	08/16/17 19:26	1
Calcium	ND		0.50	0.10	mg/L		08/15/17 09:55	08/16/17 19:26	1
Chromium	ND		0.0040	0.0010	mg/L		08/15/17 09:55	08/16/17 19:26	1
Cobalt	ND		0.0040	0.00063	mg/L		08/15/17 09:55	08/16/17 19:26	1
Copper	ND		0.010	0.0016	mg/L		08/15/17 09:55	08/16/17 19:26	1
Iron	ND		0.050	0.019	mg/L		08/15/17 09:55	08/16/17 19:26	1
Lead	ND		0.010	0.0030	mg/L		08/15/17 09:55	08/16/17 19:26	1
Magnesium	ND		0.20	0.043	mg/L		08/15/17 09:55	08/16/17 19:26	1
Manganese	0.00148	J	0.0030	0.00040	mg/L		08/15/17 09:55	08/16/17 19:26	1
Nickel	ND		0.010	0.0013	mg/L		08/15/17 09:55	08/16/17 19:26	1
Potassium	ND		0.50	0.10	mg/L		08/15/17 09:55	08/16/17 19:26	1
Selenium	ND		0.025	0.0087	mg/L		08/15/17 09:55	08/16/17 19:26	1
Silver	ND		0.0060	0.0017	mg/L		08/15/17 09:55	08/16/17 19:26	1
Sodium	ND		1.0	0.32	mg/L		08/15/17 09:55	08/16/17 19:26	1
Thallium	ND		0.020	0.010	mg/L		08/15/17 09:55	08/16/17 19:26	1
Vanadium	ND		0.0050	0.0015	mg/L		08/15/17 09:55	08/16/17 19:26	1
Zinc	ND		0.010	0.0015	mg/L		08/15/17 09:55	08/16/17 19:26	1

Lab Sample ID: LCS 480-372146/2-A
Matrix: Water
Analysis Batch: 372572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.85		mg/L		99	80 - 120
Antimony	0.200	0.201		mg/L		101	80 - 120
Arsenic	0.200	0.201		mg/L		100	80 - 120
Barium	0.200	0.206		mg/L		103	80 - 120
Beryllium	0.200	0.202		mg/L		101	80 - 120
Cadmium	0.200	0.203		mg/L		101	80 - 120
Calcium	10.0	9.94		mg/L		99	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.200	0.192		mg/L		96	80 - 120
Copper	0.200	0.203		mg/L		102	80 - 120
Iron	10.0	10.18		mg/L		102	80 - 120
Lead	0.200	0.201		mg/L		101	80 - 120
Magnesium	10.0	10.21		mg/L		102	80 - 120
Manganese	0.200	0.211		mg/L		105	80 - 120
Nickel	0.200	0.196		mg/L		98	80 - 120
Potassium	10.0	9.90		mg/L		99	80 - 120
Selenium	0.200	0.198		mg/L		99	80 - 120
Silver	0.0500	0.0485		mg/L		97	80 - 120
Sodium	10.0	9.87		mg/L		99	80 - 120
Thallium	0.200	0.202		mg/L		101	80 - 120
Vanadium	0.200	0.199		mg/L		99	80 - 120
Zinc	0.200	0.203		mg/L		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372572

Client Sample ID: MW-27S
Prep Type: Total/NA
Prep Batch: 372146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	10.08		mg/L		101	75 - 125
Antimony	ND		0.200	0.207		mg/L		104	75 - 125
Arsenic	0.0062	J	0.200	0.217		mg/L		106	75 - 125
Barium	0.15		0.200	0.356		mg/L		102	75 - 125
Beryllium	ND		0.200	0.207		mg/L		103	75 - 125
Cadmium	ND		0.200	0.212		mg/L		106	75 - 125
Calcium	134		10.0	146.5	4	mg/L		129	75 - 125
Chromium	0.0034	J	0.200	0.204		mg/L		100	75 - 125
Cobalt	0.0012	J	0.200	0.205		mg/L		102	75 - 125
Copper	0.0032	J	0.200	0.209		mg/L		103	75 - 125
Iron	4.0		10.0	13.89		mg/L		99	75 - 125
Lead	0.0049	J	0.200	0.216		mg/L		106	75 - 125
Magnesium	19.1		10.0	28.23		mg/L		92	75 - 125
Manganese	0.31	B	0.200	0.515		mg/L		103	75 - 125
Nickel	0.0050	J	0.200	0.209		mg/L		102	75 - 125
Potassium	12.3		10.0	21.79		mg/L		95	75 - 125
Selenium	ND		0.200	0.212		mg/L		106	75 - 125
Silver	ND		0.0500	0.0516		mg/L		103	75 - 125
Sodium	459		10.0	463.6	4	mg/L		51	75 - 125
Thallium	ND		0.200	0.198		mg/L		99	75 - 125
Vanadium	0.0018	J	0.200	0.206		mg/L		102	75 - 125
Zinc	0.0063	J	0.200	0.212		mg/L		103	75 - 125

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372572

Client Sample ID: MW-27S
Prep Type: Total/NA
Prep Batch: 372146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.95		mg/L		99	75 - 125	1	20
Antimony	ND		0.200	0.205		mg/L		103	75 - 125	1	20
Arsenic	0.0062	J	0.200	0.216		mg/L		105	75 - 125	1	20
Barium	0.15		0.200	0.368		mg/L		108	75 - 125	3	20
Beryllium	ND		0.200	0.203		mg/L		101	75 - 125	2	20
Cadmium	ND		0.200	0.209		mg/L		105	75 - 125	1	20
Calcium	134		10.0	154.6	4	mg/L		211	75 - 125	5	20
Chromium	0.0034	J	0.200	0.200		mg/L		98	75 - 125	2	20
Cobalt	0.0012	J	0.200	0.202		mg/L		100	75 - 125	1	20
Copper	0.0032	J	0.200	0.205		mg/L		101	75 - 125	2	20
Iron	4.0		10.0	13.67		mg/L		96	75 - 125	2	20
Lead	0.0049	J	0.200	0.215		mg/L		105	75 - 125	1	20
Magnesium	19.1		10.0	28.50		mg/L		94	75 - 125	1	20
Manganese	0.31	B	0.200	0.532	^	mg/L		111	75 - 125	3	20
Nickel	0.0050	J	0.200	0.206		mg/L		100	75 - 125	1	20
Potassium	12.3		10.0	21.78		mg/L		95	75 - 125	0	20
Selenium	ND		0.200	0.205		mg/L		103	75 - 125	3	20
Silver	ND		0.0500	0.0502		mg/L		100	75 - 125	3	20
Sodium	459		10.0	479.0	4	mg/L		204	75 - 125	3	20
Thallium	ND		0.200	0.196		mg/L		98	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372572

Client Sample ID: MW-27S
Prep Type: Total/NA
Prep Batch: 372146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	0.0018	J	0.200	0.203		mg/L		101	75 - 125	2	20
Zinc	0.0063	J	0.200	0.211		mg/L		102	75 - 125	1	20

Lab Sample ID: MB 480-371980/1-B
Matrix: Water
Analysis Batch: 372558

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 372312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/16/17 09:30	08/16/17 23:40	1
Antimony	ND		0.020	0.0068	mg/L		08/16/17 09:30	08/16/17 23:40	1
Arsenic	ND		0.015	0.0056	mg/L		08/16/17 09:30	08/16/17 23:40	1
Barium	ND		0.0020	0.00070	mg/L		08/16/17 09:30	08/16/17 23:40	1
Beryllium	ND		0.0020	0.00030	mg/L		08/16/17 09:30	08/16/17 23:40	1
Cadmium	ND		0.0020	0.00050	mg/L		08/16/17 09:30	08/16/17 23:40	1
Calcium	ND		0.50	0.10	mg/L		08/16/17 09:30	08/16/17 23:40	1
Chromium	ND		0.0040	0.0010	mg/L		08/16/17 09:30	08/16/17 23:40	1
Cobalt	ND		0.0040	0.00063	mg/L		08/16/17 09:30	08/16/17 23:40	1
Copper	ND		0.010	0.0016	mg/L		08/16/17 09:30	08/16/17 23:40	1
Iron	ND		0.050	0.019	mg/L		08/16/17 09:30	08/16/17 23:40	1
Lead	ND		0.010	0.0030	mg/L		08/16/17 09:30	08/16/17 23:40	1
Magnesium	ND		0.20	0.043	mg/L		08/16/17 09:30	08/16/17 23:40	1
Manganese	ND		0.0030	0.00040	mg/L		08/16/17 09:30	08/16/17 23:40	1
Nickel	ND		0.010	0.0013	mg/L		08/16/17 09:30	08/16/17 23:40	1
Selenium	ND		0.025	0.0087	mg/L		08/16/17 09:30	08/16/17 23:40	1
Silver	ND		0.0060	0.0017	mg/L		08/16/17 09:30	08/16/17 23:40	1
Sodium	ND		1.0	0.32	mg/L		08/16/17 09:30	08/16/17 23:40	1
Thallium	ND		0.020	0.010	mg/L		08/16/17 09:30	08/16/17 23:40	1
Vanadium	ND		0.0050	0.0015	mg/L		08/16/17 09:30	08/16/17 23:40	1
Zinc	0.00225	J	0.010	0.0015	mg/L		08/16/17 09:30	08/16/17 23:40	1

Lab Sample ID: MB 480-371980/1-B
Matrix: Water
Analysis Batch: 372806

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 372312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		08/16/17 09:30	08/17/17 12:27	1

Lab Sample ID: LCS 480-371980/2-B
Matrix: Water
Analysis Batch: 372558

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 372312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.99		mg/L		100	80 - 120
Antimony	0.200	0.201		mg/L		100	80 - 120
Arsenic	0.200	0.206		mg/L		103	80 - 120
Barium	0.200	0.213		mg/L		106	80 - 120
Beryllium	0.200	0.201		mg/L		101	80 - 120
Cadmium	0.200	0.206		mg/L		103	80 - 120
Calcium	10.0	10.19		mg/L		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-371980/2-B
Matrix: Water
Analysis Batch: 372558

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 372312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.200	0.193		mg/L		97	80 - 120
Copper	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	10.25		mg/L		102	80 - 120
Lead	0.200	0.204		mg/L		102	80 - 120
Magnesium	10.0	10.34		mg/L		103	80 - 120
Manganese	0.200	0.214		mg/L		107	80 - 120
Nickel	0.200	0.200		mg/L		100	80 - 120
Potassium	10.0	10.51		mg/L		105	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0494		mg/L		99	80 - 120
Sodium	10.0	10.22		mg/L		102	80 - 120
Thallium	0.200	0.201		mg/L		100	80 - 120
Vanadium	0.200	0.206		mg/L		103	80 - 120
Zinc	0.200	0.204		mg/L		102	80 - 120

Lab Sample ID: LCS 480-371980/2-B
Matrix: Water
Analysis Batch: 372806

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 372312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.26		mg/L		103	80 - 120

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372558

Client Sample ID: MW-27S
Prep Type: Dissolved
Prep Batch: 372312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.98		mg/L		100	75 - 125
Antimony	ND		0.200	0.206		mg/L		103	75 - 125
Arsenic	ND		0.200	0.216		mg/L		108	75 - 125
Barium	0.13		0.200	0.346		mg/L		107	75 - 125
Beryllium	ND		0.200	0.202		mg/L		101	75 - 125
Cadmium	ND		0.200	0.212		mg/L		106	75 - 125
Calcium	124		10.0	142.7	4	mg/L		191	75 - 125
Chromium	ND		0.200	0.201		mg/L		100	75 - 125
Cobalt	0.00090	J	0.200	0.202		mg/L		101	75 - 125
Copper	ND		0.200	0.212		mg/L		106	75 - 125
Iron	0.13		10.0	10.09		mg/L		100	75 - 125
Lead	ND		0.200	0.210		mg/L		105	75 - 125
Magnesium	18.2		10.0	28.34		mg/L		102	75 - 125
Manganese	0.29		0.200	0.510		mg/L		112	75 - 125
Nickel	0.0015	J	0.200	0.210		mg/L		104	75 - 125
Selenium	ND		0.200	0.195		mg/L		97	75 - 125
Silver	ND		0.0500	0.0514		mg/L		103	75 - 125
Sodium	433		10.0	484.9	4	mg/L		521	75 - 125
Thallium	ND		0.200	0.201		mg/L		100	75 - 125
Vanadium	ND		0.200	0.206		mg/L		103	75 - 125
Zinc	0.0034	J B	0.200	0.204		mg/L		101	75 - 125

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372806

Client Sample ID: MW-27S
Prep Type: Dissolved
Prep Batch: 372312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	11.9		10.0	22.04		mg/L		101	75 - 125

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372558

Client Sample ID: MW-27S
Prep Type: Dissolved
Prep Batch: 372312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	10.22		mg/L		102	75 - 125	2	20
Antimony	ND		0.200	0.205		mg/L		102	75 - 125	1	20
Arsenic	ND		0.200	0.222		mg/L		111	75 - 125	3	20
Barium	0.13		0.200	0.368		mg/L		117	75 - 125	6	20
Beryllium	ND		0.200	0.205		mg/L		102	75 - 125	1	20
Cadmium	ND		0.200	0.214		mg/L		107	75 - 125	1	20
Calcium	124		10.0	151.8	4	mg/L		282	75 - 125	6	20
Chromium	ND		0.200	0.204		mg/L		102	75 - 125	2	20
Cobalt	0.00090	J	0.200	0.204		mg/L		102	75 - 125	1	20
Copper	ND		0.200	0.213		mg/L		107	75 - 125	0	20
Iron	0.13		10.0	10.30		mg/L		102	75 - 125	2	20
Lead	ND		0.200	0.215		mg/L		108	75 - 125	2	20
Magnesium	18.2		10.0	28.69		mg/L		105	75 - 125	1	20
Manganese	0.29		0.200	0.533		mg/L		124	75 - 125	4	20
Nickel	0.0015	J	0.200	0.210		mg/L		105	75 - 125	0	20
Selenium	ND		0.200	0.190		mg/L		95	75 - 125	2	20
Silver	ND		0.0500	0.0525		mg/L		105	75 - 125	2	20
Sodium	433		10.0	476.4	4	mg/L		436	75 - 125	2	20
Thallium	ND		0.200	0.200		mg/L		100	75 - 125	0	20
Vanadium	ND		0.200	0.208		mg/L		104	75 - 125	1	20
Zinc	0.0034	J B	0.200	0.210		mg/L		103	75 - 125	3	20

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372806

Client Sample ID: MW-27S
Prep Type: Dissolved
Prep Batch: 372312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	11.9		10.0	22.20		mg/L		103	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-371953/1-A
Matrix: Water
Analysis Batch: 372147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/14/17 10:00	08/14/17 14:06	1

Lab Sample ID: LCS 480-371953/2-A
Matrix: Water
Analysis Batch: 372147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00658		mg/L		99	80 - 120

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372147

Client Sample ID: MW-27S
Prep Type: Total/NA
Prep Batch: 371953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00643		mg/L		96	80 - 120

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372147

Client Sample ID: MW-27S
Prep Type: Total/NA
Prep Batch: 371953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00653		mg/L		98	80 - 120	2	20

Lab Sample ID: MB 480-372398/1-A
Matrix: Water
Analysis Batch: 372474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/16/17 09:40	08/16/17 12:55	1

Lab Sample ID: LCS 480-372398/2-A
Matrix: Water
Analysis Batch: 372474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00630		mg/L		94	80 - 120

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372474

Client Sample ID: MW-27S
Prep Type: Dissolved
Prep Batch: 372398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00630		mg/L		94	80 - 120

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372474

Client Sample ID: MW-27S
Prep Type: Dissolved
Prep Batch: 372398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00633		mg/L		95	80 - 120	1	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-373241/1-A
Matrix: Water
Analysis Batch: 373339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		08/22/17 08:32	08/22/17 08:32	1
SGT-HEM	ND		5.0	1.9	mg/L		08/22/17 08:32	08/22/17 08:32	1

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 480-373241/2-A
Matrix: Water
Analysis Batch: 373339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	39.9	38.88		mg/L		97	78 - 114
SGT-HEM	19.9	13.56		mg/L		68	64 - 132

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 373339

Client Sample ID: MW-27S
Prep Type: Total/NA
Prep Batch: 373241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	2.0	J	22.0	22.39		mg/L		93	78 - 114
SGT-HEM	ND		11.0	8.01		mg/L		73	64 - 132

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-372078/1-A
Matrix: Water
Analysis Batch: 372177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		08/14/17 16:25	08/15/17 07:12	1

Lab Sample ID: LCS 480-372078/2-A
Matrix: Water
Analysis Batch: 372177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.30		mg/L		92	90 - 110

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372177

Client Sample ID: MW-27SMS
Prep Type: Total/NA
Prep Batch: 372078

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.4		1.00	3.46		mg/L		109	90 - 110

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372177

Client Sample ID: MW-27SMSD
Prep Type: Total/NA
Prep Batch: 372078

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	2.4		1.00	3.41		mg/L		104	90 - 110	2	20

Method: 410.4 - COD

Lab Sample ID: MB 480-372108/27
Matrix: Water
Analysis Batch: 372108

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/14/17 19:02	1

Lab Sample ID: MB 480-372108/3
Matrix: Water
Analysis Batch: 372108

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/14/17 19:02	1

Lab Sample ID: LCS 480-372108/28
Matrix: Water
Analysis Batch: 372108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.69		mg/L		99	90 - 110

Lab Sample ID: LCS 480-372108/4
Matrix: Water
Analysis Batch: 372108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.06		mg/L		96	90 - 110

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372108

Client Sample ID: MW-27SMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	42.4		50.0	95.93		mg/L		107	75 - 125

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372108

Client Sample ID: MW-27SMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	42.4		50.0	95.61		mg/L		106	75 - 125	0	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-372649/1-A
Matrix: Water
Analysis Batch: 372905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/17/17 14:10	08/18/17 12:52	1

Lab Sample ID: LCS 480-372649/2-A
Matrix: Water
Analysis Batch: 372905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.268		mg/L		107	90 - 110

Method: 9040C - pH

Lab Sample ID: 480-122636-1 DU
Matrix: Water
Analysis Batch: 371894

Client Sample ID: MW-27S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.92	HF		6.950		SU				0.4	5
Temperature	22.0	HF		22.13		Degrees C				0.7	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-372079/3
Matrix: Water
Analysis Batch: 372079

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.0	0.53	mg/L			08/14/17 14:29	1

Lab Sample ID: LCS 480-372079/4
Matrix: Water
Analysis Batch: 372079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness as calcium carbonate			213	232.0		mg/L		109	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-371875/1
Matrix: Water
Analysis Batch: 371875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/12/17 11:53	1

Lab Sample ID: LCS 480-371875/2
Matrix: Water
Analysis Batch: 371875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			512	493.0		mg/L		96	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-371949/1
Matrix: Water
Analysis Batch: 371949

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/14/17 08:39	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 480-371949/2
Matrix: Water
Analysis Batch: 371949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	259	250.0		mg/L		97	88 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-371873/1
Matrix: Water
Analysis Batch: 371873

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/12/17 09:44	1

Lab Sample ID: LCS 480-371873/2
Matrix: Water
Analysis Batch: 371873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	159.1	*	mg/L		80	85 - 115

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 371873

Client Sample ID: MW-27SMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	2.0	b *	198	177.0		mg/L		88	51 - 143

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 371873

Client Sample ID: MW-27SMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	2.0	b *	198	162.3		mg/L		81	51 - 143	9	20

Lab Sample ID: USB 480-371874/1
Matrix: Water
Analysis Batch: 371874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/12/17 09:44	1

Lab Sample ID: LCS 480-371874/2
Matrix: Water
Analysis Batch: 371874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	184.7		mg/L		93	85 - 115

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 371874

Client Sample ID: MW-27SMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	ND		198	186.6		mg/L		94	51 - 143

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 371874

Client Sample ID: MW-27SMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	ND		198	186.0		mg/L		94	51 - 143	0	20

Lab Sample ID: USB 480-372990/1
Matrix: Water
Analysis Batch: 372990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/19/17 15:42	1

Lab Sample ID: LCS 480-372990/2
Matrix: Water
Analysis Batch: 372990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	187.1		mg/L		95	85 - 115

Method: SM 5210B - BOD, 5-Day - RA

Lab Sample ID: 480-122636-1 MS
Matrix: Water
Analysis Batch: 372990

Client Sample ID: MW-27SMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand - RA	ND	H	198	165.9	H	mg/L		84	51 - 143

Lab Sample ID: 480-122636-1 MSD
Matrix: Water
Analysis Batch: 372990

Client Sample ID: MW-27SMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand - RA	ND	H	198	186.9	H	mg/L		94	51 - 143	12	20

GC/MS VOA

Analysis Batch: 372232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	624	
MB 480-372232/8	Method Blank	Total/NA	Water	624	
LCS 480-372232/6	Lab Control Sample	Total/NA	Water	624	
480-122636-1 MS	MW-27SMS	Total/NA	Water	624	
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 372045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	625	
MB 480-372045/1-A	Method Blank	Total/NA	Water	625	
LCS 480-372045/2-A	Lab Control Sample	Total/NA	Water	625	
480-122636-1 MS	MW-27SMS	Total/NA	Water	625	
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	625	

Analysis Batch: 373121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	625	372045
MB 480-372045/1-A	Method Blank	Total/NA	Water	625	372045
LCS 480-372045/2-A	Lab Control Sample	Total/NA	Water	625	372045
480-122636-1 MS	MW-27SMS	Total/NA	Water	625	372045
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	625	372045

GC Semi VOA

Prep Batch: 372123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	3510C	
MB 480-372123/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372123/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-122636-1 MS	MW-27SMS	Total/NA	Water	3510C	
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	3510C	

Prep Batch: 372124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	3510C	
MB 480-372124/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372124/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-122636-1 MS	MW-27SMS	Total/NA	Water	3510C	
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	3510C	

Analysis Batch: 372186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	608	372124
MB 480-372124/1-A	Method Blank	Total/NA	Water	608	372124
LCS 480-372124/2-A	Lab Control Sample	Total/NA	Water	608	372124
480-122636-1 MS	MW-27SMS	Total/NA	Water	608	372124
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	608	372124

GC Semi VOA (Continued)

Analysis Batch: 372460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	608	372123
MB 480-372123/1-A	Method Blank	Total/NA	Water	608	372123
LCS 480-372123/2-A	Lab Control Sample	Total/NA	Water	608	372123
480-122636-1 MS	MW-27SMS	Total/NA	Water	608	372123
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	608	372123

Metals

Prep Batch: 371953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	7470A	
MB 480-371953/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-371953/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-122636-1 MS	MW-27S	Total/NA	Water	7470A	
480-122636-1 MSD	MW-27S	Total/NA	Water	7470A	

Filtration Batch: 371980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	FILTRATION	
MB 480-371980/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-371980/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
480-122636-1 MS	MW-27S	Dissolved	Water	FILTRATION	
480-122636-1 MSD	MW-27S	Dissolved	Water	FILTRATION	

Prep Batch: 372146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	3005A	
MB 480-372146/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-372146/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-122636-1 MS	MW-27S	Total/NA	Water	3005A	
480-122636-1 MSD	MW-27S	Total/NA	Water	3005A	

Analysis Batch: 372147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	7470A	371953
MB 480-371953/1-A	Method Blank	Total/NA	Water	7470A	371953
LCS 480-371953/2-A	Lab Control Sample	Total/NA	Water	7470A	371953
480-122636-1 MS	MW-27S	Total/NA	Water	7470A	371953
480-122636-1 MSD	MW-27S	Total/NA	Water	7470A	371953

Prep Batch: 372312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	3005A	371980
MB 480-371980/1-B	Method Blank	Dissolved	Water	3005A	371980
LCS 480-371980/2-B	Lab Control Sample	Dissolved	Water	3005A	371980
480-122636-1 MS	MW-27S	Dissolved	Water	3005A	371980
480-122636-1 MSD	MW-27S	Dissolved	Water	3005A	371980

Metals (Continued)

Prep Batch: 372398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	7470A	371980
MB 480-372398/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-372398/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-122636-1 MS	MW-27S	Dissolved	Water	7470A	371980
480-122636-1 MSD	MW-27S	Dissolved	Water	7470A	371980

Analysis Batch: 372474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	7470A	372398
MB 480-372398/1-A	Method Blank	Total/NA	Water	7470A	372398
LCS 480-372398/2-A	Lab Control Sample	Total/NA	Water	7470A	372398
480-122636-1 MS	MW-27S	Dissolved	Water	7470A	372398
480-122636-1 MSD	MW-27S	Dissolved	Water	7470A	372398

Analysis Batch: 372558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	6010C	372312
MB 480-371980/1-B	Method Blank	Dissolved	Water	6010C	372312
LCS 480-371980/2-B	Lab Control Sample	Dissolved	Water	6010C	372312
480-122636-1 MS	MW-27S	Dissolved	Water	6010C	372312
480-122636-1 MSD	MW-27S	Dissolved	Water	6010C	372312

Analysis Batch: 372572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	6010C	372146
MB 480-372146/1-A	Method Blank	Total/NA	Water	6010C	372146
LCS 480-372146/2-A	Lab Control Sample	Total/NA	Water	6010C	372146
480-122636-1 MS	MW-27S	Total/NA	Water	6010C	372146
480-122636-1 MSD	MW-27S	Total/NA	Water	6010C	372146

Analysis Batch: 372806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	6010C	372312
MB 480-371980/1-B	Method Blank	Dissolved	Water	6010C	372312
LCS 480-371980/2-B	Lab Control Sample	Dissolved	Water	6010C	372312
480-122636-1 MS	MW-27S	Dissolved	Water	6010C	372312
480-122636-1 MSD	MW-27S	Dissolved	Water	6010C	372312

General Chemistry

Analysis Batch: 371873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	SM 5210B	
USB 480-371873/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-371873/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122636-1 MS	MW-27SMS	Total/NA	Water	SM 5210B	
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	SM 5210B	

General Chemistry (Continued)

Analysis Batch: 371874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	SM 5210B	
USB 480-371874/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-371874/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122636-1 MS	MW-27SMS	Total/NA	Water	SM 5210B	
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	SM 5210B	

Analysis Batch: 371875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	SM 2540C	
MB 480-371875/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-371875/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 371894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	9040C	
LCS 480-371894/1	Lab Control Sample	Total/NA	Water	9040C	
480-122636-1 DU	MW-27S	Total/NA	Water	9040C	

Analysis Batch: 371949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	SM 2540D	
MB 480-371949/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-371949/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 372078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	351.2	
MB 480-372078/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-372078/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-122636-1 MS	MW-27SMS	Total/NA	Water	351.2	
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	351.2	

Analysis Batch: 372079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	SM 2340C	
MB 480-372079/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-372079/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Analysis Batch: 372108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	410.4	
MB 480-372108/27	Method Blank	Total/NA	Water	410.4	
MB 480-372108/3	Method Blank	Total/NA	Water	410.4	
LCS 480-372108/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-372108/4	Lab Control Sample	Total/NA	Water	410.4	
480-122636-1 MS	MW-27SMS	Total/NA	Water	410.4	
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	410.4	

Analysis Batch: 372177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	351.2	372078

General Chemistry (Continued)

Analysis Batch: 372177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-372078/1-A	Method Blank	Total/NA	Water	351.2	372078
LCS 480-372078/2-A	Lab Control Sample	Total/NA	Water	351.2	372078
480-122636-1 MS	MW-27SMS	Total/NA	Water	351.2	372078
480-122636-1 MSD	MW-27SMSD	Total/NA	Water	351.2	372078

Filtration Batch: 372648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	Filtration	

Prep Batch: 372649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	9012B	372648
480-122636-1	MW-27S	Total/NA	Water	9012B	
MB 480-372649/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-372649/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 372905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Dissolved	Water	9012B	372649
480-122636-1	MW-27S	Total/NA	Water	9012B	372649
MB 480-372649/1-A	Method Blank	Total/NA	Water	9012B	372649
LCS 480-372649/2-A	Lab Control Sample	Total/NA	Water	9012B	372649

Analysis Batch: 372990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1 - RA	MW-27S	Total/NA	Water	SM 5210B	
USB 480-372990/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372990/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122636-1 MS - RA	MW-27SMS	Total/NA	Water	SM 5210B	
480-122636-1 MSD - RA	MW-27SMSD	Total/NA	Water	SM 5210B	

Prep Batch: 373241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	1664B	
MB 480-373241/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-373241/2-A	Lab Control Sample	Total/NA	Water	1664B	
480-122636-1 MS	MW-27S	Total/NA	Water	1664B	

Analysis Batch: 373339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122636-1	MW-27S	Total/NA	Water	1664B	373241
MB 480-373241/1-A	Method Blank	Total/NA	Water	1664B	373241
LCS 480-373241/2-A	Lab Control Sample	Total/NA	Water	1664B	373241
480-122636-1 MS	MW-27S	Total/NA	Water	1664B	373241

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122636-1

Client Sample ID: MW-27S
Date Collected: 08/11/17 09:30
Date Received: 08/12/17 01:45

Lab Sample ID: 480-122636-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		4	372232	08/16/17 00:10	RJF	TAL BUF
Total/NA	Prep	625			372045	08/14/17 14:29	SMP	TAL BUF
Total/NA	Analysis	625		1	373121	08/22/17 07:59	PJQ	TAL BUF
Total/NA	Prep	3510C			372123	08/15/17 07:44	JMP	TAL BUF
Total/NA	Analysis	608		1	372460	08/16/17 12:05	MAN	TAL BUF
Total/NA	Prep	3510C			372124	08/15/17 07:48	JMP	TAL BUF
Total/NA	Analysis	608		1	372186	08/15/17 18:32	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			371980	08/14/17 10:53	EMB	TAL BUF
Dissolved	Prep	3005A			372312	08/16/17 09:30	EMB	TAL BUF
Dissolved	Analysis	6010C		1	372558	08/16/17 23:47	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			371980	08/14/17 10:53	EMB	TAL BUF
Dissolved	Prep	3005A			372312	08/16/17 09:30	EMB	TAL BUF
Dissolved	Analysis	6010C		1	372806	08/17/17 12:34	LMH	TAL BUF
Total/NA	Prep	3005A			372146	08/15/17 09:55	MJW	TAL BUF
Total/NA	Analysis	6010C		1	372572	08/16/17 19:33	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			371980	08/14/17 10:53	EMB	TAL BUF
Dissolved	Prep	7470A			372398	08/16/17 09:40	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	372474	08/16/17 13:02	MVZ	TAL BUF
Total/NA	Prep	7470A			371953	08/14/17 10:00	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372147	08/14/17 14:24	MVZ	TAL BUF
Total/NA	Prep	1664B			373241	08/22/17 08:32	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373339	08/22/17 08:32	DSC	TAL BUF
Total/NA	Prep	351.2			372078	08/14/17 16:25	DCB	TAL BUF
Total/NA	Analysis	351.2		1	372177	08/15/17 08:51	CLT	TAL BUF
Total/NA	Analysis	410.4		1	372108	08/14/17 19:02	CDC	TAL BUF
Dissolved	Filtration	Filtration			372648	08/17/17 14:08	JCL	TAL BUF
Dissolved	Prep	9012B			372649	08/17/17 14:10	JCL	TAL BUF
Dissolved	Analysis	9012B		1	372905	08/18/17 12:58	KRT	TAL BUF
Total/NA	Prep	9012B			372649	08/17/17 14:10	JCL	TAL BUF
Total/NA	Analysis	9012B		1	372905	08/18/17 12:57	KRT	TAL BUF
Total/NA	Analysis	9040C		1	371894	08/13/17 09:30	DSC	TAL BUF
Total/NA	Analysis	SM 2340C		1	372079	08/14/17 14:29	ALZ	TAL BUF
Total/NA	Analysis	SM 2540C		1	371875	08/12/17 11:53	CDC	TAL BUF
Total/NA	Analysis	SM 2540D		1	371949	08/14/17 08:39	EKB	TAL BUF
Total/NA	Analysis	SM 5210B		1	371873	08/12/17 09:44	JCL	TAL BUF
Total/NA	Analysis	SM 5210B		1	371874	08/12/17 09:44	JCL	TAL BUF
Total/NA	Analysis	SM 5210B	RA	1	372990	08/19/17 15:42	JCL	TAL BUF

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122636-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,2-Diphenylhydrazine
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
9040C		Water	pH
9040C		Water	Temperature

Laboratory: EMLab P&K - Houston TCEQ Cert T104704489

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
AIHA-LAP, LLC	EMLAP		193549	01-01-18
Texas	NELAP	6	T104704489-17-10	07-31-18

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122636-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
Local Method	General Sub Contract Method	NONE	EMLab Hou

Protocol References:

1664B = 1664B

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122636-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-122636-1	MW-27S	Water	08/11/17 09:30	08/12/17 01:45

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Dayo
Re: 480-122636

Date of Sampling: 08/11/2017
Date of Receipt: 08/15/2017
Date of Report: 08/17/2017

Iron Bacteria Presence/Absence Report

Location:	MW-27S (480-122636-1)
Comments (see below)	A
Lab ID-Version‡:	8303402-1
Sample Type	Water
Iron Bacteria	**Absent**

Comments: A) Iron bacteria method: SM chapter 9240B., 20th edition.

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122636

Date of Sampling: 08-11-2017
Date of Receipt: 08-15-2017
Date of Report: 08-31-2017

Slime Forming Bacteria Presence/Absence Report

Location:	MW-27S (480-122636-1)
Comments (see below)	None
Lab ID-Version‡:	8303403-1
Sample Type	Water
Slime Forming Bacteria	**Absent**

Comments:

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
A TestAmerica Company

Report for:

Melissa Deyo
TestAmerica-Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Regarding: Project: 480-122636
EML ID: 1776779

Approved by:



Technical Manager
Magzoub Ismail

Dates of Analysis:
MPN-Sulfate reducing bacteria: 09-12-2017

Service SOPs: MPN-Sulfate reducing bacteria (EM-BT-S-1059)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122636

Date of Sampling: 08-11-2017
Date of Receipt: 08-15-2017
Date of Report: 09-12-2017

MPN REPORT

Location: MW-27S (480-122636-1) Lab ID-Version‡: 8303408-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	**Method**	**Setup Time**	**MPN*/Unit**	**LCL****	**UCL****
Sulfate-reducing Bacteria	SM 9240 D	08/16/17 16:00	490	100	2,400

Comments:

*MPN - Most Probable Number.
MPN methods:
SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.
FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.
MPN values are calculated using the method of Thomas (1942).
The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, non-clustered, bacteria not attached to particulate matter within a sample. Due to the fact that bacteria can cluster and adhere to materials, values determined by the MPN method should be considered estimates in many instances.
**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM).
Interpretation is left to the company and/or persons who conducted the field work.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmericc

480-122636 COC

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	COC No: 480-100780-23982.3
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com	Page: Page 3 of 3
Company: ARCADIS U.S. Inc			Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:		
City: Clifton Park	TAT Requested (days): Standard		
State, Zip: NY, 12065			
Phone: (518) 250-7300	PO #: B0036648.1401.00006		
Email: Aubrey.Thomas@arcadis.com	WO #:		
Project Name: National Grid - North Albany Project	Project #: 48016528		
Site: National Grid - North Albany	SSOW#:		

Analysis Requeste

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624_5ml - Priority Pollutant List - VOCs	608_Pest - Priority Pollutant Pesticides	625 - Priority Pollutant List - SVOCs	608_PCB - Priority Pollutant PCBs	9012_ReactiveCN, 9034_Reactive	9040C - pH	1010A - Ignitability	6010C, 7470A	6010C, 7470A	9012B - Cyanide	9012B - Dissolved Cyanide	1664B - O&G	2540D - TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	N	N	D	N	B	N	S	N		
MW-27S	8/11/17	0930	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
MS	8/11/17	0936	G	Water	N	N	3	2	2	2											
MSD	8/11/17	0930	G	Water	N	N	3	2	2	2											
				Water																	
				Water																	
				Water																	
							AJT														
							8/11/17														

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Aubrey Thomas	Date/Time: 8/11/17 1530	Company: Arcadis	Received by: [signature]
Relinquished by: [signature]	Date/Time: 8-11-17 1800	Company: TA	Received by: [signature]
Relinquished by:	Date/Time:	Company:	Received by:

Received by: [signature]	Date/Time: 8-11-17 1530	Company: TA	
Received by: [signature]	Date/Time: 8-12-17 0145	Company: TAL	
Received by:	Date/Time:	Company:	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.5, 0.6, 0.7, 0.8, 0.2, 0.1 #1

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-100780-23982.4
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 4 of 3
Company: ARCADIS U.S. Inc				Job #:

Address: 855 Route 146 Suite 210	Due Date Requested:	
City: Clifton Park	TAT Requested (days): Standard	
State, Zip: NY, 12065		
Phone: (518) 250-7300	PO #: B0036648.1401.00006	
Email: Aubrey.Thomas@arcadis.com	WO #:	
Project Name: National Grid - North Albany Project	Project #: 48016528	
Site: National Grid - North Albany	SSOW#:	

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	6210B - BOD	361.2, 410.4	2340C - Hardness	SUBCONTRACT - Iron reducing bacteria	SUBCONTRACT - Slime forming bacteria	SUBCONTRACT - Sulfate reduing bacteria	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	D	N	N	N		
MW-27S	8/11/17	0936	G	Water	N	N	1	1	1	1	1	1	1		
MS	8/11/17	0930	G	Water	N	N		1	1						
MSD	8/11/17	0930	G	Water	N	N		1	1						
				Water											
				Water											
				Water											

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

8-11-17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Aubrey Thomas	8/11/17 1530	Arcadis	[illegible]	8-11-17 1530	TA
2	[illegible]	8-11-17 1800	TA	[illegible]	8-12-17 0145	TAD
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

0.5, 0.6, 0.7, 0.8, 0.2, 0.1 #1

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9/12/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Temp: 12.5°C

Chain of Custody Record

TestAmerica
THE LEADER in ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-36616.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: EMLab P&K		Accreditations Required (See note): NELAP - New York		Job #: 480-122636-1
Address: Subcont.report available upon request, 6310 Rothway,	Due Date Requested: 8/23/2017			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77040				
Phone:	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

001776779

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sediment, Drinking Water, Air, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (BioActivity - Iron-Reducing Bacteria)	SUB (BioActivity - Slime-Forming Bacteria)	SUB (BioActivity - Sulfate-Reducing Bacteria)	Total Number of Containers	Special Instructions/Note:
			Preservation Code:								
MW-27S (480-122636-1)	8/11/17	09:30 Eastern		Water			X	X	X		

I - Ice
J - DI Water
K - EDTA
L - EDA
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/14/17 1300	Company: EMLab P&K	Received by:	Date/Time: 08/15/17 10:05	Company: EMLab P&K
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-122636-1

Login Number: 122636

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-122690-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/19/2017 2:33:10 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-122690-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-122690-1

Receipt
The samples were received on 8/15/2017 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 0.2º C, 0.3º C, 0.4º C, 0.6º C, 0.7º C, 0.8º C and 0.9º C.

Receipt Exceptions

Buffalo received one broken 1 L Amber from sample point MSD: MW-27DMSD (480-122690-1[MSD]).

GC/MS VOA
Method(s) 624: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: MW-27D (480-122690-1), MW-27DMS (480-122690-1[MS]) and MW-27DMSD (480-122690-1[MSD]). The requested target analyte list contains 2-chloroethyl vinyl ether, which is an acid-labile compound that degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625: The following samples were diluted due to color and appearance: MW-27D (480-122690-1), MW-27DMS (480-122690-1[MS]) and MW-27DMSD (480-122690-1[MSD]). Elevated reporting limits (RL) are provided.

Method(s) 625: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-372461 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 608: Surrogate recovery for the following samples was outside control limits: MW-27DMS (480-122690-1[MS]) and MW-27DMSD (480-122690-1[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 608: All primary data for analytical batch 373562 is reported from the ZB-35 column.

Method(s) 608: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 608: For method 608 Pest, the recovery of the one surrogate in samples MW-27D (480-122690-1) and MW-27DMS (480-122690-1[MS]) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

Method(s) 608: All primary data for analytical batch 372582 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-372573/28) associated with batch 480-372573, contained Total Manganese above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-27D (480-122690-1), MW-27DMS (480-122690-1[MS]), MW-27DMSD (480-122690-1[MSD]), (LCS 480-372314/2-A), (480-122690-N-1-B PDS) and (480-122690-N-1-B SD) was not performed.

Method(s) 6010C: The post digestion spike % recovery for Total Iron associated with batch 480-372573 was outside of control limits. The

Job ID: 480-122690-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

serial dilution was compliant, therefore data was accepted.

Method(s) 6010C: The Dissolved Zinc results reported for the following sample was greater than the Total Zinc results: MW-27D (480-122690-1). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-27D (480-122690-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) SM 5210B: The RPD between the lowest and highest results used in averaging the final result was >30%: MW-27D (480-122690-1).

Method(s) SM 5210B: The RPD between the lowest and highest results used in averaging the final result was >30%: MW-27D (480-122690-1).

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-27D (480-122690-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-27D (480-122690-1), MW-27DMS (480-122690-1[MS]) and MW-27DMSD (480-122690-1[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122690-1

Client Sample ID: MW-27D — Lab Sample ID: 480-122690-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	27		5.0	0.60	ug/L	1		624	Total/NA
Ethylbenzene	11		5.0	0.46	ug/L	1		624	Total/NA
Toluene	0.49	J	5.0	0.45	ug/L	1		624	Total/NA
Acenaphthene	180		24	3.9	ug/L	5		625	Total/NA
Anthracene	12	J	24	6.7	ug/L	5		625	Total/NA
Fluoranthene	10	J	24	7.6	ug/L	5		625	Total/NA
Fluorene	51		24	4.8	ug/L	5		625	Total/NA
Naphthalene	51		24	4.1	ug/L	5		625	Total/NA
Phenanthrene	77	F1	24	5.7	ug/L	5		625	Total/NA
Pyrene	13	J	24	6.7	ug/L	5		625	Total/NA
Aldrin	0.012	J	0.048	0.0077	ug/L	1		608	Total/NA
gamma-BHC (Lindane)	0.050	B	0.048	0.0076	ug/L	1		608	Total/NA
4,4'-DDE	0.042	J	0.048	0.011	ug/L	1		608	Total/NA
4,4'-DDT	0.039	J	0.048	0.010	ug/L	1		608	Total/NA
Endosulfan sulfate	0.019	J	0.048	0.015	ug/L	1		608	Total/NA
Arsenic	0.023		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.91		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	273		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	83.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	45.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	13.3	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	19.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	696		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0027	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Arsenic	0.0064	J	0.015	0.0056	mg/L	1		6010C	Dissolved
Barium	0.62	F1	0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	260		0.50	0.10	mg/L	1		6010C	Dissolved
Iron	20.3	F1 F2	0.050	0.019	mg/L	1		6010C	Dissolved
Lead	0.0034	J	0.010	0.0030	mg/L	1		6010C	Dissolved
Magnesium	46.5		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	12.8		0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	19.9	B	0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	695		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.014	B	0.010	0.0015	mg/L	1		6010C	Dissolved
Oil & Grease	1.8	J	5.5	1.5	mg/L	1		1664B	Total/NA
Total Kjeldahl Nitrogen	3.7	F1	0.20	0.15	mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	46.2		10.0	5.0	mg/L	1		410.4	Total/NA
Cyanide, Total	0.14		0.010	0.0050	mg/L	1		9012B	Total/NA
Hardness as calcium carbonate	1520		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	3370		40.0	16.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	9.9		3.0	3.0	mg/L	1		SM 5210B	Total/NA
Carbonaceous Biochemical Oxygen Demand	9.3		2.0	2.0	mg/L	1		SM 5210B	Total/NA
Cyanide, Total	0.17	F1	0.010	0.0050	mg/L	1		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.90	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	22.6	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Suspended Solids	54.4		4.0	4.0	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-27D

Date Collected: 08/14/17 09:35
Date Received: 08/15/17 01:30

Lab Sample ID: 480-122690-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/16/17 17:36	1
Acrylonitrile	ND		50	1.9	ug/L			08/16/17 17:36	1
Benzene	**27**		5.0	0.60	ug/L			08/16/17 17:36	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/16/17 17:36	1
Bromoform	ND		5.0	0.47	ug/L			08/16/17 17:36	1
Bromomethane	ND		5.0	1.2	ug/L			08/16/17 17:36	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/16/17 17:36	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/16/17 17:36	1
Chloroethane	ND		5.0	0.87	ug/L			08/16/17 17:36	1
2-Chloroethyl vinyl ether	ND	F1	25	1.9	ug/L			08/16/17 17:36	1
Chloroform	ND		5.0	0.54	ug/L			08/16/17 17:36	1
Chloromethane	ND		5.0	0.64	ug/L			08/16/17 17:36	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/16/17 17:36	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/16/17 17:36	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/16/17 17:36	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/16/17 17:36	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/16/17 17:36	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/16/17 17:36	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/16/17 17:36	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/16/17 17:36	1
Ethylbenzene	**11**		5.0	0.46	ug/L			08/16/17 17:36	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/16/17 17:36	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/16/17 17:36	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/16/17 17:36	1
Toluene	**0.49**	**J**	5.0	0.45	ug/L			08/16/17 17:36	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/16/17 17:36	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/16/17 17:36	1
Trichloroethene	ND		5.0	0.60	ug/L			08/16/17 17:36	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/16/17 17:36	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/16/17 17:36	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/16/17 17:36	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/16/17 17:36	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/16/17 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*08/16/17 17:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*08/16/17 17:36*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/16/17 17:36*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*08/16/17 17:36*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**180**		24	3.9	ug/L		08/16/17 14:31	08/27/17 19:30	5
Acenaphthylene	ND		24	4.1	ug/L		08/16/17 14:31	08/27/17 19:30	5
Anthracene	**12**	**J**	24	6.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
Benzidine	ND		380	170	ug/L		08/16/17 14:31	08/27/17 19:30	5
Benzo[a]anthracene	ND		24	5.2	ug/L		08/16/17 14:31	08/27/17 19:30	5
Benzo[a]pyrene	ND		24	6.2	ug/L		08/16/17 14:31	08/27/17 19:30	5
Benzo[b]fluoranthene	ND		24	5.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
Benzo[g,h,i]perylene	ND		24	7.1	ug/L		08/16/17 14:31	08/27/17 19:30	5

Client Sample ID: MW-27D
Date Collected: 08/14/17 09:35
Date Received: 08/15/17 01:30

Lab Sample ID: 480-122690-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		24	6.2	ug/L		08/16/17 14:31	08/27/17 19:30	5
Bis(2-chloroethyl)ether	ND		24	4.4	ug/L		08/16/17 14:31	08/27/17 19:30	5
Bis(2-chloroethoxy)methane	ND		24	3.6	ug/L		08/16/17 14:31	08/27/17 19:30	5
bis (2-chloroisopropyl) ether	ND		24	4.0	ug/L		08/16/17 14:31	08/27/17 19:30	5
Bis(2-ethylhexyl) phthalate	ND		48	5.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
4-Bromophenyl phenyl ether	ND		24	6.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
Butyl benzyl phthalate	ND		24	5.2	ug/L		08/16/17 14:31	08/27/17 19:30	5
2-Chloronaphthalene	ND		24	4.3	ug/L		08/16/17 14:31	08/27/17 19:30	5
4-Chlorophenyl phenyl ether	ND		24	6.2	ug/L		08/16/17 14:31	08/27/17 19:30	5
Chrysene	ND		24	4.8	ug/L		08/16/17 14:31	08/27/17 19:30	5
Dibenz(a,h)anthracene	ND		24	7.1	ug/L		08/16/17 14:31	08/27/17 19:30	5
Di-n-butyl phthalate	ND		24	7.6	ug/L		08/16/17 14:31	08/27/17 19:30	5
1,2-Dichlorobenzene	ND	F1	48	24	ug/L		08/16/17 14:31	08/27/17 19:30	5
1,3-Dichlorobenzene	ND		48	3.3	ug/L		08/16/17 14:31	08/27/17 19:30	5
1,4-Dichlorobenzene	ND	F1	48	27	ug/L		08/16/17 14:31	08/27/17 19:30	5
3,3'-Dichlorobenzidine	ND		24	3.9	ug/L		08/16/17 14:31	08/27/17 19:30	5
Diethyl phthalate	ND		24	4.8	ug/L		08/16/17 14:31	08/27/17 19:30	5
Dimethyl phthalate	ND		24	4.3	ug/L		08/16/17 14:31	08/27/17 19:30	5
2,4-Dinitrotoluene	ND		48	24	ug/L		08/16/17 14:31	08/27/17 19:30	5
2,6-Dinitrotoluene	ND		24	4.8	ug/L		08/16/17 14:31	08/27/17 19:30	5
Di-n-octyl phthalate	ND		24	5.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
1,2-Diphenylhydrazine	ND		48	3.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
Fluoranthene	**10**	**J**	24	7.6	ug/L		08/16/17 14:31	08/27/17 19:30	5
Fluorene	**51**		24	4.8	ug/L		08/16/17 14:31	08/27/17 19:30	5
Hexachlorobenzene	ND		24	4.8	ug/L		08/16/17 14:31	08/27/17 19:30	5
Hexachlorobutadiene	ND		24	4.8	ug/L		08/16/17 14:31	08/27/17 19:30	5
Hexachlorocyclopentadiene	ND	F1	48	24	ug/L		08/16/17 14:31	08/27/17 19:30	5
Hexachloroethane	ND	F1	24	2.9	ug/L		08/16/17 14:31	08/27/17 19:30	5
Indeno[1,2,3-cd]pyrene	ND		24	7.1	ug/L		08/16/17 14:31	08/27/17 19:30	5
Isophorone	ND		24	3.5	ug/L		08/16/17 14:31	08/27/17 19:30	5
Naphthalene	**51**		24	4.1	ug/L		08/16/17 14:31	08/27/17 19:30	5
Nitrobenzene	ND		24	3.9	ug/L		08/16/17 14:31	08/27/17 19:30	5
N-Nitrosodi-n-propylamine	ND		24	4.2	ug/L		08/16/17 14:31	08/27/17 19:30	5
N-Nitrosodimethylamine	ND	F1	48	24	ug/L		08/16/17 14:31	08/27/17 19:30	5
N-Nitrosodiphenylamine	ND		24	1.9	ug/L		08/16/17 14:31	08/27/17 19:30	5
Phenanthrene	**77**	**F1**	24	5.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
Pyrene	**13**	**J**	24	6.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
1,2,4-Trichlorobenzene	ND		48	3.9	ug/L		08/16/17 14:31	08/27/17 19:30	5
4-Chloro-3-methylphenol	ND		24	5.2	ug/L		08/16/17 14:31	08/27/17 19:30	5
2-Chlorophenol	ND		24	3.1	ug/L		08/16/17 14:31	08/27/17 19:30	5
2,4-Dichlorophenol	ND		24	3.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
2,4-Dimethylphenol	ND		24	6.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
2,4-Dinitrophenol	ND		48	24	ug/L		08/16/17 14:31	08/27/17 19:30	5
4,6-Dinitro-2-methylphenol	ND		48	3.1	ug/L		08/16/17 14:31	08/27/17 19:30	5
2-Nitrophenol	ND		24	3.3	ug/L		08/16/17 14:31	08/27/17 19:30	5
4-Nitrophenol	ND		71	48	ug/L		08/16/17 14:31	08/27/17 19:30	5
Pentachlorophenol	ND		48	7.6	ug/L		08/16/17 14:31	08/27/17 19:30	5
Phenol	ND		24	1.7	ug/L		08/16/17 14:31	08/27/17 19:30	5
2,4,6-Trichlorophenol	ND		24	4.8	ug/L		08/16/17 14:31	08/27/17 19:30	5

Client Sample ID: MW-27D

Date Collected: 08/14/17 09:35
Date Received: 08/15/17 01:30

Lab Sample ID: 480-122690-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	122		52 - 151	08/16/17 14:31	08/27/17 19:30	5
2-Fluorobiphenyl	74		44 - 120	08/16/17 14:31	08/27/17 19:30	5
2-Fluorophenol	35		17 - 120	08/16/17 14:31	08/27/17 19:30	5
Nitrobenzene-d5	74		42 - 120	08/16/17 14:31	08/27/17 19:30	5
Phenol-d5	28		10 - 120	08/16/17 14:31	08/27/17 19:30	5
p-Terphenyl-d14	61		22 - 125	08/16/17 14:31	08/27/17 19:30	5

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	**0.012**	**J**	0.048	0.0077	ug/L		08/16/17 14:17	08/17/17 12:14	1
alpha-BHC	ND		0.048	0.0073	ug/L		08/16/17 14:17	08/17/17 12:14	1
beta-BHC	ND		0.048	0.024	ug/L		08/16/17 14:17	08/17/17 12:14	1
delta-BHC	ND		0.048	0.0095	ug/L		08/16/17 14:17	08/17/17 12:14	1
gamma-BHC (Lindane)	**0.050**	**B**	0.048	0.0076	ug/L		08/16/17 14:17	08/17/17 12:14	1
Chlordane (technical)	ND		0.48	0.28	ug/L		08/16/17 14:17	08/17/17 12:14	1
4,4'-DDD	ND		0.048	0.0088	ug/L		08/16/17 14:17	08/17/17 12:14	1
4,4'-DDE	**0.042**	**J**	0.048	0.011	ug/L		08/16/17 14:17	08/17/17 12:14	1
4,4'-DDT	**0.039**	**J**	0.048	0.010	ug/L		08/16/17 14:17	08/17/17 12:14	1
Dieldrin	ND		0.048	0.0093	ug/L		08/16/17 14:17	08/17/17 12:14	1
Endosulfan I	ND		0.048	0.010	ug/L		08/16/17 14:17	08/17/17 12:14	1
Endosulfan II	ND		0.048	0.011	ug/L		08/16/17 14:17	08/17/17 12:14	1
Endosulfan sulfate	**0.019**	**J**	0.048	0.015	ug/L		08/16/17 14:17	08/17/17 12:14	1
Endrin	ND		0.048	0.013	ug/L		08/16/17 14:17	08/17/17 12:14	1
Endrin aldehyde	ND		0.048	0.016	ug/L		08/16/17 14:17	08/17/17 12:14	1
Heptachlor	ND		0.048	0.0081	ug/L		08/16/17 14:17	08/17/17 12:14	1
Heptachlor epoxide	ND		0.048	0.0070	ug/L		08/16/17 14:17	08/17/17 12:14	1
Toxaphene	ND		0.48	0.11	ug/L		08/16/17 14:17	08/17/17 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		23 - 120	08/16/17 14:17	08/17/17 12:14	1
DCB Decachlorobiphenyl	65		23 - 120	08/16/17 14:17	08/17/17 12:14	1
Tetrachloro-m-xylene	128	X	44 - 120	08/16/17 14:17	08/17/17 12:14	1
Tetrachloro-m-xylene	76		44 - 120	08/16/17 14:17	08/17/17 12:14	1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 15:46	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 15:46	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 15:46	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 15:46	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 15:46	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 15:46	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		36 - 121	08/18/17 07:29	08/23/17 15:46	1
DCB Decachlorobiphenyl	79		36 - 121	08/18/17 07:29	08/23/17 15:46	1
Tetrachloro-m-xylene	118		42 - 135	08/18/17 07:29	08/23/17 15:46	1
Tetrachloro-m-xylene	81		42 - 135	08/18/17 07:29	08/23/17 15:46	1

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122690-1

Client Sample ID: MW-27D
Date Collected: 08/14/17 09:35
Date Received: 08/15/17 01:30

Lab Sample ID: 480-122690-1
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/16/17 08:10	08/16/17 21:44	1
Antimony	ND		0.020	0.0068	mg/L		08/16/17 08:10	08/16/17 21:44	1
Arsenic	**0.023**		0.015	0.0056	mg/L		08/16/17 08:10	08/16/17 21:44	1
Barium	**0.91**		0.0020	0.00070	mg/L		08/16/17 08:10	08/16/17 21:44	1
Beryllium	ND		0.0020	0.00030	mg/L		08/16/17 08:10	08/16/17 21:44	1
Cadmium	ND		0.0020	0.00050	mg/L		08/16/17 08:10	08/16/17 21:44	1
Calcium	**273**		0.50	0.10	mg/L		08/16/17 08:10	08/16/17 21:44	1
Chromium	ND		0.0040	0.0010	mg/L		08/16/17 08:10	08/16/17 21:44	1
Cobalt	ND		0.0040	0.00063	mg/L		08/16/17 08:10	08/16/17 21:44	1
Copper	ND		0.010	0.0016	mg/L		08/16/17 08:10	08/16/17 21:44	1
Iron	**83.0**		0.050	0.019	mg/L		08/16/17 08:10	08/16/17 21:44	1
Lead	ND		0.010	0.0030	mg/L		08/16/17 08:10	08/16/17 21:44	1
Magnesium	**45.9**		0.20	0.043	mg/L		08/16/17 08:10	08/16/17 21:44	1
Manganese	**13.3**	**B**	0.0030	0.00040	mg/L		08/16/17 08:10	08/16/17 21:44	1
Nickel	ND		0.010	0.0013	mg/L		08/16/17 08:10	08/16/17 21:44	1
Potassium	**19.5**		0.50	0.10	mg/L		08/16/17 08:10	08/16/17 21:44	1
Selenium	ND		0.025	0.0087	mg/L		08/16/17 08:10	08/16/17 21:44	1
Silver	ND		0.0060	0.0017	mg/L		08/16/17 08:10	08/16/17 21:44	1
Sodium	**696**		1.0	0.32	mg/L		08/16/17 08:10	08/16/17 21:44	1
Thallium	ND		0.020	0.010	mg/L		08/16/17 08:10	08/16/17 21:44	1
Vanadium	ND		0.0050	0.0015	mg/L		08/16/17 08:10	08/16/17 21:44	1
Zinc	**0.0027**	**J**	0.010	0.0015	mg/L		08/16/17 08:10	08/16/17 21:44	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 09:47	08/17/17 19:25	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 09:47	08/17/17 19:25	1
Arsenic	**0.0064**	**J**	0.015	0.0056	mg/L		08/17/17 09:47	08/17/17 19:25	1
Barium	**0.62**	**F1**	0.0020	0.00070	mg/L		08/17/17 09:47	08/17/17 19:25	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 09:47	08/17/17 19:25	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 09:47	08/17/17 19:25	1
Calcium	**260**		0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:25	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 09:47	08/17/17 19:25	1
Cobalt	ND		0.0040	0.00063	mg/L		08/17/17 09:47	08/17/17 19:25	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 09:47	08/17/17 19:25	1
Iron	**20.3**	**F1 F2**	0.050	0.019	mg/L		08/17/17 09:47	08/17/17 19:25	1
Lead	**0.0034**	**J**	0.010	0.0030	mg/L		08/17/17 09:47	08/17/17 19:25	1
Magnesium	**46.5**		0.20	0.043	mg/L		08/17/17 09:47	08/17/17 19:25	1
Manganese	**12.8**		0.0030	0.00040	mg/L		08/17/17 09:47	08/17/17 19:25	1
Nickel	ND		0.010	0.0013	mg/L		08/17/17 09:47	08/17/17 19:25	1
Potassium	**19.9**	**B**	0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:25	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 09:47	08/17/17 19:25	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 09:47	08/17/17 19:25	1
Sodium	**695**		1.0	0.32	mg/L		08/17/17 09:47	08/17/17 19:25	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 09:47	08/17/17 19:25	1
Vanadium	ND		0.0050	0.0015	mg/L		08/17/17 09:47	08/17/17 19:25	1
Zinc	**0.014**	**B**	0.010	0.0015	mg/L		08/17/17 09:47	08/17/17 19:25	1

Client Sample ID: MW-27D

Date Collected: 08/14/17 09:35
Date Received: 08/15/17 01:30

Lab Sample ID: 480-122690-1

Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/15/17 08:27	08/15/17 14:18	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/17/17 10:00	08/17/17 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	**1.8**	**J**	5.5	1.5	mg/L		08/23/17 09:23	08/23/17 09:23	1
SGT-HEM	ND		5.5	2.1	mg/L		08/23/17 09:23	08/23/17 09:23	1
Total Kjeldahl Nitrogen	**3.7**	**F1**	0.20	0.15	mg/L		08/16/17 08:12	08/17/17 08:46	1
Chemical Oxygen Demand	**46.2**		10.0	5.0	mg/L			08/15/17 19:03	1
Cyanide, Total	**0.14**		0.010	0.0050	mg/L		08/17/17 14:10	08/18/17 13:15	1
Hardness as calcium carbonate	**1520**		10.0	2.6	mg/L			08/25/17 05:20	1
Total Dissolved Solids	**3370**		40.0	16.0	mg/L			08/15/17 05:47	1
Biochemical Oxygen Demand	**9.9**		3.0	3.0	mg/L			08/15/17 14:43	1
Carbonaceous Biochemical Oxygen Demand	**9.3**		2.0	2.0	mg/L			08/15/17 14:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.90**	**HF**	0.100	0.100	SU			08/15/17 13:05	1
Temperature	**22.6**	**HF**	0.00100	0.00100	Degrees C			08/15/17 13:05	1
Total Suspended Solids	**54.4**		4.0	4.0	mg/L			08/15/17 23:17	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.17**	**F1**	0.010	0.0050	mg/L		08/18/17 09:41	08/19/17 09:27	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122690-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-122690-1	MW-27D	101	96	100	98
480-122690-1 MS	MW-27DMS	97	96	100	97
480-122690-1 MSD	MW-27DMSD	93	93	101	94
LCS 480-372429/5	Lab Control Sample	98	94	101	98
MB 480-372429/7	Method Blank	99	96	100	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(42-120)	(10-120)	(22-125)
480-122690-1	MW-27D	122	74	35	74	28	61
480-122690-1 MS	MW-27DMS	107	75	37	72	32	53
480-122690-1 MSD	MW-27DMSD	127	82	45	82	33	57
LCS 480-372461/2-A	Lab Control Sample	91	80	49	74	37	90
MB 480-372461/1-A	Method Blank	70	75	42	82	35	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(23-120)	(23-120)	(44-120)	(44-120)
480-122690-1	MW-27D	84	65	128 X	76
480-122690-1 MS	MW-27DMS	63	51	128 X	78
480-122690-1 MSD	MW-27DMSD	69	55	119	83
LCS 480-372457/2-A	Lab Control Sample	75	62	98	70
MB 480-372457/1-A	Method Blank	61	66	82	60

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122690-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(36-121)	(36-121)	(42-135)	(42-135)
480-122690-1	MW-27D	83	79	118	81
480-122690-1 MS	MW-27DMS	24 X	29 X	135	84
480-122690-1 MSD	MW-27DMSD	43	30 X	147 X	88
LCS 480-372759/2-A	Lab Control Sample	55	50	108	85
MB 480-372759/1-A	Method Blank	68	60	114	99

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-372429/7
Matrix: Water
Analysis Batch: 372429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/16/17 16:13	1
Acrylonitrile	ND		50	1.9	ug/L			08/16/17 16:13	1
Benzene	ND		5.0	0.60	ug/L			08/16/17 16:13	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/16/17 16:13	1
Bromoform	ND		5.0	0.47	ug/L			08/16/17 16:13	1
Bromomethane	ND		5.0	1.2	ug/L			08/16/17 16:13	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/16/17 16:13	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/16/17 16:13	1
Chloroethane	ND		5.0	0.87	ug/L			08/16/17 16:13	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/16/17 16:13	1
Chloroform	ND		5.0	0.54	ug/L			08/16/17 16:13	1
Chloromethane	ND		5.0	0.64	ug/L			08/16/17 16:13	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/16/17 16:13	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/16/17 16:13	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/16/17 16:13	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/16/17 16:13	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/16/17 16:13	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/16/17 16:13	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/16/17 16:13	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/16/17 16:13	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/16/17 16:13	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/16/17 16:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/16/17 16:13	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/16/17 16:13	1
Toluene	ND		5.0	0.45	ug/L			08/16/17 16:13	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/16/17 16:13	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/16/17 16:13	1
Trichloroethene	ND		5.0	0.60	ug/L			08/16/17 16:13	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/16/17 16:13	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/16/17 16:13	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/16/17 16:13	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/16/17 16:13	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/16/17 16:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*		*08/16/17 16:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*08/16/17 16:13*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/16/17 16:13*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/16/17 16:13*	*1*

Lab Sample ID: LCS 480-372429/5
Matrix: Water
Analysis Batch: 372429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.4		ug/L		97	37 - 151
Dichlorobromomethane	20.0	19.6		ug/L		98	35 - 155
Bromoform	20.0	20.3		ug/L		101	45 - 169

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372429/5
Matrix: Water
Analysis Batch: 372429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	21.0		ug/L		105	1 - 242
Carbon tetrachloride	20.0	18.3		ug/L		91	70 - 140
Chlorobenzene	20.0	20.2		ug/L		101	37 - 160
Chloroethane	20.0	20.4		ug/L		102	14 - 230
2-Chloroethyl vinyl ether	20.0	18.6	J	ug/L		93	1 - 305
Chloroform	20.0	19.0		ug/L		95	51 - 138
Chloromethane	20.0	17.4		ug/L		87	1 - 273
Chlorodibromomethane	20.0	20.8		ug/L		104	53 - 149
1,1-Dichloroethane	20.0	17.8		ug/L		89	59 - 155
1,2-Dichloroethane	20.0	18.6		ug/L		93	49 - 155
1,1-Dichloroethene	20.0	17.1		ug/L		85	1 - 234
trans-1,2-Dichloroethene	20.0	18.8		ug/L		94	54 - 156
1,2-Dichloropropane	20.0	19.5		ug/L		98	1 - 210
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	1 - 227
trans-1,3-Dichloropropene	20.0	20.5		ug/L		102	17 - 183
Ethylbenzene	20.0	19.4		ug/L		97	37 - 162
Methylene Chloride	20.0	19.6		ug/L		98	1 - 221
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	46 - 157
Tetrachloroethene	20.0	20.0		ug/L		100	64 - 148
Toluene	20.0	18.7		ug/L		94	47 - 150
1,1,1-Trichloroethane	20.0	18.8		ug/L		94	52 - 162
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	52 - 150
Trichloroethene	20.0	19.5		ug/L		98	71 - 157
Vinyl chloride	20.0	20.2		ug/L		101	1 - 251
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	59 - 156
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372429

Client Sample ID: MW-27DMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	27		20.0	46.9		ug/L		99	37 - 151
Dichlorobromomethane	ND		20.0	21.7		ug/L		108	35 - 155
Bromoform	ND		20.0	20.4		ug/L		102	45 - 169
Bromomethane	ND		20.0	24.6		ug/L		123	1 - 242
Carbon tetrachloride	ND		20.0	21.7		ug/L		108	70 - 140
Chlorobenzene	ND		20.0	21.6		ug/L		108	37 - 160
Chloroethane	ND		20.0	23.3		ug/L		116	14 - 230
2-Chloroethyl vinyl ether	ND	F1	20.0	ND	F1	ug/L		0	1 - 305
Chloroform	ND		20.0	20.2		ug/L		101	51 - 138

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372429

Client Sample ID: MW-27DMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		20.0	21.3		ug/L		106	1 - 273
Chlorodibromomethane	ND		20.0	21.0		ug/L		105	53 - 149
1,1-Dichloroethane	ND		20.0	21.0		ug/L		105	59 - 155
1,2-Dichloroethane	ND		20.0	20.5		ug/L		103	49 - 155
1,1-Dichloroethene	ND		20.0	20.2		ug/L		101	1 - 234
trans-1,2-Dichloroethene	ND		20.0	20.5		ug/L		102	54 - 156
1,2-Dichloropropane	ND		20.0	20.9		ug/L		105	1 - 210
cis-1,3-Dichloropropene	ND		20.0	22.0		ug/L		110	1 - 227
trans-1,3-Dichloropropene	ND		20.0	20.6		ug/L		103	17 - 183
Ethylbenzene	11		20.0	32.0		ug/L		105	37 - 162
Methylene Chloride	ND		20.0	20.0		ug/L		100	1 - 221
1,1,2,2-Tetrachloroethane	ND		20.0	20.1		ug/L		101	46 - 157
Tetrachloroethene	ND		20.0	22.0		ug/L		110	64 - 148
Toluene	0.49	J	20.0	22.1		ug/L		108	47 - 150
1,1,1-Trichloroethane	ND		20.0	22.1		ug/L		110	52 - 162
1,1,2-Trichloroethane	ND		20.0	21.3		ug/L		107	52 - 150
Trichloroethene	ND		20.0	20.6		ug/L		103	71 - 157
Vinyl chloride	ND		20.0	23.8		ug/L		119	1 - 251
1,2-Dichlorobenzene	ND		20.0	20.2		ug/L		101	18 - 190
1,3-Dichlorobenzene	ND		20.0	20.5		ug/L		103	59 - 156
1,4-Dichlorobenzene	ND		20.0	20.6		ug/L		103	18 - 190

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372429

Client Sample ID: MW-27DMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	27		20.0	45.4		ug/L		91	37 - 151	3	15
Dichlorobromomethane	ND		20.0	20.0		ug/L		100	35 - 155	8	15
Bromoform	ND		20.0	18.9		ug/L		95	45 - 169	7	15
Bromomethane	ND		20.0	23.8		ug/L		119	1 - 242	4	15
Carbon tetrachloride	ND		20.0	20.3		ug/L		102	70 - 140	7	15
Chlorobenzene	ND		20.0	21.1		ug/L		106	37 - 160	2	15
Chloroethane	ND		20.0	22.7		ug/L		114	14 - 230	2	15
2-Chloroethyl vinyl ether	ND	F1	20.0	ND	F1	ug/L		0	1 - 305	NC	15
Chloroform	ND		20.0	19.0		ug/L		95	51 - 138	6	15
Chloromethane	ND		20.0	22.2		ug/L		111	1 - 273	4	15
Chlorodibromomethane	ND		20.0	20.0		ug/L		100	53 - 149	5	15
1,1-Dichloroethane	ND		20.0	19.2		ug/L		96	59 - 155	9	15
1,2-Dichloroethane	ND		20.0	18.8		ug/L		94	49 - 155	9	15
1,1-Dichloroethene	ND		20.0	18.7		ug/L		94	1 - 234	8	15
trans-1,2-Dichloroethene	ND		20.0	19.9		ug/L		99	54 - 156	3	15

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372429

Client Sample ID: MW-27DMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		20.0	19.8		ug/L		99	1 - 210	5	15
cis-1,3-Dichloropropene	ND		20.0	20.6		ug/L		103	1 - 227	6	15
trans-1,3-Dichloropropene	ND		20.0	19.6		ug/L		98	17 - 183	5	15
Ethylbenzene	11		20.0	30.0		ug/L		95	37 - 162	6	15
Methylene Chloride	ND		20.0	18.5		ug/L		92	1 - 221	8	15
1,1,2,2-Tetrachloroethane	ND		20.0	19.0		ug/L		95	46 - 157	6	15
Tetrachloroethene	ND		20.0	22.1		ug/L		111	64 - 148	0	15
Toluene	0.49	J	20.0	21.5		ug/L		105	47 - 150	3	15
1,1,1-Trichloroethane	ND		20.0	20.3		ug/L		102	52 - 162	8	15
1,1,2-Trichloroethane	ND		20.0	20.9		ug/L		105	52 - 150	2	15
Trichloroethene	ND		20.0	20.2		ug/L		101	71 - 157	2	15
Vinyl chloride	ND		20.0	23.3		ug/L		116	1 - 251	2	15
1,2-Dichlorobenzene	ND		20.0	20.1		ug/L		101	18 - 190	0	15
1,3-Dichlorobenzene	ND		20.0	19.5		ug/L		98	59 - 156	5	15
1,4-Dichlorobenzene	ND		20.0	19.9		ug/L		99	18 - 190	3	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*68 - 130*
4-Bromofluorobenzene (Surr)	*93*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-372461/1-A
Matrix: Water
Analysis Batch: 373121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.81	ug/L		08/16/17 14:31	08/22/17 10:09	1
Acenaphthylene	ND		5.0	0.87	ug/L		08/16/17 14:31	08/22/17 10:09	1
Anthracene	ND		5.0	1.4	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzidine	ND		80	35	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		08/16/17 14:31	08/22/17 10:09	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		08/16/17 14:31	08/22/17 10:09	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		08/16/17 14:31	08/22/17 10:09	1
bis (2-chloroisopropyl) ether	ND		5.0	0.84	ug/L		08/16/17 14:31	08/22/17 10:09	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		08/16/17 14:31	08/22/17 10:09	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		08/16/17 14:31	08/22/17 10:09	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		08/16/17 14:31	08/22/17 10:09	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		08/16/17 14:31	08/22/17 10:09	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		08/16/17 14:31	08/22/17 10:09	1
Chrysene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		08/16/17 14:31	08/22/17 10:09	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-372461/1-A
Matrix: Water
Analysis Batch: 373121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		08/16/17 14:31	08/22/17 10:09	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		08/16/17 14:31	08/22/17 10:09	1
Diethyl phthalate	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		08/16/17 14:31	08/22/17 10:09	1
Fluoranthene	ND		5.0	1.6	ug/L		08/16/17 14:31	08/22/17 10:09	1
Fluorene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Hexachloroethane	ND		5.0	0.60	ug/L		08/16/17 14:31	08/22/17 10:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		08/16/17 14:31	08/22/17 10:09	1
Isophorone	ND		5.0	0.74	ug/L		08/16/17 14:31	08/22/17 10:09	1
Naphthalene	ND		5.0	0.86	ug/L		08/16/17 14:31	08/22/17 10:09	1
Nitrobenzene	ND		5.0	0.81	ug/L		08/16/17 14:31	08/22/17 10:09	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		08/16/17 14:31	08/22/17 10:09	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		08/16/17 14:31	08/22/17 10:09	1
Phenanthrene	ND		5.0	1.2	ug/L		08/16/17 14:31	08/22/17 10:09	1
Pyrene	ND		5.0	1.4	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		08/16/17 14:31	08/22/17 10:09	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		08/16/17 14:31	08/22/17 10:09	1
2-Chlorophenol	ND		5.0	0.66	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		08/16/17 14:31	08/22/17 10:09	1
2-Nitrophenol	ND		5.0	0.70	ug/L		08/16/17 14:31	08/22/17 10:09	1
4-Nitrophenol	ND		15	10	ug/L		08/16/17 14:31	08/22/17 10:09	1
Pentachlorophenol	ND		10	1.6	ug/L		08/16/17 14:31	08/22/17 10:09	1
Phenol	ND		5.0	0.35	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*52 - 151*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
2-Fluorobiphenyl	*75*		*44 - 120*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
2-Fluorophenol	*42*		*17 - 120*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
Nitrobenzene-d5	*82*		*42 - 120*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
Phenol-d5	*35*		*10 - 120*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
p-Terphenyl-d14	*88*		*22 - 125*	*08/16/17 14:31*	*08/22/17 10:09*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372461/2-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	38.6		ug/L		77	47 - 145
Acenaphthylene	50.0	38.7		ug/L		77	33 - 145
Anthracene	50.0	42.9		ug/L		86	27 - 133
Benzo[a]anthracene	50.0	43.2		ug/L		86	33 - 143
Benzo[a]pyrene	50.0	42.6		ug/L		85	17 - 163
Benzo[b]fluoranthene	50.0	41.7		ug/L		83	24 - 159
Benzo[g,h,i]perylene	50.0	40.8		ug/L		82	1 - 219
Benzo[k]fluoranthene	50.0	46.4		ug/L		93	11 - 162
Bis(2-chloroethyl)ether	50.0	36.6		ug/L		73	12 - 158
Bis(2-chloroethoxy)methane	50.0	37.5		ug/L		75	33 - 184
bis (2-chloroisopropyl) ether	50.0	35.3		ug/L		71	36 - 166
Bis(2-ethylhexyl) phthalate	50.0	45.9		ug/L		92	8 - 158
4-Bromophenyl phenyl ether	50.0	44.2		ug/L		88	53 - 127
Butyl benzyl phthalate	50.0	45.1		ug/L		90	1 - 152
2-Chloronaphthalene	50.0	37.9		ug/L		76	60 - 118
4-Chlorophenyl phenyl ether	50.0	42.2		ug/L		84	25 - 158
Chrysene	50.0	43.8		ug/L		88	17 - 168
Dibenz(a,h)anthracene	50.0	40.6		ug/L		81	1 - 227
Di-n-butyl phthalate	50.0	45.3		ug/L		91	1 - 118
1,2-Dichlorobenzene	50.0	27.3		ug/L		55	32 - 129
1,3-Dichlorobenzene	50.0	24.3		ug/L		49	1 - 172
1,4-Dichlorobenzene	50.0	25.0		ug/L		50	20 - 124
3,3'-Dichlorobenzidine	100	87.6		ug/L		88	1 - 262
Diethyl phthalate	50.0	44.2		ug/L		88	1 - 114
Dimethyl phthalate	50.0	46.0		ug/L		92	1 - 112
2,4-Dinitrotoluene	50.0	44.8		ug/L		90	39 - 139
2,6-Dinitrotoluene	50.0	43.3		ug/L		87	50 - 158
Di-n-octyl phthalate	50.0	44.2		ug/L		88	4 - 146
Fluoranthene	50.0	45.0		ug/L		90	26 - 137
Fluorene	50.0	41.7		ug/L		83	59 - 121
Hexachlorobenzene	50.0	41.3		ug/L		83	1 - 152
Hexachlorocyclopentadiene	50.0	27.1		ug/L		54	5 - 120
Hexachloroethane	50.0	21.2		ug/L		42	40 - 113
Indeno[1,2,3-cd]pyrene	50.0	43.3		ug/L		87	1 - 171
Isophorone	50.0	40.1		ug/L		80	21 - 196
Naphthalene	50.0	34.1		ug/L		68	21 - 133
Nitrobenzene	50.0	37.1		ug/L		74	35 - 180
N-Nitrosodi-n-propylamine	50.0	39.0		ug/L		78	1 - 230
N-Nitrosodiphenylamine	50.0	42.1		ug/L		84	54 - 125
Phenanthrene	50.0	42.2		ug/L		84	54 - 120
Pyrene	50.0	45.7		ug/L		91	52 - 115
1,2,4-Trichlorobenzene	50.0	29.1		ug/L		58	44 - 142
4-Chloro-3-methylphenol	50.0	40.0		ug/L		80	22 - 147
2-Chlorophenol	50.0	35.3		ug/L		71	23 - 134
2,4-Dichlorophenol	50.0	38.7		ug/L		77	39 - 135
2,4-Dimethylphenol	50.0	39.4		ug/L		79	32 - 119
2,4-Dinitrophenol	100	89.3		ug/L		89	1 - 191
4,6-Dinitro-2-methylphenol	100	91.2		ug/L		91	1 - 181

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372461/2-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitrophenol	50.0	34.3		ug/L		69	29 - 182
4-Nitrophenol	100	52.1		ug/L		52	1 - 132
Pentachlorophenol	100	87.7		ug/L		88	14 - 176
Phenol	50.0	19.0		ug/L		38	5 - 112
2,4,6-Trichlorophenol	50.0	44.8		ug/L		90	37 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*91*		*52 - 151*
2-Fluorobiphenyl	*80*		*44 - 120*
2-Fluorophenol	*49*		*17 - 120*
Nitrobenzene-d5	*74*		*42 - 120*
Phenol-d5	*37*		*10 - 120*
p-Terphenyl-d14	*90*		*22 - 125*

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 374116

Client Sample ID: MW-27DMS
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	180		50.0	238		ug/L		121	47 - 145
Acenaphthylene	ND		50.0	41.0		ug/L		82	33 - 145
Anthracene	12	J	50.0	57.8		ug/L		91	27 - 133
Benzo[a]anthracene	ND		50.0	45.3		ug/L		91	33 - 143
Benzo[a]pyrene	ND		50.0	46.7		ug/L		93	17 - 163
Benzo[b]fluoranthene	ND		50.0	47.0		ug/L		94	24 - 159
Benzo[g,h,i]perylene	ND		50.0	46.3		ug/L		93	1 - 219
Benzo[k]fluoranthene	ND		50.0	52.6		ug/L		105	11 - 162
Bis(2-chloroethyl)ether	ND		50.0	30.5		ug/L		61	12 - 158
Bis(2-chloroethoxy)methane	ND		50.0	32.6		ug/L		65	33 - 184
bis (2-chloroisopropyl) ether	ND		50.0	32.2		ug/L		64	36 - 166
Bis(2-ethylhexyl) phthalate	ND		50.0	47.6	J	ug/L		95	8 - 158
4-Bromophenyl phenyl ether	ND		50.0	47.0		ug/L		94	53 - 127
Butyl benzyl phthalate	ND		50.0	52.7		ug/L		105	1 - 152
2-Chloronaphthalene	ND		50.0	37.7		ug/L		75	60 - 118
4-Chlorophenyl phenyl ether	ND		50.0	42.5		ug/L		85	25 - 158
Chrysene	ND		50.0	47.9		ug/L		96	17 - 168
Dibenz(a,h)anthracene	ND		50.0	46.3		ug/L		93	1 - 227
Di-n-butyl phthalate	ND		50.0	48.3		ug/L		97	1 - 118
1,2-Dichlorobenzene	ND	F1	50.0	ND	F1	ug/L		0	32 - 129
1,3-Dichlorobenzene	ND		50.0	22.9	J	ug/L		46	1 - 172
1,4-Dichlorobenzene	ND	F1	50.0	ND	F1	ug/L		0	20 - 124
3,3'-Dichlorobenzidine	ND		100	59.5		ug/L		59	1 - 262
Diethyl phthalate	ND		50.0	45.2		ug/L		90	1 - 114
Dimethyl phthalate	ND		50.0	44.9		ug/L		90	1 - 112
2,4-Dinitrotoluene	ND		50.0	49.0	J	ug/L		98	39 - 139
2,6-Dinitrotoluene	ND		50.0	47.9		ug/L		96	50 - 158
Di-n-octyl phthalate	ND		50.0	53.1		ug/L		106	4 - 146
Fluoranthene	10	J	50.0	61.5		ug/L		102	26 - 137

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 374116

Client Sample ID: MW-27DMS
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	51		50.0	97.0		ug/L		92	59 - 121
Hexachlorobenzene	ND		50.0	41.9		ug/L		84	1 - 152
Hexachlorocyclopentadiene	ND	F1	50.0	ND	F1	ug/L		0	5 - 120
Hexachloroethane	ND	F1	50.0	19.5	J F1	ug/L		39	40 - 113
Indeno[1,2,3-cd]pyrene	ND		50.0	47.8		ug/L		96	1 - 171
Isophorone	ND		50.0	34.9		ug/L		70	21 - 196
Naphthalene	51		50.0	81.1		ug/L		61	21 - 133
Nitrobenzene	ND		50.0	33.4		ug/L		67	35 - 180
N-Nitrosodi-n-propylamine	ND		50.0	32.0		ug/L		64	1 - 230
N-Nitrosodiphenylamine	ND		50.0	45.5		ug/L		91	54 - 125
Phenanthrene	77	F1	50.0	136		ug/L		118	54 - 120
Pyrene	13	J	50.0	60.4		ug/L		96	52 - 115
1,2,4-Trichlorobenzene	ND		50.0	29.2	J	ug/L		58	44 - 142
4-Chloro-3-methylphenol	ND		50.0	39.1		ug/L		78	22 - 147
2-Chlorophenol	ND		50.0	31.4		ug/L		63	23 - 134
2,4-Dichlorophenol	ND		50.0	36.9		ug/L		74	39 - 135
2,4-Dimethylphenol	ND		50.0	33.3		ug/L		67	32 - 119
2,4-Dinitrophenol	ND		100	124		ug/L		124	1 - 191
4,6-Dinitro-2-methylphenol	ND		100	112		ug/L		112	1 - 181
2-Nitrophenol	ND		50.0	39.3		ug/L		79	29 - 182
4-Nitrophenol	ND		100	71.2	J	ug/L		71	1 - 132
Pentachlorophenol	ND		100	111		ug/L		111	14 - 176
Phenol	ND		50.0	15.8	J	ug/L		32	5 - 112
2,4,6-Trichlorophenol	ND		50.0	43.4		ug/L		87	37 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*107*		*52 - 151*
2-Fluorobiphenyl	*75*		*44 - 120*
2-Fluorophenol	*37*		*17 - 120*
Nitrobenzene-d5	*72*		*42 - 120*
Phenol-d5	*32*		*10 - 120*
p-Terphenyl-d14	*53*		*22 - 125*

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 374116

Client Sample ID: MW-27DMSD
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	180		47.6	241		ug/L		133	47 - 145	1	25
Acenaphthylene	ND		47.6	42.7		ug/L		90	33 - 145	4	22
Anthracene	12	J	47.6	64.4		ug/L		110	27 - 133	11	15
Benzo[a]anthracene	ND		47.6	49.2		ug/L		103	33 - 143	8	15
Benzo[a]pyrene	ND		47.6	45.0		ug/L		94	17 - 163	4	15
Benzo[b]fluoranthene	ND		47.6	45.1		ug/L		95	24 - 159	4	17
Benzo[g,h,i]perylene	ND		47.6	47.0		ug/L		99	1 - 219	2	19
Benzo[k]fluoranthene	ND		47.6	50.1		ug/L		105	11 - 162	5	19
Bis(2-chloroethyl)ether	ND		47.6	33.5		ug/L		70	12 - 158	9	33
Bis(2-chloroethoxy)methane	ND		47.6	35.2		ug/L		74	33 - 184	8	23

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 374116

Client Sample ID: MW-27DMSD
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
bis (2-chloroisopropyl) ether	ND		47.6	33.8		ug/L		71	36 - 166	5	36
Bis(2-ethylhexyl) phthalate	ND		47.6	49.1		ug/L		103	8 - 158	3	15
4-Bromophenyl phenyl ether	ND		47.6	49.3		ug/L		103	53 - 127	5	16
Butyl benzyl phthalate	ND		47.6	56.0		ug/L		118	1 - 152	6	15
2-Chloronaphthalene	ND		47.6	41.6		ug/L		87	60 - 118	10	30
4-Chlorophenyl phenyl ether	ND		47.6	44.1		ug/L		93	25 - 158	4	15
Chrysene	ND		47.6	50.8		ug/L		107	17 - 168	6	15
Dibenz(a,h)anthracene	ND		47.6	44.4		ug/L		93	1 - 227	4	18
Di-n-butyl phthalate	ND		47.6	52.6		ug/L		111	1 - 118	9	15
1,2-Dichlorobenzene	ND	F1	47.6	28.5	J	ug/L		60	32 - 129	NC	38
1,3-Dichlorobenzene	ND		47.6	25.2	J	ug/L		53	1 - 172	10	37
1,4-Dichlorobenzene	ND	F1	47.6	ND	F1	ug/L		0	20 - 124	NC	40
3,3'-Dichlorobenzidine	ND		95.2	55.7		ug/L		58	1 - 262	7	31
Diethyl phthalate	ND		47.6	44.4		ug/L		93	1 - 114	2	15
Dimethyl phthalate	ND		47.6	44.9		ug/L		94	1 - 112	0	15
2,4-Dinitrotoluene	ND		47.6	50.7		ug/L		106	39 - 139	3	20
2,6-Dinitrotoluene	ND		47.6	56.3		ug/L		118	50 - 158	16	17
Di-n-octyl phthalate	ND		47.6	53.8		ug/L		113	4 - 146	1	15
Fluoranthene	10	J	47.6	60.5		ug/L		105	26 - 137	2	15
Fluorene	51		47.6	98.1		ug/L		99	59 - 121	1	18
Hexachlorobenzene	ND		47.6	44.7		ug/L		94	1 - 152	7	15
Hexachlorocyclopentadiene	ND	F1	47.6	26.1	J	ug/L		55	5 - 120	NC	50
Hexachloroethane	ND	F1	47.6	22.9	J	ug/L		48	40 - 113	16	43
Indeno[1,2,3-cd]pyrene	ND		47.6	48.6		ug/L		102	1 - 171	2	17
Isophorone	ND		47.6	38.2		ug/L		80	21 - 196	9	21
Naphthalene	51		47.6	87.1		ug/L		76	21 - 133	7	31
Nitrobenzene	ND		47.6	38.2		ug/L		80	35 - 180	13	27
N-Nitrosodi-n-propylamine	ND		47.6	36.3		ug/L		76	1 - 230	13	23
N-Nitrosodiphenylamine	ND		47.6	47.6		ug/L		100	54 - 125	4	15
Phenanthrene	77	F1	47.6	137	F1	ug/L		127	54 - 120	1	16
Pyrene	13	J	47.6	64.6		ug/L		109	52 - 115	7	15
1,2,4-Trichlorobenzene	ND		47.6	31.4	J	ug/L		66	44 - 142	7	34
4-Chloro-3-methylphenol	ND		47.6	44.0		ug/L		92	22 - 147	12	16
2-Chlorophenol	ND		47.6	31.6		ug/L		66	23 - 134	1	26
2,4-Dichlorophenol	ND		47.6	40.8		ug/L		86	39 - 135	10	23
2,4-Dimethylphenol	ND		47.6	37.8		ug/L		79	32 - 119	12	18
2,4-Dinitrophenol	ND		95.2	124		ug/L		131	1 - 191	0	29
4,6-Dinitro-2-methylphenol	ND		95.2	118		ug/L		124	1 - 181	5	30
2-Nitrophenol	ND		47.6	41.6		ug/L		87	29 - 182	6	28
4-Nitrophenol	ND		95.2	74.6		ug/L		78	1 - 132	5	24
Pentachlorophenol	ND		95.2	120		ug/L		126	14 - 176	8	21
Phenol	ND		47.6	16.2	J	ug/L		34	5 - 112	3	36
2,4,6-Trichlorophenol	ND		47.6	42.7		ug/L		90	37 - 144	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*127*		*52 - 151*
2-Fluorobiphenyl	*82*		*44 - 120*
2-Fluorophenol	*45*		*17 - 120*

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 374116

Client Sample ID: MW-27DMSD
Prep Type: Total/NA
Prep Batch: 372461

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*82*		*42 - 120*
Phenol-d5	*33*		*10 - 120*
p-Terphenyl-d14	*57*		*22 - 125*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-372457/1-A
Matrix: Water
Analysis Batch: 372582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/16/17 14:17	08/17/17 11:34	1
alpha-BHC	0.0156	J	0.050	0.0077	ug/L		08/16/17 14:17	08/17/17 11:34	1
beta-BHC	ND		0.050	0.025	ug/L		08/16/17 14:17	08/17/17 11:34	1
delta-BHC	ND		0.050	0.010	ug/L		08/16/17 14:17	08/17/17 11:34	1
gamma-BHC (Lindane)	0.0149	J	0.050	0.0080	ug/L		08/16/17 14:17	08/17/17 11:34	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/16/17 14:17	08/17/17 11:34	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/16/17 14:17	08/17/17 11:34	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/16/17 14:17	08/17/17 11:34	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/16/17 14:17	08/17/17 11:34	1
Dieldrin	ND		0.050	0.0098	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endosulfan I	ND		0.050	0.011	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endosulfan II	ND		0.050	0.012	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endrin	ND		0.050	0.014	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/16/17 14:17	08/17/17 11:34	1
Heptachlor	ND		0.050	0.0085	ug/L		08/16/17 14:17	08/17/17 11:34	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/16/17 14:17	08/17/17 11:34	1
Toxaphene	ND		0.50	0.12	ug/L		08/16/17 14:17	08/17/17 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*23 - 120*	*08/16/17 14:17*	*08/17/17 11:34*	*1*
DCB Decachlorobiphenyl	*66*		*23 - 120*	*08/16/17 14:17*	*08/17/17 11:34*	*1*
Tetrachloro-m-xylene	*82*		*44 - 120*	*08/16/17 14:17*	*08/17/17 11:34*	*1*
Tetrachloro-m-xylene	*60*		*44 - 120*	*08/16/17 14:17*	*08/17/17 11:34*	*1*

Lab Sample ID: LCS 480-372457/2-A
Matrix: Water
Analysis Batch: 372582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.500	0.274		ug/L		55	40 - 125
alpha-BHC	0.500	0.338		ug/L		68	52 - 125
beta-BHC	0.500	0.436		ug/L		87	52 - 120
delta-BHC	0.500	0.483		ug/L		97	51 - 120
gamma-BHC (Lindane)	0.500	0.400		ug/L		80	56 - 120
4,4'-DDD	0.500	0.536		ug/L		107	64 - 129

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 480-372457/2-A
Matrix: Water
Analysis Batch: 372582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	0.500	0.432		ug/L		86	50 - 120
4,4'-DDT	0.500	0.542		ug/L		108	59 - 120
Dieldrin	0.500	0.521		ug/L		104	66 - 128
Endosulfan I	0.500	0.479		ug/L		96	57 - 120
Endosulfan II	0.500	0.515		ug/L		103	66 - 131
Endosulfan sulfate	0.500	0.617		ug/L		123	66 - 131
Endrin	0.500	0.542		ug/L		108	65 - 135
Endrin aldehyde	0.500	0.353		ug/L		71	61 - 134
Heptachlor	0.500	0.415		ug/L		83	58 - 120
Heptachlor epoxide	0.500	0.494		ug/L		99	65 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*23 - 120*
DCB Decachlorobiphenyl	*62*		*23 - 120*
Tetrachloro-m-xylene	*98*		*44 - 120*
Tetrachloro-m-xylene	*70*		*44 - 120*

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372582

Client Sample ID: MW-27DMS
Prep Type: Total/NA
Prep Batch: 372457

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.012	J	0.476	0.376		ug/L		77	16 - 128
alpha-BHC	ND		0.476	0.369		ug/L		78	48 - 120
beta-BHC	ND		0.476	0.497		ug/L		104	41 - 147
delta-BHC	ND		0.476	0.468		ug/L		98	29 - 152
gamma-BHC (Lindane)	0.050	B	0.476	0.406		ug/L		75	58 - 120
4,4'-DDD	ND		0.476	0.463		ug/L		97	57 - 130
4,4'-DDE	0.042	J	0.476	0.420		ug/L		79	39 - 120
4,4'-DDT	0.039	J	0.476	0.486		ug/L		94	37 - 130
Dieldrin	ND		0.476	0.589		ug/L		124	56 - 130
Endosulfan I	ND		0.476	0.441		ug/L		93	40 - 126
Endosulfan II	ND		0.476	0.498		ug/L		105	59 - 140
Endosulfan sulfate	0.019	J	0.476	0.612		ug/L		125	60 - 134
Endrin	ND		0.476	0.526		ug/L		110	54 - 135
Endrin aldehyde	ND		0.476	0.512		ug/L		107	50 - 142
Heptachlor	ND		0.476	0.459		ug/L		96	56 - 120
Heptachlor epoxide	ND		0.476	0.465		ug/L		98	58 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*23 - 120*
DCB Decachlorobiphenyl	*51*		*23 - 120*
Tetrachloro-m-xylene	*128*	*X*	*44 - 120*
Tetrachloro-m-xylene	*78*		*44 - 120*

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372582

Client Sample ID: MW-27DMSD
Prep Type: Total/NA
Prep Batch: 372457

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.012	J	0.476	0.381		ug/L		78	16 - 128	1	50
alpha-BHC	ND		0.476	0.380		ug/L		80	48 - 120	3	50
beta-BHC	ND		0.476	0.537		ug/L		113	41 - 147	8	50
delta-BHC	ND		0.476	0.468		ug/L		98	29 - 152	0	50
gamma-BHC (Lindane)	0.050	B	0.476	0.410		ug/L		76	58 - 120	1	50
4,4'-DDD	ND		0.476	0.444		ug/L		93	57 - 130	4	50
4,4'-DDE	0.042	J	0.476	0.413		ug/L		78	39 - 120	2	50
4,4'-DDT	0.039	J	0.476	0.467		ug/L		90	37 - 130	4	50
Dieldrin	ND		0.476	0.549		ug/L		115	56 - 130	7	50
Endosulfan I	ND		0.476	0.434		ug/L		91	40 - 126	2	50
Endosulfan II	ND		0.476	0.471		ug/L		99	59 - 140	6	50
Endosulfan sulfate	0.019	J	0.476	0.615		ug/L		125	60 - 134	0	50
Endrin	ND		0.476	0.515		ug/L		108	54 - 135	2	50
Endrin aldehyde	ND		0.476	0.398		ug/L		83	50 - 142	25	50
Heptachlor	ND		0.476	0.455		ug/L		95	56 - 120	1	50
Heptachlor epoxide	ND		0.476	0.461		ug/L		97	58 - 125	1	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*23 - 120*
DCB Decachlorobiphenyl	*55*		*23 - 120*
Tetrachloro-m-xylene	*119*		*44 - 120*
Tetrachloro-m-xylene	*83*		*44 - 120*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-372759/1-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*36 - 121*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
DCB Decachlorobiphenyl	*60*		*36 - 121*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
Tetrachloro-m-xylene	*114*		*42 - 135*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
Tetrachloro-m-xylene	*99*		*42 - 135*	*08/18/17 07:29*	*08/23/17 14:45*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 480-372759/2-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.00	1.16		ug/L		116	69 - 123
PCB-1260	1.00	1.00		ug/L		100	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*36 - 121*
DCB Decachlorobiphenyl	*50*		*36 - 121*
Tetrachloro-m-xylene	*108*		*42 - 135*
Tetrachloro-m-xylene	*85*		*42 - 135*

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 373562

Client Sample ID: MW-27DMS
Prep Type: Total/NA
Prep Batch: 372759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1.00	1.12		ug/L		112	43 - 150
PCB-1260	ND		1.00	0.843		ug/L		84	21 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*24*	*X*	*36 - 121*
DCB Decachlorobiphenyl	*29*	*X*	*36 - 121*
Tetrachloro-m-xylene	*135*		*42 - 135*
Tetrachloro-m-xylene	*84*		*42 - 135*

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 373562

Client Sample ID: MW-27DMSD
Prep Type: Total/NA
Prep Batch: 372759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.00	1.14		ug/L		114	43 - 150	2	30
PCB-1260	ND		1.00	0.940		ug/L		94	21 - 150	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*43*		*36 - 121*
DCB Decachlorobiphenyl	*30*	*X*	*36 - 121*
Tetrachloro-m-xylene	*147*	*X*	*42 - 135*
Tetrachloro-m-xylene	*88*		*42 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-372314/1-A
Matrix: Water
Analysis Batch: 372573

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372314

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/16/17 08:10	08/16/17 21:34	1
Antimony	ND		0.020	0.0068	mg/L		08/16/17 08:10	08/16/17 21:34	1
Arsenic	ND		0.015	0.0056	mg/L		08/16/17 08:10	08/16/17 21:34	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-372314/1-A
Matrix: Water
Analysis Batch: 372573

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372314

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0020	0.00070	mg/L		08/16/17 08:10	08/16/17 21:34	1
Beryllium	ND		0.0020	0.00030	mg/L		08/16/17 08:10	08/16/17 21:34	1
Cadmium	ND		0.0020	0.00050	mg/L		08/16/17 08:10	08/16/17 21:34	1
Calcium	ND		0.50	0.10	mg/L		08/16/17 08:10	08/16/17 21:34	1
Chromium	ND		0.0040	0.0010	mg/L		08/16/17 08:10	08/16/17 21:34	1
Cobalt	ND		0.0040	0.00063	mg/L		08/16/17 08:10	08/16/17 21:34	1
Copper	ND		0.010	0.0016	mg/L		08/16/17 08:10	08/16/17 21:34	1
Iron	ND		0.050	0.019	mg/L		08/16/17 08:10	08/16/17 21:34	1
Lead	ND		0.010	0.0030	mg/L		08/16/17 08:10	08/16/17 21:34	1
Magnesium	ND		0.20	0.043	mg/L		08/16/17 08:10	08/16/17 21:34	1
Nickel	ND		0.010	0.0013	mg/L		08/16/17 08:10	08/16/17 21:34	1
Potassium	ND		0.50	0.10	mg/L		08/16/17 08:10	08/16/17 21:34	1
Selenium	ND		0.025	0.0087	mg/L		08/16/17 08:10	08/16/17 21:34	1
Silver	ND		0.0060	0.0017	mg/L		08/16/17 08:10	08/16/17 21:34	1
Sodium	ND		1.0	0.32	mg/L		08/16/17 08:10	08/16/17 21:34	1
Thallium	ND		0.020	0.010	mg/L		08/16/17 08:10	08/16/17 21:34	1
Vanadium	ND		0.0050	0.0015	mg/L		08/16/17 08:10	08/16/17 21:34	1
Zinc	0.00155	J	0.010	0.0015	mg/L		08/16/17 08:10	08/16/17 21:34	1

Lab Sample ID: MB 480-372314/1-A
Matrix: Water
Analysis Batch: 372813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372314

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.00242	J	0.0030	0.00040	mg/L		08/16/17 08:10	08/17/17 15:22	1

Lab Sample ID: LCS 480-372314/2-A
Matrix: Water
Analysis Batch: 372573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.97		mg/L		100	80 - 120
Antimony	0.200	0.199		mg/L		99	80 - 120
Arsenic	0.200	0.201		mg/L		100	80 - 120
Barium	0.200	0.207		mg/L		103	80 - 120
Beryllium	0.200	0.203		mg/L		102	80 - 120
Cadmium	0.200	0.203		mg/L		102	80 - 120
Calcium	10.0	10.08		mg/L		101	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.200	0.193		mg/L		96	80 - 120
Copper	0.200	0.203		mg/L		102	80 - 120
Iron	10.0	10.25		mg/L		103	80 - 120
Lead	0.200	0.203		mg/L		101	80 - 120
Magnesium	10.0	10.28		mg/L		103	80 - 120
Manganese	0.200	0.214	^	mg/L		107	80 - 120
Nickel	0.200	0.197		mg/L		99	80 - 120
Potassium	10.0	9.97		mg/L		100	80 - 120
Selenium	0.200	0.200		mg/L		100	80 - 120
Silver	0.0500	0.0482		mg/L		96	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-372314/2-A
Matrix: Water
Analysis Batch: 372573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	10.0	10.0		mg/L		100	80 - 120
Thallium	0.200	0.203		mg/L		101	80 - 120
Vanadium	0.200	0.202		mg/L		101	80 - 120
Zinc	0.200	0.206		mg/L		103	80 - 120

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372573

Client Sample ID: MW-27DMS
Prep Type: Total/NA
Prep Batch: 372314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.99		mg/L		100	75 - 125
Antimony	ND		0.200	0.206		mg/L		103	75 - 125
Arsenic	0.023		0.200	0.236		mg/L		106	75 - 125
Barium	0.91		0.200	1.11	4	mg/L		99	75 - 125
Beryllium	ND		0.200	0.202		mg/L		101	75 - 125
Cadmium	ND		0.200	0.211		mg/L		105	75 - 125
Calcium	273		10.0	278.7	4	mg/L		62	75 - 125
Chromium	ND		0.200	0.199		mg/L		99	75 - 125
Cobalt	ND		0.200	0.203		mg/L		101	75 - 125
Copper	ND		0.200	0.202		mg/L		101	75 - 125
Iron	83.0		10.0	92.99	4	mg/L		100	75 - 125
Lead	ND		0.200	0.213		mg/L		107	75 - 125
Magnesium	45.9		10.0	55.19	4	mg/L		93	75 - 125
Manganese	13.3	B	0.200	13.30	4	mg/L		-8	75 - 125
Nickel	ND		0.200	0.205		mg/L		102	75 - 125
Potassium	19.5		10.0	29.38		mg/L		99	75 - 125
Selenium	ND		0.200	0.203		mg/L		101	75 - 125
Silver	ND		0.0500	0.0505		mg/L		101	75 - 125
Sodium	696		10.0	701.8	4	mg/L		59	75 - 125
Thallium	ND		0.200	0.194		mg/L		97	75 - 125
Vanadium	ND		0.200	0.206		mg/L		103	75 - 125
Zinc	0.0027	J	0.200	0.204		mg/L		100	75 - 125

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372573

Client Sample ID: MW-27DMSD
Prep Type: Total/NA
Prep Batch: 372314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	10.22		mg/L		102	75 - 125	2	20
Antimony	ND		0.200	0.206		mg/L		103	75 - 125	0	20
Arsenic	0.023		0.200	0.238		mg/L		108	75 - 125	1	20
Barium	0.91		0.200	1.12	4	mg/L		103	75 - 125	1	20
Beryllium	ND		0.200	0.204		mg/L		102	75 - 125	1	20
Cadmium	ND		0.200	0.214		mg/L		107	75 - 125	2	20
Calcium	273		10.0	283.5	4	mg/L		110	75 - 125	2	20
Chromium	ND		0.200	0.202		mg/L		101	75 - 125	1	20
Cobalt	ND		0.200	0.205		mg/L		103	75 - 125	1	20
Copper	ND		0.200	0.204		mg/L		102	75 - 125	1	20
Iron	83.0		10.0	93.81	4	mg/L		108	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372573

Client Sample ID: MW-27DMSD
Prep Type: Total/NA
Prep Batch: 372314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		0.200	0.216		mg/L		108	75 - 125	1	20
Magnesium	45.9		10.0	55.68	4	mg/L		98	75 - 125	1	20
Manganese	13.3	B	0.200	13.33	4	mg/L		11	75 - 125	0	20
Nickel	ND		0.200	0.209		mg/L		104	75 - 125	2	20
Potassium	19.5		10.0	29.58		mg/L		101	75 - 125	1	20
Selenium	ND		0.200	0.209		mg/L		104	75 - 125	3	20
Silver	ND		0.0500	0.0521		mg/L		104	75 - 125	3	20
Sodium	696		10.0	706.4	4	mg/L		105	75 - 125	1	20
Thallium	ND		0.200	0.196		mg/L		98	75 - 125	1	20
Vanadium	ND		0.200	0.209		mg/L		105	75 - 125	2	20
Zinc	0.0027	J	0.200	0.207		mg/L		102	75 - 125	2	20

Lab Sample ID: MB 480-372354/1-B
Matrix: Water
Analysis Batch: 372808

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 372580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 09:47	08/17/17 19:08	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 09:47	08/17/17 19:08	1
Arsenic	ND		0.015	0.0056	mg/L		08/17/17 09:47	08/17/17 19:08	1
Barium	ND		0.0020	0.00070	mg/L		08/17/17 09:47	08/17/17 19:08	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 09:47	08/17/17 19:08	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 09:47	08/17/17 19:08	1
Calcium	ND		0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:08	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 09:47	08/17/17 19:08	1
Cobalt	ND		0.0040	0.00063	mg/L		08/17/17 09:47	08/17/17 19:08	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 09:47	08/17/17 19:08	1
Iron	ND		0.050	0.019	mg/L		08/17/17 09:47	08/17/17 19:08	1
Lead	ND		0.010	0.0030	mg/L		08/17/17 09:47	08/17/17 19:08	1
Magnesium	ND		0.20	0.043	mg/L		08/17/17 09:47	08/17/17 19:08	1
Manganese	ND		0.0030	0.00040	mg/L		08/17/17 09:47	08/17/17 19:08	1
Nickel	ND		0.010	0.0013	mg/L		08/17/17 09:47	08/17/17 19:08	1
Potassium	0.321	J	0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:08	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 09:47	08/17/17 19:08	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 09:47	08/17/17 19:08	1
Sodium	ND		1.0	0.32	mg/L		08/17/17 09:47	08/17/17 19:08	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 09:47	08/17/17 19:08	1
Vanadium	ND		0.0050	0.0015	mg/L		08/17/17 09:47	08/17/17 19:08	1
Zinc	0.00236	J	0.010	0.0015	mg/L		08/17/17 09:47	08/17/17 19:08	1

Lab Sample ID: LCS 480-372354/2-B
Matrix: Water
Analysis Batch: 372808

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 372580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.88		mg/L		99	80 - 120
Antimony	0.200	0.200		mg/L		100	80 - 120
Arsenic	0.200	0.206		mg/L		103	80 - 120
Barium	0.200	0.217		mg/L		108	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-372354/2-B
Matrix: Water
Analysis Batch: 372808

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 372580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.200	0.197		mg/L		99	80 - 120
Cadmium	0.200	0.206		mg/L		103	80 - 120
Calcium	10.0	9.99		mg/L		100	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.200	0.190		mg/L		95	80 - 120
Copper	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	10.20		mg/L		102	80 - 120
Lead	0.200	0.200		mg/L		100	80 - 120
Magnesium	10.0	10.28		mg/L		103	80 - 120
Manganese	0.200	0.211		mg/L		106	80 - 120
Nickel	0.200	0.199		mg/L		100	80 - 120
Potassium	10.0	10.12		mg/L		101	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120
Sodium	10.0	10.03		mg/L		100	80 - 120
Thallium	0.200	0.200		mg/L		100	80 - 120
Vanadium	0.200	0.207		mg/L		104	80 - 120
Zinc	0.200	0.212		mg/L		106	80 - 120

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372808

Client Sample ID: MW-27DMS
Prep Type: Dissolved
Prep Batch: 372580

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.96		mg/L		100	75 - 125
Antimony	ND		0.200	0.209		mg/L		104	75 - 125
Arsenic	0.0064	J	0.200	0.218		mg/L		106	75 - 125
Barium	0.62	F1	0.200	0.871		mg/L		125	75 - 125
Beryllium	ND		0.200	0.197		mg/L		98	75 - 125
Cadmium	ND		0.200	0.215		mg/L		108	75 - 125
Calcium	260		10.0	266.4	4	mg/L		60	75 - 125
Chromium	ND		0.200	0.195		mg/L		97	75 - 125
Cobalt	ND		0.200	0.200		mg/L		100	75 - 125
Copper	ND		0.200	0.213		mg/L		106	75 - 125
Iron	20.3	F1 F2	10.0	42.19	F1	mg/L		219	75 - 125
Lead	0.0034	J	0.200	0.218		mg/L		107	75 - 125
Magnesium	46.5		10.0	55.94	4	mg/L		95	75 - 125
Manganese	12.8		0.200	12.87	4	mg/L		19	75 - 125
Nickel	ND		0.200	0.208		mg/L		104	75 - 125
Potassium	19.9	B	10.0	30.21		mg/L		103	75 - 125
Selenium	ND		0.200	0.202		mg/L		101	75 - 125
Silver	ND		0.0500	0.0541		mg/L		108	75 - 125
Sodium	695		10.0	698.1	4	mg/L		29	75 - 125
Thallium	ND		0.200	0.197		mg/L		99	75 - 125
Vanadium	ND		0.200	0.206		mg/L		103	75 - 125
Zinc	0.014	B	0.200	0.223		mg/L		105	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372808

Client Sample ID: MW-27DMSD
Prep Type: Dissolved
Prep Batch: 372580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.98		mg/L		100	75 - 125	0	20
Antimony	ND		0.200	0.206		mg/L		103	75 - 125	1	20
Arsenic	0.0064	J	0.200	0.228		mg/L		111	75 - 125	5	20
Barium	0.62	F1	0.200	0.942	F1	mg/L		160	75 - 125	8	20
Beryllium	ND		0.200	0.197		mg/L		99	75 - 125	0	20
Cadmium	ND		0.200	0.217		mg/L		108	75 - 125	1	20
Calcium	260		10.0	273.7	4	mg/L		133	75 - 125	3	20
Chromium	ND		0.200	0.197		mg/L		98	75 - 125	1	20
Cobalt	ND		0.200	0.200		mg/L		100	75 - 125	0	20
Copper	ND		0.200	0.216		mg/L		108	75 - 125	1	20
Iron	20.3	F1 F2	10.0	57.94	F1 F2	mg/L		377	75 - 125	31	20
Lead	0.0034	J	0.200	0.214		mg/L		105	75 - 125	2	20
Magnesium	46.5		10.0	56.54	4	mg/L		101	75 - 125	1	20
Manganese	12.8		0.200	13.06	4	mg/L		111	75 - 125	1	20
Nickel	ND		0.200	0.209		mg/L		104	75 - 125	0	20
Potassium	19.9	B	10.0	30.50		mg/L		106	75 - 125	1	20
Selenium	ND		0.200	0.202		mg/L		101	75 - 125	0	20
Silver	ND		0.0500	0.0551		mg/L		110	75 - 125	2	20
Sodium	695		10.0	711.1	4	mg/L		159	75 - 125	2	20
Thallium	ND		0.200	0.198		mg/L		99	75 - 125	0	20
Vanadium	ND		0.200	0.209		mg/L		104	75 - 125	1	20
Zinc	0.014	B	0.200	0.208		mg/L		97	75 - 125	7	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-372138/1-A
Matrix: Water
Analysis Batch: 372391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/15/17 08:27	08/15/17 14:12	1

Lab Sample ID: LCS 480-372138/2-A
Matrix: Water
Analysis Batch: 372391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00623		mg/L		93	80 - 120

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372391

Client Sample ID: MW-27DMS
Prep Type: Total/NA
Prep Batch: 372138

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00633		mg/L		95	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372391

Client Sample ID: MW-27DMSD
Prep Type: Total/NA
Prep Batch: 372138

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00637		mg/L		95	80 - 120	1	20

Lab Sample ID: MB 480-372354/1-C
Matrix: Water
Analysis Batch: 372684

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 372585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/17/17 10:00	08/17/17 13:43	1

Lab Sample ID: LCS 480-372354/2-C
Matrix: Water
Analysis Batch: 372684

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 372585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00608		mg/L		91	80 - 120

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372684

Client Sample ID: MW-27DMS
Prep Type: Dissolved
Prep Batch: 372585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00592		mg/L		89	80 - 120

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372684

Client Sample ID: MW-27DMSD
Prep Type: Dissolved
Prep Batch: 372585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00595		mg/L		89	80 - 120	1	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-373481/1-A
Matrix: Water
Analysis Batch: 373566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		08/23/17 09:23	08/23/17 09:23	1
SGT-HEM	ND		5.0	1.9	mg/L		08/23/17 09:23	08/23/17 09:23	1

Lab Sample ID: LCS 480-373481/2-A
Matrix: Water
Analysis Batch: 373566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	39.9	38.52		mg/L		96	78 - 114
SGT-HEM	20.0	14.47		mg/L		72	64 - 132

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: 480-122690-1 MS — **Client Sample ID: MW-27D**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373566 — **Prep Batch: 373481**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	1.8	J	21.8	20.72		mg/L		87	78 - 114
SGT-HEM	ND		10.9	8.18		mg/L		75	64 - 132

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-372333/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372654 — **Prep Batch: 372333**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		08/16/17 08:12	08/17/17 07:20	1

Lab Sample ID: LCS 480-372333/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372654 — **Prep Batch: 372333**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.27		mg/L		91	90 - 110

Lab Sample ID: 480-122690-1 MS — **Client Sample ID: MW-27DMS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372654 — **Prep Batch: 372333**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	3.7	F1	1.00	4.68		mg/L		101	90 - 110

Lab Sample ID: 480-122690-1 MSD — **Client Sample ID: MW-27DMSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372654 — **Prep Batch: 372333**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	3.7	F1	1.00	4.82	F1	mg/L		115	90 - 110	3	20

Method: 410.4 - COD

Lab Sample ID: MB 480-372288/27 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/15/17 19:03	1

Lab Sample ID: MB 480-372288/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/15/17 19:03	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-372288/28
Matrix: Water
Analysis Batch: 372288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.38		mg/L		98	90 - 110

Lab Sample ID: LCS 480-372288/4
Matrix: Water
Analysis Batch: 372288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.69		mg/L		99	90 - 110

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372288

Client Sample ID: MW-27DMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	46.2		50.0	108.6		mg/L		125	75 - 125

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372288

Client Sample ID: MW-27DMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	46.2		50.0	108.3		mg/L		124	75 - 125	0	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-372649/1-A
Matrix: Water
Analysis Batch: 372905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/17/17 14:10	08/18/17 12:52	1

Lab Sample ID: LCS 480-372649/2-A
Matrix: Water
Analysis Batch: 372905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.268		mg/L		107	90 - 110

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372905

Client Sample ID: MW-27DMS
Prep Type: Total/NA
Prep Batch: 372649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.14		0.100	0.242		mg/L		104	90 - 110

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 480-122690-1 MSD — **Client Sample ID: MW-27DMSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372905 — **Prep Batch: 372649**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.14		0.100	0.241		mg/L		103	90 - 110	0	15

Lab Sample ID: MB 480-372798/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372969 — **Prep Batch: 372798**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/18/17 09:41	08/19/17 09:18	1

Lab Sample ID: LCS 480-372798/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372969 — **Prep Batch: 372798**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.261		mg/L		104	90 - 110

Lab Sample ID: 480-122690-1 MS — **Client Sample ID: MW-27DMS**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 372969 — **Prep Batch: 372798**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.17	F1	0.100	0.280		mg/L		109	90 - 110

Lab Sample ID: 480-122690-1 MSD — **Client Sample ID: MW-27DMSD**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 372969 — **Prep Batch: 372798**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.17	F1	0.100	0.294	F1	mg/L		123	90 - 110	5	15

Method: 9040C - pH

Lab Sample ID: 480-122690-1 DU — **Client Sample ID: MW-27D**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 372226

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.90	HF	6.910		SU		0.1	5
Temperature	22.6	HF	22.66		Degrees C		0.4	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-374036/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.0	0.53	mg/L			08/25/17 05:20	1

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: LCS 480-374036/4
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	213	224.0		mg/L		105	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-372116/1
Matrix: Water
Analysis Batch: 372116

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/15/17 05:47	1

Lab Sample ID: LCS 480-372116/2
Matrix: Water
Analysis Batch: 372116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	512	490.0		mg/L		96	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-372294/1
Matrix: Water
Analysis Batch: 372294

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/15/17 23:17	1

Lab Sample ID: LCS 480-372294/2
Matrix: Water
Analysis Batch: 372294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	256	258.4		mg/L		101	88 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-372269/1
Matrix: Water
Analysis Batch: 372269

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/15/17 14:43	1

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: LCS 480-372269/2
Matrix: Water
Analysis Batch: 372269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	184.8		mg/L		93	85 - 115

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372269

Client Sample ID: MW-27DMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	9.9		198	168.6		mg/L		80	51 - 143

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372269

Client Sample ID: MW-27DMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	9.9		198	174.0		mg/L		83	51 - 143	3	20

Lab Sample ID: USB 480-372270/1
Matrix: Water
Analysis Batch: 372270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/15/17 14:43	1

Lab Sample ID: LCS 480-372270/2
Matrix: Water
Analysis Batch: 372270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	189.1		mg/L		95	85 - 115

Lab Sample ID: 480-122690-1 MS
Matrix: Water
Analysis Batch: 372270

Client Sample ID: MW-27DMS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	9.3		198	176.4		mg/L		84	51 - 143

Lab Sample ID: 480-122690-1 MSD
Matrix: Water
Analysis Batch: 372270

Client Sample ID: MW-27DMSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	9.3		198	180.6		mg/L		87	51 - 143	2	20

GC/MS VOA

Analysis Batch: 372429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	624	
MB 480-372429/7	Method Blank	Total/NA	Water	624	
LCS 480-372429/5	Lab Control Sample	Total/NA	Water	624	
480-122690-1 MS	MW-27DMS	Total/NA	Water	624	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 372461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	625	
MB 480-372461/1-A	Method Blank	Total/NA	Water	625	
LCS 480-372461/2-A	Lab Control Sample	Total/NA	Water	625	
480-122690-1 MS	MW-27DMS	Total/NA	Water	625	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	625	

Analysis Batch: 373121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-372461/1-A	Method Blank	Total/NA	Water	625	372461

Analysis Batch: 374116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	625	372461
LCS 480-372461/2-A	Lab Control Sample	Total/NA	Water	625	372461
480-122690-1 MS	MW-27DMS	Total/NA	Water	625	372461
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	625	372461

GC Semi VOA

Prep Batch: 372457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	3510C	
MB 480-372457/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372457/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-122690-1 MS	MW-27DMS	Total/NA	Water	3510C	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	3510C	

Analysis Batch: 372582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	608	372457
MB 480-372457/1-A	Method Blank	Total/NA	Water	608	372457
LCS 480-372457/2-A	Lab Control Sample	Total/NA	Water	608	372457
480-122690-1 MS	MW-27DMS	Total/NA	Water	608	372457
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	608	372457

Prep Batch: 372759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	3510C	
MB 480-372759/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372759/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 372759 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1 MS	MW-27DMS	Total/NA	Water	3510C	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	3510C	

Analysis Batch: 373562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	608	372759
MB 480-372759/1-A	Method Blank	Total/NA	Water	608	372759
LCS 480-372759/2-A	Lab Control Sample	Total/NA	Water	608	372759
480-122690-1 MS	MW-27DMS	Total/NA	Water	608	372759
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	608	372759

Metals

Prep Batch: 372138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	7470A	
MB 480-372138/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-372138/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-122690-1 MS	MW-27DMS	Total/NA	Water	7470A	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	7470A	

Prep Batch: 372314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	3005A	
MB 480-372314/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-372314/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-122690-1 MS	MW-27DMS	Total/NA	Water	3005A	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	3005A	

Filtration Batch: 372354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Dissolved	Water	FILTRATION	
MB 480-372354/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-372354/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-372354/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-372354/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
480-122690-1 MS	MW-27DMS	Dissolved	Water	FILTRATION	
480-122690-1 MSD	MW-27DMSD	Dissolved	Water	FILTRATION	

Analysis Batch: 372391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	7470A	372138
MB 480-372138/1-A	Method Blank	Total/NA	Water	7470A	372138
LCS 480-372138/2-A	Lab Control Sample	Total/NA	Water	7470A	372138
480-122690-1 MS	MW-27DMS	Total/NA	Water	7470A	372138
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	7470A	372138

Analysis Batch: 372573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	6010C	372314

Metals (Continued)

Analysis Batch: 372573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-372314/1-A	Method Blank	Total/NA	Water	6010C	372314
LCS 480-372314/2-A	Lab Control Sample	Total/NA	Water	6010C	372314
480-122690-1 MS	MW-27DMS	Total/NA	Water	6010C	372314
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	6010C	372314

Prep Batch: 372580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Dissolved	Water	3005A	372354
MB 480-372354/1-B	Method Blank	Dissolved	Water	3005A	372354
LCS 480-372354/2-B	Lab Control Sample	Dissolved	Water	3005A	372354
480-122690-1 MS	MW-27DMS	Dissolved	Water	3005A	372354
480-122690-1 MSD	MW-27DMSD	Dissolved	Water	3005A	372354

Prep Batch: 372585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Dissolved	Water	7470A	372354
MB 480-372354/1-C	Method Blank	Dissolved	Water	7470A	372354
LCS 480-372354/2-C	Lab Control Sample	Dissolved	Water	7470A	372354
480-122690-1 MS	MW-27DMS	Dissolved	Water	7470A	372354
480-122690-1 MSD	MW-27DMSD	Dissolved	Water	7470A	372354

Analysis Batch: 372684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Dissolved	Water	7470A	372585
MB 480-372354/1-C	Method Blank	Dissolved	Water	7470A	372585
LCS 480-372354/2-C	Lab Control Sample	Dissolved	Water	7470A	372585
480-122690-1 MS	MW-27DMS	Dissolved	Water	7470A	372585
480-122690-1 MSD	MW-27DMSD	Dissolved	Water	7470A	372585

Analysis Batch: 372808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Dissolved	Water	6010C	372580
MB 480-372354/1-B	Method Blank	Dissolved	Water	6010C	372580
LCS 480-372354/2-B	Lab Control Sample	Dissolved	Water	6010C	372580
480-122690-1 MS	MW-27DMS	Dissolved	Water	6010C	372580
480-122690-1 MSD	MW-27DMSD	Dissolved	Water	6010C	372580

Analysis Batch: 372813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-372314/1-A	Method Blank	Total/NA	Water	6010C	372314

General Chemistry

Analysis Batch: 372116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	SM 2540C	
MB 480-372116/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-372116/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 372226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	9040C	
LCS 480-372226/1	Lab Control Sample	Total/NA	Water	9040C	
480-122690-1 DU	MW-27D	Total/NA	Water	9040C	

Analysis Batch: 372269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	SM 5210B	
USB 480-372269/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372269/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122690-1 MS	MW-27DMS	Total/NA	Water	SM 5210B	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	SM 5210B	

Analysis Batch: 372270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	SM 5210B	
USB 480-372270/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372270/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122690-1 MS	MW-27DMS	Total/NA	Water	SM 5210B	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	SM 5210B	

Analysis Batch: 372288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	410.4	
MB 480-372288/27	Method Blank	Total/NA	Water	410.4	
MB 480-372288/3	Method Blank	Total/NA	Water	410.4	
LCS 480-372288/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-372288/4	Lab Control Sample	Total/NA	Water	410.4	
480-122690-1 MS	MW-27DMS	Total/NA	Water	410.4	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	410.4	

Analysis Batch: 372294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	SM 2540D	
MB 480-372294/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-372294/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 372333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	351.2	
MB 480-372333/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-372333/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-122690-1 MS	MW-27DMS	Total/NA	Water	351.2	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	351.2	

Prep Batch: 372649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	9012B	
MB 480-372649/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-372649/2-A	Lab Control Sample	Total/NA	Water	9012B	
480-122690-1 MS	MW-27DMS	Total/NA	Water	9012B	
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	9012B	

Analysis Batch: 372654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	351.2	372333
MB 480-372333/1-A	Method Blank	Total/NA	Water	351.2	372333
LCS 480-372333/2-A	Lab Control Sample	Total/NA	Water	351.2	372333
480-122690-1 MS	MW-27DMS	Total/NA	Water	351.2	372333
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	351.2	372333

Filtration Batch: 372796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Dissolved	Water	Filtration	
480-122690-1 MS	MW-27DMS	Dissolved	Water	Filtration	
480-122690-1 MSD	MW-27DMSD	Dissolved	Water	Filtration	

Prep Batch: 372798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Dissolved	Water	9012B	372796
MB 480-372798/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-372798/2-A	Lab Control Sample	Total/NA	Water	9012B	
480-122690-1 MS	MW-27DMS	Dissolved	Water	9012B	372796
480-122690-1 MSD	MW-27DMSD	Dissolved	Water	9012B	372796

Analysis Batch: 372905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	9012B	372649
MB 480-372649/1-A	Method Blank	Total/NA	Water	9012B	372649
LCS 480-372649/2-A	Lab Control Sample	Total/NA	Water	9012B	372649
480-122690-1 MS	MW-27DMS	Total/NA	Water	9012B	372649
480-122690-1 MSD	MW-27DMSD	Total/NA	Water	9012B	372649

Analysis Batch: 372969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Dissolved	Water	9012B	372798
MB 480-372798/1-A	Method Blank	Total/NA	Water	9012B	372798
LCS 480-372798/2-A	Lab Control Sample	Total/NA	Water	9012B	372798
480-122690-1 MS	MW-27DMS	Dissolved	Water	9012B	372798
480-122690-1 MSD	MW-27DMSD	Dissolved	Water	9012B	372798

Prep Batch: 373481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	1664B	
MB 480-373481/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-373481/2-A	Lab Control Sample	Total/NA	Water	1664B	
480-122690-1 MS	MW-27D	Total/NA	Water	1664B	

Analysis Batch: 373566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	1664B	373481
MB 480-373481/1-A	Method Blank	Total/NA	Water	1664B	373481
LCS 480-373481/2-A	Lab Control Sample	Total/NA	Water	1664B	373481
480-122690-1 MS	MW-27D	Total/NA	Water	1664B	373481

Analysis Batch: 374036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122690-1	MW-27D	Total/NA	Water	SM 2340C	

General Chemistry (Continued)

Analysis Batch: 374036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-374036/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-374036/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122690-1

Client Sample ID: MW-27D

Date Collected: 08/14/17 09:35
Date Received: 08/15/17 01:30

Lab Sample ID: 480-122690-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	372429	08/16/17 17:36	RJF	TAL BUF
Total/NA	Prep	625			372461	08/16/17 14:31	SMP	TAL BUF
Total/NA	Analysis	625		5	374116	08/27/17 19:30	PJQ	TAL BUF
Total/NA	Prep	3510C			372759	08/18/17 07:29	JMP	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 15:46	JMO	TAL BUF
Total/NA	Prep	3510C			372457	08/16/17 14:17	SMP	TAL BUF
Total/NA	Analysis	608		1	372582	08/17/17 12:14	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	3005A			372580	08/17/17 09:47	EMB	TAL BUF
Dissolved	Analysis	6010C		1	372808	08/17/17 19:25	LMH	TAL BUF
Total/NA	Prep	3005A			372314	08/16/17 08:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	372573	08/16/17 21:44	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	7470A			372585	08/17/17 10:00	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	372684	08/17/17 13:50	MVZ	TAL BUF
Total/NA	Prep	7470A			372138	08/15/17 08:27	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372391	08/15/17 14:18	MVZ	TAL BUF
Total/NA	Prep	1664B			373481	08/23/17 09:23	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373566	08/23/17 09:23	DSC	TAL BUF
Total/NA	Prep	351.2			372333	08/16/17 08:12	CLT	TAL BUF
Total/NA	Analysis	351.2		1	372654	08/17/17 08:46	CLT	TAL BUF
Total/NA	Analysis	410.4		1	372288	08/15/17 19:03	CDC	TAL BUF
Dissolved	Filtration	Filtration			372796	08/18/17 09:39	JCL	TAL BUF
Dissolved	Prep	9012B			372798	08/18/17 09:41	JCL	TAL BUF
Dissolved	Analysis	9012B		1	372969	08/19/17 09:27	KRT	TAL BUF
Total/NA	Prep	9012B			372649	08/17/17 14:10	JCL	TAL BUF
Total/NA	Analysis	9012B		1	372905	08/18/17 13:15	KRT	TAL BUF
Total/NA	Analysis	9040C		1	372226	08/15/17 13:05	DSC	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	372116	08/15/17 05:47	BEV	TAL BUF
Total/NA	Analysis	SM 2540D		1	372294	08/15/17 23:17	BEV	TAL BUF
Total/NA	Analysis	SM 5210B		1	372269	08/15/17 14:43	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	372270	08/15/17 14:43	ALZ	TAL BUF

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
TestAmerica Job ID: 480-122690-1
Project/Site: National Grid - North Albany Project

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,2-Diphenylhydrazine
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
9040C		Water	pH
9040C		Water	Temperature

Laboratory: EMLab P&K - Houston TCEQ Cert T104704489

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
AIHA-LAP, LLC	EMLAP		193549	01-01-18
Texas	NELAP	6	T104704489-17-10	07-31-18

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122690-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
Local Method	General Sub Contract Method	NONE	EMLab Hou

Protocol References:

1664B = 1664B

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122690-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-122690-1	MW-27D	Water	08/14/17 09:35	08/15/17 01:30

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122690

Date of Sampling: 08-14-2017
Date of Receipt: 08-16-2017
Date of Report: 08-31-2017

Slime Forming Bacteria Presence/Absence Report

Location:	MW-27D (480-122690-1)
Comments (see below)	None
Lab ID-Version‡:	8307018-1
Sample Type	Water
Slime Forming Bacteria	**Absent**

Comments:

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Dayo
Re: 480-122690

Date of Sampling: 08/14/2017
Date of Receipt: 08/16/2017
Date of Report: 08/17/2017

Iron Bacteria Presence/Absence Report

Location:	MW-27D (480-122690-1)
Comments (see below)	A
Lab ID-Version‡:	8307017-1
Sample Type	Water
Iron Bacteria	**Present**

Comments: A) Iron bacteria method: SM chapter 9240B., 20th edition.

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
A TestAmerica Company

Report for:

Melissa Deyo
TestAmerica-Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Regarding: Project: 480-122690
EML ID: 1777593

Approved by:



Technical Manager
Magzoub Ismail

Dates of Analysis:
MPN-Sulfate reducing bacteria: 09-06-2017

Service SOPs: MPN-Sulfate reducing bacteria (EM-BT-S-1059)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122690

Date of Sampling: 08-14-2017
Date of Receipt: 08-16-2017
Date of Report: 09-07-2017

MPN REPORT

Location: MW-27D (480-122690-1) Lab ID-Version‡: 8307019-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	**Method**	**Setup Time**	**MPN*/Unit**	**LCL****	**UCL****
Sulfate-reducing Bacteria	SM 9240 D	08/16/17 16:00	< 3	-	21

Comments:

*MPN - Most Probable Number.
MPN methods:
SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.
FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.
MPN values are calculated using the method of Thomas (1942).
The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, non-clustered, bacteria not attached to particulate matter within a sample. Due to the fact that bacteria can cluster and adhere to materials, values determined by the MPN method should be considered estimates in many instances.
**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM).
Interpretation is left to the company and/or persons who conducted the field work.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmericc

480-122690 COC

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier:	COC No: 480-100780-23982.3
Client Contact: Aubrey Thomas	Phone: (518) 346-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 3 of 3
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065				
Phone: (518) 250-7360	PO #: B0036648.1401.00006			
Email: Aubrey.Thomas@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid- North Albany	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624_6ml - Priority Pollutant List - VOCs	608_Past - Priority Pollutant Pesticides	626 - Priority Pollutant List - SVOCs	608_PCB - Priority Pollutant PCBs	9012_ReactiveCN, 9034_Reactive	9040C - pH	1010A - Ignitability	6010C, 7470A	6010C, 7470A	9012B - Cyanide	9012B - Dissolved Cyanide	1664B - O&G	2540D - TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	N	N	D	N	B	N	S	N		
MW-27P	8/14/17	0935	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
MS	8/14/17	0935	G	Water	N	N	3	2	2	2				1	1	1	1				
MSD	8/14/17	0935	G	Water	N	N	3	2	2	2				1	1	1	1				
				Water																	
				Water																	
				Water																	

8/14/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8/14/17 1545	Arcadis	[signature]	8-14-17 1545	TA
2	TIM Knollman	8-14-17 1800	TA	[signature]	8-15-17 0130	TAS
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2, 0.4, 0.3, 0.6 #1

9/19/2017

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

Client Information

Sampler: Aubrey Thomas
Phone: (518) 398-7296
Lab PM: Deyo, Melissa L
E-Mail: melissa.deyo@testamericainc.com
Carrier Tracking No(s):
COC No: 480-100780-23982.4
Page: Page 4 of 3

Client Contact: Aubrey Thomas
Company: ARCADIS U.S. Inc
Address: 855 Route 146 Suite 210
City: Clifton Park
State, Zip: NY, 12065
Phone: (518) 250-7300
Email: Aubrey.Thomas@arcadis.com
Project Name: National Grid - North Albany Project
Site:

Due Date Requested:
TAT Requested (days): Standard
PO #: B0036648.1401.00006
WO #:
Project #: 48016528
SSOW#:

Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	5210B - BOD	351.2, 410.4	2340C - Hardness	SUBCONTRACT - Iron reducing bacteria	SUBCONTRACT - Slime forming bacteria	SUBCONTRACT - Sulfate reduing bacteria	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	S	D	N	N	N		
MW-27D	8/14/17	0935	G	Water	N	N	1	1	1	1	1	1	1		
MS	8/14/17	0935	G	Water	N	N		1	1						
MSD	8/14/17	0935	G	Water	N	N		1	1						
				Water											
				Water											
				Water											

8/14/17

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	8/14/17 1545	Arcadis	Received by:	8-14-17 1545	TA
Relinquished by:	8-14-17 1800	TA	Received by:	8-15-17 0130	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 0.7, 0.8, 0.9 #1

Page 54 of 56
9/19/2017

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Temp: 4.4°C with ice

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-36633.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: EMLab P&K		Accreditations Required (See note): NELAP - New York		Job #: 480-122690-1
Address: Subcont.report available upon request, 6310 Rothway,	Due Date Requested: 8/25/2017			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77040				
Phone:	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

001777593

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Oil, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (BioActivity - Iron-Reducing Bacteria)	SUB (BioActivity - Slime-Forming Bacteria)	SUB (BioActivity - Sulfate-Reducing Bacteria)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-27D (480-122690-1)	6/14/17	09:35 Eastern		Water			X	X	X		

I - Ice
J - DI Water
K - EDTA
L - EDA
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 8/15/17 1600	Company: TAS	Received by:	Date/Time: 08/16/17 10:00	Company: TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/19/2017

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-122690-1

Login Number: 122690

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-122740-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/20/2017 3:16:10 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
b	Result Detected in the Unseeded Control blank (USB).
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-122740-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-122740-1

Receipt
The samples were received on 8/16/2017 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.2º C, 0.3º C, 0.4º C, 0.6º C, 0.7º C and 0.9º C.

GC/MS VOA
Method(s) 624: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: MW-28S (480-122740-1), DUP-01 (480-122740-2) and MW-28D (480-122740-3). The requested target analyte list contains 2-chloroethyl vinyl ether, which is an acid-labile compound that degrade in an acidic medium.

Method(s) 624: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-28S (480-122740-1) and DUP-01 (480-122740-2). Elevated reporting limits (RLs) are provided.

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-28D (480-122740-3). Elevated reporting limits (RLs) are provided.

Method(s) 624: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-28S (480-122740-1) and DUP-01 (480-122740-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-28S (480-122740-1), DUP-01 (480-122740-2) and MW-28D (480-122740-3). Elevated reporting limits (RLs) are provided.

Method(s) 625: The following samples required a dilution due to the abundance of target analytes: MW-28S (480-122740-1) and DUP-01 (480-122740-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 608: All primary data for analytical batch 373562 is reported from the ZB-35 column.

Method(s) 608: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 608: All primary data for analytical batch 372582 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The following samples were diluted due to the presence of Dissolved Sulfur which interferes with Lead: MW-28S (480-122740-1) and DUP-01 (480-122740-2). Elevated reporting limits (RLs) are provided.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-372809/52) contained Total Potassium outside the control limits. All reported samples MW-28S (480-122740-1), DUP-01 (480-122740-2) and MW-28D (480-122740-3) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The following samples were diluted due to the presence of Total Sulfur which interferes with Lead: MW-28S (480-122740-1) and DUP-01 (480-122740-2). Elevated reporting limits (RLs) are provided.

Job ID: 480-122740-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-28S (480-122740-1), DUP-01 (480-122740-2) and MW-28D (480-122740-3). The reporting limits (RLs) have been adjusted proportionately.

Method(s) SM 5210B: There exists a greater than 30% RPD between the highest and lowest result used to calculate the average result: MW-28D (480-122740-3).

Method(s) SM 5210B: There exists a greater than 30% RPD between the highest and the lowest result used to calculate the average result for Carbonaceous Biochemical Oxygen Demand. MW-28D (480-122740-3)

Method(s) SM 5210B: There exists a greater than 30% RPD between the highest and lowest result used to calculate the average result: DUP-01 (480-122740-2).

Method(s) SM 5210B: The following BOD samples was re-analyzed outside of analytical holding time due to overdepletion of oxygen in the sample dilutions: MW-28S (480-122740-1) and DUP-01 (480-122740-2). Both sets of data are reported.

Method(s) SM 5210B: The residual D.O. in samples MW-28S (480-122740-1) and DUP-01 (480-122740-2) was < 1.0 mg/L in all dilutions tested; they were over depleted. Results for Biochemical Oxygen Demand were reported, but they may be biased low.

Method(s) SM 5210B: The residual D.O. was < 1.0 mg/L in all dilutions tested; they were over depleted. Results for Carbonaceous Biochemical Oxygen Demand were reported, but they may be biased low. MW-28S (480-122740-1), DUP-01 (480-122740-2) and (480-122740-J-1 DU)

Method(s) SM 5210B: The following Carbonaceous Biochemical Oxygen Demand samples was re-analyzed outside of analytical holding time due to overdepletion of oxygen in the sample dilutions: MW-28S (480-122740-1) and DUP-01 (480-122740-2). Both sets of data are reported.

Method(s) SM 5210B: There exists a greater than 30% RPD between the highest and lowest result used to calculate the average result for Carbonaceous Biochemical Oxygen Demand. DUP-01 (480-122740-2)

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-28D (480-122740-3).

Method(s) 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-28S (480-122740-1) and DUP-01 (480-122740-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: During pH adjustment, the following samples required 1 mL of acid to reach the desired pH: MW-28S (480-122740-1) and DUP-01 (480-122740-2). Most samples take less than 1 mL to reach the desired range.

Method(s) 3510C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-28S (480-122740-1) and DUP-01 (480-122740-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Client Sample ID: MW-28S — Lab Sample ID: 480-122740-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	400		50	6.0	ug/L	10		624	Total/NA
Ethylbenzene	1700	E	50	4.6	ug/L	10		624	Total/NA
Toluene	500		50	4.5	ug/L	10		624	Total/NA
Benzene - DL	410		200	24	ug/L	40		624	Total/NA
Ethylbenzene - DL	1800		200	19	ug/L	40		624	Total/NA
Methylene Chloride - DL	35	J	200	33	ug/L	40		624	Total/NA
Toluene - DL	500		200	18	ug/L	40		624	Total/NA
Acenaphthylene	290	J	480	83	ug/L	100		625	Total/NA
Naphthalene	8500		480	82	ug/L	100		625	Total/NA
Endosulfan I	0.027	J	0.048	0.010	ug/L	1		608	Total/NA
Aluminum	0.073	J	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.0058	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.099		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	544		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0012	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0047		0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	1.1		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.0013	J	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0057	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	35.5	^	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	994		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0015	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Barium	0.096		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	530		0.50	0.10	mg/L	1		6010C	Dissolved
Cobalt	0.0046		0.0040	0.00063	mg/L	1		6010C	Dissolved
Iron	1.0		0.050	0.019	mg/L	1		6010C	Dissolved
Nickel	0.0046	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	34.4	B	0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	962		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0059	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Mercury	0.0015		0.00020	0.00012	mg/L	1		7470A	Total/NA
Mercury	0.0014		0.00020	0.00012	mg/L	1		7470A	Dissolved
Oil & Grease	2.6	J	5.6	1.6	mg/L	1		1664B	Total/NA
Total Kjeldahl Nitrogen	6.4		0.40	0.30	mg/L	2		351.2	Total/NA
Chemical Oxygen Demand	199		50.0	25.0	mg/L	5		410.4	Total/NA
Cyanide, Total	2.9		0.10	0.050	mg/L	10		9012B	Total/NA
Hardness as calcium carbonate	1500		20.0	5.3	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	5250		100	40.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	>35.76		12.0	12.0	mg/L	1		SM 5210B	Total/NA
Carbonaceous Biochemical Oxygen Demand	>39.45		12.0	12.0	mg/L	1		SM 5210B	Total/NA
Biochemical Oxygen Demand - RA	36.2	H b	24.0	24.0	mg/L	1		SM 5210B	Total/NA
Carbonaceous Biochemical Oxygen Demand - RA	40.2	H b	12.0	12.0	mg/L	1		SM 5210B	Total/NA
Cyanide, Total	2.7		0.10	0.050	mg/L	10		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	11.6	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	21.2	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Suspended Solids	4.0		4.0	4.0	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Client Sample ID: DUP-01 — Lab Sample ID: 480-122740-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	380		50	6.0	ug/L	10		624	Total/NA
Ethylbenzene	1500	E	50	4.6	ug/L	10		624	Total/NA
Toluene	460		50	4.5	ug/L	10		624	Total/NA
Benzene - DL	370		200	24	ug/L	40		624	Total/NA
Ethylbenzene - DL	1700		200	19	ug/L	40		624	Total/NA
Toluene - DL	470		200	18	ug/L	40		624	Total/NA
Acenaphthylene	330	J	480	83	ug/L	100		625	Total/NA
Naphthalene	10000		480	82	ug/L	100		625	Total/NA
Aldrin	0.026	J	0.048	0.0077	ug/L	1		608	Total/NA
Barium	0.10		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	558		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0048		0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	1.1		0.050	0.019	mg/L	1		6010C	Total/NA
Nickel	0.0043	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	36.3	^	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1020		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0015	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0018	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.099		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	545		0.50	0.10	mg/L	1		6010C	Dissolved
Cobalt	0.0047		0.0040	0.00063	mg/L	1		6010C	Dissolved
Iron	1.0		0.050	0.019	mg/L	1		6010C	Dissolved
Nickel	0.0045	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	35.3	B	0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	993		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.014	B	0.010	0.0015	mg/L	1		6010C	Dissolved
Mercury	0.0016		0.00020	0.00012	mg/L	1		7470A	Total/NA
Mercury	0.0014		0.00020	0.00012	mg/L	1		7470A	Dissolved
Oil & Grease	2.3	J	5.4	1.5	mg/L	1		1664B	Total/NA
Total Kjeldahl Nitrogen	6.3		0.40	0.30	mg/L	2		351.2	Total/NA
Chemical Oxygen Demand	177		50.0	25.0	mg/L	5		410.4	Total/NA
Cyanide, Total	3.4		0.10	0.050	mg/L	10		9012B	Total/NA
Hardness as calcium carbonate	1500		20.0	5.3	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	5510		100	40.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	>39.30		12.0	12.0	mg/L	1		SM 5210B	Total/NA
Carbonaceous Biochemical Oxygen Demand	>34.71		12.0	12.0	mg/L	1		SM 5210B	Total/NA
Biochemical Oxygen Demand - RA	34.7	H b	24.0	24.0	mg/L	1		SM 5210B	Total/NA
Carbonaceous Biochemical Oxygen Demand - RA	43.6	H b	12.0	12.0	mg/L	1		SM 5210B	Total/NA
Cyanide, Total	2.9		0.10	0.050	mg/L	10		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	11.6	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	21.1	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

Client Sample ID: MW-28D — Lab Sample ID: 480-122740-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	81		10	1.2	ug/L	2		624	Total/NA
Ethylbenzene	85		10	0.93	ug/L	2		624	Total/NA
Acenaphthene	24	J	48	7.7	ug/L	10		625	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample ID: MW-28D (Continued)

Lab Sample ID: 480-122740-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	410		48	8.2	ug/L	10		625	Total/NA
alpha-BHC	0.015	J B	0.048	0.0073	ug/L	1		608	Total/NA
Arsenic	0.011	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	8.9		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	270		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	1.8		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0042	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	52.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	3.0		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	12.0	^	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	576		1.0	0.32	mg/L	1		6010C	Total/NA
Arsenic	0.0077	J	0.015	0.0056	mg/L	1		6010C	Dissolved
Barium	8.7		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	260		0.50	0.10	mg/L	1		6010C	Dissolved
Iron	0.22		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	50.9		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	2.9		0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	11.6	B	0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	553		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.021	B	0.010	0.0015	mg/L	1		6010C	Dissolved
Oil & Grease	1.8	J	5.7	1.6	mg/L	1		1664B	Total/NA
SGT-HEM	2.5	J	5.7	2.2	mg/L	1		1664B	Total/NA
Total Kjeldahl Nitrogen	7.0		0.40	0.30	mg/L	2		351.2	Total/NA
Chemical Oxygen Demand	40.5		10.0	5.0	mg/L	1		410.4	Total/NA
Cyanide, Total	0.43		0.010	0.0050	mg/L	1		9012B	Total/NA
Hardness as calcium carbonate	940		20.0	5.3	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	2980		40.0	16.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	5.2	b	2.0	2.0	mg/L	1		SM 5210B	Total/NA
Carbonaceous Biochemical Oxygen Demand	5.0	b	2.0	2.0	mg/L	1		SM 5210B	Total/NA
Cyanide, Total	0.63		0.020	0.010	mg/L	2		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.48	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	23.9	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Suspended Solids	6.4		4.0	4.0	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-28S

Date Collected: 08/15/17 10:15
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		1000	170	ug/L			08/16/17 21:36	10
Acrylonitrile	ND		500	19	ug/L			08/16/17 21:36	10
Benzene	**400**		50	6.0	ug/L			08/16/17 21:36	10
Dichlorobromomethane	ND		50	5.4	ug/L			08/16/17 21:36	10
Bromoform	ND		50	4.7	ug/L			08/16/17 21:36	10
Bromomethane	ND		50	12	ug/L			08/16/17 21:36	10
Carbon tetrachloride	ND		50	5.1	ug/L			08/16/17 21:36	10
Chlorobenzene	ND		50	4.8	ug/L			08/16/17 21:36	10
Chloroethane	ND		50	8.7	ug/L			08/16/17 21:36	10
2-Chloroethyl vinyl ether	ND		250	19	ug/L			08/16/17 21:36	10
Chloroform	ND		50	5.4	ug/L			08/16/17 21:36	10
Chloromethane	ND		50	6.4	ug/L			08/16/17 21:36	10
Chlorodibromomethane	ND		50	4.1	ug/L			08/16/17 21:36	10
1,1-Dichloroethane	ND		50	5.9	ug/L			08/16/17 21:36	10
1,2-Dichloroethane	ND		50	6.0	ug/L			08/16/17 21:36	10
1,1-Dichloroethene	ND		50	8.5	ug/L			08/16/17 21:36	10
trans-1,2-Dichloroethene	ND		50	5.9	ug/L			08/16/17 21:36	10
1,2-Dichloropropane	ND		50	6.1	ug/L			08/16/17 21:36	10
cis-1,3-Dichloropropene	ND		50	3.3	ug/L			08/16/17 21:36	10
trans-1,3-Dichloropropene	ND		50	4.4	ug/L			08/16/17 21:36	10
Ethylbenzene	**1700**	**E**	50	4.6	ug/L			08/16/17 21:36	10
Methylene Chloride	ND		50	8.1	ug/L			08/16/17 21:36	10
1,1,2,2-Tetrachloroethane	ND		50	2.6	ug/L			08/16/17 21:36	10
Tetrachloroethene	ND		50	3.4	ug/L			08/16/17 21:36	10
Toluene	**500**		50	4.5	ug/L			08/16/17 21:36	10
1,1,1-Trichloroethane	ND		50	3.9	ug/L			08/16/17 21:36	10
1,1,2-Trichloroethane	ND		50	4.8	ug/L			08/16/17 21:36	10
Trichloroethene	ND		50	6.0	ug/L			08/16/17 21:36	10
Vinyl chloride	ND		50	7.5	ug/L			08/16/17 21:36	10
1,2-Dichlorobenzene	ND		50	4.4	ug/L			08/16/17 21:36	10
1,2-Dichloroethene, Total	ND		100	32	ug/L			08/16/17 21:36	10
1,3-Dichlorobenzene	ND		50	5.4	ug/L			08/16/17 21:36	10
1,4-Dichlorobenzene	ND		50	5.1	ug/L			08/16/17 21:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*08/16/17 21:36*	*10*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*08/16/17 21:36*	*10*
Toluene-d8 (Surr)	*103*		*77 - 120*		*08/16/17 21:36*	*10*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*08/16/17 21:36*	*10*

Method: 624 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		4000	700	ug/L			08/17/17 16:50	40
Acrylonitrile	ND		2000	76	ug/L			08/17/17 16:50	40
Benzene	**410**		200	24	ug/L			08/17/17 16:50	40
Dichlorobromomethane	ND		200	21	ug/L			08/17/17 16:50	40
Bromoform	ND		200	19	ug/L			08/17/17 16:50	40
Bromomethane	ND		200	48	ug/L			08/17/17 16:50	40
Carbon tetrachloride	ND		200	20	ug/L			08/17/17 16:50	40
Chlorobenzene	ND		200	19	ug/L			08/17/17 16:50	40

Client Sample ID: MW-28S
Date Collected: 08/15/17 10:15
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		200	35	ug/L			08/17/17 16:50	40
2-Chloroethyl vinyl ether	ND		1000	74	ug/L			08/17/17 16:50	40
Chloroform	ND		200	22	ug/L			08/17/17 16:50	40
Chloromethane	ND		200	25	ug/L			08/17/17 16:50	40
Chlorodibromomethane	ND		200	17	ug/L			08/17/17 16:50	40
1,1-Dichloroethane	ND		200	24	ug/L			08/17/17 16:50	40
1,2-Dichloroethane	ND		200	24	ug/L			08/17/17 16:50	40
1,1-Dichloroethene	ND		200	34	ug/L			08/17/17 16:50	40
trans-1,2-Dichloroethene	ND		200	24	ug/L			08/17/17 16:50	40
1,2-Dichloropropane	ND		200	24	ug/L			08/17/17 16:50	40
cis-1,3-Dichloropropene	ND		200	13	ug/L			08/17/17 16:50	40
trans-1,3-Dichloropropene	ND		200	18	ug/L			08/17/17 16:50	40
Ethylbenzene	**1800**		200	19	ug/L			08/17/17 16:50	40
Methylene Chloride	**35**	**J**	200	33	ug/L			08/17/17 16:50	40
1,1,2,2-Tetrachloroethane	ND		200	10	ug/L			08/17/17 16:50	40
Tetrachloroethene	ND		200	14	ug/L			08/17/17 16:50	40
Toluene	**500**		200	18	ug/L			08/17/17 16:50	40
1,1,1-Trichloroethane	ND		200	15	ug/L			08/17/17 16:50	40
1,1,2-Trichloroethane	ND		200	19	ug/L			08/17/17 16:50	40
Trichloroethene	ND		200	24	ug/L			08/17/17 16:50	40
Vinyl chloride	ND		200	30	ug/L			08/17/17 16:50	40
1,2-Dichlorobenzene	ND		200	18	ug/L			08/17/17 16:50	40
1,2-Dichloroethene, Total	ND		400	130	ug/L			08/17/17 16:50	40
1,3-Dichlorobenzene	ND		200	22	ug/L			08/17/17 16:50	40
1,4-Dichlorobenzene	ND		200	20	ug/L			08/17/17 16:50	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*68 - 130*		*08/17/17 16:50*	*40*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*		*08/17/17 16:50*	*40*
Toluene-d8 (Surr)	*98*		*77 - 120*		*08/17/17 16:50*	*40*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*08/17/17 16:50*	*40*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		480	77	ug/L		08/16/17 14:31	08/27/17 19:56	100
Acenaphthylene	**290**	**J**	480	83	ug/L		08/16/17 14:31	08/27/17 19:56	100
Anthracene	ND		480	130	ug/L		08/16/17 14:31	08/27/17 19:56	100
Benzidine	ND		7600	3300	ug/L		08/16/17 14:31	08/27/17 19:56	100
Benzo[a]anthracene	ND		480	100	ug/L		08/16/17 14:31	08/27/17 19:56	100
Benzo[a]pyrene	ND		480	120	ug/L		08/16/17 14:31	08/27/17 19:56	100
Benzo[b]fluoranthene	ND		480	110	ug/L		08/16/17 14:31	08/27/17 19:56	100
Benzo[g,h,i]perylene	ND		480	140	ug/L		08/16/17 14:31	08/27/17 19:56	100
Benzo[k]fluoranthene	ND		480	120	ug/L		08/16/17 14:31	08/27/17 19:56	100
Bis(2-chloroethyl)ether	ND		480	89	ug/L		08/16/17 14:31	08/27/17 19:56	100
Bis(2-chloroethoxy)methane	ND		480	71	ug/L		08/16/17 14:31	08/27/17 19:56	100
bis (2-chloroisopropyl) ether	ND		480	80	ug/L		08/16/17 14:31	08/27/17 19:56	100
Bis(2-ethylhexyl) phthalate	ND		950	110	ug/L		08/16/17 14:31	08/27/17 19:56	100
4-Bromophenyl phenyl ether	ND		480	130	ug/L		08/16/17 14:31	08/27/17 19:56	100
Butyl benzyl phthalate	ND		480	100	ug/L		08/16/17 14:31	08/27/17 19:56	100
2-Chloronaphthalene	ND		480	87	ug/L		08/16/17 14:31	08/27/17 19:56	100

Client Sample ID: MW-28S
Date Collected: 08/15/17 10:15
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		480	120	ug/L		08/16/17 14:31	08/27/17 19:56	100
Chrysene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 19:56	100
Dibenz(a,h)anthracene	ND		480	140	ug/L		08/16/17 14:31	08/27/17 19:56	100
Di-n-butyl phthalate	ND		480	150	ug/L		08/16/17 14:31	08/27/17 19:56	100
1,2-Dichlorobenzene	ND		950	480	ug/L		08/16/17 14:31	08/27/17 19:56	100
1,3-Dichlorobenzene	ND		950	66	ug/L		08/16/17 14:31	08/27/17 19:56	100
1,4-Dichlorobenzene	ND		950	540	ug/L		08/16/17 14:31	08/27/17 19:56	100
3,3'-Dichlorobenzidine	ND		480	78	ug/L		08/16/17 14:31	08/27/17 19:56	100
Diethyl phthalate	ND		480	95	ug/L		08/16/17 14:31	08/27/17 19:56	100
Dimethyl phthalate	ND		480	87	ug/L		08/16/17 14:31	08/27/17 19:56	100
2,4-Dinitrotoluene	ND		950	480	ug/L		08/16/17 14:31	08/27/17 19:56	100
2,6-Dinitrotoluene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 19:56	100
Di-n-octyl phthalate	ND		480	110	ug/L		08/16/17 14:31	08/27/17 19:56	100
1,2-Diphenylhydrazine	ND		950	74	ug/L		08/16/17 14:31	08/27/17 19:56	100
Fluoranthene	ND		480	150	ug/L		08/16/17 14:31	08/27/17 19:56	100
Fluorene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 19:56	100
Hexachlorobenzene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 19:56	100
Hexachlorobutadiene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 19:56	100
Hexachlorocyclopentadiene	ND		950	480	ug/L		08/16/17 14:31	08/27/17 19:56	100
Hexachloroethane	ND		480	57	ug/L		08/16/17 14:31	08/27/17 19:56	100
Indeno[1,2,3-cd]pyrene	ND		480	140	ug/L		08/16/17 14:31	08/27/17 19:56	100
Isophorone	ND		480	70	ug/L		08/16/17 14:31	08/27/17 19:56	100
Naphthalene	**8500**		480	82	ug/L		08/16/17 14:31	08/27/17 19:56	100
Nitrobenzene	ND		480	77	ug/L		08/16/17 14:31	08/27/17 19:56	100
N-Nitrosodi-n-propylamine	ND		480	85	ug/L		08/16/17 14:31	08/27/17 19:56	100
N-Nitrosodimethylamine	ND		950	480	ug/L		08/16/17 14:31	08/27/17 19:56	100
N-Nitrosodiphenylamine	ND		480	38	ug/L		08/16/17 14:31	08/27/17 19:56	100
Phenanthrene	ND		480	110	ug/L		08/16/17 14:31	08/27/17 19:56	100
Pyrene	ND		480	130	ug/L		08/16/17 14:31	08/27/17 19:56	100
1,2,4-Trichlorobenzene	ND		950	78	ug/L		08/16/17 14:31	08/27/17 19:56	100
4-Chloro-3-methylphenol	ND		480	100	ug/L		08/16/17 14:31	08/27/17 19:56	100
2-Chlorophenol	ND		480	63	ug/L		08/16/17 14:31	08/27/17 19:56	100
2,4-Dichlorophenol	ND		480	73	ug/L		08/16/17 14:31	08/27/17 19:56	100
2,4-Dimethylphenol	ND		480	130	ug/L		08/16/17 14:31	08/27/17 19:56	100
2,4-Dinitrophenol	ND		950	480	ug/L		08/16/17 14:31	08/27/17 19:56	100
4,6-Dinitro-2-methylphenol	ND		950	63	ug/L		08/16/17 14:31	08/27/17 19:56	100
2-Nitrophenol	ND		480	67	ug/L		08/16/17 14:31	08/27/17 19:56	100
4-Nitrophenol	ND		1400	950	ug/L		08/16/17 14:31	08/27/17 19:56	100
Pentachlorophenol	ND		950	150	ug/L		08/16/17 14:31	08/27/17 19:56	100
Phenol	ND		480	33	ug/L		08/16/17 14:31	08/27/17 19:56	100
2,4,6-Trichlorophenol	ND		480	95	ug/L		08/16/17 14:31	08/27/17 19:56	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*52 - 151*	*08/16/17 14:31*	*08/27/17 19:56*	*100*
2-Fluorobiphenyl	*0*	*X*	*44 - 120*	*08/16/17 14:31*	*08/27/17 19:56*	*100*
2-Fluorophenol	*0*	*X*	*17 - 120*	*08/16/17 14:31*	*08/27/17 19:56*	*100*
Nitrobenzene-d5	*0*	*X*	*42 - 120*	*08/16/17 14:31*	*08/27/17 19:56*	*100*
Phenol-d5	*0*	*X*	*10 - 120*	*08/16/17 14:31*	*08/27/17 19:56*	*100*
p-Terphenyl-d14	*0*	*X*	*22 - 125*	*08/16/17 14:31*	*08/27/17 19:56*	*100*

Client Sample ID: MW-28S

Date Collected: 08/15/17 10:15
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-1

Matrix: Water

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.048	0.0077	ug/L		08/16/17 14:17	08/17/17 12:53	1
alpha-BHC	ND		0.048	0.0073	ug/L		08/16/17 14:17	08/17/17 12:53	1
beta-BHC	ND		0.048	0.024	ug/L		08/16/17 14:17	08/17/17 12:53	1
delta-BHC	ND		0.048	0.0095	ug/L		08/16/17 14:17	08/17/17 12:53	1
gamma-BHC (Lindane)	ND		0.048	0.0076	ug/L		08/16/17 14:17	08/17/17 12:53	1
Chlordane (technical)	ND		0.48	0.28	ug/L		08/16/17 14:17	08/17/17 12:53	1
4,4'-DDD	ND		0.048	0.0088	ug/L		08/16/17 14:17	08/17/17 12:53	1
4,4'-DDE	ND		0.048	0.011	ug/L		08/16/17 14:17	08/17/17 12:53	1
4,4'-DDT	ND		0.048	0.010	ug/L		08/16/17 14:17	08/17/17 12:53	1
Dieldrin	ND		0.048	0.0093	ug/L		08/16/17 14:17	08/17/17 12:53	1
Endosulfan I	**0.027**	**J**	0.048	0.010	ug/L		08/16/17 14:17	08/17/17 12:53	1
Endosulfan II	ND		0.048	0.011	ug/L		08/16/17 14:17	08/17/17 12:53	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		08/16/17 14:17	08/17/17 12:53	1
Endrin	ND		0.048	0.013	ug/L		08/16/17 14:17	08/17/17 12:53	1
Endrin aldehyde	ND		0.048	0.016	ug/L		08/16/17 14:17	08/17/17 12:53	1
Heptachlor	ND		0.048	0.0081	ug/L		08/16/17 14:17	08/17/17 12:53	1
Heptachlor epoxide	ND		0.048	0.0070	ug/L		08/16/17 14:17	08/17/17 12:53	1
Toxaphene	ND		0.48	0.11	ug/L		08/16/17 14:17	08/17/17 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*23 - 120*	*08/16/17 14:17*	*08/17/17 12:53*	*1*
DCB Decachlorobiphenyl	*66*		*23 - 120*	*08/16/17 14:17*	*08/17/17 12:53*	*1*
Tetrachloro-m-xylene	*98*		*44 - 120*	*08/16/17 14:17*	*08/17/17 12:53*	*1*
Tetrachloro-m-xylene	*62*		*44 - 120*	*08/16/17 14:17*	*08/17/17 12:53*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:32	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:32	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:32	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:32	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:32	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 16:32	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*36 - 121*	*08/18/17 07:29*	*08/23/17 16:32*	*1*
DCB Decachlorobiphenyl	*54*		*36 - 121*	*08/18/17 07:29*	*08/23/17 16:32*	*1*
Tetrachloro-m-xylene	*113*		*42 - 135*	*08/18/17 07:29*	*08/23/17 16:32*	*1*
Tetrachloro-m-xylene	*80*		*42 - 135*	*08/18/17 07:29*	*08/23/17 16:32*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.073**	**J**	0.20	0.060	mg/L		08/17/17 07:47	08/17/17 21:45	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 07:47	08/17/17 21:45	1
Arsenic	**0.0058**	**J**	0.015	0.0056	mg/L		08/17/17 07:47	08/17/17 21:45	1
Barium	**0.099**		0.0020	0.00070	mg/L		08/17/17 07:47	08/17/17 21:45	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 07:47	08/17/17 21:45	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 07:47	08/17/17 21:45	1
Calcium	**544**		0.50	0.10	mg/L		08/17/17 07:47	08/17/17 21:45	1

Client Sample ID: MW-28S
Date Collected: 08/15/17 10:15
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-1
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0012	J	0.0040	0.0010	mg/L		08/17/17 07:47	08/17/17 21:45	1
Cobalt	0.0047		0.0040	0.00063	mg/L		08/17/17 07:47	08/17/17 21:45	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 07:47	08/17/17 21:45	1
Iron	1.1		0.050	0.019	mg/L		08/17/17 07:47	08/17/17 21:45	1
Lead	ND		0.050	0.015	mg/L		08/17/17 07:47	08/18/17 17:18	5
Magnesium	ND		0.20	0.043	mg/L		08/17/17 07:47	08/17/17 21:45	1
Manganese	0.0013	J	0.0030	0.00040	mg/L		08/17/17 07:47	08/17/17 21:45	1
Nickel	0.0057	J	0.010	0.0013	mg/L		08/17/17 07:47	08/17/17 21:45	1
Potassium	35.5	^	0.50	0.10	mg/L		08/17/17 07:47	08/17/17 21:45	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 07:47	08/17/17 21:45	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 07:47	08/17/17 21:45	1
Sodium	994		1.0	0.32	mg/L		08/17/17 07:47	08/17/17 21:45	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 07:47	08/17/17 21:45	1
Vanadium	0.0015	J	0.0050	0.0015	mg/L		08/17/17 07:47	08/17/17 21:45	1
Zinc	ND		0.010	0.0015	mg/L		08/17/17 07:47	08/17/17 21:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 09:47	08/17/17 19:44	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 09:47	08/17/17 19:44	1
Arsenic	ND		0.015	0.0056	mg/L		08/17/17 09:47	08/17/17 19:44	1
Barium	0.096		0.0020	0.00070	mg/L		08/17/17 09:47	08/17/17 19:44	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 09:47	08/17/17 19:44	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 09:47	08/17/17 19:44	1
Calcium	530		0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:44	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 09:47	08/17/17 19:44	1
Cobalt	0.0046		0.0040	0.00063	mg/L		08/17/17 09:47	08/17/17 19:44	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 09:47	08/17/17 19:44	1
Iron	1.0		0.050	0.019	mg/L		08/17/17 09:47	08/17/17 19:44	1
Lead	ND		0.050	0.015	mg/L		08/17/17 09:47	08/18/17 16:35	5
Magnesium	ND		0.20	0.043	mg/L		08/17/17 09:47	08/17/17 19:44	1
Manganese	ND		0.0030	0.00040	mg/L		08/17/17 09:47	08/17/17 19:44	1
Nickel	0.0046	J	0.010	0.0013	mg/L		08/17/17 09:47	08/17/17 19:44	1
Potassium	34.4	B	0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:44	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 09:47	08/17/17 19:44	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 09:47	08/17/17 19:44	1
Sodium	962		1.0	0.32	mg/L		08/17/17 09:47	08/17/17 19:44	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 09:47	08/17/17 19:44	1
Vanadium	ND		0.0050	0.0015	mg/L		08/17/17 09:47	08/17/17 19:44	1
Zinc	0.0059	J B	0.010	0.0015	mg/L		08/17/17 09:47	08/17/17 19:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0015		0.00020	0.00012	mg/L		08/16/17 09:00	08/16/17 12:30	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0014		0.00020	0.00012	mg/L		08/17/17 10:00	08/17/17 13:57	1

Client Sample ID: MW-28S

Date Collected: 08/15/17 10:15
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.6	J	5.6	1.6	mg/L		08/23/17 09:23	08/23/17 09:23	1
SGT-HEM	ND		5.6	2.2	mg/L		08/23/17 09:23	08/23/17 09:23	1
Total Kjeldahl Nitrogen	6.4		0.40	0.30	mg/L		08/16/17 08:12	08/17/17 09:21	2
Chemical Oxygen Demand	199		50.0	25.0	mg/L			08/21/17 17:54	5
Cyanide, Total	2.9		0.10	0.050	mg/L		08/18/17 09:41	08/19/17 10:31	10
Hardness as calcium carbonate	1500		20.0	5.3	mg/L			08/25/17 05:20	1
Total Dissolved Solids	5250		100	40.0	mg/L			08/16/17 11:00	1
Biochemical Oxygen Demand	>35.76		12.0	12.0	mg/L			08/16/17 09:16	1
Carbonaceous Biochemical Oxygen Demand	>39.45		12.0	12.0	mg/L			08/16/17 09:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.6	HF	0.100	0.100	SU			08/21/17 15:47	1
Temperature	21.2	HF	0.00100	0.00100	Degrees C			08/21/17 15:47	1
Total Suspended Solids	4.0		4.0	4.0	mg/L			08/17/17 05:12	1

General Chemistry - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	36.2	H b	24.0	24.0	mg/L			08/22/17 15:59	1
Carbonaceous Biochemical Oxygen Demand	40.2	H b	12.0	12.0	mg/L			08/22/17 15:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.7		0.10	0.050	mg/L		08/18/17 09:41	08/19/17 11:20	10

Client Sample ID: DUP-01

Date Collected: 08/15/17 00:00
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		1000	170	ug/L			08/16/17 22:00	10
Acrylonitrile	ND		500	19	ug/L			08/16/17 22:00	10
Benzene	380		50	6.0	ug/L			08/16/17 22:00	10
Dichlorobromomethane	ND		50	5.4	ug/L			08/16/17 22:00	10
Bromoform	ND		50	4.7	ug/L			08/16/17 22:00	10
Bromomethane	ND		50	12	ug/L			08/16/17 22:00	10
Carbon tetrachloride	ND		50	5.1	ug/L			08/16/17 22:00	10
Chlorobenzene	ND		50	4.8	ug/L			08/16/17 22:00	10
Chloroethane	ND		50	8.7	ug/L			08/16/17 22:00	10
2-Chloroethyl vinyl ether	ND		250	19	ug/L			08/16/17 22:00	10
Chloroform	ND		50	5.4	ug/L			08/16/17 22:00	10
Chloromethane	ND		50	6.4	ug/L			08/16/17 22:00	10
Chlorodibromomethane	ND		50	4.1	ug/L			08/16/17 22:00	10
1,1-Dichloroethane	ND		50	5.9	ug/L			08/16/17 22:00	10
1,2-Dichloroethane	ND		50	6.0	ug/L			08/16/17 22:00	10
1,1-Dichloroethene	ND		50	8.5	ug/L			08/16/17 22:00	10
trans-1,2-Dichloroethene	ND		50	5.9	ug/L			08/16/17 22:00	10
1,2-Dichloropropane	ND		50	6.1	ug/L			08/16/17 22:00	10
cis-1,3-Dichloropropene	ND		50	3.3	ug/L			08/16/17 22:00	10

Client Sample ID: DUP-01
Date Collected: 08/15/17 00:00
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		50	4.4	ug/L			08/16/17 22:00	10
Ethylbenzene	**1500**	**E**	50	4.6	ug/L			08/16/17 22:00	10
Methylene Chloride	ND		50	8.1	ug/L			08/16/17 22:00	10
1,1,2,2-Tetrachloroethane	ND		50	2.6	ug/L			08/16/17 22:00	10
Tetrachloroethene	ND		50	3.4	ug/L			08/16/17 22:00	10
Toluene	**460**		50	4.5	ug/L			08/16/17 22:00	10
1,1,1-Trichloroethane	ND		50	3.9	ug/L			08/16/17 22:00	10
1,1,2-Trichloroethane	ND		50	4.8	ug/L			08/16/17 22:00	10
Trichloroethene	ND		50	6.0	ug/L			08/16/17 22:00	10
Vinyl chloride	ND		50	7.5	ug/L			08/16/17 22:00	10
1,2-Dichlorobenzene	ND		50	4.4	ug/L			08/16/17 22:00	10
1,2-Dichloroethene, Total	ND		100	32	ug/L			08/16/17 22:00	10
1,3-Dichlorobenzene	ND		50	5.4	ug/L			08/16/17 22:00	10
1,4-Dichlorobenzene	ND		50	5.1	ug/L			08/16/17 22:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*08/16/17 22:00*	*10*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*		*08/16/17 22:00*	*10*
Toluene-d8 (Surr)	*98*		*77 - 120*		*08/16/17 22:00*	*10*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*08/16/17 22:00*	*10*

Method: 624 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		4000	700	ug/L			08/17/17 17:14	40
Acrylonitrile	ND		2000	76	ug/L			08/17/17 17:14	40
Benzene	**370**		200	24	ug/L			08/17/17 17:14	40
Dichlorobromomethane	ND		200	21	ug/L			08/17/17 17:14	40
Bromoform	ND		200	19	ug/L			08/17/17 17:14	40
Bromomethane	ND		200	48	ug/L			08/17/17 17:14	40
Carbon tetrachloride	ND		200	20	ug/L			08/17/17 17:14	40
Chlorobenzene	ND		200	19	ug/L			08/17/17 17:14	40
Chloroethane	ND		200	35	ug/L			08/17/17 17:14	40
2-Chloroethyl vinyl ether	ND		1000	74	ug/L			08/17/17 17:14	40
Chloroform	ND		200	22	ug/L			08/17/17 17:14	40
Chloromethane	ND		200	25	ug/L			08/17/17 17:14	40
Chlorodibromomethane	ND		200	17	ug/L			08/17/17 17:14	40
1,1-Dichloroethane	ND		200	24	ug/L			08/17/17 17:14	40
1,2-Dichloroethane	ND		200	24	ug/L			08/17/17 17:14	40
1,1-Dichloroethene	ND		200	34	ug/L			08/17/17 17:14	40
trans-1,2-Dichloroethene	ND		200	24	ug/L			08/17/17 17:14	40
1,2-Dichloropropane	ND		200	24	ug/L			08/17/17 17:14	40
cis-1,3-Dichloropropene	ND		200	13	ug/L			08/17/17 17:14	40
trans-1,3-Dichloropropene	ND		200	18	ug/L			08/17/17 17:14	40
Ethylbenzene	**1700**		200	19	ug/L			08/17/17 17:14	40
Methylene Chloride	ND		200	33	ug/L			08/17/17 17:14	40
1,1,2,2-Tetrachloroethane	ND		200	10	ug/L			08/17/17 17:14	40
Tetrachloroethene	ND		200	14	ug/L			08/17/17 17:14	40
Toluene	**470**		200	18	ug/L			08/17/17 17:14	40
1,1,1-Trichloroethane	ND		200	15	ug/L			08/17/17 17:14	40
1,1,2-Trichloroethane	ND		200	19	ug/L			08/17/17 17:14	40

Client Sample ID: DUP-01
Date Collected: 08/15/17 00:00
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		200	24	ug/L			08/17/17 17:14	40
Vinyl chloride	ND		200	30	ug/L			08/17/17 17:14	40
1,2-Dichlorobenzene	ND		200	18	ug/L			08/17/17 17:14	40
1,2-Dichloroethene, Total	ND		400	130	ug/L			08/17/17 17:14	40
1,3-Dichlorobenzene	ND		200	22	ug/L			08/17/17 17:14	40
1,4-Dichlorobenzene	ND		200	20	ug/L			08/17/17 17:14	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*68 - 130*		*08/17/17 17:14*	*40*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*08/17/17 17:14*	*40*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/17/17 17:14*	*40*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*08/17/17 17:14*	*40*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		480	77	ug/L		08/16/17 14:31	08/27/17 20:22	100
Acenaphthylene	**330**	**J**	480	83	ug/L		08/16/17 14:31	08/27/17 20:22	100
Anthracene	ND		480	130	ug/L		08/16/17 14:31	08/27/17 20:22	100
Benzidine	ND		7600	3300	ug/L		08/16/17 14:31	08/27/17 20:22	100
Benzo[a]anthracene	ND		480	100	ug/L		08/16/17 14:31	08/27/17 20:22	100
Benzo[a]pyrene	ND		480	120	ug/L		08/16/17 14:31	08/27/17 20:22	100
Benzo[b]fluoranthene	ND		480	110	ug/L		08/16/17 14:31	08/27/17 20:22	100
Benzo[g,h,i]perylene	ND		480	140	ug/L		08/16/17 14:31	08/27/17 20:22	100
Benzo[k]fluoranthene	ND		480	120	ug/L		08/16/17 14:31	08/27/17 20:22	100
Bis(2-chloroethyl)ether	ND		480	89	ug/L		08/16/17 14:31	08/27/17 20:22	100
Bis(2-chloroethoxy)methane	ND		480	71	ug/L		08/16/17 14:31	08/27/17 20:22	100
bis (2-chloroisopropyl) ether	ND		480	80	ug/L		08/16/17 14:31	08/27/17 20:22	100
Bis(2-ethylhexyl) phthalate	ND		950	110	ug/L		08/16/17 14:31	08/27/17 20:22	100
4-Bromophenyl phenyl ether	ND		480	130	ug/L		08/16/17 14:31	08/27/17 20:22	100
Butyl benzyl phthalate	ND		480	100	ug/L		08/16/17 14:31	08/27/17 20:22	100
2-Chloronaphthalene	ND		480	87	ug/L		08/16/17 14:31	08/27/17 20:22	100
4-Chlorophenyl phenyl ether	ND		480	120	ug/L		08/16/17 14:31	08/27/17 20:22	100
Chrysene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 20:22	100
Dibenz(a,h)anthracene	ND		480	140	ug/L		08/16/17 14:31	08/27/17 20:22	100
Di-n-butyl phthalate	ND		480	150	ug/L		08/16/17 14:31	08/27/17 20:22	100
1,2-Dichlorobenzene	ND		950	480	ug/L		08/16/17 14:31	08/27/17 20:22	100
1,3-Dichlorobenzene	ND		950	66	ug/L		08/16/17 14:31	08/27/17 20:22	100
1,4-Dichlorobenzene	ND		950	540	ug/L		08/16/17 14:31	08/27/17 20:22	100
3,3'-Dichlorobenzidine	ND		480	78	ug/L		08/16/17 14:31	08/27/17 20:22	100
Diethyl phthalate	ND		480	95	ug/L		08/16/17 14:31	08/27/17 20:22	100
Dimethyl phthalate	ND		480	87	ug/L		08/16/17 14:31	08/27/17 20:22	100
2,4-Dinitrotoluene	ND		950	480	ug/L		08/16/17 14:31	08/27/17 20:22	100
2,6-Dinitrotoluene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 20:22	100
Di-n-octyl phthalate	ND		480	110	ug/L		08/16/17 14:31	08/27/17 20:22	100
1,2-Diphenylhydrazine	ND		950	74	ug/L		08/16/17 14:31	08/27/17 20:22	100
Fluoranthene	ND		480	150	ug/L		08/16/17 14:31	08/27/17 20:22	100
Fluorene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 20:22	100
Hexachlorobenzene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 20:22	100
Hexachlorobutadiene	ND		480	95	ug/L		08/16/17 14:31	08/27/17 20:22	100
Hexachlorocyclopentadiene	ND		950	480	ug/L		08/16/17 14:31	08/27/17 20:22	100

Client Sample ID: DUP-01
Date Collected: 08/15/17 00:00
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-2
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		480	57	ug/L		08/16/17 14:31	08/27/17 20:22	100
Indeno[1,2,3-cd]pyrene	ND		480	140	ug/L		08/16/17 14:31	08/27/17 20:22	100
Isophorone	ND		480	70	ug/L		08/16/17 14:31	08/27/17 20:22	100
Naphthalene	**10000**		480	82	ug/L		08/16/17 14:31	08/27/17 20:22	100
Nitrobenzene	ND		480	77	ug/L		08/16/17 14:31	08/27/17 20:22	100
N-Nitrosodi-n-propylamine	ND		480	85	ug/L		08/16/17 14:31	08/27/17 20:22	100
N-Nitrosodimethylamine	ND		950	480	ug/L		08/16/17 14:31	08/27/17 20:22	100
N-Nitrosodiphenylamine	ND		480	38	ug/L		08/16/17 14:31	08/27/17 20:22	100
Phenanthrene	ND		480	110	ug/L		08/16/17 14:31	08/27/17 20:22	100
Pyrene	ND		480	130	ug/L		08/16/17 14:31	08/27/17 20:22	100
1,2,4-Trichlorobenzene	ND		950	78	ug/L		08/16/17 14:31	08/27/17 20:22	100
4-Chloro-3-methylphenol	ND		480	100	ug/L		08/16/17 14:31	08/27/17 20:22	100
2-Chlorophenol	ND		480	63	ug/L		08/16/17 14:31	08/27/17 20:22	100
2,4-Dichlorophenol	ND		480	73	ug/L		08/16/17 14:31	08/27/17 20:22	100
2,4-Dimethylphenol	ND		480	130	ug/L		08/16/17 14:31	08/27/17 20:22	100
2,4-Dinitrophenol	ND		950	480	ug/L		08/16/17 14:31	08/27/17 20:22	100
4,6-Dinitro-2-methylphenol	ND		950	63	ug/L		08/16/17 14:31	08/27/17 20:22	100
2-Nitrophenol	ND		480	67	ug/L		08/16/17 14:31	08/27/17 20:22	100
4-Nitrophenol	ND		1400	950	ug/L		08/16/17 14:31	08/27/17 20:22	100
Pentachlorophenol	ND		950	150	ug/L		08/16/17 14:31	08/27/17 20:22	100
Phenol	ND		480	33	ug/L		08/16/17 14:31	08/27/17 20:22	100
2,4,6-Trichlorophenol	ND		480	95	ug/L		08/16/17 14:31	08/27/17 20:22	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*52 - 151*	*08/16/17 14:31*	*08/27/17 20:22*	*100*
2-Fluorobiphenyl	*0*	*X*	*44 - 120*	*08/16/17 14:31*	*08/27/17 20:22*	*100*
2-Fluorophenol	*0*	*X*	*17 - 120*	*08/16/17 14:31*	*08/27/17 20:22*	*100*
Nitrobenzene-d5	*0*	*X*	*42 - 120*	*08/16/17 14:31*	*08/27/17 20:22*	*100*
Phenol-d5	*0*	*X*	*10 - 120*	*08/16/17 14:31*	*08/27/17 20:22*	*100*
p-Terphenyl-d14	*0*	*X*	*22 - 125*	*08/16/17 14:31*	*08/27/17 20:22*	*100*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	**0.026**	**J**	0.048	0.0077	ug/L		08/16/17 14:17	08/17/17 13:13	1
alpha-BHC	ND		0.048	0.0073	ug/L		08/16/17 14:17	08/17/17 13:13	1
beta-BHC	ND		0.048	0.024	ug/L		08/16/17 14:17	08/17/17 13:13	1
delta-BHC	ND		0.048	0.0095	ug/L		08/16/17 14:17	08/17/17 13:13	1
gamma-BHC (Lindane)	ND		0.048	0.0076	ug/L		08/16/17 14:17	08/17/17 13:13	1
Chlordane (technical)	ND		0.48	0.28	ug/L		08/16/17 14:17	08/17/17 13:13	1
4,4'-DDD	ND		0.048	0.0088	ug/L		08/16/17 14:17	08/17/17 13:13	1
4,4'-DDE	ND		0.048	0.011	ug/L		08/16/17 14:17	08/17/17 13:13	1
4,4'-DDT	ND		0.048	0.010	ug/L		08/16/17 14:17	08/17/17 13:13	1
Dieldrin	ND		0.048	0.0093	ug/L		08/16/17 14:17	08/17/17 13:13	1
Endosulfan I	ND		0.048	0.010	ug/L		08/16/17 14:17	08/17/17 13:13	1
Endosulfan II	ND		0.048	0.011	ug/L		08/16/17 14:17	08/17/17 13:13	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		08/16/17 14:17	08/17/17 13:13	1
Endrin	ND		0.048	0.013	ug/L		08/16/17 14:17	08/17/17 13:13	1
Endrin aldehyde	ND		0.048	0.016	ug/L		08/16/17 14:17	08/17/17 13:13	1
Heptachlor	ND		0.048	0.0081	ug/L		08/16/17 14:17	08/17/17 13:13	1
Heptachlor epoxide	ND		0.048	0.0070	ug/L		08/16/17 14:17	08/17/17 13:13	1

Client Sample ID: DUP-01
Date Collected: 08/15/17 00:00
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-2
Matrix: Water

Method: 608 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		0.48	0.11	ug/L		08/16/17 14:17	08/17/17 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*23 - 120*	*08/16/17 14:17*	*08/17/17 13:13*	*1*
DCB Decachlorobiphenyl	*52*		*23 - 120*	*08/16/17 14:17*	*08/17/17 13:13*	*1*
Tetrachloro-m-xylene	*83*		*44 - 120*	*08/16/17 14:17*	*08/17/17 13:13*	*1*
Tetrachloro-m-xylene	*50*		*44 - 120*	*08/16/17 14:17*	*08/17/17 13:13*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:47	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:47	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:47	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:47	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 16:47	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 16:47	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*36 - 121*	*08/18/17 07:29*	*08/23/17 16:47*	*1*
DCB Decachlorobiphenyl	*45*		*36 - 121*	*08/18/17 07:29*	*08/23/17 16:47*	*1*
Tetrachloro-m-xylene	*116*		*42 - 135*	*08/18/17 07:29*	*08/23/17 16:47*	*1*
Tetrachloro-m-xylene	*81*		*42 - 135*	*08/18/17 07:29*	*08/23/17 16:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 07:47	08/17/17 21:48	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 07:47	08/17/17 21:48	1
Arsenic	ND		0.015	0.0056	mg/L		08/17/17 07:47	08/17/17 21:48	1
Barium	**0.10**		0.0020	0.00070	mg/L		08/17/17 07:47	08/17/17 21:48	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 07:47	08/17/17 21:48	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 07:47	08/17/17 21:48	1
Calcium	**558**		0.50	0.10	mg/L		08/17/17 07:47	08/17/17 21:48	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 07:47	08/17/17 21:48	1
Cobalt	**0.0048**		0.0040	0.00063	mg/L		08/17/17 07:47	08/17/17 21:48	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 07:47	08/17/17 21:48	1
Iron	**1.1**		0.050	0.019	mg/L		08/17/17 07:47	08/17/17 21:48	1
Lead	ND		0.050	0.015	mg/L		08/17/17 07:47	08/18/17 17:22	5
Magnesium	ND		0.20	0.043	mg/L		08/17/17 07:47	08/17/17 21:48	1
Manganese	ND		0.0030	0.00040	mg/L		08/17/17 07:47	08/17/17 21:48	1
Nickel	**0.0043**	**J**	0.010	0.0013	mg/L		08/17/17 07:47	08/17/17 21:48	1
Potassium	**36.3**	**^**	0.50	0.10	mg/L		08/17/17 07:47	08/17/17 21:48	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 07:47	08/17/17 21:48	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 07:47	08/17/17 21:48	1
Sodium	**1020**		1.0	0.32	mg/L		08/17/17 07:47	08/17/17 21:48	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 07:47	08/17/17 21:48	1
Vanadium	**0.0015**	**J**	0.0050	0.0015	mg/L		08/17/17 07:47	08/17/17 21:48	1
Zinc	**0.0018**	**J**	0.010	0.0015	mg/L		08/17/17 07:47	08/17/17 21:48	1

Client Sample ID: DUP-01
Date Collected: 08/15/17 00:00
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-2
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 09:47	08/17/17 19:48	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 09:47	08/17/17 19:48	1
Arsenic	ND		0.015	0.0056	mg/L		08/17/17 09:47	08/17/17 19:48	1
Barium	**0.099**		0.0020	0.00070	mg/L		08/17/17 09:47	08/17/17 19:48	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 09:47	08/17/17 19:48	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 09:47	08/17/17 19:48	1
Calcium	**545**		0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:48	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 09:47	08/17/17 19:48	1
Cobalt	**0.0047**		0.0040	0.00063	mg/L		08/17/17 09:47	08/17/17 19:48	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 09:47	08/17/17 19:48	1
Iron	**1.0**		0.050	0.019	mg/L		08/17/17 09:47	08/17/17 19:48	1
Lead	ND		0.050	0.015	mg/L		08/17/17 09:47	08/18/17 16:38	5
Magnesium	ND		0.20	0.043	mg/L		08/17/17 09:47	08/17/17 19:48	1
Manganese	ND		0.0030	0.00040	mg/L		08/17/17 09:47	08/17/17 19:48	1
Nickel	**0.0045**	**J**	0.010	0.0013	mg/L		08/17/17 09:47	08/17/17 19:48	1
Potassium	**35.3**	**B**	0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:48	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 09:47	08/17/17 19:48	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 09:47	08/17/17 19:48	1
Sodium	**993**		1.0	0.32	mg/L		08/17/17 09:47	08/17/17 19:48	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 09:47	08/17/17 19:48	1
Vanadium	ND		0.0050	0.0015	mg/L		08/17/17 09:47	08/17/17 19:48	1
Zinc	**0.014**	**B**	0.010	0.0015	mg/L		08/17/17 09:47	08/17/17 19:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0016**		0.00020	0.00012	mg/L		08/16/17 09:00	08/16/17 12:32	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0014**		0.00020	0.00012	mg/L		08/17/17 10:00	08/17/17 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	**2.3**	**J**	5.4	1.5	mg/L		08/23/17 09:23	08/23/17 09:23	1
SGT-HEM	ND		5.4	2.1	mg/L		08/23/17 09:23	08/23/17 09:23	1
Total Kjeldahl Nitrogen	**6.3**		0.40	0.30	mg/L		08/16/17 08:12	08/17/17 09:21	2
Chemical Oxygen Demand	**177**		50.0	25.0	mg/L			08/21/17 17:54	5
Cyanide, Total	**3.4**		0.10	0.050	mg/L		08/18/17 09:41	08/19/17 10:32	10
Hardness as calcium carbonate	**1500**		20.0	5.3	mg/L			08/25/17 05:20	1
Total Dissolved Solids	**5510**		100	40.0	mg/L			08/16/17 11:00	1
Biochemical Oxygen Demand	**>39.30**		12.0	12.0	mg/L			08/16/17 09:16	1
Carbonaceous Biochemical Oxygen Demand	**>34.71**		12.0	12.0	mg/L			08/16/17 09:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**11.6**	**HF**	0.100	0.100	SU			08/21/17 15:47	1
Temperature	**21.1**	**HF**	0.00100	0.00100	Degrees C			08/21/17 15:47	1
Total Suspended Solids	ND		4.0	4.0	mg/L			08/17/17 05:12	1

Client Sample ID: DUP-01

Date Collected: 08/15/17 00:00
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-2
Matrix: Water

General Chemistry - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	34.7	H b	24.0	24.0	mg/L			08/22/17 15:59	1
Carbonaceous Biochemical Oxygen Demand	43.6	H b	12.0	12.0	mg/L			08/22/17 15:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.9		0.10	0.050	mg/L		08/18/17 09:41	08/19/17 10:28	10

Client Sample ID: MW-28D

Date Collected: 08/15/17 15:30
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-3
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		200	35	ug/L			08/18/17 18:02	2
Acrylonitrile	ND		100	3.8	ug/L			08/18/17 18:02	2
Benzene	81		10	1.2	ug/L			08/18/17 18:02	2
Dichlorobromomethane	ND		10	1.1	ug/L			08/18/17 18:02	2
Bromoform	ND		10	0.94	ug/L			08/18/17 18:02	2
Bromomethane	ND		10	2.4	ug/L			08/18/17 18:02	2
Carbon tetrachloride	ND		10	1.0	ug/L			08/18/17 18:02	2
Chlorobenzene	ND		10	0.95	ug/L			08/18/17 18:02	2
Chloroethane	ND		10	1.7	ug/L			08/18/17 18:02	2
2-Chloroethyl vinyl ether	ND		50	3.7	ug/L			08/18/17 18:02	2
Chloroform	ND		10	1.1	ug/L			08/18/17 18:02	2
Chloromethane	ND		10	1.3	ug/L			08/18/17 18:02	2
Chlorodibromomethane	ND		10	0.83	ug/L			08/18/17 18:02	2
1,1-Dichloroethane	ND		10	1.2	ug/L			08/18/17 18:02	2
1,2-Dichloroethane	ND		10	1.2	ug/L			08/18/17 18:02	2
1,1-Dichloroethene	ND		10	1.7	ug/L			08/18/17 18:02	2
trans-1,2-Dichloroethene	ND		10	1.2	ug/L			08/18/17 18:02	2
1,2-Dichloropropane	ND		10	1.2	ug/L			08/18/17 18:02	2
cis-1,3-Dichloropropene	ND		10	0.66	ug/L			08/18/17 18:02	2
trans-1,3-Dichloropropene	ND		10	0.88	ug/L			08/18/17 18:02	2
Ethylbenzene	85		10	0.93	ug/L			08/18/17 18:02	2
Methylene Chloride	ND		10	1.6	ug/L			08/18/17 18:02	2
1,1,2,2-Tetrachloroethane	ND		10	0.52	ug/L			08/18/17 18:02	2
Tetrachloroethene	ND		10	0.68	ug/L			08/18/17 18:02	2
Toluene	ND		10	0.91	ug/L			08/18/17 18:02	2
1,1,1-Trichloroethane	ND		10	0.77	ug/L			08/18/17 18:02	2
1,1,2-Trichloroethane	ND		10	0.96	ug/L			08/18/17 18:02	2
Trichloroethene	ND		10	1.2	ug/L			08/18/17 18:02	2
Vinyl chloride	ND		10	1.5	ug/L			08/18/17 18:02	2
1,2-Dichlorobenzene	ND		10	0.89	ug/L			08/18/17 18:02	2
1,2-Dichloroethene, Total	ND		20	6.4	ug/L			08/18/17 18:02	2
1,3-Dichlorobenzene	ND		10	1.1	ug/L			08/18/17 18:02	2
1,4-Dichlorobenzene	ND		10	1.0	ug/L			08/18/17 18:02	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 130*		*08/18/17 18:02*	*2*

Client Sample ID: MW-28D
Date Collected: 08/15/17 15:30
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-3
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*08/18/17 18:02*	*2*
Toluene-d8 (Surr)	*97*		*77 - 120*		*08/18/17 18:02*	*2*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*08/18/17 18:02*	*2*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**24**	**J**	48	7.7	ug/L		08/16/17 14:31	08/27/17 20:48	10
Acenaphthylene	ND		48	8.3	ug/L		08/16/17 14:31	08/27/17 20:48	10
Anthracene	ND		48	13	ug/L		08/16/17 14:31	08/27/17 20:48	10
Benzidine	ND		760	330	ug/L		08/16/17 14:31	08/27/17 20:48	10
Benzo[a]anthracene	ND		48	10	ug/L		08/16/17 14:31	08/27/17 20:48	10
Benzo[a]pyrene	ND		48	12	ug/L		08/16/17 14:31	08/27/17 20:48	10
Benzo[b]fluoranthene	ND		48	11	ug/L		08/16/17 14:31	08/27/17 20:48	10
Benzo[g,h,i]perylene	ND		48	14	ug/L		08/16/17 14:31	08/27/17 20:48	10
Benzo[k]fluoranthene	ND		48	12	ug/L		08/16/17 14:31	08/27/17 20:48	10
Bis(2-chloroethyl)ether	ND		48	8.9	ug/L		08/16/17 14:31	08/27/17 20:48	10
Bis(2-chloroethoxy)methane	ND		48	7.1	ug/L		08/16/17 14:31	08/27/17 20:48	10
bis (2-chloroisopropyl) ether	ND		48	8.0	ug/L		08/16/17 14:31	08/27/17 20:48	10
Bis(2-ethylhexyl) phthalate	ND		95	11	ug/L		08/16/17 14:31	08/27/17 20:48	10
4-Bromophenyl phenyl ether	ND		48	13	ug/L		08/16/17 14:31	08/27/17 20:48	10
Butyl benzyl phthalate	ND		48	10	ug/L		08/16/17 14:31	08/27/17 20:48	10
2-Chloronaphthalene	ND		48	8.7	ug/L		08/16/17 14:31	08/27/17 20:48	10
4-Chlorophenyl phenyl ether	ND		48	12	ug/L		08/16/17 14:31	08/27/17 20:48	10
Chrysene	ND		48	9.5	ug/L		08/16/17 14:31	08/27/17 20:48	10
Dibenz(a,h)anthracene	ND		48	14	ug/L		08/16/17 14:31	08/27/17 20:48	10
Di-n-butyl phthalate	ND		48	15	ug/L		08/16/17 14:31	08/27/17 20:48	10
1,2-Dichlorobenzene	ND		95	48	ug/L		08/16/17 14:31	08/27/17 20:48	10
1,3-Dichlorobenzene	ND		95	6.6	ug/L		08/16/17 14:31	08/27/17 20:48	10
1,4-Dichlorobenzene	ND		95	54	ug/L		08/16/17 14:31	08/27/17 20:48	10
3,3'-Dichlorobenzidine	ND		48	7.8	ug/L		08/16/17 14:31	08/27/17 20:48	10
Diethyl phthalate	ND		48	9.5	ug/L		08/16/17 14:31	08/27/17 20:48	10
Dimethyl phthalate	ND		48	8.7	ug/L		08/16/17 14:31	08/27/17 20:48	10
2,4-Dinitrotoluene	ND		95	48	ug/L		08/16/17 14:31	08/27/17 20:48	10
2,6-Dinitrotoluene	ND		48	9.5	ug/L		08/16/17 14:31	08/27/17 20:48	10
Di-n-octyl phthalate	ND		48	11	ug/L		08/16/17 14:31	08/27/17 20:48	10
1,2-Diphenylhydrazine	ND		95	7.4	ug/L		08/16/17 14:31	08/27/17 20:48	10
Fluoranthene	ND		48	15	ug/L		08/16/17 14:31	08/27/17 20:48	10
Fluorene	ND		48	9.5	ug/L		08/16/17 14:31	08/27/17 20:48	10
Hexachlorobenzene	ND		48	9.5	ug/L		08/16/17 14:31	08/27/17 20:48	10
Hexachlorobutadiene	ND		48	9.5	ug/L		08/16/17 14:31	08/27/17 20:48	10
Hexachlorocyclopentadiene	ND		95	48	ug/L		08/16/17 14:31	08/27/17 20:48	10
Hexachloroethane	ND		48	5.7	ug/L		08/16/17 14:31	08/27/17 20:48	10
Indeno[1,2,3-cd]pyrene	ND		48	14	ug/L		08/16/17 14:31	08/27/17 20:48	10
Isophorone	ND		48	7.0	ug/L		08/16/17 14:31	08/27/17 20:48	10
Naphthalene	**410**		48	8.2	ug/L		08/16/17 14:31	08/27/17 20:48	10
Nitrobenzene	ND		48	7.7	ug/L		08/16/17 14:31	08/27/17 20:48	10
N-Nitrosodi-n-propylamine	ND		48	8.5	ug/L		08/16/17 14:31	08/27/17 20:48	10
N-Nitrosodimethylamine	ND		95	48	ug/L		08/16/17 14:31	08/27/17 20:48	10
N-Nitrosodiphenylamine	ND		48	3.8	ug/L		08/16/17 14:31	08/27/17 20:48	10

Client Sample ID: MW-28D
Date Collected: 08/15/17 15:30
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-3
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		48	11	ug/L		08/16/17 14:31	08/27/17 20:48	10
Pyrene	ND		48	13	ug/L		08/16/17 14:31	08/27/17 20:48	10
1,2,4-Trichlorobenzene	ND		95	7.8	ug/L		08/16/17 14:31	08/27/17 20:48	10
4-Chloro-3-methylphenol	ND		48	10	ug/L		08/16/17 14:31	08/27/17 20:48	10
2-Chlorophenol	ND		48	6.3	ug/L		08/16/17 14:31	08/27/17 20:48	10
2,4-Dichlorophenol	ND		48	7.3	ug/L		08/16/17 14:31	08/27/17 20:48	10
2,4-Dimethylphenol	ND		48	13	ug/L		08/16/17 14:31	08/27/17 20:48	10
2,4-Dinitrophenol	ND		95	48	ug/L		08/16/17 14:31	08/27/17 20:48	10
4,6-Dinitro-2-methylphenol	ND		95	6.3	ug/L		08/16/17 14:31	08/27/17 20:48	10
2-Nitrophenol	ND		48	6.7	ug/L		08/16/17 14:31	08/27/17 20:48	10
4-Nitrophenol	ND		140	95	ug/L		08/16/17 14:31	08/27/17 20:48	10
Pentachlorophenol	ND		95	15	ug/L		08/16/17 14:31	08/27/17 20:48	10
Phenol	ND		48	3.3	ug/L		08/16/17 14:31	08/27/17 20:48	10
2,4,6-Trichlorophenol	ND		48	9.5	ug/L		08/16/17 14:31	08/27/17 20:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*139*		*52 - 151*	*08/16/17 14:31*	*08/27/17 20:48*	*10*
2-Fluorobiphenyl	*65*		*44 - 120*	*08/16/17 14:31*	*08/27/17 20:48*	*10*
2-Fluorophenol	*28*		*17 - 120*	*08/16/17 14:31*	*08/27/17 20:48*	*10*
Nitrobenzene-d5	*77*		*42 - 120*	*08/16/17 14:31*	*08/27/17 20:48*	*10*
Phenol-d5	*29*		*10 - 120*	*08/16/17 14:31*	*08/27/17 20:48*	*10*
p-Terphenyl-d14	*60*		*22 - 125*	*08/16/17 14:31*	*08/27/17 20:48*	*10*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.048	0.0077	ug/L		08/16/17 14:17	08/17/17 13:32	1
alpha-BHC	**0.015**	**J B**	0.048	0.0073	ug/L		08/16/17 14:17	08/17/17 13:32	1
beta-BHC	ND		0.048	0.024	ug/L		08/16/17 14:17	08/17/17 13:32	1
delta-BHC	ND		0.048	0.0095	ug/L		08/16/17 14:17	08/17/17 13:32	1
gamma-BHC (Lindane)	ND		0.048	0.0076	ug/L		08/16/17 14:17	08/17/17 13:32	1
Chlordane (technical)	ND		0.48	0.28	ug/L		08/16/17 14:17	08/17/17 13:32	1
4,4'-DDD	ND		0.048	0.0088	ug/L		08/16/17 14:17	08/17/17 13:32	1
4,4'-DDE	ND		0.048	0.011	ug/L		08/16/17 14:17	08/17/17 13:32	1
4,4'-DDT	ND		0.048	0.010	ug/L		08/16/17 14:17	08/17/17 13:32	1
Dieldrin	ND		0.048	0.0093	ug/L		08/16/17 14:17	08/17/17 13:32	1
Endosulfan I	ND		0.048	0.010	ug/L		08/16/17 14:17	08/17/17 13:32	1
Endosulfan II	ND		0.048	0.011	ug/L		08/16/17 14:17	08/17/17 13:32	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		08/16/17 14:17	08/17/17 13:32	1
Endrin	ND		0.048	0.013	ug/L		08/16/17 14:17	08/17/17 13:32	1
Endrin aldehyde	ND		0.048	0.016	ug/L		08/16/17 14:17	08/17/17 13:32	1
Heptachlor	ND		0.048	0.0081	ug/L		08/16/17 14:17	08/17/17 13:32	1
Heptachlor epoxide	ND		0.048	0.0070	ug/L		08/16/17 14:17	08/17/17 13:32	1
Toxaphene	ND		0.48	0.11	ug/L		08/16/17 14:17	08/17/17 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*23 - 120*	*08/16/17 14:17*	*08/17/17 13:32*	*1*
DCB Decachlorobiphenyl	*67*		*23 - 120*	*08/16/17 14:17*	*08/17/17 13:32*	*1*
Tetrachloro-m-xylene	*73*		*44 - 120*	*08/16/17 14:17*	*08/17/17 13:32*	*1*
Tetrachloro-m-xylene	*60*		*44 - 120*	*08/16/17 14:17*	*08/17/17 13:32*	*1*

Client Sample ID: MW-28D

Date Collected: 08/15/17 15:30
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-3

Matrix: Water

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:03	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:03	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:03	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:03	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:03	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 17:03	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*36 - 121*	*08/18/17 07:29*	*08/23/17 17:03*	*1*
DCB Decachlorobiphenyl	*71*		*36 - 121*	*08/18/17 07:29*	*08/23/17 17:03*	*1*
Tetrachloro-m-xylene	*100*		*42 - 135*	*08/18/17 07:29*	*08/23/17 17:03*	*1*
Tetrachloro-m-xylene	*91*		*42 - 135*	*08/18/17 07:29*	*08/23/17 17:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 07:47	08/17/17 21:52	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 07:47	08/17/17 21:52	1
Arsenic	**0.011**	**J**	0.015	0.0056	mg/L		08/17/17 07:47	08/17/17 21:52	1
Barium	**8.9**		0.0020	0.00070	mg/L		08/17/17 07:47	08/17/17 21:52	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 07:47	08/17/17 21:52	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 07:47	08/17/17 21:52	1
Calcium	**270**		0.50	0.10	mg/L		08/17/17 07:47	08/17/17 21:52	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 07:47	08/17/17 21:52	1
Cobalt	ND		0.0040	0.00063	mg/L		08/17/17 07:47	08/17/17 21:52	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 07:47	08/17/17 21:52	1
Iron	**1.8**		0.050	0.019	mg/L		08/17/17 07:47	08/17/17 21:52	1
Lead	**0.0042**	**J**	0.010	0.0030	mg/L		08/17/17 07:47	08/17/17 21:52	1
Magnesium	**52.9**		0.20	0.043	mg/L		08/17/17 07:47	08/17/17 21:52	1
Manganese	**3.0**		0.0030	0.00040	mg/L		08/17/17 07:47	08/17/17 21:52	1
Nickel	ND		0.010	0.0013	mg/L		08/17/17 07:47	08/17/17 21:52	1
Potassium	**12.0**	**^**	0.50	0.10	mg/L		08/17/17 07:47	08/17/17 21:52	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 07:47	08/17/17 21:52	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 07:47	08/17/17 21:52	1
Sodium	**576**		1.0	0.32	mg/L		08/17/17 07:47	08/17/17 21:52	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 07:47	08/17/17 21:52	1
Vanadium	ND		0.0050	0.0015	mg/L		08/17/17 07:47	08/17/17 21:52	1
Zinc	ND		0.010	0.0015	mg/L		08/17/17 07:47	08/17/17 21:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 09:47	08/17/17 19:51	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 09:47	08/17/17 19:51	1
Arsenic	**0.0077**	**J**	0.015	0.0056	mg/L		08/17/17 09:47	08/17/17 19:51	1
Barium	**8.7**		0.0020	0.00070	mg/L		08/17/17 09:47	08/17/17 19:51	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 09:47	08/17/17 19:51	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 09:47	08/17/17 19:51	1
Calcium	**260**		0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:51	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 09:47	08/17/17 19:51	1
Cobalt	ND		0.0040	0.00063	mg/L		08/17/17 09:47	08/17/17 19:51	1

Client Sample ID: MW-28D

Date Collected: 08/15/17 15:30
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-3

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010	0.0016	mg/L		08/17/17 09:47	08/17/17 19:51	1
Iron	**0.22**		0.050	0.019	mg/L		08/17/17 09:47	08/17/17 19:51	1
Lead	ND		0.010	0.0030	mg/L		08/17/17 09:47	08/17/17 19:51	1
Magnesium	**50.9**		0.20	0.043	mg/L		08/17/17 09:47	08/17/17 19:51	1
Manganese	**2.9**		0.0030	0.00040	mg/L		08/17/17 09:47	08/17/17 19:51	1
Nickel	ND		0.010	0.0013	mg/L		08/17/17 09:47	08/17/17 19:51	1
Potassium	**11.6**	**B**	0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:51	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 09:47	08/17/17 19:51	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 09:47	08/17/17 19:51	1
Sodium	**553**		1.0	0.32	mg/L		08/17/17 09:47	08/17/17 19:51	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 09:47	08/17/17 19:51	1
Vanadium	ND		0.0050	0.0015	mg/L		08/17/17 09:47	08/17/17 19:51	1
Zinc	**0.021**	**B**	0.010	0.0015	mg/L		08/17/17 09:47	08/17/17 19:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/16/17 09:00	08/16/17 12:34	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/17/17 10:00	08/17/17 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	**1.8**	**J**	5.7	1.6	mg/L		08/23/17 09:23	08/23/17 09:23	1
SGT-HEM	**2.5**	**J**	5.7	2.2	mg/L		08/23/17 09:23	08/23/17 09:23	1
Total Kjeldahl Nitrogen	**7.0**		0.40	0.30	mg/L		08/16/17 08:12	08/17/17 09:21	2
Chemical Oxygen Demand	**40.5**		10.0	5.0	mg/L			08/16/17 18:10	1
Cyanide, Total	**0.43**		0.010	0.0050	mg/L		08/18/17 04:32	08/18/17 14:23	1
Hardness as calcium carbonate	**940**		20.0	5.3	mg/L			08/25/17 05:20	1
Total Dissolved Solids	**2980**		40.0	16.0	mg/L			08/16/17 11:00	1
Biochemical Oxygen Demand	**5.2**	**b**	2.0	2.0	mg/L			08/17/17 05:54	1
Carbonaceous Biochemical Oxygen Demand	**5.0**	**b**	2.0	2.0	mg/L			08/17/17 05:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.48**	**HF**	0.100	0.100	SU			08/16/17 11:35	1
Temperature	**23.9**	**HF**	0.00100	0.00100	Degrees C			08/16/17 11:35	1
Total Suspended Solids	**6.4**		4.0	4.0	mg/L			08/17/17 05:12	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.63**		0.020	0.010	mg/L		08/18/17 09:41	08/19/17 10:29	2

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (68-130)	BFB (76-123)	TOL (77-120)	DBFM (75-123)
480-122740-1	MW-28S	97	96	103	97
480-122740-1 - DL	MW-28S	92	94	98	92
480-122740-2	DUP-01	97	92	98	95
480-122740-2 - DL	DUP-01	89	98	100	91
480-122740-3	MW-28D	95	102	97	95
LCS 480-372429/5	Lab Control Sample	98	94	101	98
LCS 480-372589/5	Lab Control Sample	88	94	100	90
LCS 480-372871/5	Lab Control Sample	92	91	96	93
MB 480-372429/7	Method Blank	99	96	100	96
MB 480-372589/7	Method Blank	91	93	95	92
MB 480-372871/7	Method Blank	94	87	89	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (52-151)	FBP (44-120)	2FP (17-120)	NBZ (42-120)	PHL (10-120)	TPH (22-125)
480-122740-1	MW-28S	0 X	0 X	0 X	0 X	0 X	0 X
480-122740-2	DUP-01	0 X	0 X	0 X	0 X	0 X	0 X
480-122740-3	MW-28D	139	65	28	77	29	60
LCS 480-372461/2-A	Lab Control Sample	91	80	49	74	37	90
MB 480-372461/1-A	Method Blank	70	75	42	82	35	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (23-120)	DCB2 (23-120)	TCX1 (44-120)	TCX2 (44-120)
480-122740-1	MW-28S	71	66	98	62
480-122740-2	DUP-01	75	52	83	50
480-122740-3	MW-28D	82	67	73	60
LCS 480-372457/2-A	Lab Control Sample	75	62	98	70
MB 480-372457/1-A	Method Blank	61	66	82	60

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Surrogate Legend
DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(36-121)	(36-121)	(42-135)	(42-135)
480-122740-1	MW-28S	73	54	113	80
480-122740-2	DUP-01	56	45	116	81
480-122740-3	MW-28D	82	71	100	91
LCS 480-372759/2-A	Lab Control Sample	55	50	108	85
MB 480-372759/1-A	Method Blank	68	60	114	99

Surrogate Legend
DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-372429/7
Matrix: Water
Analysis Batch: 372429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/16/17 16:13	1
Acrylonitrile	ND		50	1.9	ug/L			08/16/17 16:13	1
Benzene	ND		5.0	0.60	ug/L			08/16/17 16:13	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/16/17 16:13	1
Bromoform	ND		5.0	0.47	ug/L			08/16/17 16:13	1
Bromomethane	ND		5.0	1.2	ug/L			08/16/17 16:13	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/16/17 16:13	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/16/17 16:13	1
Chloroethane	ND		5.0	0.87	ug/L			08/16/17 16:13	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/16/17 16:13	1
Chloroform	ND		5.0	0.54	ug/L			08/16/17 16:13	1
Chloromethane	ND		5.0	0.64	ug/L			08/16/17 16:13	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/16/17 16:13	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/16/17 16:13	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/16/17 16:13	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/16/17 16:13	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/16/17 16:13	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/16/17 16:13	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/16/17 16:13	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/16/17 16:13	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/16/17 16:13	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/16/17 16:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/16/17 16:13	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/16/17 16:13	1
Toluene	ND		5.0	0.45	ug/L			08/16/17 16:13	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/16/17 16:13	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/16/17 16:13	1
Trichloroethene	ND		5.0	0.60	ug/L			08/16/17 16:13	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/16/17 16:13	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/16/17 16:13	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/16/17 16:13	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/16/17 16:13	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/16/17 16:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*		*08/16/17 16:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*08/16/17 16:13*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/16/17 16:13*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/16/17 16:13*	*1*

Lab Sample ID: LCS 480-372429/5
Matrix: Water
Analysis Batch: 372429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.4		ug/L		97	37 - 151
Dichlorobromomethane	20.0	19.6		ug/L		98	35 - 155
Bromoform	20.0	20.3		ug/L		101	45 - 169

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372429/5
Matrix: Water
Analysis Batch: 372429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	21.0		ug/L		105	1 - 242
Carbon tetrachloride	20.0	18.3		ug/L		91	70 - 140
Chlorobenzene	20.0	20.2		ug/L		101	37 - 160
Chloroethane	20.0	20.4		ug/L		102	14 - 230
2-Chloroethyl vinyl ether	20.0	18.6	J	ug/L		93	1 - 305
Chloroform	20.0	19.0		ug/L		95	51 - 138
Chloromethane	20.0	17.4		ug/L		87	1 - 273
Chlorodibromomethane	20.0	20.8		ug/L		104	53 - 149
1,1-Dichloroethane	20.0	17.8		ug/L		89	59 - 155
1,2-Dichloroethane	20.0	18.6		ug/L		93	49 - 155
1,1-Dichloroethene	20.0	17.1		ug/L		85	1 - 234
trans-1,2-Dichloroethene	20.0	18.8		ug/L		94	54 - 156
1,2-Dichloropropane	20.0	19.5		ug/L		98	1 - 210
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	1 - 227
trans-1,3-Dichloropropene	20.0	20.5		ug/L		102	17 - 183
Ethylbenzene	20.0	19.4		ug/L		97	37 - 162
Methylene Chloride	20.0	19.6		ug/L		98	1 - 221
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	46 - 157
Tetrachloroethene	20.0	20.0		ug/L		100	64 - 148
Toluene	20.0	18.7		ug/L		94	47 - 150
1,1,1-Trichloroethane	20.0	18.8		ug/L		94	52 - 162
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	52 - 150
Trichloroethene	20.0	19.5		ug/L		98	71 - 157
Vinyl chloride	20.0	20.2		ug/L		101	1 - 251
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	59 - 156
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: MB 480-372589/7
Matrix: Water
Analysis Batch: 372589

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/17/17 15:27	1
Acrylonitrile	ND		50	1.9	ug/L			08/17/17 15:27	1
Benzene	ND		5.0	0.60	ug/L			08/17/17 15:27	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/17/17 15:27	1
Bromoform	ND		5.0	0.47	ug/L			08/17/17 15:27	1
Bromomethane	ND		5.0	1.2	ug/L			08/17/17 15:27	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/17/17 15:27	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/17/17 15:27	1
Chloroethane	ND		5.0	0.87	ug/L			08/17/17 15:27	1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-372589/7
Matrix: Water
Analysis Batch: 372589

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/17/17 15:27	1
Chloroform	ND		5.0	0.54	ug/L			08/17/17 15:27	1
Chloromethane	ND		5.0	0.64	ug/L			08/17/17 15:27	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/17/17 15:27	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/17/17 15:27	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/17/17 15:27	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/17/17 15:27	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/17/17 15:27	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/17/17 15:27	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/17/17 15:27	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/17/17 15:27	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/17/17 15:27	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/17/17 15:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/17/17 15:27	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/17/17 15:27	1
Toluene	ND		5.0	0.45	ug/L			08/17/17 15:27	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/17/17 15:27	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/17/17 15:27	1
Trichloroethene	ND		5.0	0.60	ug/L			08/17/17 15:27	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/17/17 15:27	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/17/17 15:27	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/17/17 15:27	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/17/17 15:27	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/17/17 15:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*68 - 130*		*08/17/17 15:27*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 123*		*08/17/17 15:27*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*08/17/17 15:27*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*08/17/17 15:27*	*1*

Lab Sample ID: LCS 480-372589/5
Matrix: Water
Analysis Batch: 372589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.3		ug/L		96	37 - 151
Dichlorobromomethane	20.0	18.9		ug/L		94	35 - 155
Bromoform	20.0	18.9		ug/L		95	45 - 169
Bromomethane	20.0	20.3		ug/L		102	1 - 242
Carbon tetrachloride	20.0	17.2		ug/L		86	70 - 140
Chlorobenzene	20.0	20.4		ug/L		102	37 - 160
Chloroethane	20.0	18.8		ug/L		94	14 - 230
2-Chloroethyl vinyl ether	20.0	20.3	J	ug/L		102	1 - 305
Chloroform	20.0	18.3		ug/L		91	51 - 138
Chloromethane	20.0	18.7		ug/L		94	1 - 273
Chlorodibromomethane	20.0	19.9		ug/L		100	53 - 149
1,1-Dichloroethane	20.0	17.6		ug/L		88	59 - 155

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372589/5
Matrix: Water
Analysis Batch: 372589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	20.0	17.8		ug/L		89	49 - 155
1,1-Dichloroethene	20.0	15.4		ug/L		77	1 - 234
trans-1,2-Dichloroethene	20.0	16.9		ug/L		84	54 - 156
1,2-Dichloropropane	20.0	18.9		ug/L		94	1 - 210
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	1 - 227
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	17 - 183
Ethylbenzene	20.0	20.0		ug/L		100	37 - 162
Methylene Chloride	20.0	17.7		ug/L		89	1 - 221
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		93	46 - 157
Tetrachloroethene	20.0	19.3		ug/L		96	64 - 148
Toluene	20.0	19.7		ug/L		98	47 - 150
1,1,1-Trichloroethane	20.0	17.5		ug/L		87	52 - 162
1,1,2-Trichloroethane	20.0	20.3		ug/L		102	52 - 150
Trichloroethene	20.0	19.0		ug/L		95	71 - 157
Vinyl chloride	20.0	19.2		ug/L		96	1 - 251
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	18 - 190
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	59 - 156
1,4-Dichlorobenzene	20.0	19.9		ug/L		99	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*68 - 130*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*
Dibromofluoromethane (Surr)	*90*		*75 - 123*

Lab Sample ID: MB 480-372871/7
Matrix: Water
Analysis Batch: 372871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/18/17 15:58	1
Acrylonitrile	ND		50	1.9	ug/L			08/18/17 15:58	1
Benzene	ND		5.0	0.60	ug/L			08/18/17 15:58	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/18/17 15:58	1
Bromoform	ND		5.0	0.47	ug/L			08/18/17 15:58	1
Bromomethane	ND		5.0	1.2	ug/L			08/18/17 15:58	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/18/17 15:58	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/18/17 15:58	1
Chloroethane	ND		5.0	0.87	ug/L			08/18/17 15:58	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/18/17 15:58	1
Chloroform	ND		5.0	0.54	ug/L			08/18/17 15:58	1
Chloromethane	ND		5.0	0.64	ug/L			08/18/17 15:58	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/18/17 15:58	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/18/17 15:58	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/18/17 15:58	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/18/17 15:58	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/18/17 15:58	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/18/17 15:58	1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-372871/7
Matrix: Water
Analysis Batch: 372871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/18/17 15:58	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/18/17 15:58	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/18/17 15:58	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/18/17 15:58	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/18/17 15:58	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/18/17 15:58	1
Toluene	ND		5.0	0.45	ug/L			08/18/17 15:58	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/18/17 15:58	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/18/17 15:58	1
Trichloroethene	ND		5.0	0.60	ug/L			08/18/17 15:58	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/18/17 15:58	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/18/17 15:58	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/18/17 15:58	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/18/17 15:58	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/18/17 15:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*08/18/17 15:58*	*1*
4-Bromofluorobenzene (Surr)	*87*		*76 - 123*		*08/18/17 15:58*	*1*
Toluene-d8 (Surr)	*89*		*77 - 120*		*08/18/17 15:58*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/18/17 15:58*	*1*

Lab Sample ID: LCS 480-372871/5
Matrix: Water
Analysis Batch: 372871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.4		ug/L		102	37 - 151
Dichlorobromomethane	20.0	21.1		ug/L		105	35 - 155
Bromoform	20.0	19.5		ug/L		97	45 - 169
Bromomethane	20.0	20.9		ug/L		104	1 - 242
Carbon tetrachloride	20.0	19.3		ug/L		97	70 - 140
Chlorobenzene	20.0	21.5		ug/L		107	37 - 160
Chloroethane	20.0	21.0		ug/L		105	14 - 230
2-Chloroethyl vinyl ether	20.0	22.1	J	ug/L		111	1 - 305
Chloroform	20.0	20.1		ug/L		100	51 - 138
Chloromethane	20.0	19.1		ug/L		95	1 - 273
Chlorodibromomethane	20.0	20.8		ug/L		104	53 - 149
1,1-Dichloroethane	20.0	19.0		ug/L		95	59 - 155
1,2-Dichloroethane	20.0	19.1		ug/L		96	49 - 155
1,1-Dichloroethene	20.0	18.3		ug/L		92	1 - 234
trans-1,2-Dichloroethene	20.0	19.7		ug/L		98	54 - 156
1,2-Dichloropropane	20.0	20.1		ug/L		100	1 - 210
cis-1,3-Dichloropropene	20.0	21.6		ug/L		108	1 - 227
trans-1,3-Dichloropropene	20.0	19.7		ug/L		98	17 - 183
Ethylbenzene	20.0	21.6		ug/L		108	37 - 162
Methylene Chloride	20.0	20.3		ug/L		101	1 - 221
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		97	46 - 157

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372871/5
Matrix: Water
Analysis Batch: 372871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	20.0	20.2		ug/L		101	64 - 148
Toluene	20.0	19.7		ug/L		99	47 - 150
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	52 - 162
1,1,2-Trichloroethane	20.0	20.1		ug/L		100	52 - 150
Trichloroethene	20.0	20.0		ug/L		100	71 - 157
Vinyl chloride	20.0	21.2		ug/L		106	1 - 251
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	18 - 190
1,3-Dichlorobenzene	20.0	20.9		ug/L		104	59 - 156
1,4-Dichlorobenzene	20.0	21.3		ug/L		107	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*68 - 130*
4-Bromofluorobenzene (Surr)	*91*		*76 - 123*
Toluene-d8 (Surr)	*96*		*77 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-372461/1-A
Matrix: Water
Analysis Batch: 373121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.81	ug/L		08/16/17 14:31	08/22/17 10:09	1
Acenaphthylene	ND		5.0	0.87	ug/L		08/16/17 14:31	08/22/17 10:09	1
Anthracene	ND		5.0	1.4	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzidine	ND		80	35	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		08/16/17 14:31	08/22/17 10:09	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		08/16/17 14:31	08/22/17 10:09	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		08/16/17 14:31	08/22/17 10:09	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		08/16/17 14:31	08/22/17 10:09	1
bis (2-chloroisopropyl) ether	ND		5.0	0.84	ug/L		08/16/17 14:31	08/22/17 10:09	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		08/16/17 14:31	08/22/17 10:09	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		08/16/17 14:31	08/22/17 10:09	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		08/16/17 14:31	08/22/17 10:09	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		08/16/17 14:31	08/22/17 10:09	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		08/16/17 14:31	08/22/17 10:09	1
Chrysene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		08/16/17 14:31	08/22/17 10:09	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		08/16/17 14:31	08/22/17 10:09	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		08/16/17 14:31	08/22/17 10:09	1
Diethyl phthalate	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-372461/1-A
Matrix: Water
Analysis Batch: 373121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		5.0	0.91	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		08/16/17 14:31	08/22/17 10:09	1
Fluoranthene	ND		5.0	1.6	ug/L		08/16/17 14:31	08/22/17 10:09	1
Fluorene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
Hexachloroethane	ND		5.0	0.60	ug/L		08/16/17 14:31	08/22/17 10:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		08/16/17 14:31	08/22/17 10:09	1
Isophorone	ND		5.0	0.74	ug/L		08/16/17 14:31	08/22/17 10:09	1
Naphthalene	ND		5.0	0.86	ug/L		08/16/17 14:31	08/22/17 10:09	1
Nitrobenzene	ND		5.0	0.81	ug/L		08/16/17 14:31	08/22/17 10:09	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		08/16/17 14:31	08/22/17 10:09	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		08/16/17 14:31	08/22/17 10:09	1
Phenanthrene	ND		5.0	1.2	ug/L		08/16/17 14:31	08/22/17 10:09	1
Pyrene	ND		5.0	1.4	ug/L		08/16/17 14:31	08/22/17 10:09	1
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		08/16/17 14:31	08/22/17 10:09	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		08/16/17 14:31	08/22/17 10:09	1
2-Chlorophenol	ND		5.0	0.66	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		08/16/17 14:31	08/22/17 10:09	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		08/16/17 14:31	08/22/17 10:09	1
2-Nitrophenol	ND		5.0	0.70	ug/L		08/16/17 14:31	08/22/17 10:09	1
4-Nitrophenol	ND		15	10	ug/L		08/16/17 14:31	08/22/17 10:09	1
Pentachlorophenol	ND		10	1.6	ug/L		08/16/17 14:31	08/22/17 10:09	1
Phenol	ND		5.0	0.35	ug/L		08/16/17 14:31	08/22/17 10:09	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		08/16/17 14:31	08/22/17 10:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*52 - 151*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
2-Fluorobiphenyl	*75*		*44 - 120*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
2-Fluorophenol	*42*		*17 - 120*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
Nitrobenzene-d5	*82*		*42 - 120*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
Phenol-d5	*35*		*10 - 120*	*08/16/17 14:31*	*08/22/17 10:09*	*1*
p-Terphenyl-d14	*88*		*22 - 125*	*08/16/17 14:31*	*08/22/17 10:09*	*1*

Lab Sample ID: LCS 480-372461/2-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	38.6		ug/L		77	47 - 145
Acenaphthylene	50.0	38.7		ug/L		77	33 - 145

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372461/2-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	50.0	42.9		ug/L		86	27 - 133
Benzo[a]anthracene	50.0	43.2		ug/L		86	33 - 143
Benzo[a]pyrene	50.0	42.6		ug/L		85	17 - 163
Benzo[b]fluoranthene	50.0	41.7		ug/L		83	24 - 159
Benzo[g,h,i]perylene	50.0	40.8		ug/L		82	1 - 219
Benzo[k]fluoranthene	50.0	46.4		ug/L		93	11 - 162
Bis(2-chloroethyl)ether	50.0	36.6		ug/L		73	12 - 158
Bis(2-chloroethoxy)methane	50.0	37.5		ug/L		75	33 - 184
bis (2-chloroisopropyl) ether	50.0	35.3		ug/L		71	36 - 166
Bis(2-ethylhexyl) phthalate	50.0	45.9		ug/L		92	8 - 158
4-Bromophenyl phenyl ether	50.0	44.2		ug/L		88	53 - 127
Butyl benzyl phthalate	50.0	45.1		ug/L		90	1 - 152
2-Chloronaphthalene	50.0	37.9		ug/L		76	60 - 118
4-Chlorophenyl phenyl ether	50.0	42.2		ug/L		84	25 - 158
Chrysene	50.0	43.8		ug/L		88	17 - 168
Dibenz(a,h)anthracene	50.0	40.6		ug/L		81	1 - 227
Di-n-butyl phthalate	50.0	45.3		ug/L		91	1 - 118
1,2-Dichlorobenzene	50.0	27.3		ug/L		55	32 - 129
1,3-Dichlorobenzene	50.0	24.3		ug/L		49	1 - 172
1,4-Dichlorobenzene	50.0	25.0		ug/L		50	20 - 124
3,3'-Dichlorobenzidine	100	87.6		ug/L		88	1 - 262
Diethyl phthalate	50.0	44.2		ug/L		88	1 - 114
Dimethyl phthalate	50.0	46.0		ug/L		92	1 - 112
2,4-Dinitrotoluene	50.0	44.8		ug/L		90	39 - 139
2,6-Dinitrotoluene	50.0	43.3		ug/L		87	50 - 158
Di-n-octyl phthalate	50.0	44.2		ug/L		88	4 - 146
Fluoranthene	50.0	45.0		ug/L		90	26 - 137
Fluorene	50.0	41.7		ug/L		83	59 - 121
Hexachlorobenzene	50.0	41.3		ug/L		83	1 - 152
Hexachlorocyclopentadiene	50.0	27.1		ug/L		54	5 - 120
Hexachloroethane	50.0	21.2		ug/L		42	40 - 113
Indeno[1,2,3-cd]pyrene	50.0	43.3		ug/L		87	1 - 171
Isophorone	50.0	40.1		ug/L		80	21 - 196
Naphthalene	50.0	34.1		ug/L		68	21 - 133
Nitrobenzene	50.0	37.1		ug/L		74	35 - 180
N-Nitrosodi-n-propylamine	50.0	39.0		ug/L		78	1 - 230
N-Nitrosodiphenylamine	50.0	42.1		ug/L		84	54 - 125
Phenanthrene	50.0	42.2		ug/L		84	54 - 120
Pyrene	50.0	45.7		ug/L		91	52 - 115
1,2,4-Trichlorobenzene	50.0	29.1		ug/L		58	44 - 142
4-Chloro-3-methylphenol	50.0	40.0		ug/L		80	22 - 147
2-Chlorophenol	50.0	35.3		ug/L		71	23 - 134
2,4-Dichlorophenol	50.0	38.7		ug/L		77	39 - 135
2,4-Dimethylphenol	50.0	39.4		ug/L		79	32 - 119
2,4-Dinitrophenol	100	89.3		ug/L		89	1 - 191
4,6-Dinitro-2-methylphenol	100	91.2		ug/L		91	1 - 181
2-Nitrophenol	50.0	34.3		ug/L		69	29 - 182
4-Nitrophenol	100	52.1		ug/L		52	1 - 132

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372461/2-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	100	87.7		ug/L		88	14 - 176
Phenol	50.0	19.0		ug/L		38	5 - 112
2,4,6-Trichlorophenol	50.0	44.8		ug/L		90	37 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*91*		*52 - 151*
2-Fluorobiphenyl	*80*		*44 - 120*
2-Fluorophenol	*49*		*17 - 120*
Nitrobenzene-d5	*74*		*42 - 120*
Phenol-d5	*37*		*10 - 120*
p-Terphenyl-d14	*90*		*22 - 125*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-372457/1-A
Matrix: Water
Analysis Batch: 372582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/16/17 14:17	08/17/17 11:34	1
alpha-BHC	0.0156	J	0.050	0.0077	ug/L		08/16/17 14:17	08/17/17 11:34	1
beta-BHC	ND		0.050	0.025	ug/L		08/16/17 14:17	08/17/17 11:34	1
delta-BHC	ND		0.050	0.010	ug/L		08/16/17 14:17	08/17/17 11:34	1
gamma-BHC (Lindane)	0.0149	J	0.050	0.0080	ug/L		08/16/17 14:17	08/17/17 11:34	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/16/17 14:17	08/17/17 11:34	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/16/17 14:17	08/17/17 11:34	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/16/17 14:17	08/17/17 11:34	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/16/17 14:17	08/17/17 11:34	1
Dieldrin	ND		0.050	0.0098	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endosulfan I	ND		0.050	0.011	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endosulfan II	ND		0.050	0.012	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endrin	ND		0.050	0.014	ug/L		08/16/17 14:17	08/17/17 11:34	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/16/17 14:17	08/17/17 11:34	1
Heptachlor	ND		0.050	0.0085	ug/L		08/16/17 14:17	08/17/17 11:34	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/16/17 14:17	08/17/17 11:34	1
Toxaphene	ND		0.50	0.12	ug/L		08/16/17 14:17	08/17/17 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*23 - 120*	*08/16/17 14:17*	*08/17/17 11:34*	*1*
DCB Decachlorobiphenyl	*66*		*23 - 120*	*08/16/17 14:17*	*08/17/17 11:34*	*1*
Tetrachloro-m-xylene	*82*		*44 - 120*	*08/16/17 14:17*	*08/17/17 11:34*	*1*
Tetrachloro-m-xylene	*60*		*44 - 120*	*08/16/17 14:17*	*08/17/17 11:34*	*1*

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 480-372457/2-A
Matrix: Water
Analysis Batch: 372582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.500	0.274		ug/L		55	40 - 125
alpha-BHC	0.500	0.338		ug/L		68	52 - 125
beta-BHC	0.500	0.436		ug/L		87	52 - 120
delta-BHC	0.500	0.483		ug/L		97	51 - 120
gamma-BHC (Lindane)	0.500	0.400		ug/L		80	56 - 120
4,4'-DDD	0.500	0.536		ug/L		107	64 - 129
4,4'-DDE	0.500	0.432		ug/L		86	50 - 120
4,4'-DDT	0.500	0.542		ug/L		108	59 - 120
Dieldrin	0.500	0.521		ug/L		104	66 - 128
Endosulfan I	0.500	0.479		ug/L		96	57 - 120
Endosulfan II	0.500	0.515		ug/L		103	66 - 131
Endosulfan sulfate	0.500	0.617		ug/L		123	66 - 131
Endrin	0.500	0.542		ug/L		108	65 - 135
Endrin aldehyde	0.500	0.353		ug/L		71	61 - 134
Heptachlor	0.500	0.415		ug/L		83	58 - 120
Heptachlor epoxide	0.500	0.494		ug/L		99	65 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*23 - 120*
DCB Decachlorobiphenyl	*62*		*23 - 120*
Tetrachloro-m-xylene	*98*		*44 - 120*
Tetrachloro-m-xylene	*70*		*44 - 120*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-372759/1-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*36 - 121*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
DCB Decachlorobiphenyl	*60*		*36 - 121*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
Tetrachloro-m-xylene	*114*		*42 - 135*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
Tetrachloro-m-xylene	*99*		*42 - 135*	*08/18/17 07:29*	*08/23/17 14:45*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 480-372759/2-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.00	1.16		ug/L		116	69 - 123
PCB-1260	1.00	1.00		ug/L		100	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*36 - 121*
DCB Decachlorobiphenyl	*50*		*36 - 121*
Tetrachloro-m-xylene	*108*		*42 - 135*
Tetrachloro-m-xylene	*85*		*42 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-372400/1-A
Matrix: Water
Analysis Batch: 372809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 07:47	08/17/17 20:06	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 07:47	08/17/17 20:06	1
Arsenic	ND		0.015	0.0056	mg/L		08/17/17 07:47	08/17/17 20:06	1
Barium	ND		0.0020	0.00070	mg/L		08/17/17 07:47	08/17/17 20:06	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 07:47	08/17/17 20:06	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 07:47	08/17/17 20:06	1
Calcium	ND		0.50	0.10	mg/L		08/17/17 07:47	08/17/17 20:06	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 07:47	08/17/17 20:06	1
Cobalt	ND		0.0040	0.00063	mg/L		08/17/17 07:47	08/17/17 20:06	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 07:47	08/17/17 20:06	1
Iron	ND		0.050	0.019	mg/L		08/17/17 07:47	08/17/17 20:06	1
Lead	ND		0.010	0.0030	mg/L		08/17/17 07:47	08/17/17 20:06	1
Magnesium	ND		0.20	0.043	mg/L		08/17/17 07:47	08/17/17 20:06	1
Manganese	ND		0.0030	0.00040	mg/L		08/17/17 07:47	08/17/17 20:06	1
Nickel	ND		0.010	0.0013	mg/L		08/17/17 07:47	08/17/17 20:06	1
Potassium	ND		0.50	0.10	mg/L		08/17/17 07:47	08/17/17 20:06	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 07:47	08/17/17 20:06	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 07:47	08/17/17 20:06	1
Sodium	ND		1.0	0.32	mg/L		08/17/17 07:47	08/17/17 20:06	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 07:47	08/17/17 20:06	1
Vanadium	ND		0.0050	0.0015	mg/L		08/17/17 07:47	08/17/17 20:06	1
Zinc	ND		0.010	0.0015	mg/L		08/17/17 07:47	08/17/17 20:06	1

Lab Sample ID: LCS 480-372400/2-A
Matrix: Water
Analysis Batch: 372809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.96		mg/L		100	80 - 120
Antimony	0.200	0.203		mg/L		102	80 - 120
Arsenic	0.200	0.208		mg/L		104	80 - 120
Barium	0.200	0.215		mg/L		108	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-372400/2-A
Matrix: Water
Analysis Batch: 372809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.200	0.199		mg/L		100	80 - 120
Cadmium	0.200	0.208		mg/L		104	80 - 120
Calcium	10.0	10.10		mg/L		101	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.200	0.192		mg/L		96	80 - 120
Copper	0.200	0.208		mg/L		104	80 - 120
Iron	10.0	10.33		mg/L		103	80 - 120
Lead	0.200	0.205		mg/L		102	80 - 120
Magnesium	10.0	10.41		mg/L		104	80 - 120
Manganese	0.200	0.213		mg/L		107	80 - 120
Nickel	0.200	0.200		mg/L		100	80 - 120
Potassium	10.0	10.23		mg/L		102	80 - 120
Selenium	0.200	0.199		mg/L		100	80 - 120
Silver	0.0500	0.0490		mg/L		98	80 - 120
Sodium	10.0	10.10		mg/L		101	80 - 120
Thallium	0.200	0.204		mg/L		102	80 - 120
Vanadium	0.200	0.207		mg/L		104	80 - 120
Zinc	0.200	0.207		mg/L		104	80 - 120

Lab Sample ID: MB 480-372354/1-B
Matrix: Water
Analysis Batch: 372808

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 372580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/17/17 09:47	08/17/17 19:08	1
Antimony	ND		0.020	0.0068	mg/L		08/17/17 09:47	08/17/17 19:08	1
Arsenic	ND		0.015	0.0056	mg/L		08/17/17 09:47	08/17/17 19:08	1
Barium	ND		0.0020	0.00070	mg/L		08/17/17 09:47	08/17/17 19:08	1
Beryllium	ND		0.0020	0.00030	mg/L		08/17/17 09:47	08/17/17 19:08	1
Cadmium	ND		0.0020	0.00050	mg/L		08/17/17 09:47	08/17/17 19:08	1
Calcium	ND		0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:08	1
Chromium	ND		0.0040	0.0010	mg/L		08/17/17 09:47	08/17/17 19:08	1
Cobalt	ND		0.0040	0.00063	mg/L		08/17/17 09:47	08/17/17 19:08	1
Copper	ND		0.010	0.0016	mg/L		08/17/17 09:47	08/17/17 19:08	1
Iron	ND		0.050	0.019	mg/L		08/17/17 09:47	08/17/17 19:08	1
Lead	ND		0.010	0.0030	mg/L		08/17/17 09:47	08/17/17 19:08	1
Magnesium	ND		0.20	0.043	mg/L		08/17/17 09:47	08/17/17 19:08	1
Manganese	ND		0.0030	0.00040	mg/L		08/17/17 09:47	08/17/17 19:08	1
Nickel	ND		0.010	0.0013	mg/L		08/17/17 09:47	08/17/17 19:08	1
Potassium	0.321	J	0.50	0.10	mg/L		08/17/17 09:47	08/17/17 19:08	1
Selenium	ND		0.025	0.0087	mg/L		08/17/17 09:47	08/17/17 19:08	1
Silver	ND		0.0060	0.0017	mg/L		08/17/17 09:47	08/17/17 19:08	1
Sodium	ND		1.0	0.32	mg/L		08/17/17 09:47	08/17/17 19:08	1
Thallium	ND		0.020	0.010	mg/L		08/17/17 09:47	08/17/17 19:08	1
Vanadium	ND		0.0050	0.0015	mg/L		08/17/17 09:47	08/17/17 19:08	1
Zinc	0.00236	J	0.010	0.0015	mg/L		08/17/17 09:47	08/17/17 19:08	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-372354/2-B
Matrix: Water
Analysis Batch: 372808

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 372580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.88		mg/L		99	80 - 120
Antimony	0.200	0.200		mg/L		100	80 - 120
Arsenic	0.200	0.206		mg/L		103	80 - 120
Barium	0.200	0.217		mg/L		108	80 - 120
Beryllium	0.200	0.197		mg/L		99	80 - 120
Cadmium	0.200	0.206		mg/L		103	80 - 120
Calcium	10.0	9.99		mg/L		100	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.200	0.190		mg/L		95	80 - 120
Copper	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	10.20		mg/L		102	80 - 120
Lead	0.200	0.200		mg/L		100	80 - 120
Magnesium	10.0	10.28		mg/L		103	80 - 120
Manganese	0.200	0.211		mg/L		106	80 - 120
Nickel	0.200	0.199		mg/L		100	80 - 120
Potassium	10.0	10.12		mg/L		101	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120
Sodium	10.0	10.03		mg/L		100	80 - 120
Thallium	0.200	0.200		mg/L		100	80 - 120
Vanadium	0.200	0.207		mg/L		104	80 - 120
Zinc	0.200	0.212		mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-372343/1-A
Matrix: Water
Analysis Batch: 372474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/16/17 09:00	08/16/17 12:23	1

Lab Sample ID: LCS 480-372343/2-A
Matrix: Water
Analysis Batch: 372474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00607		mg/L		91	80 - 120

Lab Sample ID: MB 480-372354/1-C
Matrix: Water
Analysis Batch: 372684

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 372585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/17/17 10:00	08/17/17 13:43	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-372354/2-C
Matrix: Water
Analysis Batch: 372684

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 372585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00608		mg/L		91	80 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-373481/1-A
Matrix: Water
Analysis Batch: 373566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		08/23/17 09:23	08/23/17 09:23	1
SGT-HEM	ND		5.0	1.9	mg/L		08/23/17 09:23	08/23/17 09:23	1

Lab Sample ID: LCS 480-373481/2-A
Matrix: Water
Analysis Batch: 373566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	39.9	38.52		mg/L		96	78 - 114
SGT-HEM	20.0	14.47		mg/L		72	64 - 132

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-372333/1-A
Matrix: Water
Analysis Batch: 372654

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		08/16/17 08:12	08/17/17 07:20	1

Lab Sample ID: LCS 480-372333/2-A
Matrix: Water
Analysis Batch: 372654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.27		mg/L		91	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-372496/27
Matrix: Water
Analysis Batch: 372496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/16/17 18:10	1

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 480-372496/3
Matrix: Water
Analysis Batch: 372496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/16/17 18:10	1

Lab Sample ID: LCS 480-372496/28
Matrix: Water
Analysis Batch: 372496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.06		mg/L		96	90 - 110

Lab Sample ID: LCS 480-372496/4
Matrix: Water
Analysis Batch: 372496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.74		mg/L		95	90 - 110

Lab Sample ID: MB 480-373203/27
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/21/17 17:54	1

Lab Sample ID: MB 480-373203/3
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/21/17 17:54	1

Lab Sample ID: LCS 480-373203/28
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.74		mg/L		95	90 - 110

Lab Sample ID: LCS 480-373203/4
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.69		mg/L		99	90 - 110

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-372741/1-A
Matrix: Water
Analysis Batch: 372905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/18/17 04:32	08/18/17 14:03	1

Lab Sample ID: LCS 480-372741/2-A
Matrix: Water
Analysis Batch: 372905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.260		mg/L		104	90 - 110

Lab Sample ID: MB 480-372798/1-A
Matrix: Water
Analysis Batch: 372969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/18/17 09:41	08/19/17 09:18	1

Lab Sample ID: LCS 480-372798/2-A
Matrix: Water
Analysis Batch: 372969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.261		mg/L		104	90 - 110

Method: 9040C - pH

Lab Sample ID: 480-122740-1 DU
Matrix: Water
Analysis Batch: 373186

Client Sample ID: MW-28S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.6	HF	11.58		SU		0.4	5
Temperature	21.2	HF	21.10		Degrees C		0.5	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-374036/3
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.0	0.53	mg/L			08/25/17 05:20	1

Lab Sample ID: LCS 480-374036/4
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	213	224.0		mg/L		105	90 - 110

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: 480-122740-2 MS
Matrix: Water
Analysis Batch: 374036

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	1500		1000	2500		mg/L		100	74 - 130

Lab Sample ID: 480-122740-1 DU
Matrix: Water
Analysis Batch: 374036

Client Sample ID: MW-28S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness as calcium carbonate	1500		1470		mg/L		2	15

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-372404/1
Matrix: Water
Analysis Batch: 372404

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/16/17 11:00	1

Lab Sample ID: LCS 480-372404/2
Matrix: Water
Analysis Batch: 372404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	512	504.0		mg/L		98	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-372511/1
Matrix: Water
Analysis Batch: 372511

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/17/17 05:12	1

Lab Sample ID: LCS 480-372511/2
Matrix: Water
Analysis Batch: 372511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	266	267.6		mg/L		100	88 - 110

Lab Sample ID: 480-122740-2 DU
Matrix: Water
Analysis Batch: 372511

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND		ND		mg/L		NC	10

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-372401/1
Matrix: Water
Analysis Batch: 372401

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/16/17 09:16	1

Lab Sample ID: LCS 480-372401/2
Matrix: Water
Analysis Batch: 372401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	180.4		mg/L		91	85 - 115

Lab Sample ID: USB 480-372403/1
Matrix: Water
Analysis Batch: 372403

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/16/17 09:16	1

Lab Sample ID: LCS 480-372403/2
Matrix: Water
Analysis Batch: 372403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	177.6		mg/L		90	85 - 115

Lab Sample ID: 480-122740-1 DU
Matrix: Water
Analysis Batch: 372403

Client Sample ID: MW-28S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	>39.45		>37.4		mg/L		NC	20

Lab Sample ID: USB 480-372619/1
Matrix: Water
Analysis Batch: 372619

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/17/17 05:54	1

Lab Sample ID: LCS 480-372619/2
Matrix: Water
Analysis Batch: 372619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	220.3		mg/L		111	85 - 115

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: USB 480-372621/1
Matrix: Water
Analysis Batch: 372621

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/17/17 05:54	1

Lab Sample ID: LCS 480-372621/2
Matrix: Water
Analysis Batch: 372621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	213.0		mg/L		108	85 - 115

Lab Sample ID: USB 480-373407/1
Matrix: Water
Analysis Batch: 373407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/22/17 15:59	1

Lab Sample ID: LCS 480-373407/2
Matrix: Water
Analysis Batch: 373407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	182.5		mg/L		92	85 - 115

Lab Sample ID: USB 480-373408/1
Matrix: Water
Analysis Batch: 373408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/22/17 15:59	1

Lab Sample ID: LCS 480-373408/2
Matrix: Water
Analysis Batch: 373408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	195.1		mg/L		99	85 - 115

GC/MS VOA

Analysis Batch: 372429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	624	
480-122740-2	DUP-01	Total/NA	Water	624	
MB 480-372429/7	Method Blank	Total/NA	Water	624	
LCS 480-372429/5	Lab Control Sample	Total/NA	Water	624	

Analysis Batch: 372589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1 - DL	MW-28S	Total/NA	Water	624	
480-122740-2 - DL	DUP-01	Total/NA	Water	624	
MB 480-372589/7	Method Blank	Total/NA	Water	624	
LCS 480-372589/5	Lab Control Sample	Total/NA	Water	624	

Analysis Batch: 372871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-3	MW-28D	Total/NA	Water	624	
MB 480-372871/7	Method Blank	Total/NA	Water	624	
LCS 480-372871/5	Lab Control Sample	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 372461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	625	
480-122740-2	DUP-01	Total/NA	Water	625	
480-122740-3	MW-28D	Total/NA	Water	625	
MB 480-372461/1-A	Method Blank	Total/NA	Water	625	
LCS 480-372461/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 373121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-372461/1-A	Method Blank	Total/NA	Water	625	372461

Analysis Batch: 374116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	625	372461
480-122740-2	DUP-01	Total/NA	Water	625	372461
480-122740-3	MW-28D	Total/NA	Water	625	372461
LCS 480-372461/2-A	Lab Control Sample	Total/NA	Water	625	372461

GC Semi VOA

Prep Batch: 372457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	3510C	
480-122740-2	DUP-01	Total/NA	Water	3510C	
480-122740-3	MW-28D	Total/NA	Water	3510C	
MB 480-372457/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372457/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 372582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	608	372457
480-122740-2	DUP-01	Total/NA	Water	608	372457
480-122740-3	MW-28D	Total/NA	Water	608	372457
MB 480-372457/1-A	Method Blank	Total/NA	Water	608	372457
LCS 480-372457/2-A	Lab Control Sample	Total/NA	Water	608	372457

Prep Batch: 372759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	3510C	
480-122740-2	DUP-01	Total/NA	Water	3510C	
480-122740-3	MW-28D	Total/NA	Water	3510C	
MB 480-372759/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372759/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 373562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	608	372759
480-122740-2	DUP-01	Total/NA	Water	608	372759
480-122740-3	MW-28D	Total/NA	Water	608	372759
MB 480-372759/1-A	Method Blank	Total/NA	Water	608	372759
LCS 480-372759/2-A	Lab Control Sample	Total/NA	Water	608	372759

Metals

Prep Batch: 372343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	7470A	
480-122740-2	DUP-01	Total/NA	Water	7470A	
480-122740-3	MW-28D	Total/NA	Water	7470A	
MB 480-372343/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-372343/2-A	Lab Control Sample	Total/NA	Water	7470A	

Filtration Batch: 372354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	FILTRATION	
480-122740-2	DUP-01	Dissolved	Water	FILTRATION	
480-122740-3	MW-28D	Dissolved	Water	FILTRATION	
MB 480-372354/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-372354/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-372354/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-372354/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 372400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	3005A	
480-122740-2	DUP-01	Total/NA	Water	3005A	
480-122740-3	MW-28D	Total/NA	Water	3005A	
MB 480-372400/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-372400/2-A	Lab Control Sample	Total/NA	Water	3005A	

Metals (Continued)

Analysis Batch: 372474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	7470A	372343
480-122740-2	DUP-01	Total/NA	Water	7470A	372343
480-122740-3	MW-28D	Total/NA	Water	7470A	372343
MB 480-372343/1-A	Method Blank	Total/NA	Water	7470A	372343
LCS 480-372343/2-A	Lab Control Sample	Total/NA	Water	7470A	372343

Prep Batch: 372580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	3005A	372354
480-122740-2	DUP-01	Dissolved	Water	3005A	372354
480-122740-3	MW-28D	Dissolved	Water	3005A	372354
MB 480-372354/1-B	Method Blank	Dissolved	Water	3005A	372354
LCS 480-372354/2-B	Lab Control Sample	Dissolved	Water	3005A	372354

Prep Batch: 372585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	7470A	372354
480-122740-2	DUP-01	Dissolved	Water	7470A	372354
480-122740-3	MW-28D	Dissolved	Water	7470A	372354
MB 480-372354/1-C	Method Blank	Dissolved	Water	7470A	372354
LCS 480-372354/2-C	Lab Control Sample	Dissolved	Water	7470A	372354

Analysis Batch: 372684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	7470A	372585
480-122740-2	DUP-01	Dissolved	Water	7470A	372585
480-122740-3	MW-28D	Dissolved	Water	7470A	372585
MB 480-372354/1-C	Method Blank	Dissolved	Water	7470A	372585
LCS 480-372354/2-C	Lab Control Sample	Dissolved	Water	7470A	372585

Analysis Batch: 372808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	6010C	372580
480-122740-2	DUP-01	Dissolved	Water	6010C	372580
480-122740-3	MW-28D	Dissolved	Water	6010C	372580
MB 480-372354/1-B	Method Blank	Dissolved	Water	6010C	372580
LCS 480-372354/2-B	Lab Control Sample	Dissolved	Water	6010C	372580

Analysis Batch: 372809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	6010C	372400
480-122740-2	DUP-01	Total/NA	Water	6010C	372400
480-122740-3	MW-28D	Total/NA	Water	6010C	372400
MB 480-372400/1-A	Method Blank	Total/NA	Water	6010C	372400
LCS 480-372400/2-A	Lab Control Sample	Total/NA	Water	6010C	372400

Analysis Batch: 373036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	6010C	372580
480-122740-2	DUP-01	Dissolved	Water	6010C	372580

Metals (Continued)

Analysis Batch: 373040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	6010C	372400
480-122740-2	DUP-01	Total/NA	Water	6010C	372400

General Chemistry

Prep Batch: 372333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	351.2	
480-122740-2	DUP-01	Total/NA	Water	351.2	
480-122740-3	MW-28D	Total/NA	Water	351.2	
MB 480-372333/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-372333/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 372401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	SM 5210B	
480-122740-2	DUP-01	Total/NA	Water	SM 5210B	
USB 480-372401/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372401/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 372403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	SM 5210B	
480-122740-2	DUP-01	Total/NA	Water	SM 5210B	
USB 480-372403/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372403/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122740-1 DU	MW-28S	Total/NA	Water	SM 5210B	

Analysis Batch: 372404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	SM 2540C	
480-122740-2	DUP-01	Total/NA	Water	SM 2540C	
480-122740-3	MW-28D	Total/NA	Water	SM 2540C	
MB 480-372404/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-372404/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 372431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-3	MW-28D	Total/NA	Water	9040C	
LCS 480-372431/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 372496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-3	MW-28D	Total/NA	Water	410.4	
MB 480-372496/27	Method Blank	Total/NA	Water	410.4	
MB 480-372496/3	Method Blank	Total/NA	Water	410.4	
LCS 480-372496/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-372496/4	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 372511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	SM 2540D	
480-122740-2	DUP-01	Total/NA	Water	SM 2540D	
480-122740-3	MW-28D	Total/NA	Water	SM 2540D	
MB 480-372511/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-372511/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-122740-2 DU	DUP-01	Total/NA	Water	SM 2540D	

Analysis Batch: 372619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-3	MW-28D	Total/NA	Water	SM 5210B	
USB 480-372619/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372619/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 372621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-3	MW-28D	Total/NA	Water	SM 5210B	
USB 480-372621/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372621/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 372654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	351.2	372333
480-122740-2	DUP-01	Total/NA	Water	351.2	372333
480-122740-3	MW-28D	Total/NA	Water	351.2	372333
MB 480-372333/1-A	Method Blank	Total/NA	Water	351.2	372333
LCS 480-372333/2-A	Lab Control Sample	Total/NA	Water	351.2	372333

Prep Batch: 372741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-3	MW-28D	Total/NA	Water	9012B	
MB 480-372741/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-372741/2-A	Lab Control Sample	Total/NA	Water	9012B	

Filtration Batch: 372796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	Filtration	
480-122740-2	DUP-01	Dissolved	Water	Filtration	
480-122740-3	MW-28D	Dissolved	Water	Filtration	

Prep Batch: 372798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	9012B	372796
480-122740-1	MW-28S	Total/NA	Water	9012B	
480-122740-2	DUP-01	Dissolved	Water	9012B	372796
480-122740-2	DUP-01	Total/NA	Water	9012B	
480-122740-3	MW-28D	Dissolved	Water	9012B	372796
MB 480-372798/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-372798/2-A	Lab Control Sample	Total/NA	Water	9012B	

General Chemistry (Continued)

Analysis Batch: 372905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-3	MW-28D	Total/NA	Water	9012B	372741
MB 480-372741/1-A	Method Blank	Total/NA	Water	9012B	372741
LCS 480-372741/2-A	Lab Control Sample	Total/NA	Water	9012B	372741

Analysis Batch: 372969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-372798/1-A	Method Blank	Total/NA	Water	9012B	372798
LCS 480-372798/2-A	Lab Control Sample	Total/NA	Water	9012B	372798

Analysis Batch: 372974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Dissolved	Water	9012B	372798
480-122740-1	MW-28S	Total/NA	Water	9012B	372798
480-122740-2	DUP-01	Dissolved	Water	9012B	372798
480-122740-2	DUP-01	Total/NA	Water	9012B	372798
480-122740-3	MW-28D	Dissolved	Water	9012B	372798

Analysis Batch: 373186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	9040C	
480-122740-2	DUP-01	Total/NA	Water	9040C	
LCS 480-373186/1	Lab Control Sample	Total/NA	Water	9040C	
480-122740-1 DU	MW-28S	Total/NA	Water	9040C	

Analysis Batch: 373203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	410.4	
480-122740-2	DUP-01	Total/NA	Water	410.4	
MB 480-373203/27	Method Blank	Total/NA	Water	410.4	
MB 480-373203/3	Method Blank	Total/NA	Water	410.4	
LCS 480-373203/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-373203/4	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 373407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1 - RA	MW-28S	Total/NA	Water	SM 5210B	
480-122740-2 - RA	DUP-01	Total/NA	Water	SM 5210B	
USB 480-373407/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-373407/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 373408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1 - RA	MW-28S	Total/NA	Water	SM 5210B	
480-122740-2 - RA	DUP-01	Total/NA	Water	SM 5210B	
USB 480-373408/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-373408/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Prep Batch: 373481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	1664B	
480-122740-2	DUP-01	Total/NA	Water	1664B	

General Chemistry (Continued)

Prep Batch: 373481 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-3	MW-28D	Total/NA	Water	1664B	
MB 480-373481/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-373481/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 373566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	1664B	373481
480-122740-2	DUP-01	Total/NA	Water	1664B	373481
480-122740-3	MW-28D	Total/NA	Water	1664B	373481
MB 480-373481/1-A	Method Blank	Total/NA	Water	1664B	373481
LCS 480-373481/2-A	Lab Control Sample	Total/NA	Water	1664B	373481

Analysis Batch: 374036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122740-1	MW-28S	Total/NA	Water	SM 2340C	
480-122740-2	DUP-01	Total/NA	Water	SM 2340C	
480-122740-3	MW-28D	Total/NA	Water	SM 2340C	
MB 480-374036/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-374036/4	Lab Control Sample	Total/NA	Water	SM 2340C	
480-122740-2 MS	DUP-01	Total/NA	Water	SM 2340C	
480-122740-1 DU	MW-28S	Total/NA	Water	SM 2340C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Client Sample ID: MW-28S

Date Collected: 08/15/17 10:15
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		10	372429	08/16/17 21:36	RJF	TAL BUF
Total/NA	Analysis	624	DL	40	372589	08/17/17 16:50	RJF	TAL BUF
Total/NA	Prep	625			372461	08/16/17 14:31	SMP	TAL BUF
Total/NA	Analysis	625		100	374116	08/27/17 19:56	PJQ	TAL BUF
Total/NA	Prep	3510C			372759	08/18/17 07:29	JMP	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 16:32	JMO	TAL BUF
Total/NA	Prep	3510C			372457	08/16/17 14:17	SMP	TAL BUF
Total/NA	Analysis	608		1	372582	08/17/17 12:53	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	3005A			372580	08/17/17 09:47	EMB	TAL BUF
Dissolved	Analysis	6010C		1	372808	08/17/17 19:44	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	3005A			372580	08/17/17 09:47	EMB	TAL BUF
Dissolved	Analysis	6010C		5	373036	08/18/17 16:35	LMH	TAL BUF
Total/NA	Prep	3005A			372400	08/17/17 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		1	372809	08/17/17 21:45	LMH	TAL BUF
Total/NA	Prep	3005A			372400	08/17/17 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		5	373040	08/18/17 17:18	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	7470A			372585	08/17/17 10:00	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	372684	08/17/17 13:57	MVZ	TAL BUF
Total/NA	Prep	7470A			372343	08/16/17 09:00	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372474	08/16/17 12:30	MVZ	TAL BUF
Total/NA	Prep	1664B			373481	08/23/17 09:23	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373566	08/23/17 09:23	DSC	TAL BUF
Total/NA	Prep	351.2			372333	08/16/17 08:12	CLT	TAL BUF
Total/NA	Analysis	351.2		2	372654	08/17/17 09:21	CLT	TAL BUF
Total/NA	Analysis	410.4		5	373203	08/21/17 17:54	CDC	TAL BUF
Dissolved	Filtration	Filtration			372796	08/18/17 09:39	JCL	TAL BUF
Dissolved	Prep	9012B			372798	08/18/17 09:41	JCL	TAL BUF
Dissolved	Analysis	9012B		10	372974	08/19/17 11:20	KRT	TAL BUF
Total/NA	Prep	9012B			372798	08/18/17 09:41	JCL	TAL BUF
Total/NA	Analysis	9012B		10	372974	08/19/17 10:31	KRT	TAL BUF
Total/NA	Analysis	9040C		1	373186	08/21/17 15:47	ALZ	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	372404	08/16/17 11:00	EKB	TAL BUF
Total/NA	Analysis	SM 2540D		1	372511	08/17/17 05:12	KMB	TAL BUF
Total/NA	Analysis	SM 5210B	RA	1	373407	08/22/17 15:59	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B	RA	1	373408	08/22/17 15:59	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	372401	08/16/17 09:16	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	372403	08/16/17 09:16	ALZ	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Client Sample ID: DUP-01

Date Collected: 08/15/17 00:00
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		10	372429	08/16/17 22:00	RJF	TAL BUF
Total/NA	Analysis	624	DL	40	372589	08/17/17 17:14	RJF	TAL BUF
Total/NA	Prep	625			372461	08/16/17 14:31	SMP	TAL BUF
Total/NA	Analysis	625		100	374116	08/27/17 20:22	PJQ	TAL BUF
Total/NA	Prep	3510C			372759	08/18/17 07:29	JMP	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 16:47	JMO	TAL BUF
Total/NA	Prep	3510C			372457	08/16/17 14:17	SMP	TAL BUF
Total/NA	Analysis	608		1	372582	08/17/17 13:13	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	3005A			372580	08/17/17 09:47	EMB	TAL BUF
Dissolved	Analysis	6010C		1	372808	08/17/17 19:48	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	3005A			372580	08/17/17 09:47	EMB	TAL BUF
Dissolved	Analysis	6010C		5	373036	08/18/17 16:38	LMH	TAL BUF
Total/NA	Prep	3005A			372400	08/17/17 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		1	372809	08/17/17 21:48	LMH	TAL BUF
Total/NA	Prep	3005A			372400	08/17/17 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		5	373040	08/18/17 17:22	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	7470A			372585	08/17/17 10:00	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	372684	08/17/17 13:59	MVZ	TAL BUF
Total/NA	Prep	7470A			372343	08/16/17 09:00	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372474	08/16/17 12:32	MVZ	TAL BUF
Total/NA	Prep	1664B			373481	08/23/17 09:23	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373566	08/23/17 09:23	DSC	TAL BUF
Total/NA	Prep	351.2			372333	08/16/17 08:12	CLT	TAL BUF
Total/NA	Analysis	351.2		2	372654	08/17/17 09:21	CLT	TAL BUF
Total/NA	Analysis	410.4		5	373203	08/21/17 17:54	CDC	TAL BUF
Dissolved	Filtration	Filtration			372796	08/18/17 09:39	JCL	TAL BUF
Dissolved	Prep	9012B			372798	08/18/17 09:41	JCL	TAL BUF
Dissolved	Analysis	9012B		10	372974	08/19/17 10:28	KRT	TAL BUF
Total/NA	Prep	9012B			372798	08/18/17 09:41	JCL	TAL BUF
Total/NA	Analysis	9012B		10	372974	08/19/17 10:32	KRT	TAL BUF
Total/NA	Analysis	9040C		1	373186	08/21/17 15:47	ALZ	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	372404	08/16/17 11:00	EKB	TAL BUF
Total/NA	Analysis	SM 2540D		1	372511	08/17/17 05:12	KMB	TAL BUF
Total/NA	Analysis	SM 5210B	RA	1	373407	08/22/17 15:59	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B	RA	1	373408	08/22/17 15:59	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	372401	08/16/17 09:16	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	372403	08/16/17 09:16	ALZ	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Client Sample ID: MW-28D

Date Collected: 08/15/17 15:30
Date Received: 08/16/17 02:00

Lab Sample ID: 480-122740-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		2	372871	08/18/17 18:02	RJF	TAL BUF
Total/NA	Prep	625			372461	08/16/17 14:31	SMP	TAL BUF
Total/NA	Analysis	625		10	374116	08/27/17 20:48	PJQ	TAL BUF
Total/NA	Prep	3510C			372759	08/18/17 07:29	JMP	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 17:03	JMO	TAL BUF
Total/NA	Prep	3510C			372457	08/16/17 14:17	SMP	TAL BUF
Total/NA	Analysis	608		1	372582	08/17/17 13:32	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	3005A			372580	08/17/17 09:47	EMB	TAL BUF
Dissolved	Analysis	6010C		1	372808	08/17/17 19:51	LMH	TAL BUF
Total/NA	Prep	3005A			372400	08/17/17 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		1	372809	08/17/17 21:52	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372354	08/16/17 08:42	EMB	TAL BUF
Dissolved	Prep	7470A			372585	08/17/17 10:00	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	372684	08/17/17 14:00	MVZ	TAL BUF
Total/NA	Prep	7470A			372343	08/16/17 09:00	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372474	08/16/17 12:34	MVZ	TAL BUF
Total/NA	Prep	1664B			373481	08/23/17 09:23	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373566	08/23/17 09:23	DSC	TAL BUF
Total/NA	Prep	351.2			372333	08/16/17 08:12	CLT	TAL BUF
Total/NA	Analysis	351.2		2	372654	08/17/17 09:21	CLT	TAL BUF
Total/NA	Analysis	410.4		1	372496	08/16/17 18:10	CDC	TAL BUF
Dissolved	Filtration	Filtration			372796	08/18/17 09:39	JCL	TAL BUF
Dissolved	Prep	9012B			372798	08/18/17 09:41	JCL	TAL BUF
Dissolved	Analysis	9012B		2	372974	08/19/17 10:29	KRT	TAL BUF
Total/NA	Prep	9012B			372741	08/18/17 04:32	BEV	TAL BUF
Total/NA	Analysis	9012B		1	372905	08/18/17 14:23	KRT	TAL BUF
Total/NA	Analysis	9040C		1	372431	08/16/17 11:35	ALZ	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	372404	08/16/17 11:00	EKB	TAL BUF
Total/NA	Analysis	SM 2540D		1	372511	08/17/17 05:12	KMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	372619	08/17/17 05:54	LAW	TAL BUF
Total/NA	Analysis	SM 5210B		1	372621	08/17/17 05:54	LAW	TAL BUF

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Diphenylhydrazine

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
9040C		Water	pH
9040C		Water	Temperature

Laboratory: EMLab P&K - Houston TCEQ Cert T104704489

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
AIHA-LAP, LLC	EMLAP		193549	01-01-18
Texas	NELAP	6	T104704489-17-10	07-31-18

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
Local Method	General Sub Contract Method	NONE	EMLab Hou

Protocol References:

1664B = 1664B

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122740-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-122740-1	MW-28S	Water	08/15/17 10:15	08/16/17 02:00
480-122740-2	DUP-01	Water	08/15/17 00:00	08/16/17 02:00
480-122740-3	MW-28D	Water	08/15/17 15:30	08/16/17 02:00

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122740

Date of Sampling: 08-15-2017
Date of Receipt: 08-18-2017
Date of Report: 08-31-2017

Slime Forming Bacteria Presence/Absence Report

Location:	MW-28S(480-122740-1)
Comments (see below)	None
Lab ID-Version‡:	8314864-1
Sample Type	Water
Slime Forming Bacteria	**Absent**

Location:	MW-28D(480-122740-3)
Comments (see below)	None
Lab ID-Version‡:	8314866-1
Sample Type	Water
Slime Forming Bacteria	**Absent**

Comments:

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Dayo
Re: 480-122740

Date of Sampling: 08/15/2017
Date of Receipt: 08/18/2017
Date of Report: 08/23/2017

Iron Bacteria Presence/Absence Report

Location:	MW-28S(480-122740-1)
Comments (see below)	A
Lab ID-Version‡:	8314863-1
Sample Type	Water
Iron Bacteria	**Absent**

Location:	MW-28D(480-122740-3)
Comments (see below)	A
Lab ID-Version‡:	8314865-1
Sample Type	Water
Iron Bacteria	**Absent**

Comments: A) Iron bacteria method: SM chapter 9240B., 20th edition.

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
A TestAmerica Company

Report for:

Melissa Deyo
TestAmerica-Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Regarding: Project: 480-122740
EML ID: 1779147

Approved by:



Technical Manager
Magzoub Ismail

Dates of Analysis:
MPN-Sulfate reducing bacteria: 09-11-2017

Service SOPs: MPN-Sulfate reducing bacteria (EM-BT-S-1059)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122740

Date of Sampling: 08-15-2017
Date of Receipt: 08-18-2017
Date of Report: 09-12-2017

MPN REPORT

Location: MW-28S(480-122740-1) Lab ID-Version‡: 8314867-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	**Method**	**Setup Time**	**MPN*/Unit**	**LCL****	**UCL****
Sulfate-reducing Bacteria	SM 9240 D	08/18/17 16:00	24	6	100

Comments:

Location: MW-28D(480-122740-3) Lab ID-Version‡: 8314868-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	**Method**	**Setup Time**	**MPN*/Unit**	**LCL****	**UCL****
Sulfate-reducing Bacteria	SM 9240 D	08/18/17 16:00	< 3	-	21

Comments:

*MPN - Most Probable Number.
MPN methods:
SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.
FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.
MPN values are calculated using the method of Thomas (1942).
The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, non-clustered, bacteria not attached to particulate matter within a sample. Due to the fact that bacteria can cluster and adhere to materials, values determined by the MPN method should be considered estimates in many instances.
**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM).
Interpretation is left to the company and/or persons who conducted the field work.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmericc
THE LEADER IN ENVIRONMENTAL TESTING

480-122740 COC

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier:	COC No: 480-100780-23982.3
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 3 of 3
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065				
Phone: (518) 250-7300	PO #: B0036648.1401.00006			
Email: Aubrey.Thomas@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid- North Albany	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624_6ml - Priority Pollutant List - VOCs	608_Pest - Priority Pollutant Pesticides	626 - Priority Pollutant List - SVOCs	608_PCB - Priority Pollutant PCBs	9012_ReactivoCN, 9034_Reactive	9040C - pH	1010A - Ignitability	6010C, 7470A	6010C, 7470A	9012B - Cyanide	9012B - Dissolved Cyanide	1664B - O&G	2540D - TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	N	N	D	N	B	N	S	N		
MW-28S	8/15/17	1015	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
DUP-01	8/15/17	-	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
MW-28D	8/15/17	1530	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
				Water																	
				Water																	
				Water																	

8/15/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: 1215
Relinquished by:	Date/Time: 8/15/17 1715	Company: Arcadis	Received by:	Date/Time: 8/15/17 ~~1750~~ 1715	Company: TA
Relinquished by:	Date/Time: 8/15/17 1800	Company: TA	Received by:	Date/Time: 8-16-17 0200	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.2, 0.3, 0.4 #1

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-100780-23982.4
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 4 of 3
Company: ARCADIS U.S. Inc				Job #:

Address: 855 Route 146 Suite 210	Due Date Requested:	
City: Clifton Park	TAT Requested (days): Standard	
State, Zip: NY, 12065		
Phone: (518) 250-7300	PO #: B0036648.1401.00006	
Email: Aubrey.Thomas@arcadis.com	WO #:	
Project Name: National Grid - North Albany Project	Project #: 48016528	
Site: National Grid, North Albany	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	6210B - BOD	351.2, 410.4	2340C - Hardness	SUBCONTRACT - Iron reducing bacteria	SUBCONTRACT - Slime forming bacteria	SUBCONTRACT - Sulfate reduing bacteria	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	D	N	N	N		
MW-28S	8/15/17	1015	G	Water	N	N	1	1	1	1	1	1	1		
DUP-01	8/15/17	-	G	Water	N	N	1	1	1	1					
MW-28D	8/15/17	1530	G	Water	N	N	1	1	1	1	1	1	1		
				Water											
				Water											
				Water											

8/15

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	8/15/17 1715	Arcadis	Karl Zacher	8/15/17 1715	
Relinquished by: Karl Zacher	8/15/17 1800	TA		8-16-17 0200	TAO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.6, 0.7, 0.9 #1

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9/20/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Temp: 8.4°C

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-36672.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: EMLab P&K		Accreditations Required (See note): NELAP - New York		Job #: 480-122740-1
Address: Subcont. report available upon request, 6310 Rothway,	Due Date Requested: 8/28/2017			Preservation Codes:
City: Houston	TAT Requested (days):			
State, Zip: TX, 77040	PO #:			
Phone:	WO #:			
Email:	Project #: 48016528			
Project Name: National Grid - North Albany Project	SSOW#:			
Site:				

001779147

K - EDTA
L - EDA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/Waste, BT=Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (BioActivity - Iron-Reducing Bacteria)	SUB (BioActivity - Slime-Forming Bacteria)	SUB (BioActivity - Sulfate-Reducing Bacteria)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-28S (480-122740-1)	8/15/17	10:15 Eastern		Water			X	X	X		
MW-28D (480-122740-3)	8/15/17	15:30 Eastern		Water			X	X	X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analyte/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/17/17 1600	Company: TAS	Received by:	Date/Time: 08/18/17 10:45	Company: EMLab
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-122740-1

Login Number: 122740

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-122816-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Melissa Deyo

Authorized for release by:
9/22/2017 11:28:11 AM

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-122816-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-122816-1

Receipt
The samples were received on 8/17/2017 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C and 0.9º C.

GC/MS VOA
Method(s) 624: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: MW-8 (480-122816-1), DUP-02 (480-122816-2) and MW-13 (480-122816-3). The requested target analyte list contains 2-chloroethyl vinyl ether, which is an acid-labile compound that degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-13 (480-122816-3). Elevated reporting limits (RLs) are provided.

Method(s) 625: The following sample was re-extracted due to 3 surrogates recovering below quality control limits: DUP-02 (480-122816-2). The sample was re-extracted outside of holding time. Both sets of data have been reported.

Method(s) 625: The following sample was diluted due to color and cloudy appearance: DUP-02 (480-122816-2) RE. Elevated reporting limits (RL) are provided.

Method(s) 625: The following sample was diluted due to color and appearance: DUP-02 (480-122816-2). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 608: All primary data for analytical batch 373562 is reported from the ZB-35 column.

Method(s) 608: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 608: All primary data for analytical batch 372883 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-8 (480-122816-1) and DUP-02 (480-122816-2). The reporting limits (RLs) have been adjusted proportionately.

Method(s) SM 5210B: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-8 (480-122816-1) and DUP-02 (480-122816-2). The reporting limits (RLs) for Biochemical Oxygen Demand have been adjusted proportionately.

Method(s) SM 5210B: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-8 (480-122816-1) and DUP-02 (480-122816-2). The reporting limits (RLs) for Carbonaceous Biochemical Oxygen Demand have been adjusted proportionately.

Job ID: 480-122816-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) SM 5210B: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-13 (480-122816-3). The reporting limits (RLs) for Carbonaceous Biochemical Oxygen Demand have been adjusted proportionately.

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-8 (480-122816-1), DUP-02 (480-122816-2) and MW-13 (480-122816-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-372756.

Method(s) 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-372647.

Method(s) 625: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-8 (480-122816-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 625: Re-extraction of the following sample was performed outside of the preparation holding time due to failure of quality control parameters in the initial analysis. Both sets of data are reported. DUP-02 (480-122816-2)

Method(s) 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-374535.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Client Sample ID: MW-8 — Lab Sample ID: 480-122816-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.60	J	5.0	0.60	ug/L	1		624	Total/NA
Acenaphthene	32	J	50	8.1	ug/L	1		625	Total/NA
Fluorene	10	J	50	10	ug/L	1		625	Total/NA
Barium	0.19		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	119		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0018	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	13.7		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0037	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	11.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.85		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	417		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0015	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.15		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	114		0.50	0.10	mg/L	1		6010C	Dissolved
Iron	0.51		0.050	0.019	mg/L	1		6010C	Dissolved
Lead	0.0036	J	0.010	0.0030	mg/L	1		6010C	Dissolved
Magnesium	10.7		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.80	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	5.7		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	398		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0092	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Total Kjeldahl Nitrogen	1.2		0.20	0.15	mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	40.2		10.0	5.0	mg/L	1		410.4	Total/NA
Cyanide	0.045		0.010	0.0050	mg/L	1		9012B	Total/NA
Hardness as calcium carbonate	395		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	1400		20.0	8.0	mg/L	1		SM 2540C	Total/NA
Cyanide	0.044		0.010	0.0050	mg/L	1		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.09	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	21.5	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Suspended Solids	32.0		4.0	4.0	mg/L	1		SM 2540D	Total/NA

Client Sample ID: DUP-02 — Lab Sample ID: 480-122816-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	22	J	24	3.9	ug/L	5		625	Total/NA
Fluorene	6.8	J	24	4.8	ug/L	5		625	Total/NA
Acenaphthene - RE	38	H	25	4.1	ug/L	5		625	Total/NA
Fluorene - RE	10	J H	25	5.0	ug/L	5		625	Total/NA
Barium	0.20		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	123		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	15.8		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0037	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	11.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.89		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	426		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0018	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.15		0.0020	0.00070	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-02 (Continued)

Lab Sample ID: 480-122816-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	115		0.50	0.10	mg/L	1		6010C	Dissolved
Iron	1.0		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	10.6		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.81	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	5.7		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	393		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0071	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Total Kjeldahl Nitrogen	1.3		0.20	0.15	mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	45.9		10.0	5.0	mg/L	1		410.4	Total/NA
Cyanide	0.046		0.010	0.0050	mg/L	1		9012B	Total/NA
Hardness as calcium carbonate	360		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	1400		20.0	8.0	mg/L	1		SM 2540C	Total/NA
Cyanide	0.041		0.010	0.0050	mg/L	1		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.09	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	21.8	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Suspended Solids	26.0		4.0	4.0	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 480-122816-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	18		5.0	0.60	ug/L	1		624	Total/NA
Acenaphthene	69		48	7.7	ug/L	10		625	Total/NA
Fluorene	15	J	48	9.5	ug/L	10		625	Total/NA
4,4'-DDD	0.015	J	0.050	0.0092	ug/L	1		608	Total/NA
Arsenic	0.010	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.21		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	87.5		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	1.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	10.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.59		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0014	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	15.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	44.7		1.0	0.32	mg/L	1		6010C	Total/NA
Arsenic	0.012	J	0.015	0.0056	mg/L	1		6010C	Dissolved
Barium	0.17		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	84.1		0.50	0.10	mg/L	1		6010C	Dissolved
Iron	0.041	J	0.050	0.019	mg/L	1		6010C	Dissolved
Lead	0.0036	J	0.010	0.0030	mg/L	1		6010C	Dissolved
Magnesium	9.7		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.55	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0015	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	14.1		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	41.5		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0066	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Oil & Grease	2.9	J	5.6	1.6	mg/L	1		1664B	Total/NA
Total Kjeldahl Nitrogen	20.1		1.0	0.75	mg/L	5		351.2	Total/NA
Chemical Oxygen Demand	43.1		10.0	5.0	mg/L	1		410.4	Total/NA
Cyanide	0.043		0.010	0.0050	mg/L	1		9012B	Total/NA
Hardness as calcium carbonate	268		4.0	1.1	mg/L	1		SM 2340C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Client Sample ID: MW-13 (Continued)

Lab Sample ID: 480-122816-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	480		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	3.7		2.4	2.4	mg/L	1		SM 5210B	Total/NA
Cyanide	0.031		0.010	0.0050	mg/L	1		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.43	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	21.9	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-8

Date Collected: 08/16/17 10:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/18/17 18:26	1
Acrylonitrile	ND		50	1.9	ug/L			08/18/17 18:26	1
Benzene	**0.60**	**J**	5.0	0.60	ug/L			08/18/17 18:26	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/18/17 18:26	1
Bromoform	ND		5.0	0.47	ug/L			08/18/17 18:26	1
Bromomethane	ND		5.0	1.2	ug/L			08/18/17 18:26	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/18/17 18:26	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/18/17 18:26	1
Chloroethane	ND		5.0	0.87	ug/L			08/18/17 18:26	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/18/17 18:26	1
Chloroform	ND		5.0	0.54	ug/L			08/18/17 18:26	1
Chloromethane	ND		5.0	0.64	ug/L			08/18/17 18:26	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/18/17 18:26	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/18/17 18:26	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/18/17 18:26	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/18/17 18:26	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/18/17 18:26	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/18/17 18:26	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/18/17 18:26	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/18/17 18:26	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/18/17 18:26	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/18/17 18:26	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/18/17 18:26	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/18/17 18:26	1
Toluene	ND		5.0	0.45	ug/L			08/18/17 18:26	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/18/17 18:26	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/18/17 18:26	1
Trichloroethene	ND		5.0	0.60	ug/L			08/18/17 18:26	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/18/17 18:26	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/18/17 18:26	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/18/17 18:26	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/18/17 18:26	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/18/17 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*68 - 130*		*08/18/17 18:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*08/18/17 18:26*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*08/18/17 18:26*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*08/18/17 18:26*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**32**	**J**	50	8.1	ug/L		08/17/17 14:08	08/27/17 23:23	1
Acenaphthylene	ND		50	8.7	ug/L		08/17/17 14:08	08/27/17 23:23	1
Anthracene	ND		50	14	ug/L		08/17/17 14:08	08/27/17 23:23	1
Benzidine	ND		800	350	ug/L		08/17/17 14:08	08/27/17 23:23	1
Benzo[a]anthracene	ND		50	11	ug/L		08/17/17 14:08	08/27/17 23:23	1
Benzo[a]pyrene	ND		50	13	ug/L		08/17/17 14:08	08/27/17 23:23	1
Benzo[b]fluoranthene	ND		50	12	ug/L		08/17/17 14:08	08/27/17 23:23	1
Benzo[g,h,i]perylene	ND		50	15	ug/L		08/17/17 14:08	08/27/17 23:23	1

Client Sample ID: MW-8
Date Collected: 08/16/17 10:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		50	13	ug/L		08/17/17 14:08	08/27/17 23:23	1
Bis(2-chloroethyl)ether	ND		50	9.3	ug/L		08/17/17 14:08	08/27/17 23:23	1
Bis(2-chloroethoxy)methane	ND		50	7.5	ug/L		08/17/17 14:08	08/27/17 23:23	1
bis (2-chloroisopropyl) ether	ND		50	8.4	ug/L		08/17/17 14:08	08/27/17 23:23	1
Bis(2-ethylhexyl) phthalate	ND		100	12	ug/L		08/17/17 14:08	08/27/17 23:23	1
4-Bromophenyl phenyl ether	ND		50	14	ug/L		08/17/17 14:08	08/27/17 23:23	1
Butyl benzyl phthalate	ND		50	11	ug/L		08/17/17 14:08	08/27/17 23:23	1
2-Chloronaphthalene	ND		50	9.1	ug/L		08/17/17 14:08	08/27/17 23:23	1
4-Chlorophenyl phenyl ether	ND		50	13	ug/L		08/17/17 14:08	08/27/17 23:23	1
Chrysene	ND		50	10	ug/L		08/17/17 14:08	08/27/17 23:23	1
Dibenz(a,h)anthracene	ND		50	15	ug/L		08/17/17 14:08	08/27/17 23:23	1
Di-n-butyl phthalate	ND		50	16	ug/L		08/17/17 14:08	08/27/17 23:23	1
1,2-Dichlorobenzene	ND		100	50	ug/L		08/17/17 14:08	08/27/17 23:23	1
1,3-Dichlorobenzene	ND		100	6.9	ug/L		08/17/17 14:08	08/27/17 23:23	1
1,4-Dichlorobenzene	ND		100	56	ug/L		08/17/17 14:08	08/27/17 23:23	1
3,3'-Dichlorobenzidine	ND		50	8.2	ug/L		08/17/17 14:08	08/27/17 23:23	1
Diethyl phthalate	ND		50	10	ug/L		08/17/17 14:08	08/27/17 23:23	1
Dimethyl phthalate	ND		50	9.1	ug/L		08/17/17 14:08	08/27/17 23:23	1
2,4-Dinitrotoluene	ND		100	50	ug/L		08/17/17 14:08	08/27/17 23:23	1
2,6-Dinitrotoluene	ND		50	10	ug/L		08/17/17 14:08	08/27/17 23:23	1
Di-n-octyl phthalate	ND		50	12	ug/L		08/17/17 14:08	08/27/17 23:23	1
1,2-Diphenylhydrazine	ND		100	7.8	ug/L		08/17/17 14:08	08/27/17 23:23	1
Fluoranthene	ND		50	16	ug/L		08/17/17 14:08	08/27/17 23:23	1
Fluorene	**10**	**J**	50	10	ug/L		08/17/17 14:08	08/27/17 23:23	1
Hexachlorobenzene	ND		50	10	ug/L		08/17/17 14:08	08/27/17 23:23	1
Hexachlorobutadiene	ND		50	10	ug/L		08/17/17 14:08	08/27/17 23:23	1
Hexachlorocyclopentadiene	ND		100	50	ug/L		08/17/17 14:08	08/27/17 23:23	1
Hexachloroethane	ND		50	6.0	ug/L		08/17/17 14:08	08/27/17 23:23	1
Indeno[1,2,3-cd]pyrene	ND		50	15	ug/L		08/17/17 14:08	08/27/17 23:23	1
Isophorone	ND		50	7.4	ug/L		08/17/17 14:08	08/27/17 23:23	1
Naphthalene	ND		50	8.6	ug/L		08/17/17 14:08	08/27/17 23:23	1
Nitrobenzene	ND		50	8.1	ug/L		08/17/17 14:08	08/27/17 23:23	1
N-Nitrosodi-n-propylamine	ND		50	8.9	ug/L		08/17/17 14:08	08/27/17 23:23	1
N-Nitrosodimethylamine	ND	*	100	50	ug/L		08/17/17 14:08	08/27/17 23:23	1
N-Nitrosodiphenylamine	ND		50	4.0	ug/L		08/17/17 14:08	08/27/17 23:23	1
Phenanthrene	ND		50	12	ug/L		08/17/17 14:08	08/27/17 23:23	1
Pyrene	ND		50	14	ug/L		08/17/17 14:08	08/27/17 23:23	1
1,2,4-Trichlorobenzene	ND		100	8.2	ug/L		08/17/17 14:08	08/27/17 23:23	1
4-Chloro-3-methylphenol	ND		50	11	ug/L		08/17/17 14:08	08/27/17 23:23	1
2-Chlorophenol	ND		50	6.6	ug/L		08/17/17 14:08	08/27/17 23:23	1
2,4-Dichlorophenol	ND		50	7.7	ug/L		08/17/17 14:08	08/27/17 23:23	1
2,4-Dimethylphenol	ND		50	14	ug/L		08/17/17 14:08	08/27/17 23:23	1
2,4-Dinitrophenol	ND		100	50	ug/L		08/17/17 14:08	08/27/17 23:23	1
4,6-Dinitro-2-methylphenol	ND		100	6.6	ug/L		08/17/17 14:08	08/27/17 23:23	1
2-Nitrophenol	ND		50	7.0	ug/L		08/17/17 14:08	08/27/17 23:23	1
4-Nitrophenol	ND		150	100	ug/L		08/17/17 14:08	08/27/17 23:23	1
Pentachlorophenol	ND		100	16	ug/L		08/17/17 14:08	08/27/17 23:23	1
Phenol	ND		50	3.5	ug/L		08/17/17 14:08	08/27/17 23:23	1
2,4,6-Trichlorophenol	ND		50	10	ug/L		08/17/17 14:08	08/27/17 23:23	1

Client Sample ID: MW-8
Date Collected: 08/16/17 10:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	*93*		*52 - 151*	*08/17/17 14:08*	*08/27/17 23:23*	*1*
2-Fluorobiphenyl	*64*		*44 - 120*	*08/17/17 14:08*	*08/27/17 23:23*	*1*
2-Fluorophenol	*39*		*17 - 120*	*08/17/17 14:08*	*08/27/17 23:23*	*1*
Nitrobenzene-d5	*60*		*42 - 120*	*08/17/17 14:08*	*08/27/17 23:23*	*1*
Phenol-d5	*30*		*10 - 120*	*08/17/17 14:08*	*08/27/17 23:23*	*1*
p-Terphenyl-d14	*85*		*22 - 125*	*08/17/17 14:08*	*08/27/17 23:23*	*1*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/18/17 07:24	08/18/17 16:47	1
alpha-BHC	ND		0.050	0.0077	ug/L		08/18/17 07:24	08/18/17 16:47	1
beta-BHC	ND		0.050	0.025	ug/L		08/18/17 07:24	08/18/17 16:47	1
delta-BHC	ND		0.050	0.010	ug/L		08/18/17 07:24	08/18/17 16:47	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		08/18/17 07:24	08/18/17 16:47	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/18/17 07:24	08/18/17 16:47	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/18/17 07:24	08/18/17 16:47	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 16:47	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 16:47	1
Dieldrin	ND		0.050	0.0098	ug/L		08/18/17 07:24	08/18/17 16:47	1
Endosulfan I	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 16:47	1
Endosulfan II	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 16:47	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 16:47	1
Endrin	ND		0.050	0.014	ug/L		08/18/17 07:24	08/18/17 16:47	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 16:47	1
Heptachlor	ND		0.050	0.0085	ug/L		08/18/17 07:24	08/18/17 16:47	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/18/17 07:24	08/18/17 16:47	1
Toxaphene	ND		0.50	0.12	ug/L		08/18/17 07:24	08/18/17 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*58*		*23 - 120*	*08/18/17 07:24*	*08/18/17 16:47*	*1*
DCB Decachlorobiphenyl	*50*		*23 - 120*	*08/18/17 07:24*	*08/18/17 16:47*	*1*
Tetrachloro-m-xylene	*102*		*44 - 120*	*08/18/17 07:24*	*08/18/17 16:47*	*1*
Tetrachloro-m-xylene	*71*		*44 - 120*	*08/18/17 07:24*	*08/18/17 16:47*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:18	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:18	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:18	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:18	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:18	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 17:18	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*102*		*36 - 121*	*08/18/17 07:29*	*08/23/17 17:18*	*1*
DCB Decachlorobiphenyl	*88*		*36 - 121*	*08/18/17 07:29*	*08/23/17 17:18*	*1*
Tetrachloro-m-xylene	*87*		*42 - 135*	*08/18/17 07:29*	*08/23/17 17:18*	*1*
Tetrachloro-m-xylene	*82*		*42 - 135*	*08/18/17 07:29*	*08/23/17 17:18*	*1*

Client Sample ID: MW-8
Date Collected: 08/16/17 10:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-1
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/18/17 08:37	08/22/17 05:49	1
Antimony	ND		0.020	0.0068	mg/L		08/18/17 08:37	08/22/17 05:49	1
Arsenic	ND		0.015	0.0056	mg/L		08/18/17 08:37	08/22/17 05:49	1
Barium	**0.19**		0.0020	0.00070	mg/L		08/18/17 08:37	08/22/17 05:49	1
Beryllium	ND		0.0020	0.00030	mg/L		08/18/17 08:37	08/22/17 05:49	1
Cadmium	ND		0.0020	0.00050	mg/L		08/18/17 08:37	08/22/17 05:49	1
Calcium	**119**		0.50	0.10	mg/L		08/18/17 08:37	08/22/17 05:49	1
Chromium	**0.0018**	**J**	0.0040	0.0010	mg/L		08/18/17 08:37	08/22/17 05:49	1
Cobalt	ND		0.0040	0.00063	mg/L		08/18/17 08:37	08/22/17 05:49	1
Copper	ND		0.010	0.0016	mg/L		08/18/17 08:37	08/22/17 05:49	1
Iron	**13.7**		0.050	0.019	mg/L		08/18/17 08:37	08/22/17 05:49	1
Lead	**0.0037**	**J**	0.010	0.0030	mg/L		08/18/17 08:37	08/22/17 05:49	1
Magnesium	**11.1**		0.20	0.043	mg/L		08/18/17 08:37	08/22/17 05:49	1
Manganese	**0.85**		0.0030	0.00040	mg/L		08/18/17 08:37	08/22/17 05:49	1
Nickel	ND		0.010	0.0013	mg/L		08/18/17 08:37	08/22/17 05:49	1
Potassium	**5.9**		0.50	0.10	mg/L		08/18/17 08:37	08/22/17 05:49	1
Selenium	ND		0.025	0.0087	mg/L		08/18/17 08:37	08/22/17 05:49	1
Silver	ND		0.0060	0.0017	mg/L		08/18/17 08:37	08/22/17 05:49	1
Sodium	**417**		1.0	0.32	mg/L		08/18/17 08:37	08/22/17 05:49	1
Thallium	ND		0.020	0.010	mg/L		08/18/17 08:37	08/22/17 05:49	1
Vanadium	ND		0.0050	0.0015	mg/L		08/18/17 08:37	08/22/17 05:49	1
Zinc	**0.0015**	**J**	0.010	0.0015	mg/L		08/18/17 08:37	08/22/17 05:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/21/17 07:50	08/22/17 02:58	1
Antimony	ND		0.020	0.0068	mg/L		08/21/17 07:50	08/22/17 02:58	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/17 07:50	08/22/17 02:58	1
Barium	**0.15**		0.0020	0.00070	mg/L		08/21/17 07:50	08/22/17 02:58	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/17 07:50	08/22/17 02:58	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/17 07:50	08/22/17 02:58	1
Calcium	**114**		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 02:58	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/17 07:50	08/22/17 02:58	1
Cobalt	ND		0.0040	0.00063	mg/L		08/21/17 07:50	08/22/17 02:58	1
Copper	ND		0.010	0.0016	mg/L		08/21/17 07:50	08/22/17 02:58	1
Iron	**0.51**		0.050	0.019	mg/L		08/21/17 07:50	08/22/17 02:58	1
Lead	**0.0036**	**J**	0.010	0.0030	mg/L		08/21/17 07:50	08/22/17 02:58	1
Magnesium	**10.7**		0.20	0.043	mg/L		08/21/17 07:50	08/22/17 02:58	1
Manganese	**0.80**	**B**	0.0030	0.00040	mg/L		08/21/17 07:50	08/22/17 02:58	1
Nickel	ND		0.010	0.0013	mg/L		08/21/17 07:50	08/22/17 02:58	1
Potassium	**5.7**		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 02:58	1
Selenium	ND		0.025	0.0087	mg/L		08/21/17 07:50	08/22/17 02:58	1
Silver	ND		0.0060	0.0017	mg/L		08/21/17 07:50	08/22/17 02:58	1
Sodium	**398**		1.0	0.32	mg/L		08/21/17 07:50	08/22/17 02:58	1
Thallium	ND		0.020	0.010	mg/L		08/21/17 07:50	08/22/17 02:58	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/17 07:50	08/22/17 02:58	1
Zinc	**0.0092**	**J B**	0.010	0.0015	mg/L		08/21/17 07:50	08/22/17 02:58	1

Client Sample ID: MW-8

Date Collected: 08/16/17 10:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/17/17 07:48	08/17/17 13:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/17 09:30	08/21/17 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.5	1.5	mg/L		08/23/17 09:23	08/23/17 09:23	1
SGT-HEM	ND		5.5	2.1	mg/L		08/23/17 09:23	08/23/17 09:23	1
Total Kjeldahl Nitrogen	**1.2**		0.20	0.15	mg/L		08/22/17 03:57	08/22/17 12:57	1
Chemical Oxygen Demand	**40.2**		10.0	5.0	mg/L			08/17/17 18:19	1
Cyanide	**0.045**		0.010	0.0050	mg/L		08/21/17 02:05	08/21/17 11:24	1
Hardness as calcium carbonate	**395**		10.0	2.6	mg/L			08/25/17 05:20	1
Total Dissolved Solids	**1400**		20.0	8.0	mg/L			08/18/17 09:13	1
Biochemical Oxygen Demand	ND		2.4	2.4	mg/L			08/17/17 13:59	1
Carbonaceous Biochemical Oxygen Demand	ND		2.4	2.4	mg/L			08/17/17 13:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.09**	**HF**	0.100	0.100	SU			08/17/17 20:54	1
Temperature	**21.5**	**HF**	0.00100	0.00100	Degrees C			08/17/17 20:54	1
Total Suspended Solids	**32.0**		4.0	4.0	mg/L			08/21/17 00:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	**0.044**		0.010	0.0050	mg/L		08/26/17 10:56	08/27/17 12:50	1

Client Sample ID: DUP-02

Date Collected: 08/16/17 00:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/18/17 18:50	1
Acrylonitrile	ND		50	1.9	ug/L			08/18/17 18:50	1
Benzene	ND		5.0	0.60	ug/L			08/18/17 18:50	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/18/17 18:50	1
Bromoform	ND		5.0	0.47	ug/L			08/18/17 18:50	1
Bromomethane	ND		5.0	1.2	ug/L			08/18/17 18:50	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/18/17 18:50	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/18/17 18:50	1
Chloroethane	ND		5.0	0.87	ug/L			08/18/17 18:50	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/18/17 18:50	1
Chloroform	ND		5.0	0.54	ug/L			08/18/17 18:50	1
Chloromethane	ND		5.0	0.64	ug/L			08/18/17 18:50	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/18/17 18:50	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/18/17 18:50	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/18/17 18:50	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/18/17 18:50	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/18/17 18:50	1

Client Sample ID: DUP-02
Date Collected: 08/16/17 00:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/18/17 18:50	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/18/17 18:50	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/18/17 18:50	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/18/17 18:50	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/18/17 18:50	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/18/17 18:50	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/18/17 18:50	1
Toluene	ND		5.0	0.45	ug/L			08/18/17 18:50	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/18/17 18:50	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/18/17 18:50	1
Trichloroethene	ND		5.0	0.60	ug/L			08/18/17 18:50	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/18/17 18:50	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/18/17 18:50	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/18/17 18:50	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/18/17 18:50	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/18/17 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*08/18/17 18:50*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*08/18/17 18:50*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*08/18/17 18:50*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*08/18/17 18:50*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**22**	**J**	24	3.9	ug/L		08/17/17 14:08	08/27/17 23:49	5
Acenaphthylene	ND		24	4.1	ug/L		08/17/17 14:08	08/27/17 23:49	5
Anthracene	ND		24	6.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
Benzidine	ND		380	170	ug/L		08/17/17 14:08	08/27/17 23:49	5
Benzo[a]anthracene	ND		24	5.2	ug/L		08/17/17 14:08	08/27/17 23:49	5
Benzo[a]pyrene	ND		24	6.2	ug/L		08/17/17 14:08	08/27/17 23:49	5
Benzo[b]fluoranthene	ND		24	5.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
Benzo[g,h,i]perylene	ND		24	7.1	ug/L		08/17/17 14:08	08/27/17 23:49	5
Benzo[k]fluoranthene	ND		24	6.2	ug/L		08/17/17 14:08	08/27/17 23:49	5
Bis(2-chloroethyl)ether	ND		24	4.4	ug/L		08/17/17 14:08	08/27/17 23:49	5
Bis(2-chloroethoxy)methane	ND		24	3.6	ug/L		08/17/17 14:08	08/27/17 23:49	5
bis (2-chloroisopropyl) ether	ND		24	4.0	ug/L		08/17/17 14:08	08/27/17 23:49	5
Bis(2-ethylhexyl) phthalate	ND		48	5.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
4-Bromophenyl phenyl ether	ND		24	6.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
Butyl benzyl phthalate	ND		24	5.2	ug/L		08/17/17 14:08	08/27/17 23:49	5
2-Chloronaphthalene	ND		24	4.3	ug/L		08/17/17 14:08	08/27/17 23:49	5
4-Chlorophenyl phenyl ether	ND		24	6.2	ug/L		08/17/17 14:08	08/27/17 23:49	5
Chrysene	ND		24	4.8	ug/L		08/17/17 14:08	08/27/17 23:49	5
Dibenz(a,h)anthracene	ND		24	7.1	ug/L		08/17/17 14:08	08/27/17 23:49	5
Di-n-butyl phthalate	ND		24	7.6	ug/L		08/17/17 14:08	08/27/17 23:49	5
1,2-Dichlorobenzene	ND		48	24	ug/L		08/17/17 14:08	08/27/17 23:49	5
1,3-Dichlorobenzene	ND		48	3.3	ug/L		08/17/17 14:08	08/27/17 23:49	5
1,4-Dichlorobenzene	ND		48	27	ug/L		08/17/17 14:08	08/27/17 23:49	5
3,3'-Dichlorobenzidine	ND		24	3.9	ug/L		08/17/17 14:08	08/27/17 23:49	5
Diethyl phthalate	ND		24	4.8	ug/L		08/17/17 14:08	08/27/17 23:49	5

Client Sample ID: DUP-02
Date Collected: 08/16/17 00:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-2
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		24	4.3	ug/L		08/17/17 14:08	08/27/17 23:49	5
2,4-Dinitrotoluene	ND		48	24	ug/L		08/17/17 14:08	08/27/17 23:49	5
2,6-Dinitrotoluene	ND		24	4.8	ug/L		08/17/17 14:08	08/27/17 23:49	5
Di-n-octyl phthalate	ND		24	5.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
1,2-Diphenylhydrazine	ND		48	3.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
Fluoranthene	ND		24	7.6	ug/L		08/17/17 14:08	08/27/17 23:49	5
Fluorene	**6.8**	**J**	24	4.8	ug/L		08/17/17 14:08	08/27/17 23:49	5
Hexachlorobenzene	ND		24	4.8	ug/L		08/17/17 14:08	08/27/17 23:49	5
Hexachlorobutadiene	ND		24	4.8	ug/L		08/17/17 14:08	08/27/17 23:49	5
Hexachlorocyclopentadiene	ND		48	24	ug/L		08/17/17 14:08	08/27/17 23:49	5
Hexachloroethane	ND		24	2.9	ug/L		08/17/17 14:08	08/27/17 23:49	5
Indeno[1,2,3-cd]pyrene	ND		24	7.1	ug/L		08/17/17 14:08	08/27/17 23:49	5
Isophorone	ND		24	3.5	ug/L		08/17/17 14:08	08/27/17 23:49	5
Naphthalene	ND		24	4.1	ug/L		08/17/17 14:08	08/27/17 23:49	5
Nitrobenzene	ND		24	3.9	ug/L		08/17/17 14:08	08/27/17 23:49	5
N-Nitrosodi-n-propylamine	ND		24	4.2	ug/L		08/17/17 14:08	08/27/17 23:49	5
N-Nitrosodimethylamine	ND	*	48	24	ug/L		08/17/17 14:08	08/27/17 23:49	5
N-Nitrosodiphenylamine	ND		24	1.9	ug/L		08/17/17 14:08	08/27/17 23:49	5
Phenanthrene	ND		24	5.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
Pyrene	ND		24	6.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
1,2,4-Trichlorobenzene	ND		48	3.9	ug/L		08/17/17 14:08	08/27/17 23:49	5
4-Chloro-3-methylphenol	ND		24	5.2	ug/L		08/17/17 14:08	08/27/17 23:49	5
2-Chlorophenol	ND		24	3.1	ug/L		08/17/17 14:08	08/27/17 23:49	5
2,4-Dichlorophenol	ND		24	3.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
2,4-Dimethylphenol	ND		24	6.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
2,4-Dinitrophenol	ND		48	24	ug/L		08/17/17 14:08	08/27/17 23:49	5
4,6-Dinitro-2-methylphenol	ND		48	3.1	ug/L		08/17/17 14:08	08/27/17 23:49	5
2-Nitrophenol	ND		24	3.3	ug/L		08/17/17 14:08	08/27/17 23:49	5
4-Nitrophenol	ND		71	48	ug/L		08/17/17 14:08	08/27/17 23:49	5
Pentachlorophenol	ND		48	7.6	ug/L		08/17/17 14:08	08/27/17 23:49	5
Phenol	ND		24	1.7	ug/L		08/17/17 14:08	08/27/17 23:49	5
2,4,6-Trichlorophenol	ND		24	4.8	ug/L		08/17/17 14:08	08/27/17 23:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*52 - 151*	*08/17/17 14:08*	*08/27/17 23:49*	*5*
2-Fluorobiphenyl	*39*	*X*	*44 - 120*	*08/17/17 14:08*	*08/27/17 23:49*	*5*
2-Fluorophenol	*10*	*X*	*17 - 120*	*08/17/17 14:08*	*08/27/17 23:49*	*5*
Nitrobenzene-d5	*34*	*X*	*42 - 120*	*08/17/17 14:08*	*08/27/17 23:49*	*5*
Phenol-d5	*15*		*10 - 120*	*08/17/17 14:08*	*08/27/17 23:49*	*5*
p-Terphenyl-d14	*34*		*22 - 125*	*08/17/17 14:08*	*08/27/17 23:49*	*5*

Method: 625 - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**38**	**H**	25	4.1	ug/L		08/30/17 08:07	09/01/17 02:43	5
Acenaphthylene	ND	H	25	4.4	ug/L		08/30/17 08:07	09/01/17 02:43	5
Anthracene	ND	H	25	7.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Benzidine	ND	H	400	180	ug/L		08/30/17 08:07	09/01/17 02:43	5
Benzo[a]anthracene	ND	H	25	5.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
Benzo[a]pyrene	ND	H	25	6.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
Benzo[b]fluoranthene	ND	H	25	6.0	ug/L		08/30/17 08:07	09/01/17 02:43	5

Client Sample ID: DUP-02
Date Collected: 08/16/17 00:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-2
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND	H	25	7.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
Benzo[k]fluoranthene	ND	H	25	6.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
Bis(2-chloroethyl)ether	ND	H	25	4.7	ug/L		08/30/17 08:07	09/01/17 02:43	5
Bis(2-chloroethoxy)methane	ND	H	25	3.8	ug/L		08/30/17 08:07	09/01/17 02:43	5
bis (2-chloroisopropyl) ether	ND	H	25	4.2	ug/L		08/30/17 08:07	09/01/17 02:43	5
Bis(2-ethylhexyl) phthalate	ND	H	50	6.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
4-Bromophenyl phenyl ether	ND	H	25	7.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Butyl benzyl phthalate	ND	H	25	5.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
2-Chloronaphthalene	ND	H	25	4.6	ug/L		08/30/17 08:07	09/01/17 02:43	5
4-Chlorophenyl phenyl ether	ND	H	25	6.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
Chrysene	ND	H	25	5.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Dibenz(a,h)anthracene	ND	H	25	7.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
Di-n-butyl phthalate	ND	H	25	8.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
1,2-Dichlorobenzene	ND	H	50	25	ug/L		08/30/17 08:07	09/01/17 02:43	5
1,3-Dichlorobenzene	ND	H	50	3.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
1,4-Dichlorobenzene	ND	H	50	28	ug/L		08/30/17 08:07	09/01/17 02:43	5
3,3'-Dichlorobenzidine	ND	H	25	4.1	ug/L		08/30/17 08:07	09/01/17 02:43	5
Diethyl phthalate	ND	H	25	5.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Dimethyl phthalate	ND	H	25	4.6	ug/L		08/30/17 08:07	09/01/17 02:43	5
2,4-Dinitrotoluene	ND	H	50	25	ug/L		08/30/17 08:07	09/01/17 02:43	5
2,6-Dinitrotoluene	ND	H	25	5.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Di-n-octyl phthalate	ND	H	25	6.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
1,2-Diphenylhydrazine	ND	H	50	3.9	ug/L		08/30/17 08:07	09/01/17 02:43	5
Fluoranthene	ND	H	25	8.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Fluorene	**10**	**J H**	25	5.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Hexachlorobenzene	ND	H	25	5.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Hexachlorobutadiene	ND	H	25	5.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Hexachlorocyclopentadiene	ND	H	50	25	ug/L		08/30/17 08:07	09/01/17 02:43	5
Hexachloroethane	ND	H	25	3.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Indeno[1,2,3-cd]pyrene	ND	H	25	7.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
Isophorone	ND	H	25	3.7	ug/L		08/30/17 08:07	09/01/17 02:43	5
Naphthalene	ND	H	25	4.3	ug/L		08/30/17 08:07	09/01/17 02:43	5
Nitrobenzene	ND	H	25	4.1	ug/L		08/30/17 08:07	09/01/17 02:43	5
N-Nitrosodi-n-propylamine	ND	H	25	4.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
N-Nitrosodimethylamine	ND	H	50	25	ug/L		08/30/17 08:07	09/01/17 02:43	5
N-Nitrosodiphenylamine	ND	H	25	2.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Phenanthrene	ND	H	25	6.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Pyrene	ND	H	25	7.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
1,2,4-Trichlorobenzene	ND	H	50	4.1	ug/L		08/30/17 08:07	09/01/17 02:43	5
4-Chloro-3-methylphenol	ND	H	25	5.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
2-Chlorophenol	ND	H	25	3.3	ug/L		08/30/17 08:07	09/01/17 02:43	5
2,4-Dichlorophenol	ND	H	25	3.9	ug/L		08/30/17 08:07	09/01/17 02:43	5
2,4-Dimethylphenol	ND	H	25	7.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
2,4-Dinitrophenol	ND	H	50	25	ug/L		08/30/17 08:07	09/01/17 02:43	5
4,6-Dinitro-2-methylphenol	ND	H	50	3.3	ug/L		08/30/17 08:07	09/01/17 02:43	5
2-Nitrophenol	ND	H	25	3.5	ug/L		08/30/17 08:07	09/01/17 02:43	5
4-Nitrophenol	ND	H	75	50	ug/L		08/30/17 08:07	09/01/17 02:43	5
Pentachlorophenol	ND	H	50	8.0	ug/L		08/30/17 08:07	09/01/17 02:43	5
Phenol	ND	H	25	1.8	ug/L		08/30/17 08:07	09/01/17 02:43	5

Client Sample ID: DUP-02
Date Collected: 08/16/17 00:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-2
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	H	25	5.0	ug/L		08/30/17 08:07	09/01/17 02:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*52 - 151*	*08/30/17 08:07*	*09/01/17 02:43*	*5*
2-Fluorobiphenyl	*74*		*44 - 120*	*08/30/17 08:07*	*09/01/17 02:43*	*5*
2-Fluorophenol	*32*		*17 - 120*	*08/30/17 08:07*	*09/01/17 02:43*	*5*
Nitrobenzene-d5	*70*		*42 - 120*	*08/30/17 08:07*	*09/01/17 02:43*	*5*
Phenol-d5	*26*		*10 - 120*	*08/30/17 08:07*	*09/01/17 02:43*	*5*
p-Terphenyl-d14	*63*		*22 - 125*	*08/30/17 08:07*	*09/01/17 02:43*	*5*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/18/17 07:24	08/18/17 17:07	1
alpha-BHC	ND		0.050	0.0077	ug/L		08/18/17 07:24	08/18/17 17:07	1
beta-BHC	ND		0.050	0.025	ug/L		08/18/17 07:24	08/18/17 17:07	1
delta-BHC	ND		0.050	0.010	ug/L		08/18/17 07:24	08/18/17 17:07	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		08/18/17 07:24	08/18/17 17:07	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/18/17 07:24	08/18/17 17:07	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/18/17 07:24	08/18/17 17:07	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 17:07	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 17:07	1
Dieldrin	ND		0.050	0.0098	ug/L		08/18/17 07:24	08/18/17 17:07	1
Endosulfan I	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 17:07	1
Endosulfan II	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 17:07	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 17:07	1
Endrin	ND		0.050	0.014	ug/L		08/18/17 07:24	08/18/17 17:07	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 17:07	1
Heptachlor	ND		0.050	0.0085	ug/L		08/18/17 07:24	08/18/17 17:07	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/18/17 07:24	08/18/17 17:07	1
Toxaphene	ND		0.50	0.12	ug/L		08/18/17 07:24	08/18/17 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*23 - 120*	*08/18/17 07:24*	*08/18/17 17:07*	*1*
DCB Decachlorobiphenyl	*55*		*23 - 120*	*08/18/17 07:24*	*08/18/17 17:07*	*1*
Tetrachloro-m-xylene	*90*		*44 - 120*	*08/18/17 07:24*	*08/18/17 17:07*	*1*
Tetrachloro-m-xylene	*64*		*44 - 120*	*08/18/17 07:24*	*08/18/17 17:07*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:33	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:33	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:33	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:33	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:33	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 17:33	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*36 - 121*	*08/18/17 07:29*	*08/23/17 17:33*	*1*
DCB Decachlorobiphenyl	*90*		*36 - 121*	*08/18/17 07:29*	*08/23/17 17:33*	*1*
Tetrachloro-m-xylene	*90*		*42 - 135*	*08/18/17 07:29*	*08/23/17 17:33*	*1*

Client Sample ID: DUP-02
Date Collected: 08/16/17 00:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-2
Matrix: Water

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		42 - 135	08/18/17 07:29	08/23/17 17:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/18/17 08:37	08/22/17 05:53	1
Antimony	ND		0.020	0.0068	mg/L		08/18/17 08:37	08/22/17 05:53	1
Arsenic	ND		0.015	0.0056	mg/L		08/18/17 08:37	08/22/17 05:53	1
Barium	**0.20**		0.0020	0.00070	mg/L		08/18/17 08:37	08/22/17 05:53	1
Beryllium	ND		0.0020	0.00030	mg/L		08/18/17 08:37	08/22/17 05:53	1
Cadmium	ND		0.0020	0.00050	mg/L		08/18/17 08:37	08/22/17 05:53	1
Calcium	**123**		0.50	0.10	mg/L		08/18/17 08:37	08/22/17 05:53	1
Chromium	ND		0.0040	0.0010	mg/L		08/18/17 08:37	08/22/17 05:53	1
Cobalt	ND		0.0040	0.00063	mg/L		08/18/17 08:37	08/22/17 05:53	1
Copper	ND		0.010	0.0016	mg/L		08/18/17 08:37	08/22/17 05:53	1
Iron	**15.8**		0.050	0.019	mg/L		08/18/17 08:37	08/22/17 05:53	1
Lead	**0.0037**	**J**	0.010	0.0030	mg/L		08/18/17 08:37	08/22/17 05:53	1
Magnesium	**11.3**		0.20	0.043	mg/L		08/18/17 08:37	08/22/17 05:53	1
Manganese	**0.89**		0.0030	0.00040	mg/L		08/18/17 08:37	08/22/17 05:53	1
Nickel	ND		0.010	0.0013	mg/L		08/18/17 08:37	08/22/17 05:53	1
Potassium	**6.1**		0.50	0.10	mg/L		08/18/17 08:37	08/22/17 05:53	1
Selenium	ND		0.025	0.0087	mg/L		08/18/17 08:37	08/22/17 05:53	1
Silver	ND		0.0060	0.0017	mg/L		08/18/17 08:37	08/22/17 05:53	1
Sodium	**426**		1.0	0.32	mg/L		08/18/17 08:37	08/22/17 05:53	1
Thallium	ND		0.020	0.010	mg/L		08/18/17 08:37	08/22/17 05:53	1
Vanadium	ND		0.0050	0.0015	mg/L		08/18/17 08:37	08/22/17 05:53	1
Zinc	**0.0018**	**J**	0.010	0.0015	mg/L		08/18/17 08:37	08/22/17 05:53	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/21/17 07:50	08/22/17 03:01	1
Antimony	ND	F1 F2	0.020	0.0068	mg/L		08/21/17 07:50	08/22/17 03:01	1
Arsenic	ND	F1 F2	0.015	0.0056	mg/L		08/21/17 07:50	08/22/17 03:01	1
Barium	**0.15**		0.0020	0.00070	mg/L		08/21/17 07:50	08/22/17 03:01	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/17 07:50	08/22/17 03:01	1
Cadmium	ND	F1 F2	0.0020	0.00050	mg/L		08/21/17 07:50	08/22/17 03:01	1
Calcium	**115**		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 03:01	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/17 07:50	08/22/17 03:01	1
Cobalt	ND	F1 F2	0.0040	0.00063	mg/L		08/21/17 07:50	08/22/17 03:01	1
Copper	ND		0.010	0.0016	mg/L		08/21/17 07:50	08/22/17 03:01	1
Iron	**1.0**		0.050	0.019	mg/L		08/21/17 07:50	08/22/17 03:01	1
Lead	ND	F1 F2	0.010	0.0030	mg/L		08/21/17 07:50	08/22/17 03:01	1
Magnesium	**10.6**		0.20	0.043	mg/L		08/21/17 07:50	08/22/17 03:01	1
Manganese	**0.81**	**B**	0.0030	0.00040	mg/L		08/21/17 07:50	08/22/17 03:01	1
Nickel	ND	F1 F2	0.010	0.0013	mg/L		08/21/17 07:50	08/22/17 03:01	1
Potassium	**5.7**		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 03:01	1
Selenium	ND	F1 F2	0.025	0.0087	mg/L		08/21/17 07:50	08/22/17 03:01	1
Silver	ND		0.0060	0.0017	mg/L		08/21/17 07:50	08/22/17 03:01	1
Sodium	**393**		1.0	0.32	mg/L		08/21/17 07:50	08/22/17 03:01	1
Thallium	ND	F1 F2	0.020	0.010	mg/L		08/21/17 07:50	08/22/17 03:01	1

Client Sample ID: DUP-02

Date Collected: 08/16/17 00:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-2
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.0050	0.0015	mg/L		08/21/17 07:50	08/22/17 03:01	1
Zinc	**0.0071**	**J B**	0.010	0.0015	mg/L		08/21/17 07:50	08/22/17 03:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/17/17 07:48	08/17/17 13:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/17 09:30	08/21/17 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.5	1.6	mg/L		08/24/17 10:57	08/24/17 10:57	1
SGT-HEM	ND	F1	5.5	2.2	mg/L		08/24/17 10:57	08/24/17 10:57	1
Total Kjeldahl Nitrogen	**1.3**		0.20	0.15	mg/L		08/22/17 03:57	08/22/17 12:57	1
Chemical Oxygen Demand	**45.9**		10.0	5.0	mg/L			08/17/17 18:19	1
Cyanide	**0.046**		0.010	0.0050	mg/L		08/21/17 02:05	08/21/17 11:26	1
Hardness as calcium carbonate	**360**		10.0	2.6	mg/L			08/25/17 05:20	1
Total Dissolved Solids	**1400**		20.0	8.0	mg/L			08/18/17 09:13	1
Biochemical Oxygen Demand	ND		2.4	2.4	mg/L			08/17/17 13:59	1
Carbonaceous Biochemical Oxygen Demand	ND		2.4	2.4	mg/L			08/17/17 13:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.09**	**HF**	0.100	0.100	SU			08/17/17 20:58	1
Temperature	**21.8**	**HF**	0.00100	0.00100	Degrees C			08/17/17 20:58	1
Total Suspended Solids	**26.0**		4.0	4.0	mg/L			08/18/17 00:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	**0.041**		0.010	0.0050	mg/L		08/26/17 10:56	08/27/17 12:55	1

Client Sample ID: MW-13

Date Collected: 08/16/17 14:30
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-3
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/18/17 19:14	1
Acrylonitrile	ND		50	1.9	ug/L			08/18/17 19:14	1
Benzene	**18**		5.0	0.60	ug/L			08/18/17 19:14	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/18/17 19:14	1
Bromoform	ND		5.0	0.47	ug/L			08/18/17 19:14	1
Bromomethane	ND		5.0	1.2	ug/L			08/18/17 19:14	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/18/17 19:14	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/18/17 19:14	1
Chloroethane	ND		5.0	0.87	ug/L			08/18/17 19:14	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/18/17 19:14	1
Chloroform	ND		5.0	0.54	ug/L			08/18/17 19:14	1
Chloromethane	ND		5.0	0.64	ug/L			08/18/17 19:14	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/18/17 19:14	1

Client Sample ID: MW-13
Date Collected: 08/16/17 14:30
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-3
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/18/17 19:14	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/18/17 19:14	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/18/17 19:14	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/18/17 19:14	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/18/17 19:14	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/18/17 19:14	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/18/17 19:14	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/18/17 19:14	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/18/17 19:14	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/18/17 19:14	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/18/17 19:14	1
Toluene	ND		5.0	0.45	ug/L			08/18/17 19:14	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/18/17 19:14	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/18/17 19:14	1
Trichloroethene	ND		5.0	0.60	ug/L			08/18/17 19:14	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/18/17 19:14	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/18/17 19:14	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/18/17 19:14	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/18/17 19:14	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/18/17 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*68 - 130*		*08/18/17 19:14*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 123*		*08/18/17 19:14*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/18/17 19:14*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*08/18/17 19:14*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**69**		48	7.7	ug/L		08/17/17 14:08	08/28/17 00:15	10
Acenaphthylene	ND		48	8.3	ug/L		08/17/17 14:08	08/28/17 00:15	10
Anthracene	ND		48	13	ug/L		08/17/17 14:08	08/28/17 00:15	10
Benzidine	ND		760	330	ug/L		08/17/17 14:08	08/28/17 00:15	10
Benzo[a]anthracene	ND		48	10	ug/L		08/17/17 14:08	08/28/17 00:15	10
Benzo[a]pyrene	ND		48	12	ug/L		08/17/17 14:08	08/28/17 00:15	10
Benzo[b]fluoranthene	ND		48	11	ug/L		08/17/17 14:08	08/28/17 00:15	10
Benzo[g,h,i]perylene	ND		48	14	ug/L		08/17/17 14:08	08/28/17 00:15	10
Benzo[k]fluoranthene	ND		48	12	ug/L		08/17/17 14:08	08/28/17 00:15	10
Bis(2-chloroethyl)ether	ND		48	8.9	ug/L		08/17/17 14:08	08/28/17 00:15	10
Bis(2-chloroethoxy)methane	ND		48	7.1	ug/L		08/17/17 14:08	08/28/17 00:15	10
bis (2-chloroisopropyl) ether	ND		48	8.0	ug/L		08/17/17 14:08	08/28/17 00:15	10
Bis(2-ethylhexyl) phthalate	ND		95	11	ug/L		08/17/17 14:08	08/28/17 00:15	10
4-Bromophenyl phenyl ether	ND		48	13	ug/L		08/17/17 14:08	08/28/17 00:15	10
Butyl benzyl phthalate	ND		48	10	ug/L		08/17/17 14:08	08/28/17 00:15	10
2-Chloronaphthalene	ND		48	8.7	ug/L		08/17/17 14:08	08/28/17 00:15	10
4-Chlorophenyl phenyl ether	ND		48	12	ug/L		08/17/17 14:08	08/28/17 00:15	10
Chrysene	ND		48	9.5	ug/L		08/17/17 14:08	08/28/17 00:15	10
Dibenz(a,h)anthracene	ND		48	14	ug/L		08/17/17 14:08	08/28/17 00:15	10
Di-n-butyl phthalate	ND		48	15	ug/L		08/17/17 14:08	08/28/17 00:15	10
1,2-Dichlorobenzene	ND		95	48	ug/L		08/17/17 14:08	08/28/17 00:15	10

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Client Sample ID: MW-13
Date Collected: 08/16/17 14:30
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-3
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		95	6.6	ug/L		08/17/17 14:08	08/28/17 00:15	10
1,4-Dichlorobenzene	ND		95	54	ug/L		08/17/17 14:08	08/28/17 00:15	10
3,3'-Dichlorobenzidine	ND		48	7.8	ug/L		08/17/17 14:08	08/28/17 00:15	10
Diethyl phthalate	ND		48	9.5	ug/L		08/17/17 14:08	08/28/17 00:15	10
Dimethyl phthalate	ND		48	8.7	ug/L		08/17/17 14:08	08/28/17 00:15	10
2,4-Dinitrotoluene	ND		95	48	ug/L		08/17/17 14:08	08/28/17 00:15	10
2,6-Dinitrotoluene	ND		48	9.5	ug/L		08/17/17 14:08	08/28/17 00:15	10
Di-n-octyl phthalate	ND		48	11	ug/L		08/17/17 14:08	08/28/17 00:15	10
1,2-Diphenylhydrazine	ND		95	7.4	ug/L		08/17/17 14:08	08/28/17 00:15	10
Fluoranthene	ND		48	15	ug/L		08/17/17 14:08	08/28/17 00:15	10
Fluorene	**15**	**J**	48	9.5	ug/L		08/17/17 14:08	08/28/17 00:15	10
Hexachlorobenzene	ND		48	9.5	ug/L		08/17/17 14:08	08/28/17 00:15	10
Hexachlorobutadiene	ND		48	9.5	ug/L		08/17/17 14:08	08/28/17 00:15	10
Hexachlorocyclopentadiene	ND		95	48	ug/L		08/17/17 14:08	08/28/17 00:15	10
Hexachloroethane	ND		48	5.7	ug/L		08/17/17 14:08	08/28/17 00:15	10
Indeno[1,2,3-cd]pyrene	ND		48	14	ug/L		08/17/17 14:08	08/28/17 00:15	10
Isophorone	ND		48	7.0	ug/L		08/17/17 14:08	08/28/17 00:15	10
Naphthalene	ND		48	8.2	ug/L		08/17/17 14:08	08/28/17 00:15	10
Nitrobenzene	ND		48	7.7	ug/L		08/17/17 14:08	08/28/17 00:15	10
N-Nitrosodi-n-propylamine	ND		48	8.5	ug/L		08/17/17 14:08	08/28/17 00:15	10
N-Nitrosodimethylamine	ND	*	95	48	ug/L		08/17/17 14:08	08/28/17 00:15	10
N-Nitrosodiphenylamine	ND		48	3.8	ug/L		08/17/17 14:08	08/28/17 00:15	10
Phenanthrene	ND		48	11	ug/L		08/17/17 14:08	08/28/17 00:15	10
Pyrene	ND		48	13	ug/L		08/17/17 14:08	08/28/17 00:15	10
1,2,4-Trichlorobenzene	ND		95	7.8	ug/L		08/17/17 14:08	08/28/17 00:15	10
4-Chloro-3-methylphenol	ND		48	10	ug/L		08/17/17 14:08	08/28/17 00:15	10
2-Chlorophenol	ND		48	6.3	ug/L		08/17/17 14:08	08/28/17 00:15	10
2,4-Dichlorophenol	ND		48	7.3	ug/L		08/17/17 14:08	08/28/17 00:15	10
2,4-Dimethylphenol	ND		48	13	ug/L		08/17/17 14:08	08/28/17 00:15	10
2,4-Dinitrophenol	ND		95	48	ug/L		08/17/17 14:08	08/28/17 00:15	10
4,6-Dinitro-2-methylphenol	ND		95	6.3	ug/L		08/17/17 14:08	08/28/17 00:15	10
2-Nitrophenol	ND		48	6.7	ug/L		08/17/17 14:08	08/28/17 00:15	10
4-Nitrophenol	ND		140	95	ug/L		08/17/17 14:08	08/28/17 00:15	10
Pentachlorophenol	ND		95	15	ug/L		08/17/17 14:08	08/28/17 00:15	10
Phenol	ND		48	3.3	ug/L		08/17/17 14:08	08/28/17 00:15	10
2,4,6-Trichlorophenol	ND		48	9.5	ug/L		08/17/17 14:08	08/28/17 00:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*116*		*52 - 151*	*08/17/17 14:08*	*08/28/17 00:15*	*10*
2-Fluorobiphenyl	*59*		*44 - 120*	*08/17/17 14:08*	*08/28/17 00:15*	*10*
2-Fluorophenol	*17*		*17 - 120*	*08/17/17 14:08*	*08/28/17 00:15*	*10*
Nitrobenzene-d5	*65*		*42 - 120*	*08/17/17 14:08*	*08/28/17 00:15*	*10*
Phenol-d5	*20*		*10 - 120*	*08/17/17 14:08*	*08/28/17 00:15*	*10*
p-Terphenyl-d14	*36*		*22 - 125*	*08/17/17 14:08*	*08/28/17 00:15*	*10*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/18/17 07:24	08/18/17 17:26	1
alpha-BHC	ND		0.050	0.0077	ug/L		08/18/17 07:24	08/18/17 17:26	1
beta-BHC	ND		0.050	0.025	ug/L		08/18/17 07:24	08/18/17 17:26	1

Client Sample ID: MW-13
Date Collected: 08/16/17 14:30
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-3
Matrix: Water

Method: 608 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		0.050	0.010	ug/L		08/18/17 07:24	08/18/17 17:26	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		08/18/17 07:24	08/18/17 17:26	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/18/17 07:24	08/18/17 17:26	1
4,4'-DDD	**0.015**	**J**	0.050	0.0092	ug/L		08/18/17 07:24	08/18/17 17:26	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 17:26	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 17:26	1
Dieldrin	ND		0.050	0.0098	ug/L		08/18/17 07:24	08/18/17 17:26	1
Endosulfan I	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 17:26	1
Endosulfan II	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 17:26	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 17:26	1
Endrin	ND		0.050	0.014	ug/L		08/18/17 07:24	08/18/17 17:26	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 17:26	1
Heptachlor	ND		0.050	0.0085	ug/L		08/18/17 07:24	08/18/17 17:26	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/18/17 07:24	08/18/17 17:26	1
Toxaphene	ND		0.50	0.12	ug/L		08/18/17 07:24	08/18/17 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*23 - 120*	*08/18/17 07:24*	*08/18/17 17:26*	*1*
DCB Decachlorobiphenyl	*42*		*23 - 120*	*08/18/17 07:24*	*08/18/17 17:26*	*1*
Tetrachloro-m-xylene	*88*		*44 - 120*	*08/18/17 07:24*	*08/18/17 17:26*	*1*
Tetrachloro-m-xylene	*64*		*44 - 120*	*08/18/17 07:24*	*08/18/17 17:26*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:49	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:49	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:49	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:49	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 17:49	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 17:49	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*36 - 121*	*08/18/17 07:29*	*08/23/17 17:49*	*1*
DCB Decachlorobiphenyl	*68*		*36 - 121*	*08/18/17 07:29*	*08/23/17 17:49*	*1*
Tetrachloro-m-xylene	*110*		*42 - 135*	*08/18/17 07:29*	*08/23/17 17:49*	*1*
Tetrachloro-m-xylene	*101*		*42 - 135*	*08/18/17 07:29*	*08/23/17 17:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/18/17 08:37	08/22/17 05:57	1
Antimony	ND		0.020	0.0068	mg/L		08/18/17 08:37	08/22/17 05:57	1
Arsenic	**0.010**	**J**	0.015	0.0056	mg/L		08/18/17 08:37	08/22/17 05:57	1
Barium	**0.21**		0.0020	0.00070	mg/L		08/18/17 08:37	08/22/17 05:57	1
Beryllium	ND		0.0020	0.00030	mg/L		08/18/17 08:37	08/22/17 05:57	1
Cadmium	ND		0.0020	0.00050	mg/L		08/18/17 08:37	08/22/17 05:57	1
Calcium	**87.5**		0.50	0.10	mg/L		08/18/17 08:37	08/22/17 05:57	1
Chromium	ND		0.0040	0.0010	mg/L		08/18/17 08:37	08/22/17 05:57	1
Cobalt	ND		0.0040	0.00063	mg/L		08/18/17 08:37	08/22/17 05:57	1
Copper	ND		0.010	0.0016	mg/L		08/18/17 08:37	08/22/17 05:57	1

Client Sample ID: MW-13

Date Collected: 08/16/17 14:30
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-3

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.0**		0.050	0.019	mg/L		08/18/17 08:37	08/22/17 05:57	1
Lead	ND		0.010	0.0030	mg/L		08/18/17 08:37	08/22/17 05:57	1
Magnesium	**10.1**		0.20	0.043	mg/L		08/18/17 08:37	08/22/17 05:57	1
Manganese	**0.59**		0.0030	0.00040	mg/L		08/18/17 08:37	08/22/17 05:57	1
Nickel	**0.0014**	**J**	0.010	0.0013	mg/L		08/18/17 08:37	08/22/17 05:57	1
Potassium	**15.2**		0.50	0.10	mg/L		08/18/17 08:37	08/22/17 05:57	1
Selenium	ND		0.025	0.0087	mg/L		08/18/17 08:37	08/22/17 05:57	1
Silver	ND		0.0060	0.0017	mg/L		08/18/17 08:37	08/22/17 05:57	1
Sodium	**44.7**		1.0	0.32	mg/L		08/18/17 08:37	08/22/17 05:57	1
Thallium	ND		0.020	0.010	mg/L		08/18/17 08:37	08/22/17 05:57	1
Vanadium	ND		0.0050	0.0015	mg/L		08/18/17 08:37	08/22/17 05:57	1
Zinc	ND		0.010	0.0015	mg/L		08/18/17 08:37	08/22/17 05:57	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/21/17 07:50	08/22/17 03:19	1
Antimony	ND		0.020	0.0068	mg/L		08/21/17 07:50	08/22/17 03:19	1
Arsenic	**0.012**	**J**	0.015	0.0056	mg/L		08/21/17 07:50	08/22/17 03:19	1
Barium	**0.17**		0.0020	0.00070	mg/L		08/21/17 07:50	08/22/17 03:19	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/17 07:50	08/22/17 03:19	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/17 07:50	08/22/17 03:19	1
Calcium	**84.1**		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 03:19	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/17 07:50	08/22/17 03:19	1
Cobalt	ND		0.0040	0.00063	mg/L		08/21/17 07:50	08/22/17 03:19	1
Copper	ND		0.010	0.0016	mg/L		08/21/17 07:50	08/22/17 03:19	1
Iron	**0.041**	**J**	0.050	0.019	mg/L		08/21/17 07:50	08/22/17 03:19	1
Lead	**0.0036**	**J**	0.010	0.0030	mg/L		08/21/17 07:50	08/22/17 03:19	1
Magnesium	**9.7**		0.20	0.043	mg/L		08/21/17 07:50	08/22/17 03:19	1
Manganese	**0.55**	**B**	0.0030	0.00040	mg/L		08/21/17 07:50	08/22/17 03:19	1
Nickel	**0.0015**	**J**	0.010	0.0013	mg/L		08/21/17 07:50	08/22/17 03:19	1
Potassium	**14.1**		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 03:19	1
Selenium	ND		0.025	0.0087	mg/L		08/21/17 07:50	08/22/17 03:19	1
Silver	ND		0.0060	0.0017	mg/L		08/21/17 07:50	08/22/17 03:19	1
Sodium	**41.5**		1.0	0.32	mg/L		08/21/17 07:50	08/22/17 03:19	1
Thallium	ND		0.020	0.010	mg/L		08/21/17 07:50	08/22/17 03:19	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/17 07:50	08/22/17 03:19	1
Zinc	**0.0066**	**J B**	0.010	0.0015	mg/L		08/21/17 07:50	08/22/17 03:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/17/17 07:48	08/17/17 13:29	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/17 09:30	08/21/17 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	**2.9**	**J**	5.6	1.6	mg/L		08/24/17 10:57	08/24/17 10:57	1
SGT-HEM	ND		5.6	2.2	mg/L		08/24/17 10:57	08/24/17 10:57	1

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Client Sample ID: MW-13
Date Collected: 08/16/17 14:30
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	**20.1**		1.0	0.75	mg/L		08/22/17 03:57	08/22/17 13:39	5
Chemical Oxygen Demand	**43.1**		10.0	5.0	mg/L			08/17/17 18:19	1
Cyanide	**0.043**		0.010	0.0050	mg/L		08/21/17 02:05	08/21/17 11:28	1
Hardness as calcium carbonate	**268**		4.0	1.1	mg/L			08/25/17 05:20	1
Total Dissolved Solids	**480**		10.0	4.0	mg/L			08/18/17 09:13	1
Biochemical Oxygen Demand	**3.7**		2.4	2.4	mg/L			08/18/17 08:58	1
Carbonaceous Biochemical Oxygen Demand	ND		2.4	2.4	mg/L			08/18/17 08:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.43**	**HF**	0.100	0.100	SU			08/17/17 21:00	1
Temperature	**21.9**	**HF**	0.00100	0.00100	Degrees C			08/17/17 21:00	1
Total Suspended Solids	ND		4.0	4.0	mg/L			08/21/17 00:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	**0.031**		0.010	0.0050	mg/L		08/26/17 10:56	08/27/17 12:56	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-122816-1	MW-8	91	96	98	93
480-122816-2	DUP-02	94	96	99	93
480-122816-3	MW-13	92	93	100	95
LCS 480-372871/5	Lab Control Sample	92	91	96	93
MB 480-372871/7	Method Blank	94	87	89	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(42-120)	(10-120)	(22-125)
480-122816-1	MW-8	93	64	39	60	30	85
480-122816-2	DUP-02	87	39 X	10 X	34 X	15	34
480-122816-2 - RE	DUP-02	111	74	32	70	26	63
480-122816-3	MW-13	116	59	17	65	20	36
LCS 480-372647/2-A	Lab Control Sample	94	81	50	83	39	91
LCS 480-374535/2-A	Lab Control Sample	101	87	51	85	36	99
LCSD 480-372647/3-A	Lab Control Sample Dup	94	76	41	70	35	86
LCSD 480-374535/3-A	Lab Control Sample Dup	103	90	52	82	39	98
MB 480-372647/1-A	Method Blank	89	78	49	78	37	93
MB 480-374535/1-A	Method Blank	94	89	50	87	37	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(23-120)	(23-120)	(44-120)	(44-120)
480-122816-1	MW-8	58	50	102	71
480-122816-2	DUP-02	63	55	90	64
480-122816-3	MW-13	40	42	88	64
LCS 480-372756/2-A	Lab Control Sample	57	51	81	63
LCSD 480-372756/3-A	Lab Control Sample Dup	61	56	83	63
MB 480-372756/1-A	Method Blank	56	61	77	58

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Surrogate Legend
DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(36-121)	(36-121)	(42-135)	(42-135)
480-122816-1	MW-8	102	88	87	82
480-122816-2	DUP-02	106	90	90	81
480-122816-3	MW-13	81	68	110	101
LCS 480-372759/2-A	Lab Control Sample	55	50	108	85
MB 480-372759/1-A	Method Blank	68	60	114	99

Surrogate Legend
DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-372871/7
Matrix: Water
Analysis Batch: 372871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/18/17 15:58	1
Acrylonitrile	ND		50	1.9	ug/L			08/18/17 15:58	1
Benzene	ND		5.0	0.60	ug/L			08/18/17 15:58	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/18/17 15:58	1
Bromoform	ND		5.0	0.47	ug/L			08/18/17 15:58	1
Bromomethane	ND		5.0	1.2	ug/L			08/18/17 15:58	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/18/17 15:58	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/18/17 15:58	1
Chloroethane	ND		5.0	0.87	ug/L			08/18/17 15:58	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/18/17 15:58	1
Chloroform	ND		5.0	0.54	ug/L			08/18/17 15:58	1
Chloromethane	ND		5.0	0.64	ug/L			08/18/17 15:58	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/18/17 15:58	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/18/17 15:58	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/18/17 15:58	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/18/17 15:58	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/18/17 15:58	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/18/17 15:58	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/18/17 15:58	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/18/17 15:58	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/18/17 15:58	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/18/17 15:58	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/18/17 15:58	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/18/17 15:58	1
Toluene	ND		5.0	0.45	ug/L			08/18/17 15:58	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/18/17 15:58	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/18/17 15:58	1
Trichloroethene	ND		5.0	0.60	ug/L			08/18/17 15:58	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/18/17 15:58	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/18/17 15:58	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/18/17 15:58	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/18/17 15:58	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/18/17 15:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*08/18/17 15:58*	*1*
4-Bromofluorobenzene (Surr)	*87*		*76 - 123*		*08/18/17 15:58*	*1*
Toluene-d8 (Surr)	*89*		*77 - 120*		*08/18/17 15:58*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/18/17 15:58*	*1*

Lab Sample ID: LCS 480-372871/5
Matrix: Water
Analysis Batch: 372871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.4		ug/L		102	37 - 151
Dichlorobromomethane	20.0	21.1		ug/L		105	35 - 155
Bromoform	20.0	19.5		ug/L		97	45 - 169

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372871/5
Matrix: Water
Analysis Batch: 372871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	20.9		ug/L		104	1 - 242
Carbon tetrachloride	20.0	19.3		ug/L		97	70 - 140
Chlorobenzene	20.0	21.5		ug/L		107	37 - 160
Chloroethane	20.0	21.0		ug/L		105	14 - 230
2-Chloroethyl vinyl ether	20.0	22.1	J	ug/L		111	1 - 305
Chloroform	20.0	20.1		ug/L		100	51 - 138
Chloromethane	20.0	19.1		ug/L		95	1 - 273
Chlorodibromomethane	20.0	20.8		ug/L		104	53 - 149
1,1-Dichloroethane	20.0	19.0		ug/L		95	59 - 155
1,2-Dichloroethane	20.0	19.1		ug/L		96	49 - 155
1,1-Dichloroethene	20.0	18.3		ug/L		92	1 - 234
trans-1,2-Dichloroethene	20.0	19.7		ug/L		98	54 - 156
1,2-Dichloropropane	20.0	20.1		ug/L		100	1 - 210
cis-1,3-Dichloropropene	20.0	21.6		ug/L		108	1 - 227
trans-1,3-Dichloropropene	20.0	19.7		ug/L		98	17 - 183
Ethylbenzene	20.0	21.6		ug/L		108	37 - 162
Methylene Chloride	20.0	20.3		ug/L		101	1 - 221
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		97	46 - 157
Tetrachloroethene	20.0	20.2		ug/L		101	64 - 148
Toluene	20.0	19.7		ug/L		99	47 - 150
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	52 - 162
1,1,2-Trichloroethane	20.0	20.1		ug/L		100	52 - 150
Trichloroethene	20.0	20.0		ug/L		100	71 - 157
Vinyl chloride	20.0	21.2		ug/L		106	1 - 251
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	18 - 190
1,3-Dichlorobenzene	20.0	20.9		ug/L		104	59 - 156
1,4-Dichlorobenzene	20.0	21.3		ug/L		107	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*68 - 130*
4-Bromofluorobenzene (Surr)	*91*		*76 - 123*
Toluene-d8 (Surr)	*96*		*77 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-372647/1-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.81	ug/L		08/17/17 14:08	08/27/17 21:40	1
Acenaphthylene	ND		5.0	0.87	ug/L		08/17/17 14:08	08/27/17 21:40	1
Anthracene	ND		5.0	1.4	ug/L		08/17/17 14:08	08/27/17 21:40	1
Benzidine	ND		80	35	ug/L		08/17/17 14:08	08/27/17 21:40	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		08/17/17 14:08	08/27/17 21:40	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		08/17/17 14:08	08/27/17 21:40	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		08/17/17 14:08	08/27/17 21:40	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-372647/1-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		08/17/17 14:08	08/27/17 21:40	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		08/17/17 14:08	08/27/17 21:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		08/17/17 14:08	08/27/17 21:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		08/17/17 14:08	08/27/17 21:40	1
bis (2-chloroisopropyl) ether	ND		5.0	0.84	ug/L		08/17/17 14:08	08/27/17 21:40	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		08/17/17 14:08	08/27/17 21:40	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		08/17/17 14:08	08/27/17 21:40	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		08/17/17 14:08	08/27/17 21:40	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		08/17/17 14:08	08/27/17 21:40	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		08/17/17 14:08	08/27/17 21:40	1
Chrysene	ND		5.0	1.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		08/17/17 14:08	08/27/17 21:40	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		08/17/17 14:08	08/27/17 21:40	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		08/17/17 14:08	08/27/17 21:40	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		08/17/17 14:08	08/27/17 21:40	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		08/17/17 14:08	08/27/17 21:40	1
Diethyl phthalate	ND		5.0	1.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		08/17/17 14:08	08/27/17 21:40	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		08/17/17 14:08	08/27/17 21:40	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		08/17/17 14:08	08/27/17 21:40	1
Fluoranthene	ND		5.0	1.6	ug/L		08/17/17 14:08	08/27/17 21:40	1
Fluorene	ND		5.0	1.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
Hexachloroethane	ND		5.0	0.60	ug/L		08/17/17 14:08	08/27/17 21:40	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		08/17/17 14:08	08/27/17 21:40	1
Isophorone	ND		5.0	0.74	ug/L		08/17/17 14:08	08/27/17 21:40	1
Naphthalene	ND		5.0	0.86	ug/L		08/17/17 14:08	08/27/17 21:40	1
Nitrobenzene	ND		5.0	0.81	ug/L		08/17/17 14:08	08/27/17 21:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		08/17/17 14:08	08/27/17 21:40	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		08/17/17 14:08	08/27/17 21:40	1
Phenanthrene	ND		5.0	1.2	ug/L		08/17/17 14:08	08/27/17 21:40	1
Pyrene	ND		5.0	1.4	ug/L		08/17/17 14:08	08/27/17 21:40	1
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		08/17/17 14:08	08/27/17 21:40	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		08/17/17 14:08	08/27/17 21:40	1
2-Chlorophenol	ND		5.0	0.66	ug/L		08/17/17 14:08	08/27/17 21:40	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		08/17/17 14:08	08/27/17 21:40	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		08/17/17 14:08	08/27/17 21:40	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		08/17/17 14:08	08/27/17 21:40	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		08/17/17 14:08	08/27/17 21:40	1
2-Nitrophenol	ND		5.0	0.70	ug/L		08/17/17 14:08	08/27/17 21:40	1
4-Nitrophenol	ND		15	10	ug/L		08/17/17 14:08	08/27/17 21:40	1
Pentachlorophenol	ND		10	1.6	ug/L		08/17/17 14:08	08/27/17 21:40	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-372647/1-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.35	ug/L		08/17/17 14:08	08/27/17 21:40	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		08/17/17 14:08	08/27/17 21:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*52 - 151*	*08/17/17 14:08*	*08/27/17 21:40*	*1*
2-Fluorobiphenyl	*78*		*44 - 120*	*08/17/17 14:08*	*08/27/17 21:40*	*1*
2-Fluorophenol	*49*		*17 - 120*	*08/17/17 14:08*	*08/27/17 21:40*	*1*
Nitrobenzene-d5	*78*		*42 - 120*	*08/17/17 14:08*	*08/27/17 21:40*	*1*
Phenol-d5	*37*		*10 - 120*	*08/17/17 14:08*	*08/27/17 21:40*	*1*
p-Terphenyl-d14	*93*		*22 - 125*	*08/17/17 14:08*	*08/27/17 21:40*	*1*

Lab Sample ID: LCS 480-372647/2-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	40.2		ug/L		80	47 - 145
Acenaphthylene	50.0	40.0		ug/L		80	33 - 145
Anthracene	50.0	46.3		ug/L		93	27 - 133
Benzo[a]anthracene	50.0	47.4		ug/L		95	33 - 143
Benzo[a]pyrene	50.0	45.8		ug/L		92	17 - 163
Benzo[b]fluoranthene	50.0	45.8		ug/L		92	24 - 159
Benzo[g,h,i]perylene	50.0	46.2		ug/L		92	1 - 219
Benzo[k]fluoranthene	50.0	48.4		ug/L		97	11 - 162
Bis(2-chloroethyl)ether	50.0	39.4		ug/L		79	12 - 158
Bis(2-chloroethoxy)methane	50.0	43.0		ug/L		86	33 - 184
bis (2-chloroisopropyl) ether	50.0	38.2		ug/L		76	36 - 166
Bis(2-ethylhexyl) phthalate	50.0	50.6		ug/L		101	8 - 158
4-Bromophenyl phenyl ether	50.0	46.4		ug/L		93	53 - 127
Butyl benzyl phthalate	50.0	48.7		ug/L		97	1 - 152
2-Chloronaphthalene	50.0	38.0		ug/L		76	60 - 118
4-Chlorophenyl phenyl ether	50.0	44.2		ug/L		88	25 - 158
Chrysene	50.0	47.8		ug/L		96	17 - 168
Dibenz(a,h)anthracene	50.0	45.6		ug/L		91	1 - 227
Di-n-butyl phthalate	50.0	49.2		ug/L		98	1 - 118
1,2-Dichlorobenzene	50.0	29.3		ug/L		59	32 - 129
1,3-Dichlorobenzene	50.0	27.2		ug/L		54	1 - 172
1,4-Dichlorobenzene	50.0	26.2		ug/L		52	20 - 124
3,3'-Dichlorobenzidine	100	101		ug/L		101	1 - 262
Diethyl phthalate	50.0	45.8		ug/L		92	1 - 114
Dimethyl phthalate	50.0	47.5		ug/L		95	1 - 112
2,4-Dinitrotoluene	50.0	50.4		ug/L		101	39 - 139
2,6-Dinitrotoluene	50.0	46.4		ug/L		93	50 - 158
Di-n-octyl phthalate	50.0	50.3		ug/L		101	4 - 146
Fluoranthene	50.0	50.1		ug/L		100	26 - 137
Fluorene	50.0	44.6		ug/L		89	59 - 121
Hexachlorobenzene	50.0	47.9		ug/L		96	1 - 152
Hexachlorocyclopentadiene	50.0	28.1		ug/L		56	5 - 120

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-372647/2-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachloroethane	50.0	23.9		ug/L		48	40 - 113
Indeno[1,2,3-cd]pyrene	50.0	49.4		ug/L		99	1 - 171
Isophorone	50.0	43.6		ug/L		87	21 - 196
Naphthalene	50.0	35.5		ug/L		71	21 - 133
Nitrobenzene	50.0	40.9		ug/L		82	35 - 180
N-Nitrosodi-n-propylamine	50.0	41.0		ug/L		82	1 - 230
N-Nitrosodiphenylamine	50.0	46.4		ug/L		93	54 - 125
Phenanthrene	50.0	46.9		ug/L		94	54 - 120
Pyrene	50.0	49.1		ug/L		98	52 - 115
1,2,4-Trichlorobenzene	50.0	30.8		ug/L		62	44 - 142
4-Chloro-3-methylphenol	50.0	45.9		ug/L		92	22 - 147
2-Chlorophenol	50.0	38.4		ug/L		77	23 - 134
2,4-Dichlorophenol	50.0	45.5		ug/L		91	39 - 135
2,4-Dimethylphenol	50.0	42.7		ug/L		85	32 - 119
2,4-Dinitrophenol	100	101		ug/L		101	1 - 191
4,6-Dinitro-2-methylphenol	100	103		ug/L		103	1 - 181
2-Nitrophenol	50.0	44.3		ug/L		89	29 - 182
4-Nitrophenol	100	55.6		ug/L		56	1 - 132
Pentachlorophenol	100	94.4		ug/L		94	14 - 176
Phenol	50.0	20.4		ug/L		41	5 - 112
2,4,6-Trichlorophenol	50.0	46.7		ug/L		93	37 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*94*		*52 - 151*
2-Fluorobiphenyl	*81*		*44 - 120*
2-Fluorophenol	*50*		*17 - 120*
Nitrobenzene-d5	*83*		*42 - 120*
Phenol-d5	*39*		*10 - 120*
p-Terphenyl-d14	*91*		*22 - 125*

Lab Sample ID: LCSD 480-372647/3-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50.0	38.6		ug/L		77	47 - 145	4	25
Acenaphthylene	50.0	38.6		ug/L		77	33 - 145	3	22
Anthracene	50.0	46.0		ug/L		92	27 - 133	1	15
Benzo[a]anthracene	50.0	46.0		ug/L		92	33 - 143	3	15
Benzo[a]pyrene	50.0	45.5		ug/L		91	17 - 163	1	15
Benzo[b]fluoranthene	50.0	45.9		ug/L		92	24 - 159	0	17
Benzo[g,h,i]perylene	50.0	46.5		ug/L		93	1 - 219	1	19
Benzo[k]fluoranthene	50.0	47.9		ug/L		96	11 - 162	1	19
Bis(2-chloroethyl)ether	50.0	33.2		ug/L		66	12 - 158	17	33
Bis(2-chloroethoxy)methane	50.0	36.2		ug/L		72	33 - 184	17	23
bis (2-chloroisopropyl) ether	50.0	31.5		ug/L		63	36 - 166	19	36
Bis(2-ethylhexyl) phthalate	50.0	47.1		ug/L		94	8 - 158	7	15
4-Bromophenyl phenyl ether	50.0	45.2		ug/L		90	53 - 127	3	16

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-372647/3-A
Matrix: Water
Analysis Batch: 374116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372647

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl benzyl phthalate			50.0	47.4		ug/L		95	1 - 152	3	15
2-Chloronaphthalene			50.0	37.0		ug/L		74	60 - 118	3	30
4-Chlorophenyl phenyl ether			50.0	44.4		ug/L		89	25 - 158	0	15
Chrysene			50.0	46.3		ug/L		93	17 - 168	3	15
Dibenz(a,h)anthracene			50.0	44.9		ug/L		90	1 - 227	2	18
Di-n-butyl phthalate			50.0	47.7		ug/L		95	1 - 118	3	15
1,2-Dichlorobenzene			50.0	26.0		ug/L		52	32 - 129	12	38
1,3-Dichlorobenzene			50.0	22.9		ug/L		46	1 - 172	17	37
1,4-Dichlorobenzene			50.0	24.7		ug/L		49	20 - 124	6	40
3,3'-Dichlorobenzidine			100	96.6		ug/L		97	1 - 262	4	31
Diethyl phthalate			50.0	44.4		ug/L		89	1 - 114	3	15
Dimethyl phthalate			50.0	44.7		ug/L		89	1 - 112	6	15
2,4-Dinitrotoluene			50.0	46.2		ug/L		92	39 - 139	9	20
2,6-Dinitrotoluene			50.0	44.6		ug/L		89	50 - 158	4	17
Di-n-octyl phthalate			50.0	47.6		ug/L		95	4 - 146	6	15
Fluoranthene			50.0	47.6		ug/L		95	26 - 137	5	15
Fluorene			50.0	41.4		ug/L		83	59 - 121	7	18
Hexachlorobenzene			50.0	43.9		ug/L		88	1 - 152	9	15
Hexachlorocyclopentadiene			50.0	22.7		ug/L		45	5 - 120	21	50
Hexachloroethane			50.0	22.1		ug/L		44	40 - 113	8	43
Indeno[1,2,3-cd]pyrene			50.0	48.7		ug/L		97	1 - 171	1	17
Isophorone			50.0	39.0		ug/L		78	21 - 196	11	21
Naphthalene			50.0	32.6		ug/L		65	21 - 133	9	31
Nitrobenzene			50.0	35.8		ug/L		72	35 - 180	13	27
N-Nitrosodi-n-propylamine			50.0	38.6		ug/L		77	1 - 230	6	23
N-Nitrosodiphenylamine			50.0	43.4		ug/L		87	54 - 125	7	15
Phenanthrene			50.0	45.0		ug/L		90	54 - 120	4	16
Pyrene			50.0	46.0		ug/L		92	52 - 115	6	15
1,2,4-Trichlorobenzene			50.0	28.2		ug/L		56	44 - 142	9	34
4-Chloro-3-methylphenol			50.0	42.3		ug/L		85	22 - 147	8	16
2-Chlorophenol			50.0	31.4		ug/L		63	23 - 134	20	26
2,4-Dichlorophenol			50.0	40.8		ug/L		82	39 - 135	11	23
2,4-Dimethylphenol			50.0	39.1		ug/L		78	32 - 119	9	18
2,4-Dinitrophenol			100	98.2		ug/L		98	1 - 191	2	29
4,6-Dinitro-2-methylphenol			100	99.2		ug/L		99	1 - 181	4	30
2-Nitrophenol			50.0	38.2		ug/L		76	29 - 182	15	28
4-Nitrophenol			100	51.7		ug/L		52	1 - 132	7	24
Pentachlorophenol			100	93.8		ug/L		94	14 - 176	1	21
Phenol			50.0	18.5		ug/L		37	5 - 112	9	36
2,4,6-Trichlorophenol			50.0	44.4		ug/L		89	37 - 144	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*94*		*52 - 151*
2-Fluorobiphenyl	*76*		*44 - 120*
2-Fluorophenol	*41*		*17 - 120*
Nitrobenzene-d5	*70*		*42 - 120*
Phenol-d5	*35*		*10 - 120*
p-Terphenyl-d14	*86*		*22 - 125*

Lab Sample ID: MB 480-374535/1-A
Matrix: Water
Analysis Batch: 374837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.81	ug/L		08/30/17 08:07	09/01/17 01:25	1
Acenaphthylene	ND		5.0	0.87	ug/L		08/30/17 08:07	09/01/17 01:25	1
Anthracene	ND		5.0	1.4	ug/L		08/30/17 08:07	09/01/17 01:25	1
Benzidine	ND		80	35	ug/L		08/30/17 08:07	09/01/17 01:25	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		08/30/17 08:07	09/01/17 01:25	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		08/30/17 08:07	09/01/17 01:25	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		08/30/17 08:07	09/01/17 01:25	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		08/30/17 08:07	09/01/17 01:25	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		08/30/17 08:07	09/01/17 01:25	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		08/30/17 08:07	09/01/17 01:25	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		08/30/17 08:07	09/01/17 01:25	1
bis (2-chloroisopropyl) ether	ND		5.0	0.84	ug/L		08/30/17 08:07	09/01/17 01:25	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		08/30/17 08:07	09/01/17 01:25	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		08/30/17 08:07	09/01/17 01:25	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		08/30/17 08:07	09/01/17 01:25	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		08/30/17 08:07	09/01/17 01:25	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		08/30/17 08:07	09/01/17 01:25	1
Chrysene	ND		5.0	1.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		08/30/17 08:07	09/01/17 01:25	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		08/30/17 08:07	09/01/17 01:25	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		08/30/17 08:07	09/01/17 01:25	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		08/30/17 08:07	09/01/17 01:25	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		08/30/17 08:07	09/01/17 01:25	1
Diethyl phthalate	ND		5.0	1.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		08/30/17 08:07	09/01/17 01:25	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		08/30/17 08:07	09/01/17 01:25	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		08/30/17 08:07	09/01/17 01:25	1
Fluoranthene	ND		5.0	1.6	ug/L		08/30/17 08:07	09/01/17 01:25	1
Fluorene	ND		5.0	1.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
Hexachloroethane	ND		5.0	0.60	ug/L		08/30/17 08:07	09/01/17 01:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		08/30/17 08:07	09/01/17 01:25	1
Isophorone	ND		5.0	0.74	ug/L		08/30/17 08:07	09/01/17 01:25	1
Naphthalene	ND		5.0	0.86	ug/L		08/30/17 08:07	09/01/17 01:25	1
Nitrobenzene	ND		5.0	0.81	ug/L		08/30/17 08:07	09/01/17 01:25	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		08/30/17 08:07	09/01/17 01:25	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		08/30/17 08:07	09/01/17 01:25	1
Phenanthrene	ND		5.0	1.2	ug/L		08/30/17 08:07	09/01/17 01:25	1
Pyrene	ND		5.0	1.4	ug/L		08/30/17 08:07	09/01/17 01:25	1
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		08/30/17 08:07	09/01/17 01:25	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		08/30/17 08:07	09/01/17 01:25	1
2-Chlorophenol	ND		5.0	0.66	ug/L		08/30/17 08:07	09/01/17 01:25	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		08/30/17 08:07	09/01/17 01:25	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		08/30/17 08:07	09/01/17 01:25	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-374535/1-A
Matrix: Water
Analysis Batch: 374837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	5.0	ug/L		08/30/17 08:07	09/01/17 01:25	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		08/30/17 08:07	09/01/17 01:25	1
2-Nitrophenol	ND		5.0	0.70	ug/L		08/30/17 08:07	09/01/17 01:25	1
4-Nitrophenol	ND		15	10	ug/L		08/30/17 08:07	09/01/17 01:25	1
Pentachlorophenol	ND		10	1.6	ug/L		08/30/17 08:07	09/01/17 01:25	1
Phenol	ND		5.0	0.35	ug/L		08/30/17 08:07	09/01/17 01:25	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		08/30/17 08:07	09/01/17 01:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*52 - 151*	*08/30/17 08:07*	*09/01/17 01:25*	*1*
2-Fluorobiphenyl	*89*		*44 - 120*	*08/30/17 08:07*	*09/01/17 01:25*	*1*
2-Fluorophenol	*50*		*17 - 120*	*08/30/17 08:07*	*09/01/17 01:25*	*1*
Nitrobenzene-d5	*87*		*42 - 120*	*08/30/17 08:07*	*09/01/17 01:25*	*1*
Phenol-d5	*37*		*10 - 120*	*08/30/17 08:07*	*09/01/17 01:25*	*1*
p-Terphenyl-d14	*99*		*22 - 125*	*08/30/17 08:07*	*09/01/17 01:25*	*1*

Lab Sample ID: LCS 480-374535/2-A
Matrix: Water
Analysis Batch: 374837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	44.7		ug/L		89	47 - 145
Acenaphthylene	50.0	44.5		ug/L		89	33 - 145
Anthracene	50.0	51.8		ug/L		104	27 - 133
Benzo[a]anthracene	50.0	50.6		ug/L		101	33 - 143
Benzo[a]pyrene	50.0	49.9		ug/L		100	17 - 163
Benzo[b]fluoranthene	50.0	49.4		ug/L		99	24 - 159
Benzo[g,h,i]perylene	50.0	57.8		ug/L		116	1 - 219
Benzo[k]fluoranthene	50.0	53.5		ug/L		107	11 - 162
Bis(2-chloroethyl)ether	50.0	38.1		ug/L		76	12 - 158
Bis(2-chloroethoxy)methane	50.0	42.7		ug/L		85	33 - 184
bis (2-chloroisopropyl) ether	50.0	38.1		ug/L		76	36 - 166
Bis(2-ethylhexyl) phthalate	50.0	54.4		ug/L		109	8 - 158
4-Bromophenyl phenyl ether	50.0	50.9		ug/L		102	53 - 127
Butyl benzyl phthalate	50.0	52.4		ug/L		105	1 - 152
2-Chloronaphthalene	50.0	42.9		ug/L		86	60 - 118
4-Chlorophenyl phenyl ether	50.0	48.5		ug/L		97	25 - 158
Chrysene	50.0	51.7		ug/L		103	17 - 168
Dibenz(a,h)anthracene	50.0	55.4		ug/L		111	1 - 227
Di-n-butyl phthalate	50.0	53.9		ug/L		108	1 - 118
1,2-Dichlorobenzene	50.0	31.9		ug/L		64	32 - 129
1,3-Dichlorobenzene	50.0	28.3		ug/L		57	1 - 172
1,4-Dichlorobenzene	50.0	30.4		ug/L		61	20 - 124
3,3'-Dichlorobenzidine	100	104		ug/L		104	1 - 262
Diethyl phthalate	50.0	51.8		ug/L		104	1 - 114
Dimethyl phthalate	50.0	52.7		ug/L		105	1 - 112
2,4-Dinitrotoluene	50.0	52.4		ug/L		105	39 - 139
2,6-Dinitrotoluene	50.0	52.5		ug/L		105	50 - 158

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-374535/2-A
Matrix: Water
Analysis Batch: 374837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	50.0	54.5		ug/L		109	4 - 146
Fluoranthene	50.0	52.6		ug/L		105	26 - 137
Fluorene	50.0	49.0		ug/L		98	59 - 121
Hexachlorobenzene	50.0	51.4		ug/L		103	1 - 152
Hexachlorocyclopentadiene	50.0	25.2		ug/L		50	5 - 120
Hexachloroethane	50.0	25.0		ug/L		50	40 - 113
Indeno[1,2,3-cd]pyrene	50.0	61.0		ug/L		122	1 - 171
Isophorone	50.0	44.3		ug/L		89	21 - 196
Naphthalene	50.0	39.5		ug/L		79	21 - 133
Nitrobenzene	50.0	43.0		ug/L		86	35 - 180
N-Nitrosodi-n-propylamine	50.0	43.4		ug/L		87	1 - 230
N-Nitrosodiphenylamine	50.0	50.5		ug/L		101	54 - 125
Phenanthrene	50.0	50.9		ug/L		102	54 - 120
Pyrene	50.0	50.6		ug/L		101	52 - 115
1,2,4-Trichlorobenzene	50.0	36.8		ug/L		74	44 - 142
4-Chloro-3-methylphenol	50.0	47.3		ug/L		95	22 - 147
2-Chlorophenol	50.0	40.4		ug/L		81	23 - 134
2,4-Dichlorophenol	50.0	46.6		ug/L		93	39 - 135
2,4-Dimethylphenol	50.0	45.1		ug/L		90	32 - 119
2,4-Dinitrophenol	100	106		ug/L		106	1 - 191
4,6-Dinitro-2-methylphenol	100	111		ug/L		111	1 - 181
2-Nitrophenol	50.0	47.2		ug/L		94	29 - 182
4-Nitrophenol	100	58.7		ug/L		59	1 - 132
Pentachlorophenol	100	97.8		ug/L		98	14 - 176
Phenol	50.0	19.9		ug/L		40	5 - 112
2,4,6-Trichlorophenol	50.0	51.2		ug/L		102	37 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*52 - 151*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol	*51*		*17 - 120*
Nitrobenzene-d5	*85*		*42 - 120*
Phenol-d5	*36*		*10 - 120*
p-Terphenyl-d14	*99*		*22 - 125*

Lab Sample ID: LCSD 480-374535/3-A
Matrix: Water
Analysis Batch: 374837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374535

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50.0	45.7		ug/L		91	47 - 145	2	25
Acenaphthylene	50.0	44.9		ug/L		90	33 - 145	1	22
Anthracene	50.0	52.0		ug/L		104	27 - 133	0	15
Benzo[a]anthracene	50.0	51.4		ug/L		103	33 - 143	2	15
Benzo[a]pyrene	50.0	50.4		ug/L		101	17 - 163	1	15
Benzo[b]fluoranthene	50.0	48.3		ug/L		97	24 - 159	2	17
Benzo[g,h,i]perylene	50.0	58.8		ug/L		118	1 - 219	2	19
Benzo[k]fluoranthene	50.0	52.8		ug/L		106	11 - 162	1	19

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-374535/3-A
Matrix: Water
Analysis Batch: 374837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374535

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether			50.0	44.2		ug/L		88	12 - 158	15	33
Bis(2-chloroethoxy)methane			50.0	40.8		ug/L		82	33 - 184	5	23
bis (2-chloroisopropyl) ether			50.0	39.2		ug/L		78	36 - 166	3	36
Bis(2-ethylhexyl) phthalate			50.0	55.5		ug/L		111	8 - 158	2	15
4-Bromophenyl phenyl ether			50.0	52.6		ug/L		105	53 - 127	3	16
Butyl benzyl phthalate			50.0	54.2		ug/L		108	1 - 152	3	15
2-Chloronaphthalene			50.0	43.7		ug/L		87	60 - 118	2	30
4-Chlorophenyl phenyl ether			50.0	49.6		ug/L		99	25 - 158	2	15
Chrysene			50.0	52.8		ug/L		106	17 - 168	2	15
Dibenz(a,h)anthracene			50.0	55.1		ug/L		110	1 - 227	1	18
Di-n-butyl phthalate			50.0	53.3		ug/L		107	1 - 118	1	15
1,2-Dichlorobenzene			50.0	34.5		ug/L		69	32 - 129	8	38
1,3-Dichlorobenzene			50.0	31.6		ug/L		63	1 - 172	11	37
1,4-Dichlorobenzene			50.0	34.1		ug/L		68	20 - 124	12	40
3,3'-Dichlorobenzidine			100	104		ug/L		104	1 - 262	0	31
Diethyl phthalate			50.0	53.4		ug/L		107	1 - 114	3	15
Dimethyl phthalate			50.0	53.9		ug/L		108	1 - 112	2	15
2,4-Dinitrotoluene			50.0	54.4		ug/L		109	39 - 139	4	20
2,6-Dinitrotoluene			50.0	52.0		ug/L		104	50 - 158	1	17
Di-n-octyl phthalate			50.0	55.5		ug/L		111	4 - 146	2	15
Fluoranthene			50.0	53.2		ug/L		106	26 - 137	1	15
Fluorene			50.0	48.8		ug/L		98	59 - 121	0	18
Hexachlorobenzene			50.0	51.9		ug/L		104	1 - 152	1	15
Hexachlorocyclopentadiene			50.0	26.6		ug/L		53	5 - 120	5	50
Hexachloroethane			50.0	28.9		ug/L		58	40 - 113	15	43
Indeno[1,2,3-cd]pyrene			50.0	60.8		ug/L		122	1 - 171	0	17
Isophorone			50.0	42.9		ug/L		86	21 - 196	3	21
Naphthalene			50.0	39.8		ug/L		80	21 - 133	1	31
Nitrobenzene			50.0	40.7		ug/L		81	35 - 180	6	27
N-Nitrosodi-n-propylamine			50.0	45.1		ug/L		90	1 - 230	4	23
N-Nitrosodiphenylamine			50.0	49.9		ug/L		100	54 - 125	1	15
Phenanthrene			50.0	51.0		ug/L		102	54 - 120	0	16
Pyrene			50.0	51.8		ug/L		104	52 - 115	2	15
1,2,4-Trichlorobenzene			50.0	36.1		ug/L		72	44 - 142	2	34
4-Chloro-3-methylphenol			50.0	46.4		ug/L		93	22 - 147	2	16
2-Chlorophenol			50.0	41.0		ug/L		82	23 - 134	2	26
2,4-Dichlorophenol			50.0	48.8		ug/L		98	39 - 135	5	23
2,4-Dimethylphenol			50.0	43.3		ug/L		87	32 - 119	4	18
2,4-Dinitrophenol			100	109		ug/L		109	1 - 191	4	29
4,6-Dinitro-2-methylphenol			100	111		ug/L		111	1 - 181	0	30
2-Nitrophenol			50.0	46.0		ug/L		92	29 - 182	3	28
4-Nitrophenol			100	57.9		ug/L		58	1 - 132	2	24
Pentachlorophenol			100	104		ug/L		104	14 - 176	6	21
Phenol			50.0	21.0		ug/L		42	5 - 112	5	36
2,4,6-Trichlorophenol			50.0	52.7		ug/L		105	37 - 144	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*103*		*52 - 151*

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-374535/3-A
Matrix: Water
Analysis Batch: 374837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374535

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*44 - 120*
2-Fluorophenol	*52*		*17 - 120*
Nitrobenzene-d5	*82*		*42 - 120*
Phenol-d5	*39*		*10 - 120*
p-Terphenyl-d14	*98*		*22 - 125*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-372756/1-A
Matrix: Water
Analysis Batch: 372883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/18/17 07:24	08/18/17 15:48	1
alpha-BHC	ND		0.050	0.0077	ug/L		08/18/17 07:24	08/18/17 15:48	1
beta-BHC	ND		0.050	0.025	ug/L		08/18/17 07:24	08/18/17 15:48	1
delta-BHC	0.0184	J	0.050	0.010	ug/L		08/18/17 07:24	08/18/17 15:48	1
gamma-BHC (Lindane)	0.0137	J	0.050	0.0080	ug/L		08/18/17 07:24	08/18/17 15:48	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/18/17 07:24	08/18/17 15:48	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/18/17 07:24	08/18/17 15:48	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 15:48	1
4,4'-DDT	0.0111	J	0.050	0.011	ug/L		08/18/17 07:24	08/18/17 15:48	1
Dieldrin	ND		0.050	0.0098	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endosulfan I	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endosulfan II	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endrin	ND		0.050	0.014	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 15:48	1
Heptachlor	ND		0.050	0.0085	ug/L		08/18/17 07:24	08/18/17 15:48	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/18/17 07:24	08/18/17 15:48	1
Toxaphene	ND		0.50	0.12	ug/L		08/18/17 07:24	08/18/17 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*23 - 120*	*08/18/17 07:24*	*08/18/17 15:48*	*1*
DCB Decachlorobiphenyl	*61*		*23 - 120*	*08/18/17 07:24*	*08/18/17 15:48*	*1*
Tetrachloro-m-xylene	*77*		*44 - 120*	*08/18/17 07:24*	*08/18/17 15:48*	*1*
Tetrachloro-m-xylene	*58*		*44 - 120*	*08/18/17 07:24*	*08/18/17 15:48*	*1*

Lab Sample ID: LCS 480-372756/2-A
Matrix: Water
Analysis Batch: 372883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.500	0.216		ug/L		43	40 - 125
alpha-BHC	0.500	0.304		ug/L		61	52 - 125
beta-BHC	0.500	0.368		ug/L		74	52 - 120
delta-BHC	0.500	0.445		ug/L		89	51 - 120

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 480-372756/2-A
Matrix: Water
Analysis Batch: 372883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane)	0.500	0.362		ug/L		72	56 - 120
4,4'-DDD	0.500	0.466		ug/L		93	64 - 129
4,4'-DDE	0.500	0.409		ug/L		82	50 - 120
4,4'-DDT	0.500	0.493		ug/L		99	59 - 120
Dieldrin	0.500	0.482		ug/L		96	66 - 128
Endosulfan I	0.500	0.529		ug/L		106	57 - 120
Endosulfan II	0.500	0.460		ug/L		92	66 - 131
Endosulfan sulfate	0.500	0.544		ug/L		109	66 - 131
Endrin	0.500	0.474		ug/L		95	65 - 135
Endrin aldehyde	0.500	0.353		ug/L		71	61 - 134
Heptachlor	0.500	0.370		ug/L		74	58 - 120
Heptachlor epoxide	0.500	0.392		ug/L		78	65 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*23 - 120*
DCB Decachlorobiphenyl	*51*		*23 - 120*
Tetrachloro-m-xylene	*81*		*44 - 120*
Tetrachloro-m-xylene	*63*		*44 - 120*

Lab Sample ID: LCSD 480-372756/3-A
Matrix: Water
Analysis Batch: 372883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372756

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.500	0.249		ug/L		50	40 - 125	14	50
alpha-BHC	0.500	0.346		ug/L		69	52 - 125	13	50
beta-BHC	0.500	0.408		ug/L		82	52 - 120	10	50
delta-BHC	0.500	0.452		ug/L		90	51 - 120	2	50
gamma-BHC (Lindane)	0.500	0.392		ug/L		78	56 - 120	8	50
4,4'-DDD	0.500	0.488		ug/L		98	64 - 129	5	50
4,4'-DDE	0.500	0.410		ug/L		82	50 - 120	0	50
4,4'-DDT	0.500	0.522		ug/L		104	59 - 120	6	50
Dieldrin	0.500	0.501		ug/L		100	66 - 128	4	50
Endosulfan I	0.500	0.441		ug/L		88	57 - 120	18	50
Endosulfan II	0.500	0.466		ug/L		93	66 - 131	1	50
Endosulfan sulfate	0.500	0.552		ug/L		110	66 - 131	1	50
Endrin	0.500	0.499		ug/L		100	65 - 135	5	50
Endrin aldehyde	0.500	0.367		ug/L		73	61 - 134	4	50
Heptachlor	0.500	0.395		ug/L		79	58 - 120	7	50
Heptachlor epoxide	0.500	0.448		ug/L		90	65 - 125	13	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*61*		*23 - 120*
DCB Decachlorobiphenyl	*56*		*23 - 120*
Tetrachloro-m-xylene	*83*		*44 - 120*
Tetrachloro-m-xylene	*63*		*44 - 120*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-372759/1-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*36 - 121*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
DCB Decachlorobiphenyl	*60*		*36 - 121*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
Tetrachloro-m-xylene	*114*		*42 - 135*	*08/18/17 07:29*	*08/23/17 14:45*	*1*
Tetrachloro-m-xylene	*99*		*42 - 135*	*08/18/17 07:29*	*08/23/17 14:45*	*1*

Lab Sample ID: LCS 480-372759/2-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.00	1.16		ug/L		116	69 - 123
PCB-1260	1.00	1.00		ug/L		100	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*36 - 121*
DCB Decachlorobiphenyl	*50*		*36 - 121*
Tetrachloro-m-xylene	*108*		*42 - 135*
Tetrachloro-m-xylene	*85*		*42 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-372657/1-A
Matrix: Water
Analysis Batch: 373489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/18/17 08:37	08/22/17 03:55	1
Antimony	ND		0.020	0.0068	mg/L		08/18/17 08:37	08/22/17 03:55	1
Arsenic	ND		0.015	0.0056	mg/L		08/18/17 08:37	08/22/17 03:55	1
Barium	ND		0.0020	0.00070	mg/L		08/18/17 08:37	08/22/17 03:55	1
Beryllium	ND		0.0020	0.00030	mg/L		08/18/17 08:37	08/22/17 03:55	1
Cadmium	ND		0.0020	0.00050	mg/L		08/18/17 08:37	08/22/17 03:55	1
Calcium	ND		0.50	0.10	mg/L		08/18/17 08:37	08/22/17 03:55	1
Chromium	ND		0.0040	0.0010	mg/L		08/18/17 08:37	08/22/17 03:55	1
Cobalt	ND		0.0040	0.00063	mg/L		08/18/17 08:37	08/22/17 03:55	1
Copper	ND		0.010	0.0016	mg/L		08/18/17 08:37	08/22/17 03:55	1
Iron	ND		0.050	0.019	mg/L		08/18/17 08:37	08/22/17 03:55	1
Lead	ND		0.010	0.0030	mg/L		08/18/17 08:37	08/22/17 03:55	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-372657/1-A
Matrix: Water
Analysis Batch: 373489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20	0.043	mg/L		08/18/17 08:37	08/22/17 03:55	1
Manganese	ND		0.0030	0.00040	mg/L		08/18/17 08:37	08/22/17 03:55	1
Nickel	ND		0.010	0.0013	mg/L		08/18/17 08:37	08/22/17 03:55	1
Potassium	ND		0.50	0.10	mg/L		08/18/17 08:37	08/22/17 03:55	1
Selenium	ND		0.025	0.0087	mg/L		08/18/17 08:37	08/22/17 03:55	1
Silver	ND		0.0060	0.0017	mg/L		08/18/17 08:37	08/22/17 03:55	1
Sodium	ND		1.0	0.32	mg/L		08/18/17 08:37	08/22/17 03:55	1
Thallium	ND		0.020	0.010	mg/L		08/18/17 08:37	08/22/17 03:55	1
Vanadium	ND		0.0050	0.0015	mg/L		08/18/17 08:37	08/22/17 03:55	1
Zinc	ND		0.010	0.0015	mg/L		08/18/17 08:37	08/22/17 03:55	1

Lab Sample ID: LCS 480-372657/2-A
Matrix: Water
Analysis Batch: 373489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.94		mg/L		99	80 - 120
Antimony	0.200	0.205		mg/L		102	80 - 120
Arsenic	0.200	0.205		mg/L		102	80 - 120
Barium	0.200	0.219		mg/L		109	80 - 120
Beryllium	0.200	0.211		mg/L		105	80 - 120
Cadmium	0.200	0.210		mg/L		105	80 - 120
Calcium	10.0	9.91		mg/L		99	80 - 120
Chromium	0.200	0.217		mg/L		109	80 - 120
Cobalt	0.200	0.196		mg/L		98	80 - 120
Copper	0.200	0.225		mg/L		113	80 - 120
Iron	10.0	10.20		mg/L		102	80 - 120
Lead	0.200	0.204		mg/L		102	80 - 120
Magnesium	10.0	10.59		mg/L		106	80 - 120
Manganese	0.200	0.220		mg/L		110	80 - 120
Nickel	0.200	0.203		mg/L		101	80 - 120
Potassium	10.0	10.53		mg/L		105	80 - 120
Selenium	0.200	0.193		mg/L		96	80 - 120
Silver	0.0500	0.0482		mg/L		96	80 - 120
Sodium	10.0	10.42		mg/L		104	80 - 120
Thallium	0.200	0.194		mg/L		97	80 - 120
Vanadium	0.200	0.196		mg/L		98	80 - 120
Zinc	0.200	0.202		mg/L		101	80 - 120

Lab Sample ID: MB 480-372783/1-B
Matrix: Water
Analysis Batch: 373692

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/21/17 07:50	08/22/17 02:40	1
Antimony	ND		0.020	0.0068	mg/L		08/21/17 07:50	08/22/17 02:40	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/17 07:50	08/22/17 02:40	1
Barium	ND		0.0020	0.00070	mg/L		08/21/17 07:50	08/22/17 02:40	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/17 07:50	08/22/17 02:40	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-372783/1-B
Matrix: Water
Analysis Batch: 373692

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		08/21/17 07:50	08/22/17 02:40	1
Calcium	ND		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 02:40	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/17 07:50	08/22/17 02:40	1
Cobalt	ND		0.0040	0.00063	mg/L		08/21/17 07:50	08/22/17 02:40	1
Copper	ND		0.010	0.0016	mg/L		08/21/17 07:50	08/22/17 02:40	1
Iron	ND		0.050	0.019	mg/L		08/21/17 07:50	08/22/17 02:40	1
Lead	ND		0.010	0.0030	mg/L		08/21/17 07:50	08/22/17 02:40	1
Magnesium	ND		0.20	0.043	mg/L		08/21/17 07:50	08/22/17 02:40	1
Manganese	0.00107	J	0.0030	0.00040	mg/L		08/21/17 07:50	08/22/17 02:40	1
Nickel	ND		0.010	0.0013	mg/L		08/21/17 07:50	08/22/17 02:40	1
Potassium	ND		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 02:40	1
Selenium	ND		0.025	0.0087	mg/L		08/21/17 07:50	08/22/17 02:40	1
Silver	ND		0.0060	0.0017	mg/L		08/21/17 07:50	08/22/17 02:40	1
Sodium	ND		1.0	0.32	mg/L		08/21/17 07:50	08/22/17 02:40	1
Thallium	ND		0.020	0.010	mg/L		08/21/17 07:50	08/22/17 02:40	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/17 07:50	08/22/17 02:40	1
Zinc	0.00377	J	0.010	0.0015	mg/L		08/21/17 07:50	08/22/17 02:40	1

Lab Sample ID: LCS 480-372783/2-B
Matrix: Water
Analysis Batch: 373692

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 373014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.67		mg/L		97	80 - 120
Antimony	0.200	0.199		mg/L		99	80 - 120
Arsenic	0.200	0.197		mg/L		98	80 - 120
Barium	0.200	0.212		mg/L		106	80 - 120
Beryllium	0.200	0.204		mg/L		102	80 - 120
Cadmium	0.200	0.204		mg/L		102	80 - 120
Calcium	10.0	9.67		mg/L		97	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.200	0.190		mg/L		95	80 - 120
Copper	0.200	0.217		mg/L		108	80 - 120
Iron	10.0	9.96		mg/L		100	80 - 120
Lead	0.200	0.199		mg/L		100	80 - 120
Magnesium	10.0	10.23		mg/L		102	80 - 120
Manganese	0.200	0.213		mg/L		107	80 - 120
Nickel	0.200	0.197		mg/L		98	80 - 120
Potassium	10.0	10.23		mg/L		102	80 - 120
Selenium	0.200	0.185		mg/L		92	80 - 120
Silver	0.0500	0.0475		mg/L		95	80 - 120
Sodium	10.0	10.06		mg/L		100	80 - 120
Thallium	0.200	0.190		mg/L		95	80 - 120
Vanadium	0.200	0.194		mg/L		97	80 - 120
Zinc	0.200	0.200		mg/L		100	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-122816-2 MS
Matrix: Water
Analysis Batch: 373692

Client Sample ID: DUP-02
Prep Type: Dissolved
Prep Batch: 373014

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.68		mg/L		97	75 - 125
Antimony	ND	F1 F2	0.200	0.135	F1	mg/L		67	75 - 125
Arsenic	ND	F1 F2	0.200	0.138	F1	mg/L		69	75 - 125
Barium	0.15		0.200	0.348		mg/L		100	75 - 125
Beryllium	ND		0.200	0.204		mg/L		102	75 - 125
Cadmium	ND	F1 F2	0.200	0.136	F1	mg/L		68	75 - 125
Calcium	115		10.0	116.4	4	mg/L		11	75 - 125
Chromium	ND		0.200	0.199		mg/L		99	75 - 125
Cobalt	ND	F1 F2	0.200	0.124	F1	mg/L		62	75 - 125
Copper	ND		0.200	0.223		mg/L		112	75 - 125
Iron	1.0		10.0	10.44		mg/L		94	75 - 125
Lead	ND	F1 F2	0.200	0.129	F1	mg/L		65	75 - 125
Magnesium	10.6		10.0	19.29		mg/L		87	75 - 125
Manganese	0.81	B	0.200	0.954	4	mg/L		73	75 - 125
Nickel	ND	F1 F2	0.200	0.127	F1	mg/L		64	75 - 125
Potassium	5.7		10.0	15.50		mg/L		98	75 - 125
Selenium	ND	F1 F2	0.200	0.131	F1	mg/L		65	75 - 125
Silver	ND		0.0500	0.0498		mg/L		100	75 - 125
Sodium	393		10.0	386.6	4	mg/L		-60	75 - 125
Thallium	ND	F1 F2	0.200	0.120	F1	mg/L		60	75 - 125
Vanadium	ND		0.200	0.195		mg/L		98	75 - 125
Zinc	0.0071	J B	0.200	0.188		mg/L		90	75 - 125

Lab Sample ID: 480-122816-2 MSD
Matrix: Water
Analysis Batch: 373692

Client Sample ID: DUP-02
Prep Type: Dissolved
Prep Batch: 373014

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.76		mg/L		98	75 - 125	1	20
Antimony	ND	F1 F2	0.200	0.203	F2	mg/L		102	75 - 125	40	20
Arsenic	ND	F1 F2	0.200	0.205	F2	mg/L		102	75 - 125	39	20
Barium	0.15		0.200	0.343		mg/L		98	75 - 125	1	20
Beryllium	ND		0.200	0.206		mg/L		103	75 - 125	1	20
Cadmium	ND	F1 F2	0.200	0.208	F2	mg/L		104	75 - 125	42	20
Calcium	115		10.0	121.4	4	mg/L		61	75 - 125	4	20
Chromium	ND		0.200	0.207		mg/L		103	75 - 125	4	20
Cobalt	ND	F1 F2	0.200	0.198	F2	mg/L		99	75 - 125	46	20
Copper	ND		0.200	0.216		mg/L		108	75 - 125	3	20
Iron	1.0		10.0	10.71		mg/L		97	75 - 125	3	20
Lead	ND	F1 F2	0.200	0.208	F2	mg/L		104	75 - 125	47	20
Magnesium	10.6		10.0	20.04		mg/L		94	75 - 125	4	20
Manganese	0.81	B	0.200	0.985	4	mg/L		89	75 - 125	3	20
Nickel	ND	F1 F2	0.200	0.204	F2	mg/L		102	75 - 125	46	20
Potassium	5.7		10.0	15.66		mg/L		100	75 - 125	1	20
Selenium	ND	F1 F2	0.200	0.195	F2	mg/L		97	75 - 125	40	20
Silver	ND		0.0500	0.0482		mg/L		96	75 - 125	3	20
Sodium	393		10.0	390.7	4	mg/L		-19	75 - 125	1	20
Thallium	ND	F1 F2	0.200	0.185	F2	mg/L		93	75 - 125	43	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-122816-2 MSD
Matrix: Water
Analysis Batch: 373692

Client Sample ID: DUP-02
Prep Type: Dissolved
Prep Batch: 373014

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		0.200	0.197		mg/L		99	75 - 125	1	20
Zinc	0.0071	J B	0.200	0.206		mg/L		99	75 - 125	9	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-372528/1-A
Matrix: Water
Analysis Batch: 372678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/17/17 07:48	08/17/17 13:16	1

Lab Sample ID: LCS 480-372528/2-A
Matrix: Water
Analysis Batch: 372678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00625		mg/L		94	80 - 120

Lab Sample ID: MB 480-372783/1-C
Matrix: Water
Analysis Batch: 373160

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/17 09:30	08/21/17 13:04	1

Lab Sample ID: LCS 480-372783/2-C
Matrix: Water
Analysis Batch: 373160

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 373070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00587		mg/L		88	80 - 120

Lab Sample ID: 480-122816-1 MS
Matrix: Water
Analysis Batch: 373160

Client Sample ID: MW-8
Prep Type: Dissolved
Prep Batch: 373070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00608		mg/L		91	80 - 120

Lab Sample ID: 480-122816-1 MSD
Matrix: Water
Analysis Batch: 373160

Client Sample ID: MW-8
Prep Type: Dissolved
Prep Batch: 373070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00618		mg/L		93	80 - 120	2	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-373481/1-A
Matrix: Water
Analysis Batch: 373566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		08/23/17 09:23	08/23/17 09:23	1
SGT-HEM	ND		5.0	1.9	mg/L		08/23/17 09:23	08/23/17 09:23	1

Lab Sample ID: LCS 480-373481/2-A
Matrix: Water
Analysis Batch: 373566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	39.9	38.52		mg/L		96	78 - 114
SGT-HEM	20.0	14.47		mg/L		72	64 - 132

Lab Sample ID: MB 480-373732/1-A
Matrix: Water
Analysis Batch: 373810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		08/24/17 10:57	08/24/17 10:57	1
SGT-HEM	ND		5.0	1.9	mg/L		08/24/17 10:57	08/24/17 10:57	1

Lab Sample ID: LCS 480-373732/2-A
Matrix: Water
Analysis Batch: 373810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	39.9	36.09		mg/L		90	78 - 114
SGT-HEM	19.9	18.34		mg/L		92	64 - 132

Lab Sample ID: 480-122816-2 MS
Matrix: Water
Analysis Batch: 373810

Client Sample ID: DUP-02
Prep Type: Total/NA
Prep Batch: 373732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	ND		21.8	19.93		mg/L		92	78 - 114
SGT-HEM	ND	F1	10.9	5.77	F1	mg/L		53	64 - 132

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-373210/1-A
Matrix: Water
Analysis Batch: 373371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		08/22/17 03:57	08/22/17 12:02	1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-373210/2-A
Matrix: Water
Analysis Batch: 373371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.29		mg/L		92	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-372718/27
Matrix: Water
Analysis Batch: 372718

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/17/17 18:19	1

Lab Sample ID: MB 480-372718/3
Matrix: Water
Analysis Batch: 372718

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/17/17 18:19	1

Lab Sample ID: LCS 480-372718/28
Matrix: Water
Analysis Batch: 372718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.38		mg/L		98	90 - 110

Lab Sample ID: LCS 480-372718/4
Matrix: Water
Analysis Batch: 372718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.74		mg/L		95	90 - 110

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-373006/1-A
Matrix: Water
Analysis Batch: 373113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	ND		0.010	0.0050	mg/L		08/21/17 02:05	08/21/17 11:06	1

Lab Sample ID: LCS 480-373006/2-A
Matrix: Water
Analysis Batch: 373113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide	0.400	0.421		mg/L		105	90 - 110

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-373006/3-A
Matrix: Water
Analysis Batch: 373113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373006

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide			0.250	0.256		mg/L		102	90 - 110		

Lab Sample ID: 480-122816-1 DU
Matrix: Water
Analysis Batch: 373113

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 373006

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide	0.045			0.0398		mg/L				12	15

Lab Sample ID: MB 480-374087/1-A
Matrix: Water
Analysis Batch: 374109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	ND		0.010	0.0050	mg/L		08/26/17 10:56	08/27/17 12:30	1

Lab Sample ID: LCS 480-374087/2-A
Matrix: Water
Analysis Batch: 374109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374087

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide			0.250	0.252		mg/L		101	90 - 110		

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-374036/3
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.0	0.53	mg/L			08/25/17 05:20	1

Lab Sample ID: LCS 480-374036/4
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness as calcium carbonate			213	224.0		mg/L		105	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-372784/1
Matrix: Water
Analysis Batch: 372784

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/18/17 09:13	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-372784/2
Matrix: Water
Analysis Batch: 372784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	516	503.0		mg/L		98	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-372736/1
Matrix: Water
Analysis Batch: 372736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/18/17 00:21	1

Lab Sample ID: LCS 480-372736/2
Matrix: Water
Analysis Batch: 372736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	281	281.2		mg/L		100	88 - 110

Lab Sample ID: MB 480-373003/1
Matrix: Water
Analysis Batch: 373003

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/21/17 00:56	1

Lab Sample ID: LCS 480-373003/2
Matrix: Water
Analysis Batch: 373003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	242	241.6		mg/L		100	88 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-372717/1
Matrix: Water
Analysis Batch: 372717

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/17/17 13:59	1

Lab Sample ID: LCS 480-372717/2
Matrix: Water
Analysis Batch: 372717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	192.0		mg/L		97	85 - 115

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: USB 480-372719/1
Matrix: Water
Analysis Batch: 372719

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/17/17 13:59	1

Lab Sample ID: LCS 480-372719/2
Matrix: Water
Analysis Batch: 372719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	196.3		mg/L		99	85 - 115

Lab Sample ID: 480-122816-1 DU
Matrix: Water
Analysis Batch: 372719

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	ND		ND		mg/L		NC	20

Lab Sample ID: USB 480-372823/1
Matrix: Water
Analysis Batch: 372823

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/18/17 08:58	1

Lab Sample ID: LCS 480-372823/2
Matrix: Water
Analysis Batch: 372823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	199.8		mg/L		101	85 - 115

Lab Sample ID: USB 480-372832/1
Matrix: Water
Analysis Batch: 372832

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/18/17 08:58	1

Lab Sample ID: LCS 480-372832/2
Matrix: Water
Analysis Batch: 372832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	189.9		mg/L		96	85 - 115

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: 480-122816-3 DU
Matrix: Water
Analysis Batch: 372832

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	ND			ND		mg/L				NC	20

GC/MS VOA

Analysis Batch: 372871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	624	
480-122816-2	DUP-02	Total/NA	Water	624	
480-122816-3	MW-13	Total/NA	Water	624	
MB 480-372871/7	Method Blank	Total/NA	Water	624	
LCS 480-372871/5	Lab Control Sample	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 372647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	625	
480-122816-2	DUP-02	Total/NA	Water	625	
480-122816-3	MW-13	Total/NA	Water	625	
MB 480-372647/1-A	Method Blank	Total/NA	Water	625	
LCS 480-372647/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-372647/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 374116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	625	372647
480-122816-2	DUP-02	Total/NA	Water	625	372647
480-122816-3	MW-13	Total/NA	Water	625	372647
MB 480-372647/1-A	Method Blank	Total/NA	Water	625	372647
LCS 480-372647/2-A	Lab Control Sample	Total/NA	Water	625	372647
LCSD 480-372647/3-A	Lab Control Sample Dup	Total/NA	Water	625	372647

Prep Batch: 374535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-2 - RE	DUP-02	Total/NA	Water	625	
MB 480-374535/1-A	Method Blank	Total/NA	Water	625	
LCS 480-374535/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-374535/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 374837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-2 - RE	DUP-02	Total/NA	Water	625	374535
MB 480-374535/1-A	Method Blank	Total/NA	Water	625	374535
LCS 480-374535/2-A	Lab Control Sample	Total/NA	Water	625	374535
LCSD 480-374535/3-A	Lab Control Sample Dup	Total/NA	Water	625	374535

GC Semi VOA

Prep Batch: 372756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	3510C	
480-122816-2	DUP-02	Total/NA	Water	3510C	
480-122816-3	MW-13	Total/NA	Water	3510C	
MB 480-372756/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372756/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-372756/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 372759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	3510C	
480-122816-2	DUP-02	Total/NA	Water	3510C	
480-122816-3	MW-13	Total/NA	Water	3510C	
MB 480-372759/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372759/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 372883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	608	372756
480-122816-2	DUP-02	Total/NA	Water	608	372756
480-122816-3	MW-13	Total/NA	Water	608	372756
MB 480-372756/1-A	Method Blank	Total/NA	Water	608	372756
LCS 480-372756/2-A	Lab Control Sample	Total/NA	Water	608	372756
LCSD 480-372756/3-A	Lab Control Sample Dup	Total/NA	Water	608	372756

Analysis Batch: 373562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	608	372759
480-122816-2	DUP-02	Total/NA	Water	608	372759
480-122816-3	MW-13	Total/NA	Water	608	372759
MB 480-372759/1-A	Method Blank	Total/NA	Water	608	372759
LCS 480-372759/2-A	Lab Control Sample	Total/NA	Water	608	372759

Metals

Prep Batch: 372528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	7470A	
480-122816-2	DUP-02	Total/NA	Water	7470A	
480-122816-3	MW-13	Total/NA	Water	7470A	
MB 480-372528/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-372528/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 372657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	3005A	
480-122816-2	DUP-02	Total/NA	Water	3005A	
480-122816-3	MW-13	Total/NA	Water	3005A	
MB 480-372657/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-372657/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 372678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	7470A	372528
480-122816-2	DUP-02	Total/NA	Water	7470A	372528
480-122816-3	MW-13	Total/NA	Water	7470A	372528
MB 480-372528/1-A	Method Blank	Total/NA	Water	7470A	372528
LCS 480-372528/2-A	Lab Control Sample	Total/NA	Water	7470A	372528

Metals (Continued)

Filtration Batch: 372783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Dissolved	Water	FILTRATION	
480-122816-2	DUP-02	Dissolved	Water	FILTRATION	
480-122816-3	MW-13	Dissolved	Water	FILTRATION	
MB 480-372783/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-372783/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-372783/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-372783/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
480-122816-1 MS	MW-8	Dissolved	Water	FILTRATION	
480-122816-1 MSD	MW-8	Dissolved	Water	FILTRATION	
480-122816-2 MS	DUP-02	Dissolved	Water	FILTRATION	
480-122816-2 MSD	DUP-02	Dissolved	Water	FILTRATION	

Prep Batch: 373014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Dissolved	Water	3005A	372783
480-122816-2	DUP-02	Dissolved	Water	3005A	372783
480-122816-3	MW-13	Dissolved	Water	3005A	372783
MB 480-372783/1-B	Method Blank	Dissolved	Water	3005A	372783
LCS 480-372783/2-B	Lab Control Sample	Dissolved	Water	3005A	372783
480-122816-2 MS	DUP-02	Dissolved	Water	3005A	372783
480-122816-2 MSD	DUP-02	Dissolved	Water	3005A	372783

Prep Batch: 373070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Dissolved	Water	7470A	372783
480-122816-2	DUP-02	Dissolved	Water	7470A	372783
480-122816-3	MW-13	Dissolved	Water	7470A	372783
MB 480-372783/1-C	Method Blank	Dissolved	Water	7470A	372783
LCS 480-372783/2-C	Lab Control Sample	Dissolved	Water	7470A	372783
480-122816-1 MS	MW-8	Dissolved	Water	7470A	372783
480-122816-1 MSD	MW-8	Dissolved	Water	7470A	372783

Analysis Batch: 373160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Dissolved	Water	7470A	373070
480-122816-2	DUP-02	Dissolved	Water	7470A	373070
480-122816-3	MW-13	Dissolved	Water	7470A	373070
MB 480-372783/1-C	Method Blank	Dissolved	Water	7470A	373070
LCS 480-372783/2-C	Lab Control Sample	Dissolved	Water	7470A	373070
480-122816-1 MS	MW-8	Dissolved	Water	7470A	373070
480-122816-1 MSD	MW-8	Dissolved	Water	7470A	373070

Analysis Batch: 373489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	6010C	372657
480-122816-2	DUP-02	Total/NA	Water	6010C	372657
480-122816-3	MW-13	Total/NA	Water	6010C	372657
MB 480-372657/1-A	Method Blank	Total/NA	Water	6010C	372657
LCS 480-372657/2-A	Lab Control Sample	Total/NA	Water	6010C	372657

Metals (Continued)

Analysis Batch: 373692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Dissolved	Water	6010C	373014
480-122816-2	DUP-02	Dissolved	Water	6010C	373014
480-122816-3	MW-13	Dissolved	Water	6010C	373014
MB 480-372783/1-B	Method Blank	Dissolved	Water	6010C	373014
LCS 480-372783/2-B	Lab Control Sample	Dissolved	Water	6010C	373014
480-122816-2 MS	DUP-02	Dissolved	Water	6010C	373014
480-122816-2 MSD	DUP-02	Dissolved	Water	6010C	373014

General Chemistry

Analysis Batch: 372717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	SM 5210B	
480-122816-2	DUP-02	Total/NA	Water	SM 5210B	
USB 480-372717/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372717/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 372718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	410.4	
480-122816-2	DUP-02	Total/NA	Water	410.4	
480-122816-3	MW-13	Total/NA	Water	410.4	
MB 480-372718/27	Method Blank	Total/NA	Water	410.4	
MB 480-372718/3	Method Blank	Total/NA	Water	410.4	
LCS 480-372718/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-372718/4	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 372719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	SM 5210B	
480-122816-2	DUP-02	Total/NA	Water	SM 5210B	
USB 480-372719/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372719/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122816-1 DU	MW-8	Total/NA	Water	SM 5210B	

Analysis Batch: 372726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	9040C	
480-122816-2	DUP-02	Total/NA	Water	9040C	
480-122816-3	MW-13	Total/NA	Water	9040C	
LCS 480-372726/45	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 372736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-2	DUP-02	Total/NA	Water	SM 2540D	
MB 480-372736/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-372736/2	Lab Control Sample	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 372784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	SM 2540C	
480-122816-2	DUP-02	Total/NA	Water	SM 2540C	
480-122816-3	MW-13	Total/NA	Water	SM 2540C	
MB 480-372784/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-372784/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 372823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-3	MW-13	Total/NA	Water	SM 5210B	
USB 480-372823/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372823/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 372832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-3	MW-13	Total/NA	Water	SM 5210B	
USB 480-372832/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372832/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122816-3 DU	MW-13	Total/NA	Water	SM 5210B	

Analysis Batch: 373003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	SM 2540D	
480-122816-3	MW-13	Total/NA	Water	SM 2540D	
MB 480-373003/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-373003/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 373006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	9012B	
480-122816-2	DUP-02	Total/NA	Water	9012B	
480-122816-3	MW-13	Total/NA	Water	9012B	
MB 480-373006/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-373006/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-373006/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-122816-1 DU	MW-8	Total/NA	Water	9012B	

Analysis Batch: 373113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	9012B	373006
480-122816-2	DUP-02	Total/NA	Water	9012B	373006
480-122816-3	MW-13	Total/NA	Water	9012B	373006
MB 480-373006/1-A	Method Blank	Total/NA	Water	9012B	373006
LCS 480-373006/2-A	Lab Control Sample	Total/NA	Water	9012B	373006
LCS 480-373006/3-A	Lab Control Sample	Total/NA	Water	9012B	373006
480-122816-1 DU	MW-8	Total/NA	Water	9012B	373006

Prep Batch: 373210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	351.2	
480-122816-2	DUP-02	Total/NA	Water	351.2	
480-122816-3	MW-13	Total/NA	Water	351.2	

General Chemistry (Continued)

Prep Batch: 373210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-373210/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-373210/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 373371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	351.2	373210
480-122816-2	DUP-02	Total/NA	Water	351.2	373210
480-122816-3	MW-13	Total/NA	Water	351.2	373210
MB 480-373210/1-A	Method Blank	Total/NA	Water	351.2	373210
LCS 480-373210/2-A	Lab Control Sample	Total/NA	Water	351.2	373210

Prep Batch: 373481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	1664B	
MB 480-373481/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-373481/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 373566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	1664B	373481
MB 480-373481/1-A	Method Blank	Total/NA	Water	1664B	373481
LCS 480-373481/2-A	Lab Control Sample	Total/NA	Water	1664B	373481

Prep Batch: 373732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-2	DUP-02	Total/NA	Water	1664B	
480-122816-3	MW-13	Total/NA	Water	1664B	
MB 480-373732/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-373732/2-A	Lab Control Sample	Total/NA	Water	1664B	
480-122816-2 MS	DUP-02	Total/NA	Water	1664B	

Analysis Batch: 373810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-2	DUP-02	Total/NA	Water	1664B	373732
480-122816-3	MW-13	Total/NA	Water	1664B	373732
MB 480-373732/1-A	Method Blank	Total/NA	Water	1664B	373732
LCS 480-373732/2-A	Lab Control Sample	Total/NA	Water	1664B	373732
480-122816-2 MS	DUP-02	Total/NA	Water	1664B	373732

Analysis Batch: 374036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Total/NA	Water	SM 2340C	
480-122816-2	DUP-02	Total/NA	Water	SM 2340C	
480-122816-3	MW-13	Total/NA	Water	SM 2340C	
MB 480-374036/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-374036/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Filtration Batch: 374085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Dissolved	Water	Filtration	
480-122816-2	DUP-02	Dissolved	Water	Filtration	

General Chemistry (Continued)

Filtration Batch: 374085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-3	MW-13	Dissolved	Water	Filtration	

Prep Batch: 374087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Dissolved	Water	9012B	374085
480-122816-2	DUP-02	Dissolved	Water	9012B	374085
480-122816-3	MW-13	Dissolved	Water	9012B	374085
MB 480-374087/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-374087/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 374109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122816-1	MW-8	Dissolved	Water	9012B	374087
480-122816-2	DUP-02	Dissolved	Water	9012B	374087
480-122816-3	MW-13	Dissolved	Water	9012B	374087
MB 480-374087/1-A	Method Blank	Total/NA	Water	9012B	374087
LCS 480-374087/2-A	Lab Control Sample	Total/NA	Water	9012B	374087

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Client Sample ID: MW-8

Date Collected: 08/16/17 10:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	372871	08/18/17 18:26	RJF	TAL BUF
Total/NA	Prep	625			372647	08/17/17 14:08	SMP	TAL BUF
Total/NA	Analysis	625		1	374116	08/27/17 23:23	PJQ	TAL BUF
Total/NA	Prep	3510C			372759	08/18/17 07:29	JMP	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 17:18	JMO	TAL BUF
Total/NA	Prep	3510C			372756	08/18/17 07:24	JMP	TAL BUF
Total/NA	Analysis	608		1	372883	08/18/17 16:47	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			372783	08/18/17 09:11	EMB	TAL BUF
Dissolved	Prep	3005A			373014	08/21/17 07:50	EMB	TAL BUF
Dissolved	Analysis	6010C		1	373692	08/22/17 02:58	LMH	TAL BUF
Total/NA	Prep	3005A			372657	08/18/17 08:37	EMB	TAL BUF
Total/NA	Analysis	6010C		1	373489	08/22/17 05:49	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372783	08/18/17 09:11	EMB	TAL BUF
Dissolved	Prep	7470A			373070	08/21/17 09:30	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	373160	08/21/17 13:10	MVZ	TAL BUF
Total/NA	Prep	7470A			372528	08/17/17 07:48	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372678	08/17/17 13:23	MVZ	TAL BUF
Total/NA	Prep	1664B			373481	08/23/17 09:23	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373566	08/23/17 09:23	DSC	TAL BUF
Total/NA	Prep	351.2			373210	08/22/17 03:57	LAW	TAL BUF
Total/NA	Analysis	351.2		1	373371	08/22/17 12:57	CLT	TAL BUF
Total/NA	Analysis	410.4		1	372718	08/17/17 18:19	CDC	TAL BUF
Dissolved	Filtration	Filtration			374085	08/26/17 10:52	JCL	TAL BUF
Dissolved	Prep	9012B			374087	08/26/17 10:56	JCL	TAL BUF
Dissolved	Analysis	9012B		1	374109	08/27/17 12:50	MDL	TAL BUF
Total/NA	Prep	9012B			373006	08/21/17 02:05	BEV	TAL BUF
Total/NA	Analysis	9012B		1	373113	08/21/17 11:24	MDL	TAL BUF
Total/NA	Analysis	9040C		1	372726	08/17/17 20:54	ALZ	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	372784	08/18/17 09:13	EKB	TAL BUF
Total/NA	Analysis	SM 2540D		1	373003	08/21/17 00:56	KMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	372717	08/17/17 13:59	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	372719	08/17/17 13:59	ALZ	TAL BUF

Client Sample ID: DUP-02

Date Collected: 08/16/17 00:00
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	372871	08/18/17 18:50	RJF	TAL BUF
Total/NA	Prep	625			372647	08/17/17 14:08	SMP	TAL BUF
Total/NA	Analysis	625		5	374116	08/27/17 23:49	PJQ	TAL BUF
Total/NA	Prep	625	RE		374535	08/30/17 08:07	JMP	TAL BUF

Client Sample ID: DUP-02

Lab Sample ID: 480-122816-2

Date Collected: 08/16/17 00:00

Matrix: Water

Date Received: 08/17/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	625	RE	5	374837	09/01/17 02:43	PJQ	TAL BUF
Total/NA	Prep	3510C			372759	08/18/17 07:29	JMP	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 17:33	JMO	TAL BUF
Total/NA	Prep	3510C			372756	08/18/17 07:24	JMP	TAL BUF
Total/NA	Analysis	608		1	372883	08/18/17 17:07	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			372783	08/18/17 09:11	EMB	TAL BUF
Dissolved	Prep	3005A			373014	08/21/17 07:50	EMB	TAL BUF
Dissolved	Analysis	6010C		1	373692	08/22/17 03:01	LMH	TAL BUF
Total/NA	Prep	3005A			372657	08/18/17 08:37	EMB	TAL BUF
Total/NA	Analysis	6010C		1	373489	08/22/17 05:53	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372783	08/18/17 09:11	EMB	TAL BUF
Dissolved	Prep	7470A			373070	08/21/17 09:30	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	373160	08/21/17 13:21	MVZ	TAL BUF
Total/NA	Prep	7470A			372528	08/17/17 07:48	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372678	08/17/17 13:28	MVZ	TAL BUF
Total/NA	Prep	1664B			373732	08/24/17 10:57	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373810	08/24/17 10:57	DSC	TAL BUF
Total/NA	Prep	351.2			373210	08/22/17 03:57	LAW	TAL BUF
Total/NA	Analysis	351.2		1	373371	08/22/17 12:57	CLT	TAL BUF
Total/NA	Analysis	410.4		1	372718	08/17/17 18:19	CDC	TAL BUF
Dissolved	Filtration	Filtration			374085	08/26/17 10:52	JCL	TAL BUF
Dissolved	Prep	9012B			374087	08/26/17 10:56	JCL	TAL BUF
Dissolved	Analysis	9012B		1	374109	08/27/17 12:55	MDL	TAL BUF
Total/NA	Prep	9012B			373006	08/21/17 02:05	BEV	TAL BUF
Total/NA	Analysis	9012B		1	373113	08/21/17 11:26	MDL	TAL BUF
Total/NA	Analysis	9040C		1	372726	08/17/17 20:58	ALZ	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	372784	08/18/17 09:13	EKB	TAL BUF
Total/NA	Analysis	SM 2540D		1	372736	08/18/17 00:21	KMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	372717	08/17/17 13:59	ALZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	372719	08/17/17 13:59	ALZ	TAL BUF

Client Sample ID: MW-13

Lab Sample ID: 480-122816-3

Date Collected: 08/16/17 14:30

Matrix: Water

Date Received: 08/17/17 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	372871	08/18/17 19:14	RJF	TAL BUF
Total/NA	Prep	625			372647	08/17/17 14:08	SMP	TAL BUF
Total/NA	Analysis	625		10	374116	08/28/17 00:15	PJQ	TAL BUF
Total/NA	Prep	3510C			372759	08/18/17 07:29	JMP	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 17:49	JMO	TAL BUF
Total/NA	Prep	3510C			372756	08/18/17 07:24	JMP	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Client Sample ID: MW-13

Date Collected: 08/16/17 14:30
Date Received: 08/17/17 01:45

Lab Sample ID: 480-122816-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	608		1	372883	08/18/17 17:26	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			372783	08/18/17 09:11	EMB	TAL BUF
Dissolved	Prep	3005A			373014	08/21/17 07:50	EMB	TAL BUF
Dissolved	Analysis	6010C		1	373692	08/22/17 03:19	LMH	TAL BUF
Total/NA	Prep	3005A			372657	08/18/17 08:37	EMB	TAL BUF
Total/NA	Analysis	6010C		1	373489	08/22/17 05:57	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372783	08/18/17 09:11	EMB	TAL BUF
Dissolved	Prep	7470A			373070	08/21/17 09:30	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	373160	08/21/17 13:23	MVZ	TAL BUF
Total/NA	Prep	7470A			372528	08/17/17 07:48	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372678	08/17/17 13:29	MVZ	TAL BUF
Total/NA	Prep	1664B			373732	08/24/17 10:57	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373810	08/24/17 10:57	DSC	TAL BUF
Total/NA	Prep	351.2			373210	08/22/17 03:57	LAW	TAL BUF
Total/NA	Analysis	351.2		5	373371	08/22/17 13:39	CLT	TAL BUF
Total/NA	Analysis	410.4		1	372718	08/17/17 18:19	CDC	TAL BUF
Dissolved	Filtration	Filtration			374085	08/26/17 10:52	JCL	TAL BUF
Dissolved	Prep	9012B			374087	08/26/17 10:56	JCL	TAL BUF
Dissolved	Analysis	9012B		1	374109	08/27/17 12:56	MDL	TAL BUF
Total/NA	Prep	9012B			373006	08/21/17 02:05	BEV	TAL BUF
Total/NA	Analysis	9012B		1	373113	08/21/17 11:28	MDL	TAL BUF
Total/NA	Analysis	9040C		1	372726	08/17/17 21:00	ALZ	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	372784	08/18/17 09:13	EKB	TAL BUF
Total/NA	Analysis	SM 2540D		1	373003	08/21/17 00:56	KMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	372823	08/18/17 08:58	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	372832	08/18/17 08:58	CLT	TAL BUF

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Diphenylhydrazine

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
9040C		Water	pH
9040C		Water	Temperature

Laboratory: EMLab P&K - Houston TCEQ Cert T104704489

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
AIHA-LAP, LLC	EMLAP		193549	01-01-18
Texas	NELAP	6	T104704489-17-10	07-31-18

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
Local Method	General Sub Contract Method	NONE	EMLab Hou

Protocol References:

1664B = 1664B

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122816-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-122816-1	MW-8	Water	08/16/17 10:00	08/17/17 01:45
480-122816-2	DUP-02	Water	08/16/17 00:00	08/17/17 01:45
480-122816-3	MW-13	Water	08/16/17 14:30	08/17/17 01:45

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122816

Date of Sampling: 08-16-2017
Date of Receipt: 08-18-2017
Date of Report: 08-31-2017

Slime Forming Bacteria Presence/Absence Report

Location:	MW-8 (480-122816-1)
Comments (see below)	None
Lab ID-Version‡:	8314847-1
Sample Type	Water
Slime Forming Bacteria	**Absent**

Location:	MW-13 (480-122816-3)
Comments (see below)	None
Lab ID-Version‡:	8314849-1
Sample Type	Water
Slime Forming Bacteria	**Absent**

Comments:

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Dayo
Re: 480-122816

Date of Sampling: 08/16/2017
Date of Receipt: 08/18/2017
Date of Report: 08/23/2017

Iron Bacteria Presence/Absence Report

Location:	MW-8 (480-122816-1)
Comments (see below)	A
Lab ID-Version‡:	8314846 -1
Sample Type	Water
Iron Bacteria	**Absent**

Location:	MW-13 (480-122816-3)
Comments (see below)	A
Lab ID-Version‡:	83148468-1
Sample Type	Water
Iron Bacteria	**Absent**

Comments: A) Iron bacteria method: SM chapter 9240B., 20th edition.

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
A TestAmerica Company

Report for:

Melissa Deyo
TestAmerica-Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Regarding: Project: 480-122816
EML ID: 1779151

Approved by:



Technical Manager
Magzoub Ismail

Dates of Analysis:
MPN-Sulfate reducing bacteria: 09-11-2017

Service SOPs: MPN-Sulfate reducing bacteria (EM-BT-S-1059)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122816

Date of Sampling: 08-16-2017
Date of Receipt: 08-18-2017
Date of Report: 09-20-2017

MPN REPORT

Location: MW-8 (480-122816-1) Lab ID-Version‡: 8314850-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	**Method**	**Setup Time**	**MPN*/Unit**	**LCL****	**UCL****
Sulfate-reducing Bacteria	SM 9240 D	08/18/17 16:00	24	6	100

Comments:

Location: MW-13 (480-122816-3) Lab ID-Version‡: 8314851-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	**Method**	**Setup Time**	**MPN*/Unit**	**LCL****	**UCL****
Sulfate-reducing Bacteria	SM 9240 D	08/18/17 16:00	870	210	3,600

Comments:

*MPN - Most Probable Number.
MPN methods:
SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.
FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.
MPN values are calculated using the method of Thomas (1942).
The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, non-clustered, bacteria not attached to particulate matter within a sample. Due to the fact that bacteria can cluster and adhere to materials, values determined by the MPN method should be considered estimates in many instances.
**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM).
Interpretation is left to the company and/or persons who conducted the field work.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Buffalo 480501-Albany
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-122816 COC

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier	COC No: 480-100780-23982.1
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 3
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065				
Phone: (518) 250-7300	PO #: B0036648.1401.00006			Other:
Email: Aubrey.Thomas@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid - North Albany	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624_5ml - Priority Pollutant List - VOCs	608_Pest - Priority Pollutant Pesticides	625 - Priority Pollutant List - SVOCs	608_PCB - Priority Pollutant PCBs	9012_ReactiveCN, 9034_Reactive	9040C - pH	1010A - Ignitability	6010C, 7470A	6010C, 7470A	9012B - Cyanide	9012B - Dissolved Cyanide	1664B - O&G	2540D - TSS	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	N	N	N	N	N	D	N	B	N	S	N		
MW-8	8/16/17	1000	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
DUP-02	8/16/17	-	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
MW-13	8/16/17	1430	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

8/16/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8/16/17 1635	Arcadis		8-16-17 1635	FA
	8/16/17 1500	FA		8-17-17 0145	TAL

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.4, 0.5, 0.6 #1

Page 68 of 71

9/22/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-100780-23982.2
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 2 of 3
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065				
Phone: (518) 250-7300	PO #: B0036648.1401.00006			
Email: Aubrey.Thomas@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid - North Albany	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	5210B - BOD	351.2, 410.4	2340C - Hardness	SUBCONTRACT - Iron reducing bacteria	SUBCONTRACT - Slime forming bacteria	SUBCONTRACT - Sulfate reduing bacteria	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	D	N	N	N		
MW-8	8/16/17	1000	G	Water	N	N	1	1	1	1	1				
DUP-02	8/16/17	-	G	Water	N	N	1	1	1	1					
MW-13	8/16/17	1430	G	Water	N	N	1	1	1	1	1				
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

8/16/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/16/17 1635	ARCADIS	[signature]	8-16-17	TA
2	Rut Yoder	8/16/17 1500	TA	[signature]	8-17-17 0145	TAB
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.7, 0.8, 0.9 #1

9/22/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Temp - 8.4°C with ice.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dayo, Melissa L	Carrier Tracking No(s):	COC No: 480-38671.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.dayo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: EMLab P&K		Accreditations Required (See note): NELAP - New York		Job #: 480-122816-1
Address: Subcont. report available upon request, 6310 Rothway,	Due Date Requested: 8/28/2017			Preservation Codes:
City: Houston	TAT Requested (days):			
State, Zip: TX, 77040				
Phone:	PO #:			
Email:	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

001779151

K - EDTA
L - EDA
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (BioActivity - Iron-Reducing Bacteria)	SUB (BioActivity - Slime-Forming Bacteria)	SUB (BioActivity - Sulfate-Reducing Bacteria)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-8 (480-122816-1)	8/16/17	10:00 Eastern		Water			X	X	X		
MW-13 (480-122816-3)	8/16/17	14:30 Eastern		Water			X	X	X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/17/17 1600	TAB	[signature]	08/18/17 10:42	EMLab
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-122816-1

Login Number: 122816
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-122880-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
9/25/2017 10:02:42 AM
Rebecca Jones, Project Management Assistant I
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Designee for

Melissa Deyo, Project Manager I
(716)504-9874
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122880-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
b	Result Detected in the Unseeded Control blank (USB).
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-122880-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-122880-1

Receipt
The samples were received on 8/18/2017 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 1.0º C.

GC/MS VOA
Method(s) 624: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following sample was received preserved with hydrochloric acid: MW-6S (480-122880-1). The requested target analyte list contains 2-chloroethyl vinyl ether, which is an acid-labile compound that degrade in an acidic medium.

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-6S (480-122880-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625: The following sample was diluted due to the nature of the sample matrix: MW-6S (480-122880-1). Elevated reporting limits (RLs) are provided.

Method(s) 625: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-6S (480-122880-1). Elevated reporting limits (RLs) are provided.

Method(s) 625: The following samples required a dilution due to the nature of the sample matrix or target analytes: MW-6S (480-122880-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 608: All primary data for analytical batch 373562 is reported from the ZB-35 column.

Method(s) 608: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 608: All primary data for analytical batch 372883 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The Method Blank for preparation batch 480-373168 contained Total Manganese above the reporting limit (RL). Associated sample MW-6S (480-122880-1) was not re-extracted and/or re-analyzed because results were greater than 10X the value found in the Method Blank.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-373447/37) contained Total Manganese outside the control limits. All reported samples MW-6S (480-122880-1) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-6S (480-122880-1). The reporting limits (RLs) have been adjusted proportionately.

Job ID: 480-122880-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-6S (480-122880-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-372756.

Method(s) 3510C: The following sample required a Florisil clean-up, via 3620C, to reduce matrix interferences: MW-6S (480-122880-1).

Method(s) 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-373029.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122880-1

Client Sample ID: MW-6S — Lab Sample ID: 480-122880-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1100		100	12	ug/L	20		624	Total/NA
Ethylbenzene	920		100	9.3	ug/L	20		624	Total/NA
Toluene	360		100	9.1	ug/L	20		624	Total/NA
Acenaphthene	160		50	8.1	ug/L	10		625	Total/NA
Acenaphthylene	96		50	8.7	ug/L	10		625	Total/NA
Fluorene	52		50	10	ug/L	10		625	Total/NA
Naphthalene	3900	E B	50	8.6	ug/L	10		625	Total/NA
Phenanthrene	97		50	12	ug/L	10		625	Total/NA
Pyrene	17	J	50	14	ug/L	10		625	Total/NA
Acenaphthene - DL	160	J	500	81	ug/L	100		625	Total/NA
Acenaphthylene - DL	96	J	500	87	ug/L	100		625	Total/NA
Naphthalene - DL	3800	B	500	86	ug/L	100		625	Total/NA
4,4'-DDE	0.012	J	0.050	0.012	ug/L	1		608	Total/NA
Aluminum	0.068	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.15		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	70.9		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	32.3		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0036	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	7.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.44	B ^	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	7.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	730		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0042	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.12		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	63.7		0.50	0.10	mg/L	1		6010C	Dissolved
Iron	7.0		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	7.4		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.48	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.016		0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	6.9		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	667		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0089	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
SGT-HEM	3.0	J	5.6	2.2	mg/L	1		1664B	Total/NA
Total Kjeldahl Nitrogen	1.2		0.20	0.15	mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	25.0		10.0	5.0	mg/L	1		410.4	Total/NA
Cyanide, Total	0.034		0.010	0.0050	mg/L	1		9012B	Total/NA
Hardness as calcium carbonate	212		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	2510	B	40.0	16.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	8.9	b	6.0	6.0	mg/L	1		SM 5210B	Total/NA
Carbonaceous Biochemical Oxygen Demand	8.4	b	6.0	6.0	mg/L	1		SM 5210B	Total/NA
Cyanide, Total	0.020		0.010	0.0050	mg/L	1		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.00	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	23.5	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Suspended Solids	61.6		4.0	4.0	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-6S
Date Collected: 08/17/17 11:00
Date Received: 08/18/17 01:45

Lab Sample ID: 480-122880-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		2000	350	ug/L			08/22/17 00:10	20
Acrylonitrile	ND		1000	38	ug/L			08/22/17 00:10	20
Benzene	**1100**		100	12	ug/L			08/22/17 00:10	20
Dichlorobromomethane	ND		100	11	ug/L			08/22/17 00:10	20
Bromoform	ND		100	9.4	ug/L			08/22/17 00:10	20
Bromomethane	ND		100	24	ug/L			08/22/17 00:10	20
Carbon tetrachloride	ND		100	10	ug/L			08/22/17 00:10	20
Chlorobenzene	ND		100	9.5	ug/L			08/22/17 00:10	20
Chloroethane	ND		100	17	ug/L			08/22/17 00:10	20
2-Chloroethyl vinyl ether	ND		500	37	ug/L			08/22/17 00:10	20
Chloroform	ND		100	11	ug/L			08/22/17 00:10	20
Chloromethane	ND		100	13	ug/L			08/22/17 00:10	20
Chlorodibromomethane	ND		100	8.3	ug/L			08/22/17 00:10	20
1,1-Dichloroethane	ND		100	12	ug/L			08/22/17 00:10	20
1,2-Dichloroethane	ND		100	12	ug/L			08/22/17 00:10	20
1,1-Dichloroethene	ND		100	17	ug/L			08/22/17 00:10	20
trans-1,2-Dichloroethene	ND		100	12	ug/L			08/22/17 00:10	20
1,2-Dichloropropane	ND		100	12	ug/L			08/22/17 00:10	20
cis-1,3-Dichloropropene	ND		100	6.6	ug/L			08/22/17 00:10	20
trans-1,3-Dichloropropene	ND		100	8.8	ug/L			08/22/17 00:10	20
Ethylbenzene	**920**		100	9.3	ug/L			08/22/17 00:10	20
Methylene Chloride	ND		100	16	ug/L			08/22/17 00:10	20
1,1,2,2-Tetrachloroethane	ND		100	5.2	ug/L			08/22/17 00:10	20
Tetrachloroethene	ND		100	6.8	ug/L			08/22/17 00:10	20
Toluene	**360**		100	9.1	ug/L			08/22/17 00:10	20
1,1,1-Trichloroethane	ND		100	7.7	ug/L			08/22/17 00:10	20
1,1,2-Trichloroethane	ND		100	9.6	ug/L			08/22/17 00:10	20
Trichloroethene	ND		100	12	ug/L			08/22/17 00:10	20
Vinyl chloride	ND		100	15	ug/L			08/22/17 00:10	20
1,2-Dichlorobenzene	ND		100	8.9	ug/L			08/22/17 00:10	20
1,2-Dichloroethene, Total	ND		200	64	ug/L			08/22/17 00:10	20
1,3-Dichlorobenzene	ND		100	11	ug/L			08/22/17 00:10	20
1,4-Dichlorobenzene	ND		100	10	ug/L			08/22/17 00:10	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*08/22/17 00:10*	*20*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*08/22/17 00:10*	*20*
Toluene-d8 (Surr)	*102*		*77 - 120*		*08/22/17 00:10*	*20*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/22/17 00:10*	*20*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**160**		50	8.1	ug/L		08/21/17 08:04	08/30/17 14:01	10
Acenaphthylene	**96**		50	8.7	ug/L		08/21/17 08:04	08/30/17 14:01	10
Anthracene	ND		50	14	ug/L		08/21/17 08:04	08/30/17 14:01	10
Benzidine	ND		800	350	ug/L		08/21/17 08:04	08/30/17 14:01	10
Benzo[a]anthracene	ND		50	11	ug/L		08/21/17 08:04	08/30/17 14:01	10
Benzo[a]pyrene	ND		50	13	ug/L		08/21/17 08:04	08/30/17 14:01	10
Benzo[b]fluoranthene	ND		50	12	ug/L		08/21/17 08:04	08/30/17 14:01	10
Benzo[g,h,i]perylene	ND		50	15	ug/L		08/21/17 08:04	08/30/17 14:01	10

Client Sample ID: MW-6S
Date Collected: 08/17/17 11:00
Date Received: 08/18/17 01:45

Lab Sample ID: 480-122880-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		50	13	ug/L		08/21/17 08:04	08/30/17 14:01	10
Bis(2-chloroethyl)ether	ND		50	9.3	ug/L		08/21/17 08:04	08/30/17 14:01	10
Bis(2-chloroethoxy)methane	ND		50	7.5	ug/L		08/21/17 08:04	08/30/17 14:01	10
bis (2-chloroisopropyl) ether	ND		50	8.4	ug/L		08/21/17 08:04	08/30/17 14:01	10
Bis(2-ethylhexyl) phthalate	ND		100	12	ug/L		08/21/17 08:04	08/30/17 14:01	10
4-Bromophenyl phenyl ether	ND		50	14	ug/L		08/21/17 08:04	08/30/17 14:01	10
Butyl benzyl phthalate	ND		50	11	ug/L		08/21/17 08:04	08/30/17 14:01	10
2-Chloronaphthalene	ND		50	9.1	ug/L		08/21/17 08:04	08/30/17 14:01	10
4-Chlorophenyl phenyl ether	ND		50	13	ug/L		08/21/17 08:04	08/30/17 14:01	10
Chrysene	ND		50	10	ug/L		08/21/17 08:04	08/30/17 14:01	10
Dibenz(a,h)anthracene	ND		50	15	ug/L		08/21/17 08:04	08/30/17 14:01	10
Di-n-butyl phthalate	ND		50	16	ug/L		08/21/17 08:04	08/30/17 14:01	10
1,2-Dichlorobenzene	ND		100	50	ug/L		08/21/17 08:04	08/30/17 14:01	10
1,3-Dichlorobenzene	ND		100	6.9	ug/L		08/21/17 08:04	08/30/17 14:01	10
1,4-Dichlorobenzene	ND		100	56	ug/L		08/21/17 08:04	08/30/17 14:01	10
3,3'-Dichlorobenzidine	ND		50	8.2	ug/L		08/21/17 08:04	08/30/17 14:01	10
Diethyl phthalate	ND		50	10	ug/L		08/21/17 08:04	08/30/17 14:01	10
Dimethyl phthalate	ND		50	9.1	ug/L		08/21/17 08:04	08/30/17 14:01	10
2,4-Dinitrotoluene	ND		100	50	ug/L		08/21/17 08:04	08/30/17 14:01	10
2,6-Dinitrotoluene	ND		50	10	ug/L		08/21/17 08:04	08/30/17 14:01	10
Di-n-octyl phthalate	ND		50	12	ug/L		08/21/17 08:04	08/30/17 14:01	10
1,2-Diphenylhydrazine	ND		100	7.8	ug/L		08/21/17 08:04	08/30/17 14:01	10
Fluoranthene	ND		50	16	ug/L		08/21/17 08:04	08/30/17 14:01	10
Fluorene	**52**		50	10	ug/L		08/21/17 08:04	08/30/17 14:01	10
Hexachlorobenzene	ND		50	10	ug/L		08/21/17 08:04	08/30/17 14:01	10
Hexachlorobutadiene	ND		50	10	ug/L		08/21/17 08:04	08/30/17 14:01	10
Hexachlorocyclopentadiene	ND		100	50	ug/L		08/21/17 08:04	08/30/17 14:01	10
Hexachloroethane	ND		50	6.0	ug/L		08/21/17 08:04	08/30/17 14:01	10
Indeno[1,2,3-cd]pyrene	ND		50	15	ug/L		08/21/17 08:04	08/30/17 14:01	10
Isophorone	ND		50	7.4	ug/L		08/21/17 08:04	08/30/17 14:01	10
Naphthalene	**3900**	**E B**	50	8.6	ug/L		08/21/17 08:04	08/30/17 14:01	10
Nitrobenzene	ND		50	8.1	ug/L		08/21/17 08:04	08/30/17 14:01	10
N-Nitrosodi-n-propylamine	ND		50	8.9	ug/L		08/21/17 08:04	08/30/17 14:01	10
N-Nitrosodimethylamine	ND		100	50	ug/L		08/21/17 08:04	08/30/17 14:01	10
N-Nitrosodiphenylamine	ND		50	4.0	ug/L		08/21/17 08:04	08/30/17 14:01	10
Phenanthrene	**97**		50	12	ug/L		08/21/17 08:04	08/30/17 14:01	10
Pyrene	**17**	**J**	50	14	ug/L		08/21/17 08:04	08/30/17 14:01	10
1,2,4-Trichlorobenzene	ND		100	8.2	ug/L		08/21/17 08:04	08/30/17 14:01	10
4-Chloro-3-methylphenol	ND		50	11	ug/L		08/21/17 08:04	08/30/17 14:01	10
2-Chlorophenol	ND		50	6.6	ug/L		08/21/17 08:04	08/30/17 14:01	10
2,4-Dichlorophenol	ND		50	7.7	ug/L		08/21/17 08:04	08/30/17 14:01	10
2,4-Dimethylphenol	ND		50	14	ug/L		08/21/17 08:04	08/30/17 14:01	10
2,4-Dinitrophenol	ND		100	50	ug/L		08/21/17 08:04	08/30/17 14:01	10
4,6-Dinitro-2-methylphenol	ND		100	6.6	ug/L		08/21/17 08:04	08/30/17 14:01	10
2-Nitrophenol	ND		50	7.0	ug/L		08/21/17 08:04	08/30/17 14:01	10
4-Nitrophenol	ND		150	100	ug/L		08/21/17 08:04	08/30/17 14:01	10
Pentachlorophenol	ND		100	16	ug/L		08/21/17 08:04	08/30/17 14:01	10
Phenol	ND		50	3.5	ug/L		08/21/17 08:04	08/30/17 14:01	10
2,4,6-Trichlorophenol	ND		50	10	ug/L		08/21/17 08:04	08/30/17 14:01	10

Client Sample ID: MW-6S
Date Collected: 08/17/17 11:00
Date Received: 08/18/17 01:45

Lab Sample ID: 480-122880-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*52 - 151*	*08/21/17 08:04*	*08/30/17 14:01*	*10*
2-Fluorobiphenyl	*52*		*44 - 120*	*08/21/17 08:04*	*08/30/17 14:01*	*10*
2-Fluorophenol	*19*		*17 - 120*	*08/21/17 08:04*	*08/30/17 14:01*	*10*
Nitrobenzene-d5	*57*		*42 - 120*	*08/21/17 08:04*	*08/30/17 14:01*	*10*
Phenol-d5	*19*		*10 - 120*	*08/21/17 08:04*	*08/30/17 14:01*	*10*
p-Terphenyl-d14	*42*		*22 - 125*	*08/21/17 08:04*	*08/30/17 14:01*	*10*

Method: 625 - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**160**	**J**	500	81	ug/L		08/21/17 08:04	08/30/17 19:42	100
Acenaphthylene	**96**	**J**	500	87	ug/L		08/21/17 08:04	08/30/17 19:42	100
Anthracene	ND		500	140	ug/L		08/21/17 08:04	08/30/17 19:42	100
Benzidine	ND		8000	3500	ug/L		08/21/17 08:04	08/30/17 19:42	100
Benzo[a]anthracene	ND		500	110	ug/L		08/21/17 08:04	08/30/17 19:42	100
Benzo[a]pyrene	ND		500	130	ug/L		08/21/17 08:04	08/30/17 19:42	100
Benzo[b]fluoranthene	ND		500	120	ug/L		08/21/17 08:04	08/30/17 19:42	100
Benzo[g,h,i]perylene	ND		500	150	ug/L		08/21/17 08:04	08/30/17 19:42	100
Benzo[k]fluoranthene	ND		500	130	ug/L		08/21/17 08:04	08/30/17 19:42	100
Bis(2-chloroethyl)ether	ND		500	93	ug/L		08/21/17 08:04	08/30/17 19:42	100
Bis(2-chloroethoxy)methane	ND		500	75	ug/L		08/21/17 08:04	08/30/17 19:42	100
bis (2-chloroisopropyl) ether	ND		500	84	ug/L		08/21/17 08:04	08/30/17 19:42	100
Bis(2-ethylhexyl) phthalate	ND		1000	120	ug/L		08/21/17 08:04	08/30/17 19:42	100
4-Bromophenyl phenyl ether	ND		500	140	ug/L		08/21/17 08:04	08/30/17 19:42	100
Butyl benzyl phthalate	ND		500	110	ug/L		08/21/17 08:04	08/30/17 19:42	100
2-Chloronaphthalene	ND		500	91	ug/L		08/21/17 08:04	08/30/17 19:42	100
4-Chlorophenyl phenyl ether	ND		500	130	ug/L		08/21/17 08:04	08/30/17 19:42	100
Chrysene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 19:42	100
Dibenz(a,h)anthracene	ND		500	150	ug/L		08/21/17 08:04	08/30/17 19:42	100
Di-n-butyl phthalate	ND		500	160	ug/L		08/21/17 08:04	08/30/17 19:42	100
1,2-Dichlorobenzene	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 19:42	100
1,3-Dichlorobenzene	ND		1000	69	ug/L		08/21/17 08:04	08/30/17 19:42	100
1,4-Dichlorobenzene	ND		1000	560	ug/L		08/21/17 08:04	08/30/17 19:42	100
3,3'-Dichlorobenzidine	ND		500	82	ug/L		08/21/17 08:04	08/30/17 19:42	100
Diethyl phthalate	ND		500	100	ug/L		08/21/17 08:04	08/30/17 19:42	100
Dimethyl phthalate	ND		500	91	ug/L		08/21/17 08:04	08/30/17 19:42	100
2,4-Dinitrotoluene	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 19:42	100
2,6-Dinitrotoluene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 19:42	100
Di-n-octyl phthalate	ND		500	120	ug/L		08/21/17 08:04	08/30/17 19:42	100
1,2-Diphenylhydrazine	ND		1000	78	ug/L		08/21/17 08:04	08/30/17 19:42	100
Fluoranthene	ND		500	160	ug/L		08/21/17 08:04	08/30/17 19:42	100
Fluorene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 19:42	100
Hexachlorobenzene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 19:42	100
Hexachlorobutadiene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 19:42	100
Hexachlorocyclopentadiene	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 19:42	100
Hexachloroethane	ND		500	60	ug/L		08/21/17 08:04	08/30/17 19:42	100
Indeno[1,2,3-cd]pyrene	ND		500	150	ug/L		08/21/17 08:04	08/30/17 19:42	100
Isophorone	ND		500	74	ug/L		08/21/17 08:04	08/30/17 19:42	100
Naphthalene	**3800**	**B**	500	86	ug/L		08/21/17 08:04	08/30/17 19:42	100
Nitrobenzene	ND		500	81	ug/L		08/21/17 08:04	08/30/17 19:42	100
N-Nitrosodi-n-propylamine	ND		500	89	ug/L		08/21/17 08:04	08/30/17 19:42	100

Client Sample ID: MW-6S
Date Collected: 08/17/17 11:00
Date Received: 08/18/17 01:45

Lab Sample ID: 480-122880-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 19:42	100
N-Nitrosodiphenylamine	ND		500	40	ug/L		08/21/17 08:04	08/30/17 19:42	100
Phenanthrene	ND		500	120	ug/L		08/21/17 08:04	08/30/17 19:42	100
Pyrene	ND		500	140	ug/L		08/21/17 08:04	08/30/17 19:42	100
1,2,4-Trichlorobenzene	ND		1000	82	ug/L		08/21/17 08:04	08/30/17 19:42	100
4-Chloro-3-methylphenol	ND		500	110	ug/L		08/21/17 08:04	08/30/17 19:42	100
2-Chlorophenol	ND		500	66	ug/L		08/21/17 08:04	08/30/17 19:42	100
2,4-Dichlorophenol	ND		500	77	ug/L		08/21/17 08:04	08/30/17 19:42	100
2,4-Dimethylphenol	ND		500	140	ug/L		08/21/17 08:04	08/30/17 19:42	100
2,4-Dinitrophenol	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 19:42	100
4,6-Dinitro-2-methylphenol	ND		1000	66	ug/L		08/21/17 08:04	08/30/17 19:42	100
2-Nitrophenol	ND		500	70	ug/L		08/21/17 08:04	08/30/17 19:42	100
4-Nitrophenol	ND		1500	1000	ug/L		08/21/17 08:04	08/30/17 19:42	100
Pentachlorophenol	ND		1000	160	ug/L		08/21/17 08:04	08/30/17 19:42	100
Phenol	ND		500	35	ug/L		08/21/17 08:04	08/30/17 19:42	100
2,4,6-Trichlorophenol	ND		500	100	ug/L		08/21/17 08:04	08/30/17 19:42	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*52 - 151*	*08/21/17 08:04*	*08/30/17 19:42*	*100*
2-Fluorobiphenyl	*0*	*X*	*44 - 120*	*08/21/17 08:04*	*08/30/17 19:42*	*100*
2-Fluorophenol	*0*	*X*	*17 - 120*	*08/21/17 08:04*	*08/30/17 19:42*	*100*
Nitrobenzene-d5	*0*	*X*	*42 - 120*	*08/21/17 08:04*	*08/30/17 19:42*	*100*
Phenol-d5	*0*	*X*	*10 - 120*	*08/21/17 08:04*	*08/30/17 19:42*	*100*
p-Terphenyl-d14	*0*	*X*	*22 - 125*	*08/21/17 08:04*	*08/30/17 19:42*	*100*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/18/17 07:24	08/18/17 18:45	1
alpha-BHC	ND		0.050	0.0077	ug/L		08/18/17 07:24	08/18/17 18:45	1
beta-BHC	ND		0.050	0.025	ug/L		08/18/17 07:24	08/18/17 18:45	1
delta-BHC	ND		0.050	0.010	ug/L		08/18/17 07:24	08/18/17 18:45	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		08/18/17 07:24	08/18/17 18:45	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/18/17 07:24	08/18/17 18:45	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/18/17 07:24	08/18/17 18:45	1
4,4'-DDE	**0.012**	**J**	0.050	0.012	ug/L		08/18/17 07:24	08/18/17 18:45	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 18:45	1
Dieldrin	ND		0.050	0.0098	ug/L		08/18/17 07:24	08/18/17 18:45	1
Endosulfan I	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 18:45	1
Endosulfan II	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 18:45	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 18:45	1
Endrin	ND		0.050	0.014	ug/L		08/18/17 07:24	08/18/17 18:45	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 18:45	1
Heptachlor	ND		0.050	0.0085	ug/L		08/18/17 07:24	08/18/17 18:45	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/18/17 07:24	08/18/17 18:45	1
Toxaphene	ND		0.50	0.12	ug/L		08/18/17 07:24	08/18/17 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*23 - 120*	*08/18/17 07:24*	*08/18/17 18:45*	*1*
DCB Decachlorobiphenyl	*54*		*23 - 120*	*08/18/17 07:24*	*08/18/17 18:45*	*1*
Tetrachloro-m-xylene	*109*		*44 - 120*	*08/18/17 07:24*	*08/18/17 18:45*	*1*

Client Sample ID: MW-6S
Date Collected: 08/17/17 11:00
Date Received: 08/18/17 01:45

Lab Sample ID: 480-122880-1
Matrix: Water

Method: 608 - Organochlorine Pesticides in Water (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*44 - 120*	*08/18/17 07:24*	*08/18/17 18:45*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 19:21	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 19:21	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 19:21	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 19:21	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 19:21	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 19:21	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*36 - 121*	*08/18/17 07:29*	*08/23/17 19:21*	*1*
DCB Decachlorobiphenyl	*82*		*36 - 121*	*08/18/17 07:29*	*08/23/17 19:21*	*1*
Tetrachloro-m-xylene	*157*	*X*	*42 - 135*	*08/18/17 07:29*	*08/23/17 19:21*	*1*
Tetrachloro-m-xylene	*107*		*42 - 135*	*08/18/17 07:29*	*08/23/17 19:21*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.068**	**J**	0.20	0.060	mg/L		08/22/17 07:36	08/23/17 01:43	1
Antimony	ND		0.020	0.0068	mg/L		08/22/17 07:36	08/23/17 01:43	1
Arsenic	ND		0.015	0.0056	mg/L		08/22/17 07:36	08/23/17 01:43	1
Barium	**0.15**		0.0020	0.00070	mg/L		08/22/17 07:36	08/23/17 01:43	1
Beryllium	ND		0.0020	0.00030	mg/L		08/22/17 07:36	08/23/17 01:43	1
Cadmium	ND		0.0020	0.00050	mg/L		08/22/17 07:36	08/23/17 01:43	1
Calcium	**70.9**		0.50	0.10	mg/L		08/22/17 07:36	08/23/17 01:43	1
Chromium	ND		0.0040	0.0010	mg/L		08/22/17 07:36	08/23/17 01:43	1
Cobalt	ND		0.0040	0.00063	mg/L		08/22/17 07:36	08/23/17 01:43	1
Copper	ND		0.010	0.0016	mg/L		08/22/17 07:36	08/23/17 01:43	1
Iron	**32.3**		0.050	0.019	mg/L		08/22/17 07:36	08/23/17 01:43	1
Lead	**0.0036**	**J**	0.010	0.0030	mg/L		08/22/17 07:36	08/23/17 01:43	1
Magnesium	**7.9**		0.20	0.043	mg/L		08/22/17 07:36	08/23/17 01:43	1
Manganese	**0.44**	**B ^**	0.0030	0.00040	mg/L		08/22/17 07:36	08/23/17 01:43	1
Nickel	ND		0.010	0.0013	mg/L		08/22/17 07:36	08/23/17 01:43	1
Potassium	**7.4**		0.50	0.10	mg/L		08/22/17 07:36	08/23/17 01:43	1
Selenium	ND		0.025	0.0087	mg/L		08/22/17 07:36	08/23/17 01:43	1
Silver	ND		0.0060	0.0017	mg/L		08/22/17 07:36	08/23/17 01:43	1
Sodium	**730**		1.0	0.32	mg/L		08/22/17 07:36	08/23/17 01:43	1
Thallium	ND		0.020	0.010	mg/L		08/22/17 07:36	08/23/17 01:43	1
Vanadium	ND		0.0050	0.0015	mg/L		08/22/17 07:36	08/23/17 01:43	1
Zinc	**0.0042**	**J**	0.010	0.0015	mg/L		08/22/17 07:36	08/23/17 01:43	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/21/17 07:50	08/22/17 03:23	1
Antimony	ND		0.020	0.0068	mg/L		08/21/17 07:50	08/22/17 03:23	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/17 07:50	08/22/17 03:23	1
Barium	**0.12**		0.0020	0.00070	mg/L		08/21/17 07:50	08/22/17 03:23	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/17 07:50	08/22/17 03:23	1

Client Sample ID: MW-6S
Date Collected: 08/17/17 11:00
Date Received: 08/18/17 01:45

Lab Sample ID: 480-122880-1
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		08/21/17 07:50	08/22/17 03:23	1
Calcium	**63.7**		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 03:23	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/17 07:50	08/22/17 03:23	1
Cobalt	ND		0.0040	0.00063	mg/L		08/21/17 07:50	08/22/17 03:23	1
Copper	ND		0.010	0.0016	mg/L		08/21/17 07:50	08/22/17 03:23	1
Iron	**7.0**		0.050	0.019	mg/L		08/21/17 07:50	08/22/17 03:23	1
Lead	ND		0.010	0.0030	mg/L		08/21/17 07:50	08/22/17 03:23	1
Magnesium	**7.4**		0.20	0.043	mg/L		08/21/17 07:50	08/22/17 03:23	1
Manganese	**0.48**	**B**	0.0030	0.00040	mg/L		08/21/17 07:50	08/22/17 03:23	1
Nickel	**0.016**		0.010	0.0013	mg/L		08/21/17 07:50	08/22/17 03:23	1
Potassium	**6.9**		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 03:23	1
Selenium	ND		0.025	0.0087	mg/L		08/21/17 07:50	08/22/17 03:23	1
Silver	ND		0.0060	0.0017	mg/L		08/21/17 07:50	08/22/17 03:23	1
Sodium	**667**		1.0	0.32	mg/L		08/21/17 07:50	08/22/17 03:23	1
Thallium	ND		0.020	0.010	mg/L		08/21/17 07:50	08/22/17 03:23	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/17 07:50	08/22/17 03:23	1
Zinc	**0.0089**	**J B**	0.010	0.0015	mg/L		08/21/17 07:50	08/22/17 03:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/18/17 09:00	08/18/17 13:52	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/17 09:30	08/21/17 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.6	1.6	mg/L		08/24/17 10:57	08/24/17 10:57	1
SGT-HEM	**3.0**	**J**	5.6	2.2	mg/L		08/24/17 10:57	08/24/17 10:57	1
Total Kjeldahl Nitrogen	**1.2**		0.20	0.15	mg/L		08/22/17 03:57	08/22/17 12:57	1
Chemical Oxygen Demand	**25.0**		10.0	5.0	mg/L			08/21/17 17:54	1
Cyanide, Total	**0.034**		0.010	0.0050	mg/L		08/23/17 03:25	08/23/17 12:34	1
Hardness as calcium carbonate	**212**		4.0	1.1	mg/L			08/25/17 05:20	1
Total Dissolved Solids	**2510**	**B**	40.0	16.0	mg/L			08/18/17 16:58	1
Biochemical Oxygen Demand	**8.9**	**b**	6.0	6.0	mg/L			08/18/17 11:27	1
Carbonaceous Biochemical Oxygen Demand	**8.4**	**b**	6.0	6.0	mg/L			08/18/17 11:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.00**	**HF**	0.100	0.100	SU			08/21/17 19:38	1
Temperature	**23.5**	**HF**	0.00100	0.00100	Degrees C			08/21/17 19:38	1
Total Suspended Solids	**61.6**		4.0	4.0	mg/L			08/21/17 01:05	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.020**		0.010	0.0050	mg/L		08/26/17 10:56	08/27/17 12:58	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122880-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-122880-1	MW-6S	102	100	102	99
LCS 480-373105/14	Lab Control Sample	100	101	102	100
MB 480-373105/16	Method Blank	102	103	103	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(42-120)	(10-120)	(22-125)
480-122880-1	MW-6S	70	52	19	57	19	42
480-122880-1 - DL	MW-6S	0 X	0 X	0 X	0 X	0 X	0 X
LCS 480-373029/2-A	Lab Control Sample	97	83	47	83	36	97
LCSD 480-373029/3-A	Lab Control Sample Dup	96	88	52	85	37	95
MB 480-373029/1-A	Method Blank	77	86	48	82	38	95

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(23-120)	(23-120)	(44-120)	(44-120)
480-122880-1	MW-6S	47	54	109	74
LCS 480-372756/2-A	Lab Control Sample	57	51	81	63
LCSD 480-372756/3-A	Lab Control Sample Dup	61	56	83	63
MB 480-372756/1-A	Method Blank	56	61	77	58

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122880-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	DCB2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(36-121)	(36-121)	(42-135)	(42-135)				
480-122880-1	MW-6S	75	82	157 X	107				
LCS 480-372759/2-A	Lab Control Sample	55	50	108	85				
MB 480-372759/1-A	Method Blank	68	60	114	99				

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-373105/16
Matrix: Water
Analysis Batch: 373105

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/21/17 17:49	1
Acrylonitrile	ND		50	1.9	ug/L			08/21/17 17:49	1
Benzene	ND		5.0	0.60	ug/L			08/21/17 17:49	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/21/17 17:49	1
Bromoform	ND		5.0	0.47	ug/L			08/21/17 17:49	1
Bromomethane	ND		5.0	1.2	ug/L			08/21/17 17:49	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/21/17 17:49	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/21/17 17:49	1
Chloroethane	ND		5.0	0.87	ug/L			08/21/17 17:49	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/21/17 17:49	1
Chloroform	ND		5.0	0.54	ug/L			08/21/17 17:49	1
Chloromethane	ND		5.0	0.64	ug/L			08/21/17 17:49	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/21/17 17:49	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/21/17 17:49	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/21/17 17:49	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/21/17 17:49	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/21/17 17:49	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/21/17 17:49	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/21/17 17:49	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/21/17 17:49	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/21/17 17:49	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/21/17 17:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/21/17 17:49	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/21/17 17:49	1
Toluene	ND		5.0	0.45	ug/L			08/21/17 17:49	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/21/17 17:49	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/21/17 17:49	1
Trichloroethene	ND		5.0	0.60	ug/L			08/21/17 17:49	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/21/17 17:49	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/21/17 17:49	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/21/17 17:49	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/21/17 17:49	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/21/17 17:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*08/21/17 17:49*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*08/21/17 17:49*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*08/21/17 17:49*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/21/17 17:49*	*1*

Lab Sample ID: LCS 480-373105/14
Matrix: Water
Analysis Batch: 373105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	23.2		ug/L		116	37 - 151
Dichlorobromomethane	20.0	22.4		ug/L		112	35 - 155
Bromoform	20.0	20.6		ug/L		103	45 - 169

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-373105/14
Matrix: Water
Analysis Batch: 373105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	21.6		ug/L		108	1 - 242
Carbon tetrachloride	20.0	22.6		ug/L		113	70 - 140
Chlorobenzene	20.0	22.0		ug/L		110	37 - 160
Chloroethane	20.0	22.3		ug/L		112	14 - 230
2-Chloroethyl vinyl ether	20.0	21.8	J	ug/L		109	1 - 305
Chloroform	20.0	22.7		ug/L		113	51 - 138
Chloromethane	20.0	21.4		ug/L		107	1 - 273
Chlorodibromomethane	20.0	21.6		ug/L		108	53 - 149
1,1-Dichloroethane	20.0	23.4		ug/L		117	59 - 155
1,2-Dichloroethane	20.0	21.3		ug/L		106	49 - 155
1,1-Dichloroethene	20.0	22.7		ug/L		114	1 - 234
trans-1,2-Dichloroethene	20.0	23.5		ug/L		117	54 - 156
1,2-Dichloropropane	20.0	21.5		ug/L		108	1 - 210
cis-1,3-Dichloropropene	20.0	21.7		ug/L		109	1 - 227
trans-1,3-Dichloropropene	20.0	22.2		ug/L		111	17 - 183
Ethylbenzene	20.0	22.9		ug/L		114	37 - 162
Methylene Chloride	20.0	22.7		ug/L		113	1 - 221
1,1,2,2-Tetrachloroethane	20.0	21.1		ug/L		105	46 - 157
Tetrachloroethene	20.0	22.0		ug/L		110	64 - 148
Toluene	20.0	22.9		ug/L		114	47 - 150
1,1,1-Trichloroethane	20.0	21.7		ug/L		109	52 - 162
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	52 - 150
Trichloroethene	20.0	21.0		ug/L		105	71 - 157
Vinyl chloride	20.0	23.6		ug/L		118	1 - 251
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	18 - 190
1,3-Dichlorobenzene	20.0	21.4		ug/L		107	59 - 156
1,4-Dichlorobenzene	20.0	21.6		ug/L		108	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*
Toluene-d8 (Surr)	*102*		*77 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-373029/1-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.81	ug/L		08/21/17 08:04	08/30/17 12:17	1
Acenaphthylene	ND		5.0	0.87	ug/L		08/21/17 08:04	08/30/17 12:17	1
Anthracene	ND		5.0	1.4	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzidine	ND		80	35	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		08/21/17 08:04	08/30/17 12:17	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-373029/1-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		08/21/17 08:04	08/30/17 12:17	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		08/21/17 08:04	08/30/17 12:17	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		08/21/17 08:04	08/30/17 12:17	1
bis (2-chloroisopropyl) ether	ND		5.0	0.84	ug/L		08/21/17 08:04	08/30/17 12:17	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		08/21/17 08:04	08/30/17 12:17	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		08/21/17 08:04	08/30/17 12:17	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		08/21/17 08:04	08/30/17 12:17	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		08/21/17 08:04	08/30/17 12:17	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		08/21/17 08:04	08/30/17 12:17	1
Chrysene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		08/21/17 08:04	08/30/17 12:17	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		08/21/17 08:04	08/30/17 12:17	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		08/21/17 08:04	08/30/17 12:17	1
Diethyl phthalate	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		08/21/17 08:04	08/30/17 12:17	1
Fluoranthene	ND		5.0	1.6	ug/L		08/21/17 08:04	08/30/17 12:17	1
Fluorene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Hexachloroethane	ND		5.0	0.60	ug/L		08/21/17 08:04	08/30/17 12:17	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		08/21/17 08:04	08/30/17 12:17	1
Isophorone	ND		5.0	0.74	ug/L		08/21/17 08:04	08/30/17 12:17	1
Naphthalene	2.48	J	5.0	0.86	ug/L		08/21/17 08:04	08/30/17 12:17	1
Nitrobenzene	ND		5.0	0.81	ug/L		08/21/17 08:04	08/30/17 12:17	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		08/21/17 08:04	08/30/17 12:17	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		08/21/17 08:04	08/30/17 12:17	1
Phenanthrene	ND		5.0	1.2	ug/L		08/21/17 08:04	08/30/17 12:17	1
Pyrene	ND		5.0	1.4	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		08/21/17 08:04	08/30/17 12:17	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		08/21/17 08:04	08/30/17 12:17	1
2-Chlorophenol	ND		5.0	0.66	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		08/21/17 08:04	08/30/17 12:17	1
2-Nitrophenol	ND		5.0	0.70	ug/L		08/21/17 08:04	08/30/17 12:17	1
4-Nitrophenol	ND		15	10	ug/L		08/21/17 08:04	08/30/17 12:17	1
Pentachlorophenol	ND		10	1.6	ug/L		08/21/17 08:04	08/30/17 12:17	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-373029/1-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.35	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*52 - 151*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
2-Fluorobiphenyl	*86*		*44 - 120*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
2-Fluorophenol	*48*		*17 - 120*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
Nitrobenzene-d5	*82*		*42 - 120*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
Phenol-d5	*38*		*10 - 120*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
p-Terphenyl-d14	*95*		*22 - 125*	*08/21/17 08:04*	*08/30/17 12:17*	*1*

Lab Sample ID: LCS 480-373029/2-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	42.3		ug/L		85	47 - 145
Acenaphthylene	50.0	43.4		ug/L		87	33 - 145
Anthracene	50.0	48.8		ug/L		98	27 - 133
Benzo[a]anthracene	50.0	50.4		ug/L		101	33 - 143
Benzo[a]pyrene	50.0	48.6		ug/L		97	17 - 163
Benzo[b]fluoranthene	50.0	50.6		ug/L		101	24 - 159
Benzo[g,h,i]perylene	50.0	54.7		ug/L		109	1 - 219
Benzo[k]fluoranthene	50.0	48.7		ug/L		97	11 - 162
Bis(2-chloroethyl)ether	50.0	39.3		ug/L		79	12 - 158
Bis(2-chloroethoxy)methane	50.0	39.6		ug/L		79	33 - 184
bis (2-chloroisopropyl) ether	50.0	36.8		ug/L		74	36 - 166
Bis(2-ethylhexyl) phthalate	50.0	52.3		ug/L		105	8 - 158
4-Bromophenyl phenyl ether	50.0	48.3		ug/L		97	53 - 127
Butyl benzyl phthalate	50.0	52.2		ug/L		104	1 - 152
2-Chloronaphthalene	50.0	40.2		ug/L		80	60 - 118
4-Chlorophenyl phenyl ether	50.0	46.2		ug/L		92	25 - 158
Chrysene	50.0	50.8		ug/L		102	17 - 168
Dibenz(a,h)anthracene	50.0	52.6		ug/L		105	1 - 227
Di-n-butyl phthalate	50.0	50.9		ug/L		102	1 - 118
1,2-Dichlorobenzene	50.0	29.9		ug/L		60	32 - 129
1,3-Dichlorobenzene	50.0	28.5		ug/L		57	1 - 172
1,4-Dichlorobenzene	50.0	31.0		ug/L		62	20 - 124
3,3'-Dichlorobenzidine	100	101		ug/L		101	1 - 262
Diethyl phthalate	50.0	47.7		ug/L		95	1 - 114
Dimethyl phthalate	50.0	47.8		ug/L		96	1 - 112
2,4-Dinitrotoluene	50.0	45.7		ug/L		91	39 - 139
2,6-Dinitrotoluene	50.0	46.9		ug/L		94	50 - 158
Di-n-octyl phthalate	50.0	51.2		ug/L		102	4 - 146
Fluoranthene	50.0	51.3		ug/L		103	26 - 137
Fluorene	50.0	44.4		ug/L		89	59 - 121
Hexachlorobenzene	50.0	47.5		ug/L		95	1 - 152
Hexachlorocyclopentadiene	50.0	27.4		ug/L		55	5 - 120

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-373029/2-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachloroethane	50.0	24.8		ug/L		50	40 - 113
Indeno[1,2,3-cd]pyrene	50.0	56.0		ug/L		112	1 - 171
Isophorone	50.0	43.4		ug/L		87	21 - 196
Naphthalene	50.0	40.4		ug/L		81	21 - 133
Nitrobenzene	50.0	40.4		ug/L		81	35 - 180
N-Nitrosodi-n-propylamine	50.0	41.3		ug/L		83	1 - 230
N-Nitrosodiphenylamine	50.0	50.1		ug/L		100	54 - 125
Phenanthrene	50.0	51.0		ug/L		102	54 - 120
Pyrene	50.0	51.4		ug/L		103	52 - 115
1,2,4-Trichlorobenzene	50.0	32.1		ug/L		64	44 - 142
4-Chloro-3-methylphenol	50.0	45.5		ug/L		91	22 - 147
2-Chlorophenol	50.0	38.5		ug/L		77	23 - 134
2,4-Dichlorophenol	50.0	43.8		ug/L		88	39 - 135
2,4-Dimethylphenol	50.0	43.1		ug/L		86	32 - 119
2,4-Dinitrophenol	100	97.5		ug/L		98	1 - 191
4,6-Dinitro-2-methylphenol	100	104		ug/L		104	1 - 181
2-Nitrophenol	50.0	42.9		ug/L		86	29 - 182
4-Nitrophenol	100	51.5		ug/L		51	1 - 132
Pentachlorophenol	100	96.0		ug/L		96	14 - 176
Phenol	50.0	19.9		ug/L		40	5 - 112
2,4,6-Trichlorophenol	50.0	47.6		ug/L		95	37 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*52 - 151*
2-Fluorobiphenyl	*83*		*44 - 120*
2-Fluorophenol	*47*		*17 - 120*
Nitrobenzene-d5	*83*		*42 - 120*
Phenol-d5	*36*		*10 - 120*
p-Terphenyl-d14	*97*		*22 - 125*

Lab Sample ID: LCSD 480-373029/3-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373029

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50.0	45.2		ug/L		90	47 - 145	7	25
Acenaphthylene	50.0	44.5		ug/L		89	33 - 145	2	22
Anthracene	50.0	52.0		ug/L		104	27 - 133	6	15
Benzo[a]anthracene	50.0	51.2		ug/L		102	33 - 143	2	15
Benzo[a]pyrene	50.0	49.7		ug/L		99	17 - 163	2	15
Benzo[b]fluoranthene	50.0	50.8		ug/L		102	24 - 159	0	17
Benzo[g,h,i]perylene	50.0	56.5		ug/L		113	1 - 219	3	19
Benzo[k]fluoranthene	50.0	49.7		ug/L		99	11 - 162	2	19
Bis(2-chloroethyl)ether	50.0	40.0		ug/L		80	12 - 158	2	33
Bis(2-chloroethoxy)methane	50.0	42.8		ug/L		86	33 - 184	8	23
bis (2-chloroisopropyl) ether	50.0	38.2		ug/L		76	36 - 166	4	36
Bis(2-ethylhexyl) phthalate	50.0	53.3		ug/L		107	8 - 158	2	15
4-Bromophenyl phenyl ether	50.0	49.9		ug/L		100	53 - 127	3	16

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-373029/3-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373029

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl benzyl phthalate			50.0	52.3		ug/L		105	1 - 152	0	15
2-Chloronaphthalene			50.0	42.6		ug/L		85	60 - 118	6	30
4-Chlorophenyl phenyl ether			50.0	49.0		ug/L		98	25 - 158	6	15
Chrysene			50.0	50.9		ug/L		102	17 - 168	0	15
Dibenz(a,h)anthracene			50.0	54.1		ug/L		108	1 - 227	3	18
Di-n-butyl phthalate			50.0	50.9		ug/L		102	1 - 118	0	15
1,2-Dichlorobenzene			50.0	33.0		ug/L		66	32 - 129	10	38
1,3-Dichlorobenzene			50.0	29.8		ug/L		60	1 - 172	4	37
1,4-Dichlorobenzene			50.0	31.4		ug/L		63	20 - 124	1	40
3,3'-Dichlorobenzidine			100	103		ug/L		103	1 - 262	1	31
Diethyl phthalate			50.0	50.4		ug/L		101	1 - 114	6	15
Dimethyl phthalate			50.0	50.7		ug/L		101	1 - 112	6	15
2,4-Dinitrotoluene			50.0	49.1		ug/L		98	39 - 139	7	20
2,6-Dinitrotoluene			50.0	50.5		ug/L		101	50 - 158	7	17
Di-n-octyl phthalate			50.0	52.2		ug/L		104	4 - 146	2	15
Fluoranthene			50.0	52.2		ug/L		104	26 - 137	2	15
Fluorene			50.0	48.0		ug/L		96	59 - 121	8	18
Hexachlorobenzene			50.0	49.6		ug/L		99	1 - 152	4	15
Hexachlorocyclopentadiene			50.0	29.9		ug/L		60	5 - 120	8	50
Hexachloroethane			50.0	26.9		ug/L		54	40 - 113	8	43
Indeno[1,2,3-cd]pyrene			50.0	57.4		ug/L		115	1 - 171	2	17
Isophorone			50.0	45.5		ug/L		91	21 - 196	5	21
Naphthalene			50.0	41.2		ug/L		82	21 - 133	2	31
Nitrobenzene			50.0	43.3		ug/L		87	35 - 180	7	27
N-Nitrosodi-n-propylamine			50.0	41.8		ug/L		84	1 - 230	1	23
N-Nitrosodiphenylamine			50.0	51.7		ug/L		103	54 - 125	3	15
Phenanthrene			50.0	51.5		ug/L		103	54 - 120	1	16
Pyrene			50.0	52.7		ug/L		105	52 - 115	2	15
1,2,4-Trichlorobenzene			50.0	35.2		ug/L		70	44 - 142	9	34
4-Chloro-3-methylphenol			50.0	46.9		ug/L		94	22 - 147	3	16
2-Chlorophenol			50.0	39.7		ug/L		79	23 - 134	3	26
2,4-Dichlorophenol			50.0	46.5		ug/L		93	39 - 135	6	23
2,4-Dimethylphenol			50.0	43.7		ug/L		87	32 - 119	1	18
2,4-Dinitrophenol			100	103		ug/L		103	1 - 191	6	29
4,6-Dinitro-2-methylphenol			100	104		ug/L		104	1 - 181	0	30
2-Nitrophenol			50.0	45.8		ug/L		92	29 - 182	6	28
4-Nitrophenol			100	58.3		ug/L		58	1 - 132	12	24
Pentachlorophenol			100	92.0		ug/L		92	14 - 176	4	21
Phenol			50.0	20.5		ug/L		41	5 - 112	3	36
2,4,6-Trichlorophenol			50.0	51.0		ug/L		102	37 - 144	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*96*		*52 - 151*
2-Fluorobiphenyl	*88*		*44 - 120*
2-Fluorophenol	*52*		*17 - 120*
Nitrobenzene-d5	*85*		*42 - 120*
Phenol-d5	*37*		*10 - 120*
p-Terphenyl-d14	*95*		*22 - 125*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-372756/1-A
Matrix: Water
Analysis Batch: 372883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/18/17 07:24	08/18/17 15:48	1
alpha-BHC	ND		0.050	0.0077	ug/L		08/18/17 07:24	08/18/17 15:48	1
beta-BHC	ND		0.050	0.025	ug/L		08/18/17 07:24	08/18/17 15:48	1
delta-BHC	0.0184	J	0.050	0.010	ug/L		08/18/17 07:24	08/18/17 15:48	1
gamma-BHC (Lindane)	0.0137	J	0.050	0.0080	ug/L		08/18/17 07:24	08/18/17 15:48	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/18/17 07:24	08/18/17 15:48	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/18/17 07:24	08/18/17 15:48	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 15:48	1
4,4'-DDT	0.0111	J	0.050	0.011	ug/L		08/18/17 07:24	08/18/17 15:48	1
Dieldrin	ND		0.050	0.0098	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endosulfan I	ND		0.050	0.011	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endosulfan II	ND		0.050	0.012	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endrin	ND		0.050	0.014	ug/L		08/18/17 07:24	08/18/17 15:48	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/18/17 07:24	08/18/17 15:48	1
Heptachlor	ND		0.050	0.0085	ug/L		08/18/17 07:24	08/18/17 15:48	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/18/17 07:24	08/18/17 15:48	1
Toxaphene	ND		0.50	0.12	ug/L		08/18/17 07:24	08/18/17 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*23 - 120*	*08/18/17 07:24*	*08/18/17 15:48*	*1*
DCB Decachlorobiphenyl	*61*		*23 - 120*	*08/18/17 07:24*	*08/18/17 15:48*	*1*
Tetrachloro-m-xylene	*77*		*44 - 120*	*08/18/17 07:24*	*08/18/17 15:48*	*1*
Tetrachloro-m-xylene	*58*		*44 - 120*	*08/18/17 07:24*	*08/18/17 15:48*	*1*

Lab Sample ID: LCS 480-372756/2-A
Matrix: Water
Analysis Batch: 372883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.500	0.216		ug/L		43	40 - 125
alpha-BHC	0.500	0.304		ug/L		61	52 - 125
beta-BHC	0.500	0.368		ug/L		74	52 - 120
delta-BHC	0.500	0.445		ug/L		89	51 - 120
gamma-BHC (Lindane)	0.500	0.362		ug/L		72	56 - 120
4,4'-DDD	0.500	0.466		ug/L		93	64 - 129
4,4'-DDE	0.500	0.409		ug/L		82	50 - 120
4,4'-DDT	0.500	0.493		ug/L		99	59 - 120
Dieldrin	0.500	0.482		ug/L		96	66 - 128
Endosulfan I	0.500	0.529		ug/L		106	57 - 120
Endosulfan II	0.500	0.460		ug/L		92	66 - 131
Endosulfan sulfate	0.500	0.544		ug/L		109	66 - 131
Endrin	0.500	0.474		ug/L		95	65 - 135
Endrin aldehyde	0.500	0.353		ug/L		71	61 - 134
Heptachlor	0.500	0.370		ug/L		74	58 - 120
Heptachlor epoxide	0.500	0.392		ug/L		78	65 - 125

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 480-372756/2-A
Matrix: Water
Analysis Batch: 372883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372756

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*23 - 120*
DCB Decachlorobiphenyl	*51*		*23 - 120*
Tetrachloro-m-xylene	*81*		*44 - 120*
Tetrachloro-m-xylene	*63*		*44 - 120*

Lab Sample ID: LCSD 480-372756/3-A
Matrix: Water
Analysis Batch: 372883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372756

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			0.500	0.249		ug/L		50	40 - 125	14	50
alpha-BHC			0.500	0.346		ug/L		69	52 - 125	13	50
beta-BHC			0.500	0.408		ug/L		82	52 - 120	10	50
delta-BHC			0.500	0.452		ug/L		90	51 - 120	2	50
gamma-BHC (Lindane)			0.500	0.392		ug/L		78	56 - 120	8	50
4,4'-DDD			0.500	0.488		ug/L		98	64 - 129	5	50
4,4'-DDE			0.500	0.410		ug/L		82	50 - 120	0	50
4,4'-DDT			0.500	0.522		ug/L		104	59 - 120	6	50
Dieldrin			0.500	0.501		ug/L		100	66 - 128	4	50
Endosulfan I			0.500	0.441		ug/L		88	57 - 120	18	50
Endosulfan II			0.500	0.466		ug/L		93	66 - 131	1	50
Endosulfan sulfate			0.500	0.552		ug/L		110	66 - 131	1	50
Endrin			0.500	0.499		ug/L		100	65 - 135	5	50
Endrin aldehyde			0.500	0.367		ug/L		73	61 - 134	4	50
Heptachlor			0.500	0.395		ug/L		79	58 - 120	7	50
Heptachlor epoxide			0.500	0.448		ug/L		90	65 - 125	13	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*61*		*23 - 120*
DCB Decachlorobiphenyl	*56*		*23 - 120*
Tetrachloro-m-xylene	*83*		*44 - 120*
Tetrachloro-m-xylene	*63*		*44 - 120*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-372759/1-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1221	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1232	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1242	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1248	ND		0.060	0.038	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1254	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 14:45	1
PCB-1260	ND		0.060	0.031	ug/L		08/18/17 07:29	08/23/17 14:45	1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 480-372759/1-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372759

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		36 - 121	08/18/17 07:29	08/23/17 14:45	1
DCB Decachlorobiphenyl	60		36 - 121	08/18/17 07:29	08/23/17 14:45	1
Tetrachloro-m-xylene	114		42 - 135	08/18/17 07:29	08/23/17 14:45	1
Tetrachloro-m-xylene	99		42 - 135	08/18/17 07:29	08/23/17 14:45	1

Lab Sample ID: LCS 480-372759/2-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.00	1.16		ug/L		116	69 - 123
PCB-1260	1.00	1.00		ug/L		100	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	55		36 - 121
DCB Decachlorobiphenyl	50		36 - 121
Tetrachloro-m-xylene	108		42 - 135
Tetrachloro-m-xylene	85		42 - 135

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-373168/1-A
Matrix: Water
Analysis Batch: 373447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/22/17 07:36	08/23/17 00:56	1
Antimony	ND		0.020	0.0068	mg/L		08/22/17 07:36	08/23/17 00:56	1
Arsenic	ND		0.015	0.0056	mg/L		08/22/17 07:36	08/23/17 00:56	1
Barium	ND		0.0020	0.00070	mg/L		08/22/17 07:36	08/23/17 00:56	1
Beryllium	ND		0.0020	0.00030	mg/L		08/22/17 07:36	08/23/17 00:56	1
Cadmium	ND		0.0020	0.00050	mg/L		08/22/17 07:36	08/23/17 00:56	1
Calcium	ND		0.50	0.10	mg/L		08/22/17 07:36	08/23/17 00:56	1
Chromium	ND		0.0040	0.0010	mg/L		08/22/17 07:36	08/23/17 00:56	1
Cobalt	ND		0.0040	0.00063	mg/L		08/22/17 07:36	08/23/17 00:56	1
Copper	ND		0.010	0.0016	mg/L		08/22/17 07:36	08/23/17 00:56	1
Iron	ND		0.050	0.019	mg/L		08/22/17 07:36	08/23/17 00:56	1
Lead	ND		0.010	0.0030	mg/L		08/22/17 07:36	08/23/17 00:56	1
Magnesium	ND		0.20	0.043	mg/L		08/22/17 07:36	08/23/17 00:56	1
Manganese	0.00452		0.0030	0.00040	mg/L		08/22/17 07:36	08/23/17 00:56	1
Nickel	ND		0.010	0.0013	mg/L		08/22/17 07:36	08/23/17 00:56	1
Potassium	ND		0.50	0.10	mg/L		08/22/17 07:36	08/23/17 00:56	1
Selenium	ND		0.025	0.0087	mg/L		08/22/17 07:36	08/23/17 00:56	1
Silver	ND		0.0060	0.0017	mg/L		08/22/17 07:36	08/23/17 00:56	1
Sodium	ND		1.0	0.32	mg/L		08/22/17 07:36	08/23/17 00:56	1
Thallium	ND		0.020	0.010	mg/L		08/22/17 07:36	08/23/17 00:56	1
Vanadium	ND		0.0050	0.0015	mg/L		08/22/17 07:36	08/23/17 00:56	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-373168/1-A
Matrix: Water
Analysis Batch: 373447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		08/22/17 07:36	08/23/17 00:56	1

Lab Sample ID: LCS 480-373168/2-A
Matrix: Water
Analysis Batch: 373447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.45		mg/L		104	80 - 120
Antimony	0.200	0.208		mg/L		104	80 - 120
Arsenic	0.200	0.210		mg/L		105	80 - 120
Barium	0.200	0.214		mg/L		107	80 - 120
Beryllium	0.200	0.210		mg/L		105	80 - 120
Cadmium	0.200	0.211		mg/L		106	80 - 120
Calcium	10.0	10.46		mg/L		105	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.200	0.200		mg/L		100	80 - 120
Copper	0.200	0.208		mg/L		104	80 - 120
Iron	10.0	10.69		mg/L		107	80 - 120
Lead	0.200	0.211		mg/L		106	80 - 120
Magnesium	10.0	10.71		mg/L		107	80 - 120
Manganese	0.200	0.221		mg/L		110	80 - 120
Nickel	0.200	0.205		mg/L		102	80 - 120
Potassium	10.0	10.36		mg/L		104	80 - 120
Selenium	0.200	0.202		mg/L		101	80 - 120
Silver	0.0500	0.0506		mg/L		101	80 - 120
Sodium	10.0	10.50		mg/L		105	80 - 120
Thallium	0.200	0.203		mg/L		102	80 - 120
Vanadium	0.200	0.218		mg/L		109	80 - 120
Zinc	0.200	0.217		mg/L		108	80 - 120

Lab Sample ID: MB 480-372783/1-B
Matrix: Water
Analysis Batch: 373692

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/21/17 07:50	08/22/17 02:40	1
Antimony	ND		0.020	0.0068	mg/L		08/21/17 07:50	08/22/17 02:40	1
Arsenic	ND		0.015	0.0056	mg/L		08/21/17 07:50	08/22/17 02:40	1
Barium	ND		0.0020	0.00070	mg/L		08/21/17 07:50	08/22/17 02:40	1
Beryllium	ND		0.0020	0.00030	mg/L		08/21/17 07:50	08/22/17 02:40	1
Cadmium	ND		0.0020	0.00050	mg/L		08/21/17 07:50	08/22/17 02:40	1
Calcium	ND		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 02:40	1
Chromium	ND		0.0040	0.0010	mg/L		08/21/17 07:50	08/22/17 02:40	1
Cobalt	ND		0.0040	0.00063	mg/L		08/21/17 07:50	08/22/17 02:40	1
Copper	ND		0.010	0.0016	mg/L		08/21/17 07:50	08/22/17 02:40	1
Iron	ND		0.050	0.019	mg/L		08/21/17 07:50	08/22/17 02:40	1
Lead	ND		0.010	0.0030	mg/L		08/21/17 07:50	08/22/17 02:40	1
Magnesium	ND		0.20	0.043	mg/L		08/21/17 07:50	08/22/17 02:40	1
Manganese	0.00107	J	0.0030	0.00040	mg/L		08/21/17 07:50	08/22/17 02:40	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-372783/1-B
Matrix: Water
Analysis Batch: 373692

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.010	0.0013	mg/L		08/21/17 07:50	08/22/17 02:40	1
Potassium	ND		0.50	0.10	mg/L		08/21/17 07:50	08/22/17 02:40	1
Selenium	ND		0.025	0.0087	mg/L		08/21/17 07:50	08/22/17 02:40	1
Silver	ND		0.0060	0.0017	mg/L		08/21/17 07:50	08/22/17 02:40	1
Sodium	ND		1.0	0.32	mg/L		08/21/17 07:50	08/22/17 02:40	1
Thallium	ND		0.020	0.010	mg/L		08/21/17 07:50	08/22/17 02:40	1
Vanadium	ND		0.0050	0.0015	mg/L		08/21/17 07:50	08/22/17 02:40	1
Zinc	0.00377	J	0.010	0.0015	mg/L		08/21/17 07:50	08/22/17 02:40	1

Lab Sample ID: LCS 480-372783/2-B
Matrix: Water
Analysis Batch: 373692

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 373014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.67		mg/L		97	80 - 120
Antimony	0.200	0.199		mg/L		99	80 - 120
Arsenic	0.200	0.197		mg/L		98	80 - 120
Barium	0.200	0.212		mg/L		106	80 - 120
Beryllium	0.200	0.204		mg/L		102	80 - 120
Cadmium	0.200	0.204		mg/L		102	80 - 120
Calcium	10.0	9.67		mg/L		97	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.200	0.190		mg/L		95	80 - 120
Copper	0.200	0.217		mg/L		108	80 - 120
Iron	10.0	9.96		mg/L		100	80 - 120
Lead	0.200	0.199		mg/L		100	80 - 120
Magnesium	10.0	10.23		mg/L		102	80 - 120
Manganese	0.200	0.213		mg/L		107	80 - 120
Nickel	0.200	0.197		mg/L		98	80 - 120
Potassium	10.0	10.23		mg/L		102	80 - 120
Selenium	0.200	0.185		mg/L		92	80 - 120
Silver	0.0500	0.0475		mg/L		95	80 - 120
Sodium	10.0	10.06		mg/L		100	80 - 120
Thallium	0.200	0.190		mg/L		95	80 - 120
Vanadium	0.200	0.194		mg/L		97	80 - 120
Zinc	0.200	0.200		mg/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-372764/1-A
Matrix: Water
Analysis Batch: 372906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/18/17 09:00	08/18/17 13:22	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-372764/2-A
Matrix: Water
Analysis Batch: 372906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00560		mg/L		84	80 - 120

Lab Sample ID: MB 480-372783/1-C
Matrix: Water
Analysis Batch: 373160

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/17 09:30	08/21/17 13:04	1

Lab Sample ID: LCS 480-372783/2-C
Matrix: Water
Analysis Batch: 373160

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 373070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00587		mg/L		88	80 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-373732/1-A
Matrix: Water
Analysis Batch: 373810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		08/24/17 10:57	08/24/17 10:57	1
SGT-HEM	ND		5.0	1.9	mg/L		08/24/17 10:57	08/24/17 10:57	1

Lab Sample ID: LCS 480-373732/2-A
Matrix: Water
Analysis Batch: 373810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	39.9	36.09		mg/L		90	78 - 114
SGT-HEM	19.9	18.34		mg/L		92	64 - 132

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-373210/1-A
Matrix: Water
Analysis Batch: 373371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		08/22/17 03:57	08/22/17 12:02	1

Lab Sample ID: LCS 480-373210/2-A
Matrix: Water
Analysis Batch: 373371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.29		mg/L		92	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-373203/27
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/21/17 17:54	1

Lab Sample ID: MB 480-373203/3
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/21/17 17:54	1

Lab Sample ID: MB 480-373203/51
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/21/17 17:54	1

Lab Sample ID: LCS 480-373203/28
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.74		mg/L		95	90 - 110

Lab Sample ID: LCS 480-373203/4
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.69		mg/L		99	90 - 110

Lab Sample ID: LCS 480-373203/52
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.69		mg/L		99	90 - 110

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-373439/1-A
Matrix: Water
Analysis Batch: 373564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/23/17 03:25	08/23/17 12:16	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-373439/2-A
Matrix: Water
Analysis Batch: 373564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.398		mg/L		100	90 - 110

Lab Sample ID: LCS 480-373439/3-A
Matrix: Water
Analysis Batch: 373564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.256		mg/L		102	90 - 110

Lab Sample ID: MB 480-374087/1-A
Matrix: Water
Analysis Batch: 374109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/26/17 10:56	08/27/17 12:30	1

Lab Sample ID: LCS 480-374087/2-A
Matrix: Water
Analysis Batch: 374109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-374036/3
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.0	0.53	mg/L			08/25/17 05:20	1

Lab Sample ID: LCS 480-374036/4
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	213	224.0		mg/L		105	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-372937/1
Matrix: Water
Analysis Batch: 372937

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4.00	J	10.0	4.0	mg/L			08/18/17 16:58	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-372937/2
Matrix: Water
Analysis Batch: 372937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	516	519.0		mg/L		101	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-373004/1
Matrix: Water
Analysis Batch: 373004

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/21/17 01:05	1

Lab Sample ID: LCS 480-373004/2
Matrix: Water
Analysis Batch: 373004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	298	293.6		mg/L		98	88 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-372863/1
Matrix: Water
Analysis Batch: 372863

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/18/17 11:27	1

Lab Sample ID: LCS 480-372863/2
Matrix: Water
Analysis Batch: 372863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	198.4		mg/L		100	85 - 115

Lab Sample ID: USB 480-372864/1
Matrix: Water
Analysis Batch: 372864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/18/17 11:27	1

Lab Sample ID: LCS 480-372864/2
Matrix: Water
Analysis Batch: 372864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	196.2		mg/L		99	85 - 115

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: 480-122880-1 DU
Matrix: Water
Analysis Batch: 372864

Client Sample ID: MW-6S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	8.4	b		7.11		mg/L				17	20

GC/MS VOA

Analysis Batch: 373105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	624	
MB 480-373105/16	Method Blank	Total/NA	Water	624	
LCS 480-373105/14	Lab Control Sample	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 373029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	625	
480-122880-1 - DL	MW-6S	Total/NA	Water	625	
MB 480-373029/1-A	Method Blank	Total/NA	Water	625	
LCS 480-373029/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-373029/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 374433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	625	373029
480-122880-1 - DL	MW-6S	Total/NA	Water	625	373029
MB 480-373029/1-A	Method Blank	Total/NA	Water	625	373029
LCS 480-373029/2-A	Lab Control Sample	Total/NA	Water	625	373029
LCSD 480-373029/3-A	Lab Control Sample Dup	Total/NA	Water	625	373029

GC Semi VOA

Prep Batch: 372756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	3510C	
MB 480-372756/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372756/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-372756/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 372759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	3510C	
MB 480-372759/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-372759/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 372883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	608	372756
MB 480-372756/1-A	Method Blank	Total/NA	Water	608	372756
LCS 480-372756/2-A	Lab Control Sample	Total/NA	Water	608	372756
LCSD 480-372756/3-A	Lab Control Sample Dup	Total/NA	Water	608	372756

Analysis Batch: 373562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	608	372759
MB 480-372759/1-A	Method Blank	Total/NA	Water	608	372759
LCS 480-372759/2-A	Lab Control Sample	Total/NA	Water	608	372759

Metals

Prep Batch: 372764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	7470A	
MB 480-372764/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-372764/2-A	Lab Control Sample	Total/NA	Water	7470A	

Filtration Batch: 372783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Dissolved	Water	FILTRATION	
MB 480-372783/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-372783/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-372783/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-372783/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	

Analysis Batch: 372906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	7470A	372764
MB 480-372764/1-A	Method Blank	Total/NA	Water	7470A	372764
LCS 480-372764/2-A	Lab Control Sample	Total/NA	Water	7470A	372764

Prep Batch: 373014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Dissolved	Water	3005A	372783
MB 480-372783/1-B	Method Blank	Dissolved	Water	3005A	372783
LCS 480-372783/2-B	Lab Control Sample	Dissolved	Water	3005A	372783

Prep Batch: 373070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Dissolved	Water	7470A	372783
MB 480-372783/1-C	Method Blank	Dissolved	Water	7470A	372783
LCS 480-372783/2-C	Lab Control Sample	Dissolved	Water	7470A	372783

Analysis Batch: 373160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Dissolved	Water	7470A	373070
MB 480-372783/1-C	Method Blank	Dissolved	Water	7470A	373070
LCS 480-372783/2-C	Lab Control Sample	Dissolved	Water	7470A	373070

Prep Batch: 373168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	3005A	
MB 480-373168/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-373168/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 373447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	6010C	373168
MB 480-373168/1-A	Method Blank	Total/NA	Water	6010C	373168
LCS 480-373168/2-A	Lab Control Sample	Total/NA	Water	6010C	373168

Analysis Batch: 373692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Dissolved	Water	6010C	373014

Metals (Continued)

Analysis Batch: 373692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-372783/1-B	Method Blank	Dissolved	Water	6010C	373014
LCS 480-372783/2-B	Lab Control Sample	Dissolved	Water	6010C	373014

General Chemistry

Analysis Batch: 372863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	SM 5210B	
USB 480-372863/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372863/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 372864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	SM 5210B	
USB 480-372864/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372864/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122880-1 DU	MW-6S	Total/NA	Water	SM 5210B	

Analysis Batch: 372937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	SM 2540C	
MB 480-372937/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-372937/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 373004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	SM 2540D	
MB 480-373004/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-373004/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 373203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	410.4	
MB 480-373203/27	Method Blank	Total/NA	Water	410.4	
MB 480-373203/3	Method Blank	Total/NA	Water	410.4	
MB 480-373203/51	Method Blank	Total/NA	Water	410.4	
LCS 480-373203/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-373203/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-373203/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 373205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	9040C	
LCS 480-373205/23	Lab Control Sample	Total/NA	Water	9040C	

Prep Batch: 373210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	351.2	
MB 480-373210/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-373210/2-A	Lab Control Sample	Total/NA	Water	351.2	

General Chemistry (Continued)

Analysis Batch: 373371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	351.2	373210
MB 480-373210/1-A	Method Blank	Total/NA	Water	351.2	373210
LCS 480-373210/2-A	Lab Control Sample	Total/NA	Water	351.2	373210

Prep Batch: 373439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	9012B	
MB 480-373439/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-373439/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-373439/3-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 373564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	9012B	373439
MB 480-373439/1-A	Method Blank	Total/NA	Water	9012B	373439
LCS 480-373439/2-A	Lab Control Sample	Total/NA	Water	9012B	373439
LCS 480-373439/3-A	Lab Control Sample	Total/NA	Water	9012B	373439

Prep Batch: 373732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	1664B	
MB 480-373732/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-373732/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 373810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	1664B	373732
MB 480-373732/1-A	Method Blank	Total/NA	Water	1664B	373732
LCS 480-373732/2-A	Lab Control Sample	Total/NA	Water	1664B	373732

Analysis Batch: 374036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Total/NA	Water	SM 2340C	
MB 480-374036/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-374036/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Filtration Batch: 374085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Dissolved	Water	Filtration	

Prep Batch: 374087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Dissolved	Water	9012B	374085
MB 480-374087/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-374087/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 374109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122880-1	MW-6S	Dissolved	Water	9012B	374087
MB 480-374087/1-A	Method Blank	Total/NA	Water	9012B	374087
LCS 480-374087/2-A	Lab Control Sample	Total/NA	Water	9012B	374087

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122880-1

Client Sample ID: MW-6S

Date Collected: 08/17/17 11:00
Date Received: 08/18/17 01:45

Lab Sample ID: 480-122880-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		20	373105	08/22/17 00:10	RJF	TAL BUF
Total/NA	Prep	625			373029	08/21/17 08:04	JMP	TAL BUF
Total/NA	Analysis	625		10	374433	08/30/17 14:01	PJQ	TAL BUF
Total/NA	Prep	625	DL		373029	08/21/17 08:04	JMP	TAL BUF
Total/NA	Analysis	625	DL	100	374433	08/30/17 19:42	PJQ	TAL BUF
Total/NA	Prep	3510C			372759	08/18/17 07:29	JMP	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 19:21	JMO	TAL BUF
Total/NA	Prep	3510C			372756	08/18/17 07:24	JMP	TAL BUF
Total/NA	Analysis	608		1	372883	08/18/17 18:45	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			372783	08/18/17 09:11	EMB	TAL BUF
Dissolved	Prep	3005A			373014	08/21/17 07:50	EMB	TAL BUF
Dissolved	Analysis	6010C		1	373692	08/22/17 03:23	LMH	TAL BUF
Total/NA	Prep	3005A			373168	08/22/17 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	373447	08/23/17 01:43	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			372783	08/18/17 09:11	EMB	TAL BUF
Dissolved	Prep	7470A			373070	08/21/17 09:30	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	373160	08/21/17 13:08	MVZ	TAL BUF
Total/NA	Prep	7470A			372764	08/18/17 09:00	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	372906	08/18/17 13:52	MVZ	TAL BUF
Total/NA	Prep	1664B			373732	08/24/17 10:57	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373810	08/24/17 10:57	DSC	TAL BUF
Total/NA	Prep	351.2			373210	08/22/17 03:57	LAW	TAL BUF
Total/NA	Analysis	351.2		1	373371	08/22/17 12:57	CLT	TAL BUF
Total/NA	Analysis	410.4		1	373203	08/21/17 17:54	CDC	TAL BUF
Dissolved	Filtration	Filtration			374085	08/26/17 10:52	JCL	TAL BUF
Dissolved	Prep	9012B			374087	08/26/17 10:56	JCL	TAL BUF
Dissolved	Analysis	9012B		1	374109	08/27/17 12:58	MDL	TAL BUF
Total/NA	Prep	9012B			373439	08/23/17 03:25	BEV	TAL BUF
Total/NA	Analysis	9012B		1	373564	08/23/17 12:34	MDL	TAL BUF
Total/NA	Analysis	9040C		1	373205	08/21/17 19:38	ALZ	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	372937	08/18/17 16:58	CDC	TAL BUF
Total/NA	Analysis	SM 2540D		1	373004	08/21/17 01:05	KMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	372863	08/18/17 11:27	LED	TAL BUF
Total/NA	Analysis	SM 5210B		1	372864	08/18/17 11:27	LED	TAL BUF

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122880-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Diphenylhydrazine

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
9040C		Water	pH
9040C		Water	Temperature

Laboratory: EMLab P&K - Houston TCEQ Cert T104704489

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
AIHA-LAP, LLC	EMLAP		193549	01-01-18
Texas	NELAP	6	T104704489-17-10	07-31-18

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122880-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
Local Method	General Sub Contract Method	NONE	EMLab Hou

Protocol References:

1664B = 1664B

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122880-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-122880-1	MW-6S	Water	08/17/17 11:00	08/18/17 01:45

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Dayo
Re: 480-122880; National Grid - North Albany Project

Date of Sampling: 08/17/2017
Date of Receipt: 08/22/2017
Date of Report: 08/23/2017

Iron Bacteria Presence/Absence Report

Location:	MW-6S(480-122880-1)
Comments (see below)	A
Lab ID-Version‡:	8323452-1
Sample Type	Water
Iron Bacteria	**Absent**

Comments: A) Iron bacteria method: SM chapter 9240B., 20th edition.

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122880; National Grid - North Albany Project

Date of Sampling: 08-17-2017
Date of Receipt: 08-22-2017
Date of Report: 09-06-2017

Slime Forming Bacteria Presence/Absence Report

Location:	MW-6S(480-122880-1)
Comments (see below)	None
Lab ID-Version‡:	8323451-1
Sample Type	Water
Slime Forming Bacteria	**Absent**

Comments:

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
A TestAmerica Company

Report for:

Melissa Deyo
TestAmerica-Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Regarding: Project: 480-122880; National Grid - North Albany Project
EML ID: 1780774

Approved by:



Technical Manager
Magzoub Ismail

Dates of Analysis:
MPN-Sulfate reducing bacteria: 09-13-2017

Service SOPs: MPN-Sulfate reducing bacteria (EM-BT-S-1059)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122880; National Grid - North Albany Project

Date of Sampling: 08-17-2017
Date of Receipt: 08-22-2017
Date of Report: 09-14-2017

MPN REPORT

Location: MW-6S(480-122880-1) Lab ID-Version‡: 8323450-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	**Method**	**Setup Time**	**MPN*/Unit**	**LCL****	**UCL****
Sulfate-reducing Bacteria	SM 9240 D	08/23/17 15:45	4	1	29

Comments:

*MPN - Most Probable Number.
MPN methods:
SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.
FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.
MPN values are calculated using the method of Thomas (1942).
The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, non-clustered, bacteria not attached to particulate matter within a sample. Due to the fact that bacteria can cluster and adhere to materials, values determined by the MPN method should be considered estimates in many instances.
**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM).
Interpretation is left to the company and/or persons who conducted the field work.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmericc
THE LEADER IN ENVIRONMENTAL TESTING

480-122880 COC

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier:
Client Contact: Aubrey Thomas	Phone: (518)396-7296	E-Mail: melissa.deyo@testamericainc.com	COC No: 480-100780-23982.3
Company: ARCADIS U.S. Inc			Page: Page 3 of 3
Address: 855 Route 146 Suite 210	Due Date Requested:	Analysis Requested	Job #:
City: Clifton Park	TAT Requested (days): Standard		Preservation Codes:
State, Zip: NY, 12065	PO #: B0036648.1401.00006		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Phone: (518) 250-7300	WO #:		Other:
Email: Aubrey.Thomas@arcadis.com	Project #: 48016528		
Project Name: National Grid - North Albany Project	SSOW#:		
Site: National Grid - North Albany			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624_6ml - Priority Pollutant List - VOCs	608_Pest - Priority Pollutant Pesticides	625 - Priority Pollutant List - SVOCs	608_PCB - Priority Pollutant PCBs	9012_ReactivCN, 9034_Reactive	9040C - pH	1010A - Ignitability	6010C, 7470A	6010C, 7470A	9012B - Cyanide	9012B - Dissolved Cyanide	1664B - O&G	2540D - TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	N	N	D	N	B	N	S	N		
MW-65	8/17/17	1100	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

8/17/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Aubrey Thomas	Date/Time: 8/17/17 1655	Company: Arcadis	Received by: Kat Leader 1655
Relinquished by: Kat Leader	Date/Time: 8/17/17 1800	Company: TA	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Date/Time: 8/17/17	Company: TA	Date/Time: 8-18-17 0145	Company: TA	
Date/Time:	Company:	Date/Time:	Company:	

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.0, 0.8 #1

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-100780-23982.4
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 4 of 3
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065				
Phone: (518) 250-7300	PO #: B0036648.1401.00006			
Email: Aubrey.Thomas@arcadis.com	WO #:			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site: National Grid - North Albany	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	6210B - BOD	351.2, 410.4	2340C - Hardness	SUBCONTRACT - Iron reducing bacteria	SUBCONTRACT - Slime forming bacteria	SUBCONTRACT - Sulfate reduing bacteria	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	D	N	N	N		
MW-65	8/17/17	1100	G	Water	N	N	1	1	1	1	1	1	1		
				Water											
				Water											
				Water											
				Water											
				Water											

8/17/17

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Aubrey Thomas	8/17/17 16:55	Arcadis	Rael Laden	8/17/17 1655	
Rael Laden	8/17/17 1800	TA		8-18-17 0145	TAD

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.0, 0.8 #1

Page 45 of 47

9/25/2017

Temp 19.2 C

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/25/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-38725.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: EMLab P&K		Accreditations Required (See note): NELAP - New York		Job #: 480-122880-1
Address: Subcont.report available upon request, 5310 Rothway,	Due Date Requested: 8/30/2017			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77040	PO #:			
Phone:	WO #:			
Email:	Project #: 48016528			
Project Name: National Grid - North Albany Project	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

001780774

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Sediment, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (BioActivity - Iron-Reducing Bacteria)	SUB (BioActivity - Slime-Forming Bacteria)	SUB (BioActivity - Sulfate-Reducing Bacteria)	Total Number of containers
	Preservation Code:									
MW-6S (480-122880-1)	8/17/17	11:00 Eastern		Water			X	X	X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/21/17 1500			8/22/17 9:50	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-122880-1

Login Number: 122880

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-122955-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Melissa Deyo

Authorized for release by:
9/25/2017 10:23:22 AM

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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
b	Result Detected in the Unseeded Control blank (USB).
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-122955-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-122955-1

Receipt
The samples were received on 8/19/2017 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 0.7º C.

GC/MS VOA
Method(s) 624: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following sample was received preserved with hydrochloric acid: MW-14 (480-122955-1). The requested target analyte list contains 2-chloroethyl vinyl ether, which is an acid-labile compound that degrade in an acidic medium.

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-14 (480-122955-1). Elevated reporting limits (RLs) are provided.

Method(s) 624: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-14 (480-122955-1), (480-122955-U-1 MS) and (480-122955-U-1 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 624: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: MW-14 (480-122955-1), (480-122955-U-1 MS) and (480-122955-U-1 MSD). The requested target analyte list contains 2-chloroethyl vinyl ether and/or acrolein, which are acid-labile compounds that degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625: The following sample was diluted due to the nature of the sample matrix: MW-14 (480-122955-1). Elevated reporting limits (RLs) are provided.

Method(s) 625: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-14 (480-122955-1) DL. Elevated reporting limits (RLs) are provided.

Method(s) 625: The following samples required a dilution due to the nature of the sample matrix or target analytes: MW-14 (480-122955-1) DL. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 625: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-14 (480-122955-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 608: The laboratory control sample (LCS) for preparation batch 480-373154 and analytical batch 480-373562 recovered outside control limits for the following analytes: PCB-1016. Associated analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: MW-14 (480-122955-1).

Method(s) 608: All primary data for analytical batch 373562 is reported from the ZB-35 column.

Method(s) 608: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 608: For method 608 Pest, the recovery of the one surrogate in samples MW-14 (480-122955-1) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

Job ID: 480-122955-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 608: All primary data for analytical batch 373773 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-373682/39) associated with batch 480-373682, contained Dissolved Sodium above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-14 (480-122955-1), (480-122955-O-1-C MS), (480-122955-O-1-D MSD), (480-122955-O-1-B PDS) and (480-122955-O-1-B SD) was not performed.

Method(s) 6010C: The post digestion spike % (480-122955-O-1-B PDS) recovery for Dissolved Magnesium associated with batch 480-373110 and 480-373359 was outside of control limits. The serial dilution was compliant therefore no corrective action is necessary.

Method(s) 6010C: The Method Blank for preparation batch 480-373168 and analytical batch 480-373447 contained Total Manganese above the reporting limit (RL). Associated sample MW-14 (480-122955-1) was not re-extracted and/or re-analyzed because results were greater than 10X the value found in the Method Blank.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-373447/37) contained Total Manganese outside the control limits. All reported samples MW-14 (480-122955-1) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-14 (480-122955-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-14 (480-122955-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-373432.

Method(s) 3510C: The following sample required a Florisil clean-up, via 3620C, to reduce matrix interferences: MW-14 (480-122955-1).

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-373154.

Method(s) 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-373029.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Client Sample ID: MW-14 — Lab Sample ID: 480-122955-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7200	E	100	12	ug/L	20		624	Total/NA
Ethylbenzene	1800		100	9.3	ug/L	20		624	Total/NA
Toluene	16	J	100	9.1	ug/L	20		624	Total/NA
Benzene - DL	8300		1000	120	ug/L	200		624	Total/NA
Ethylbenzene - DL	1900		1000	93	ug/L	200		624	Total/NA
Acenaphthene	190		100	16	ug/L	20		625	Total/NA
Fluorene	42	J	100	20	ug/L	20		625	Total/NA
Naphthalene	4600	E B	100	17	ug/L	20		625	Total/NA
Phenanthrene	69	J	100	24	ug/L	20		625	Total/NA
Acenaphthene - DL	210	J	500	81	ug/L	100		625	Total/NA
Naphthalene - DL	4600	B	500	86	ug/L	100		625	Total/NA
alpha-BHC	0.28		0.050	0.0077	ug/L	1		608	Total/NA
beta-BHC	0.049	J	0.050	0.025	ug/L	1		608	Total/NA
gamma-BHC (Lindane)	0.025	J	0.050	0.0080	ug/L	1		608	Total/NA
Heptachlor	0.015	J	0.050	0.0085	ug/L	1		608	Total/NA
Aluminum	0.088	J	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.038		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	4.0		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	344		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.00066	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	20.4		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0031	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	63.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	12.6	B ^	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0021	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	12.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	588		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0037	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Arsenic	0.0087	J	0.015	0.0056	mg/L	1		6010C	Dissolved
Barium	3.0		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	300		0.50	0.10	mg/L	1		6010C	Dissolved
Iron	0.25		0.050	0.019	mg/L	1		6010C	Dissolved
Lead	0.0045	J	0.010	0.0030	mg/L	1		6010C	Dissolved
Magnesium	56.4		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	10.9	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	11.6		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	514	^	1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0097	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Total Kjeldahl Nitrogen	7.9		0.40	0.30	mg/L	2		351.2	Total/NA
Chemical Oxygen Demand	66.2		10.0	5.0	mg/L	1		410.4	Total/NA
Cyanide	0.81		0.020	0.010	mg/L	2		9012B	Total/NA
Hardness as calcium carbonate	1140		10.0	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	3220		40.0	16.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	15.8	b	12.0	12.0	mg/L	1		SM 5210B	Total/NA
Carbonaceous Biochemical Oxygen Demand	15.7	b	12.0	12.0	mg/L	1		SM 5210B	Total/NA
Cyanide	0.49		0.010	0.0050	mg/L	1		9012B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.24	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	24.7	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample ID: MW-14 (Continued)

Lab Sample ID: 480-122955-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	36.8		4.0	4.0	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-14
Date Collected: 08/18/17 09:55
Date Received: 08/19/17 01:45

Lab Sample ID: 480-122955-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		2000	350	ug/L			08/22/17 01:20	20
Acrylonitrile	ND		1000	38	ug/L			08/22/17 01:20	20
Benzene	**7200**	**E**	100	12	ug/L			08/22/17 01:20	20
Dichlorobromomethane	ND		100	11	ug/L			08/22/17 01:20	20
Bromoform	ND		100	9.4	ug/L			08/22/17 01:20	20
Bromomethane	ND		100	24	ug/L			08/22/17 01:20	20
Carbon tetrachloride	ND		100	10	ug/L			08/22/17 01:20	20
Chlorobenzene	ND		100	9.5	ug/L			08/22/17 01:20	20
Chloroethane	ND		100	17	ug/L			08/22/17 01:20	20
2-Chloroethyl vinyl ether	ND		500	37	ug/L			08/22/17 01:20	20
Chloroform	ND		100	11	ug/L			08/22/17 01:20	20
Chloromethane	ND		100	13	ug/L			08/22/17 01:20	20
Chlorodibromomethane	ND		100	8.3	ug/L			08/22/17 01:20	20
1,1-Dichloroethane	ND		100	12	ug/L			08/22/17 01:20	20
1,2-Dichloroethane	ND		100	12	ug/L			08/22/17 01:20	20
1,1-Dichloroethene	ND		100	17	ug/L			08/22/17 01:20	20
trans-1,2-Dichloroethene	ND		100	12	ug/L			08/22/17 01:20	20
1,2-Dichloropropane	ND		100	12	ug/L			08/22/17 01:20	20
cis-1,3-Dichloropropene	ND		100	6.6	ug/L			08/22/17 01:20	20
trans-1,3-Dichloropropene	ND		100	8.8	ug/L			08/22/17 01:20	20
Ethylbenzene	**1800**		100	9.3	ug/L			08/22/17 01:20	20
Methylene Chloride	ND		100	16	ug/L			08/22/17 01:20	20
1,1,2,2-Tetrachloroethane	ND		100	5.2	ug/L			08/22/17 01:20	20
Tetrachloroethene	ND		100	6.8	ug/L			08/22/17 01:20	20
Toluene	**16**	**J**	100	9.1	ug/L			08/22/17 01:20	20
1,1,1-Trichloroethane	ND		100	7.7	ug/L			08/22/17 01:20	20
1,1,2-Trichloroethane	ND		100	9.6	ug/L			08/22/17 01:20	20
Trichloroethene	ND		100	12	ug/L			08/22/17 01:20	20
Vinyl chloride	ND		100	15	ug/L			08/22/17 01:20	20
1,2-Dichlorobenzene	ND		100	8.9	ug/L			08/22/17 01:20	20
1,2-Dichloroethene, Total	ND		200	64	ug/L			08/22/17 01:20	20
1,3-Dichlorobenzene	ND		100	11	ug/L			08/22/17 01:20	20
1,4-Dichlorobenzene	ND		100	10	ug/L			08/22/17 01:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*		*08/22/17 01:20*	*20*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*08/22/17 01:20*	*20*
Toluene-d8 (Surr)	*103*		*77 - 120*		*08/22/17 01:20*	*20*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*08/22/17 01:20*	*20*

Method: 624 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		20000	3500	ug/L			08/22/17 17:54	200
Acrylonitrile	ND		10000	380	ug/L			08/22/17 17:54	200
Benzene	**8300**		1000	120	ug/L			08/22/17 17:54	200
Dichlorobromomethane	ND		1000	110	ug/L			08/22/17 17:54	200
Bromoform	ND		1000	94	ug/L			08/22/17 17:54	200
Bromomethane	ND		1000	240	ug/L			08/22/17 17:54	200
Carbon tetrachloride	ND		1000	100	ug/L			08/22/17 17:54	200
Chlorobenzene	ND		1000	95	ug/L			08/22/17 17:54	200

Client Sample ID: MW-14
Date Collected: 08/18/17 09:55
Date Received: 08/19/17 01:45

Lab Sample ID: 480-122955-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1000	170	ug/L			08/22/17 17:54	200
2-Chloroethyl vinyl ether	ND		5000	370	ug/L			08/22/17 17:54	200
Chloroform	ND		1000	110	ug/L			08/22/17 17:54	200
Chloromethane	ND		1000	130	ug/L			08/22/17 17:54	200
Chlorodibromomethane	ND		1000	83	ug/L			08/22/17 17:54	200
1,1-Dichloroethane	ND		1000	120	ug/L			08/22/17 17:54	200
1,2-Dichloroethane	ND		1000	120	ug/L			08/22/17 17:54	200
1,1-Dichloroethene	ND		1000	170	ug/L			08/22/17 17:54	200
trans-1,2-Dichloroethene	ND		1000	120	ug/L			08/22/17 17:54	200
1,2-Dichloropropane	ND		1000	120	ug/L			08/22/17 17:54	200
cis-1,3-Dichloropropene	ND		1000	66	ug/L			08/22/17 17:54	200
trans-1,3-Dichloropropene	ND		1000	88	ug/L			08/22/17 17:54	200
Ethylbenzene	**1900**		1000	93	ug/L			08/22/17 17:54	200
Methylene Chloride	ND		1000	160	ug/L			08/22/17 17:54	200
1,1,2,2-Tetrachloroethane	ND		1000	52	ug/L			08/22/17 17:54	200
Tetrachloroethene	ND		1000	68	ug/L			08/22/17 17:54	200
Toluene	ND		1000	91	ug/L			08/22/17 17:54	200
1,1,1-Trichloroethane	ND		1000	77	ug/L			08/22/17 17:54	200
1,1,2-Trichloroethane	ND		1000	96	ug/L			08/22/17 17:54	200
Trichloroethene	ND		1000	120	ug/L			08/22/17 17:54	200
Vinyl chloride	ND		1000	150	ug/L			08/22/17 17:54	200
1,2-Dichlorobenzene	ND		1000	89	ug/L			08/22/17 17:54	200
1,2-Dichloroethene, Total	ND		2000	640	ug/L			08/22/17 17:54	200
1,3-Dichlorobenzene	ND		1000	110	ug/L			08/22/17 17:54	200
1,4-Dichlorobenzene	ND		1000	100	ug/L			08/22/17 17:54	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*08/22/17 17:54*	*200*
4-Bromofluorobenzene (Surr)	*104*		*76 - 123*		*08/22/17 17:54*	*200*
Toluene-d8 (Surr)	*101*		*77 - 120*		*08/22/17 17:54*	*200*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/22/17 17:54*	*200*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**190**		100	16	ug/L		08/21/17 08:04	08/30/17 15:46	20
Acenaphthylene	ND		100	17	ug/L		08/21/17 08:04	08/30/17 15:46	20
Anthracene	ND		100	28	ug/L		08/21/17 08:04	08/30/17 15:46	20
Benzidine	ND		1600	700	ug/L		08/21/17 08:04	08/30/17 15:46	20
Benzo[a]anthracene	ND		100	22	ug/L		08/21/17 08:04	08/30/17 15:46	20
Benzo[a]pyrene	ND		100	26	ug/L		08/21/17 08:04	08/30/17 15:46	20
Benzo[b]fluoranthene	ND		100	24	ug/L		08/21/17 08:04	08/30/17 15:46	20
Benzo[g,h,i]perylene	ND		100	30	ug/L		08/21/17 08:04	08/30/17 15:46	20
Benzo[k]fluoranthene	ND		100	26	ug/L		08/21/17 08:04	08/30/17 15:46	20
Bis(2-chloroethyl)ether	ND		100	19	ug/L		08/21/17 08:04	08/30/17 15:46	20
Bis(2-chloroethoxy)methane	ND		100	15	ug/L		08/21/17 08:04	08/30/17 15:46	20
bis (2-chloroisopropyl) ether	ND		100	17	ug/L		08/21/17 08:04	08/30/17 15:46	20
Bis(2-ethylhexyl) phthalate	ND		200	24	ug/L		08/21/17 08:04	08/30/17 15:46	20
4-Bromophenyl phenyl ether	ND		100	28	ug/L		08/21/17 08:04	08/30/17 15:46	20
Butyl benzyl phthalate	ND		100	22	ug/L		08/21/17 08:04	08/30/17 15:46	20
2-Chloronaphthalene	ND		100	18	ug/L		08/21/17 08:04	08/30/17 15:46	20

Client Sample ID: MW-14
Date Collected: 08/18/17 09:55
Date Received: 08/19/17 01:45

Lab Sample ID: 480-122955-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		100	26	ug/L		08/21/17 08:04	08/30/17 15:46	20
Chrysene	ND		100	20	ug/L		08/21/17 08:04	08/30/17 15:46	20
Dibenz(a,h)anthracene	ND		100	30	ug/L		08/21/17 08:04	08/30/17 15:46	20
Di-n-butyl phthalate	ND		100	32	ug/L		08/21/17 08:04	08/30/17 15:46	20
1,2-Dichlorobenzene	ND		200	100	ug/L		08/21/17 08:04	08/30/17 15:46	20
1,3-Dichlorobenzene	ND		200	14	ug/L		08/21/17 08:04	08/30/17 15:46	20
1,4-Dichlorobenzene	ND		200	110	ug/L		08/21/17 08:04	08/30/17 15:46	20
3,3'-Dichlorobenzidine	ND		100	16	ug/L		08/21/17 08:04	08/30/17 15:46	20
Diethyl phthalate	ND		100	20	ug/L		08/21/17 08:04	08/30/17 15:46	20
Dimethyl phthalate	ND		100	18	ug/L		08/21/17 08:04	08/30/17 15:46	20
2,4-Dinitrotoluene	ND		200	100	ug/L		08/21/17 08:04	08/30/17 15:46	20
2,6-Dinitrotoluene	ND		100	20	ug/L		08/21/17 08:04	08/30/17 15:46	20
Di-n-octyl phthalate	ND		100	24	ug/L		08/21/17 08:04	08/30/17 15:46	20
1,2-Diphenylhydrazine	ND		200	16	ug/L		08/21/17 08:04	08/30/17 15:46	20
Fluoranthene	ND		100	32	ug/L		08/21/17 08:04	08/30/17 15:46	20
Fluorene	**42**	**J**	100	20	ug/L		08/21/17 08:04	08/30/17 15:46	20
Hexachlorobenzene	ND		100	20	ug/L		08/21/17 08:04	08/30/17 15:46	20
Hexachlorobutadiene	ND		100	20	ug/L		08/21/17 08:04	08/30/17 15:46	20
Hexachlorocyclopentadiene	ND		200	100	ug/L		08/21/17 08:04	08/30/17 15:46	20
Hexachloroethane	ND		100	12	ug/L		08/21/17 08:04	08/30/17 15:46	20
Indeno[1,2,3-cd]pyrene	ND		100	30	ug/L		08/21/17 08:04	08/30/17 15:46	20
Isophorone	ND		100	15	ug/L		08/21/17 08:04	08/30/17 15:46	20
Naphthalene	**4600**	**E B**	100	17	ug/L		08/21/17 08:04	08/30/17 15:46	20
Nitrobenzene	ND		100	16	ug/L		08/21/17 08:04	08/30/17 15:46	20
N-Nitrosodi-n-propylamine	ND		100	18	ug/L		08/21/17 08:04	08/30/17 15:46	20
N-Nitrosodimethylamine	ND		200	100	ug/L		08/21/17 08:04	08/30/17 15:46	20
N-Nitrosodiphenylamine	ND		100	7.9	ug/L		08/21/17 08:04	08/30/17 15:46	20
Phenanthrene	**69**	**J**	100	24	ug/L		08/21/17 08:04	08/30/17 15:46	20
Pyrene	ND		100	28	ug/L		08/21/17 08:04	08/30/17 15:46	20
1,2,4-Trichlorobenzene	ND		200	16	ug/L		08/21/17 08:04	08/30/17 15:46	20
4-Chloro-3-methylphenol	ND		100	22	ug/L		08/21/17 08:04	08/30/17 15:46	20
2-Chlorophenol	ND		100	13	ug/L		08/21/17 08:04	08/30/17 15:46	20
2,4-Dichlorophenol	ND		100	15	ug/L		08/21/17 08:04	08/30/17 15:46	20
2,4-Dimethylphenol	ND		100	28	ug/L		08/21/17 08:04	08/30/17 15:46	20
2,4-Dinitrophenol	ND		200	100	ug/L		08/21/17 08:04	08/30/17 15:46	20
4,6-Dinitro-2-methylphenol	ND		200	13	ug/L		08/21/17 08:04	08/30/17 15:46	20
2-Nitrophenol	ND		100	14	ug/L		08/21/17 08:04	08/30/17 15:46	20
4-Nitrophenol	ND		300	200	ug/L		08/21/17 08:04	08/30/17 15:46	20
Pentachlorophenol	ND		200	32	ug/L		08/21/17 08:04	08/30/17 15:46	20
Phenol	ND		100	7.0	ug/L		08/21/17 08:04	08/30/17 15:46	20
2,4,6-Trichlorophenol	ND		100	20	ug/L		08/21/17 08:04	08/30/17 15:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*217*	*X*	*52 - 151*	*08/21/17 08:04*	*08/30/17 15:46*	*20*
2-Fluorobiphenyl	*62*		*44 - 120*	*08/21/17 08:04*	*08/30/17 15:46*	*20*
2-Fluorophenol	*31*		*17 - 120*	*08/21/17 08:04*	*08/30/17 15:46*	*20*
Nitrobenzene-d5	*95*		*42 - 120*	*08/21/17 08:04*	*08/30/17 15:46*	*20*
Phenol-d5	*23*		*10 - 120*	*08/21/17 08:04*	*08/30/17 15:46*	*20*
p-Terphenyl-d14	*63*		*22 - 125*	*08/21/17 08:04*	*08/30/17 15:46*	*20*

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Client Sample ID: MW-14
Date Collected: 08/18/17 09:55
Date Received: 08/19/17 01:45

Lab Sample ID: 480-122955-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**210**	**J**	500	81	ug/L		08/21/17 08:04	08/30/17 20:09	100
Acenaphthylene	ND		500	87	ug/L		08/21/17 08:04	08/30/17 20:09	100
Anthracene	ND		500	140	ug/L		08/21/17 08:04	08/30/17 20:09	100
Benzidine	ND		8000	3500	ug/L		08/21/17 08:04	08/30/17 20:09	100
Benzo[a]anthracene	ND		500	110	ug/L		08/21/17 08:04	08/30/17 20:09	100
Benzo[a]pyrene	ND		500	130	ug/L		08/21/17 08:04	08/30/17 20:09	100
Benzo[b]fluoranthene	ND		500	120	ug/L		08/21/17 08:04	08/30/17 20:09	100
Benzo[g,h,i]perylene	ND		500	150	ug/L		08/21/17 08:04	08/30/17 20:09	100
Benzo[k]fluoranthene	ND		500	130	ug/L		08/21/17 08:04	08/30/17 20:09	100
Bis(2-chloroethyl)ether	ND		500	93	ug/L		08/21/17 08:04	08/30/17 20:09	100
Bis(2-chloroethoxy)methane	ND		500	75	ug/L		08/21/17 08:04	08/30/17 20:09	100
bis (2-chloroisopropyl) ether	ND		500	84	ug/L		08/21/17 08:04	08/30/17 20:09	100
Bis(2-ethylhexyl) phthalate	ND		1000	120	ug/L		08/21/17 08:04	08/30/17 20:09	100
4-Bromophenyl phenyl ether	ND		500	140	ug/L		08/21/17 08:04	08/30/17 20:09	100
Butyl benzyl phthalate	ND		500	110	ug/L		08/21/17 08:04	08/30/17 20:09	100
2-Chloronaphthalene	ND		500	91	ug/L		08/21/17 08:04	08/30/17 20:09	100
4-Chlorophenyl phenyl ether	ND		500	130	ug/L		08/21/17 08:04	08/30/17 20:09	100
Chrysene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 20:09	100
Dibenz(a,h)anthracene	ND		500	150	ug/L		08/21/17 08:04	08/30/17 20:09	100
Di-n-butyl phthalate	ND		500	160	ug/L		08/21/17 08:04	08/30/17 20:09	100
1,2-Dichlorobenzene	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 20:09	100
1,3-Dichlorobenzene	ND		1000	69	ug/L		08/21/17 08:04	08/30/17 20:09	100
1,4-Dichlorobenzene	ND		1000	560	ug/L		08/21/17 08:04	08/30/17 20:09	100
3,3'-Dichlorobenzidine	ND		500	82	ug/L		08/21/17 08:04	08/30/17 20:09	100
Diethyl phthalate	ND		500	100	ug/L		08/21/17 08:04	08/30/17 20:09	100
Dimethyl phthalate	ND		500	91	ug/L		08/21/17 08:04	08/30/17 20:09	100
2,4-Dinitrotoluene	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 20:09	100
2,6-Dinitrotoluene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 20:09	100
Di-n-octyl phthalate	ND		500	120	ug/L		08/21/17 08:04	08/30/17 20:09	100
1,2-Diphenylhydrazine	ND		1000	78	ug/L		08/21/17 08:04	08/30/17 20:09	100
Fluoranthene	ND		500	160	ug/L		08/21/17 08:04	08/30/17 20:09	100
Fluorene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 20:09	100
Hexachlorobenzene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 20:09	100
Hexachlorobutadiene	ND		500	100	ug/L		08/21/17 08:04	08/30/17 20:09	100
Hexachlorocyclopentadiene	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 20:09	100
Hexachloroethane	ND		500	60	ug/L		08/21/17 08:04	08/30/17 20:09	100
Indeno[1,2,3-cd]pyrene	ND		500	150	ug/L		08/21/17 08:04	08/30/17 20:09	100
Isophorone	ND		500	74	ug/L		08/21/17 08:04	08/30/17 20:09	100
Naphthalene	**4600**	**B**	500	86	ug/L		08/21/17 08:04	08/30/17 20:09	100
Nitrobenzene	ND		500	81	ug/L		08/21/17 08:04	08/30/17 20:09	100
N-Nitrosodi-n-propylamine	ND		500	89	ug/L		08/21/17 08:04	08/30/17 20:09	100
N-Nitrosodimethylamine	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 20:09	100
N-Nitrosodiphenylamine	ND		500	40	ug/L		08/21/17 08:04	08/30/17 20:09	100
Phenanthrene	ND		500	120	ug/L		08/21/17 08:04	08/30/17 20:09	100
Pyrene	ND		500	140	ug/L		08/21/17 08:04	08/30/17 20:09	100
1,2,4-Trichlorobenzene	ND		1000	82	ug/L		08/21/17 08:04	08/30/17 20:09	100
4-Chloro-3-methylphenol	ND		500	110	ug/L		08/21/17 08:04	08/30/17 20:09	100
2-Chlorophenol	ND		500	66	ug/L		08/21/17 08:04	08/30/17 20:09	100
2,4-Dichlorophenol	ND		500	77	ug/L		08/21/17 08:04	08/30/17 20:09	100

Client Sample ID: MW-14
Date Collected: 08/18/17 09:55
Date Received: 08/19/17 01:45

Lab Sample ID: 480-122955-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		500	140	ug/L		08/21/17 08:04	08/30/17 20:09	100
2,4-Dinitrophenol	ND		1000	500	ug/L		08/21/17 08:04	08/30/17 20:09	100
4,6-Dinitro-2-methylphenol	ND		1000	66	ug/L		08/21/17 08:04	08/30/17 20:09	100
2-Nitrophenol	ND		500	70	ug/L		08/21/17 08:04	08/30/17 20:09	100
4-Nitrophenol	ND		1500	1000	ug/L		08/21/17 08:04	08/30/17 20:09	100
Pentachlorophenol	ND		1000	160	ug/L		08/21/17 08:04	08/30/17 20:09	100
Phenol	ND		500	35	ug/L		08/21/17 08:04	08/30/17 20:09	100
2,4,6-Trichlorophenol	ND		500	100	ug/L		08/21/17 08:04	08/30/17 20:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*52 - 151*	*08/21/17 08:04*	*08/30/17 20:09*	*100*
2-Fluorobiphenyl	*0*	*X*	*44 - 120*	*08/21/17 08:04*	*08/30/17 20:09*	*100*
2-Fluorophenol	*0*	*X*	*17 - 120*	*08/21/17 08:04*	*08/30/17 20:09*	*100*
Nitrobenzene-d5	*0*	*X*	*42 - 120*	*08/21/17 08:04*	*08/30/17 20:09*	*100*
Phenol-d5	*0*	*X*	*10 - 120*	*08/21/17 08:04*	*08/30/17 20:09*	*100*
p-Terphenyl-d14	*0*	*X*	*22 - 125*	*08/21/17 08:04*	*08/30/17 20:09*	*100*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/23/17 07:32	08/24/17 16:20	1
alpha-BHC	**0.28**		0.050	0.0077	ug/L		08/23/17 07:32	08/24/17 16:20	1
beta-BHC	**0.049**	**J**	0.050	0.025	ug/L		08/23/17 07:32	08/24/17 16:20	1
delta-BHC	ND		0.050	0.010	ug/L		08/23/17 07:32	08/24/17 16:20	1
gamma-BHC (Lindane)	**0.025**	**J**	0.050	0.0080	ug/L		08/23/17 07:32	08/24/17 16:20	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/23/17 07:32	08/24/17 16:20	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/23/17 07:32	08/24/17 16:20	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/23/17 07:32	08/24/17 16:20	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/23/17 07:32	08/24/17 16:20	1
Dieldrin	ND		0.050	0.0098	ug/L		08/23/17 07:32	08/24/17 16:20	1
Endosulfan I	ND		0.050	0.011	ug/L		08/23/17 07:32	08/24/17 16:20	1
Endosulfan II	ND		0.050	0.012	ug/L		08/23/17 07:32	08/24/17 16:20	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/23/17 07:32	08/24/17 16:20	1
Endrin	ND		0.050	0.014	ug/L		08/23/17 07:32	08/24/17 16:20	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/23/17 07:32	08/24/17 16:20	1
Heptachlor	**0.015**	**J**	0.050	0.0085	ug/L		08/23/17 07:32	08/24/17 16:20	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/23/17 07:32	08/24/17 16:20	1
Toxaphene	ND		0.50	0.12	ug/L		08/23/17 07:32	08/24/17 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*23 - 120*	*08/23/17 07:32*	*08/24/17 16:20*	*1*
DCB Decachlorobiphenyl	*64*		*23 - 120*	*08/23/17 07:32*	*08/24/17 16:20*	*1*
Tetrachloro-m-xylene	*137*	*X*	*44 - 120*	*08/23/17 07:32*	*08/24/17 16:20*	*1*
Tetrachloro-m-xylene	*92*		*44 - 120*	*08/23/17 07:32*	*08/24/17 16:20*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.060	0.038	ug/L		08/21/17 14:23	08/23/17 22:55	1
PCB-1221	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 22:55	1
PCB-1232	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 22:55	1
PCB-1242	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 22:55	1

Client Sample ID: MW-14
Date Collected: 08/18/17 09:55
Date Received: 08/19/17 01:45

Lab Sample ID: 480-122955-1
Matrix: Water

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 22:55	1
PCB-1254	ND		0.060	0.031	ug/L		08/21/17 14:23	08/23/17 22:55	1
PCB-1260	ND		0.060	0.031	ug/L		08/21/17 14:23	08/23/17 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*36 - 121*	*08/21/17 14:23*	*08/23/17 22:55*	*1*
DCB Decachlorobiphenyl	*83*		*36 - 121*	*08/21/17 14:23*	*08/23/17 22:55*	*1*
Tetrachloro-m-xylene	*137*	*X*	*42 - 135*	*08/21/17 14:23*	*08/23/17 22:55*	*1*
Tetrachloro-m-xylene	*106*		*42 - 135*	*08/21/17 14:23*	*08/23/17 22:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.088**	**J**	0.20	0.060	mg/L		08/22/17 07:36	08/23/17 01:46	1
Antimony	ND		0.020	0.0068	mg/L		08/22/17 07:36	08/23/17 01:46	1
Arsenic	**0.038**		0.015	0.0056	mg/L		08/22/17 07:36	08/23/17 01:46	1
Barium	**4.0**		0.0020	0.00070	mg/L		08/22/17 07:36	08/23/17 01:46	1
Beryllium	ND		0.0020	0.00030	mg/L		08/22/17 07:36	08/23/17 01:46	1
Cadmium	ND		0.0020	0.00050	mg/L		08/22/17 07:36	08/23/17 01:46	1
Calcium	**344**		0.50	0.10	mg/L		08/22/17 07:36	08/23/17 01:46	1
Chromium	ND		0.0040	0.0010	mg/L		08/22/17 07:36	08/23/17 01:46	1
Cobalt	**0.00066**	**J**	0.0040	0.00063	mg/L		08/22/17 07:36	08/23/17 01:46	1
Copper	ND		0.010	0.0016	mg/L		08/22/17 07:36	08/23/17 01:46	1
Iron	**20.4**		0.050	0.019	mg/L		08/22/17 07:36	08/23/17 01:46	1
Lead	**0.0031**	**J**	0.010	0.0030	mg/L		08/22/17 07:36	08/23/17 01:46	1
Magnesium	**63.1**		0.20	0.043	mg/L		08/22/17 07:36	08/23/17 01:46	1
Manganese	**12.6**	**B ^**	0.0030	0.00040	mg/L		08/22/17 07:36	08/23/17 01:46	1
Nickel	**0.0021**	**J**	0.010	0.0013	mg/L		08/22/17 07:36	08/23/17 01:46	1
Potassium	**12.2**		0.50	0.10	mg/L		08/22/17 07:36	08/23/17 01:46	1
Selenium	ND		0.025	0.0087	mg/L		08/22/17 07:36	08/23/17 01:46	1
Silver	ND		0.0060	0.0017	mg/L		08/22/17 07:36	08/23/17 01:46	1
Sodium	**588**		1.0	0.32	mg/L		08/22/17 07:36	08/23/17 01:46	1
Thallium	ND		0.020	0.010	mg/L		08/22/17 07:36	08/23/17 01:46	1
Vanadium	ND		0.0050	0.0015	mg/L		08/22/17 07:36	08/23/17 01:46	1
Zinc	**0.0037**	**J**	0.010	0.0015	mg/L		08/22/17 07:36	08/23/17 01:46	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/23/17 07:04	08/23/17 22:42	1
Antimony	ND		0.020	0.0068	mg/L		08/23/17 07:04	08/23/17 22:42	1
Arsenic	**0.0087**	**J**	0.015	0.0056	mg/L		08/23/17 07:04	08/23/17 22:42	1
Barium	**3.0**		0.0020	0.00070	mg/L		08/23/17 07:04	08/23/17 22:42	1
Beryllium	ND		0.0020	0.00030	mg/L		08/23/17 07:04	08/23/17 22:42	1
Cadmium	ND		0.0020	0.00050	mg/L		08/23/17 07:04	08/23/17 22:42	1
Calcium	**300**		0.50	0.10	mg/L		08/23/17 07:04	08/23/17 22:42	1
Chromium	ND		0.0040	0.0010	mg/L		08/23/17 07:04	08/23/17 22:42	1
Cobalt	ND		0.0040	0.00063	mg/L		08/23/17 07:04	08/23/17 22:42	1
Copper	ND		0.010	0.0016	mg/L		08/23/17 07:04	08/23/17 22:42	1
Iron	**0.25**		0.050	0.019	mg/L		08/23/17 07:04	08/23/17 22:42	1
Lead	**0.0045**	**J**	0.010	0.0030	mg/L		08/23/17 07:04	08/23/17 22:42	1
Magnesium	**56.4**		0.20	0.043	mg/L		08/23/17 07:04	08/23/17 22:42	1

Client Sample ID: MW-14
Date Collected: 08/18/17 09:55
Date Received: 08/19/17 01:45

Lab Sample ID: 480-122955-1
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	10.9	B	0.0030	0.00040	mg/L		08/23/17 07:04	08/23/17 22:42	1
Nickel	ND		0.010	0.0013	mg/L		08/23/17 07:04	08/23/17 22:42	1
Potassium	11.6		0.50	0.10	mg/L		08/23/17 07:04	08/23/17 22:42	1
Selenium	ND		0.025	0.0087	mg/L		08/23/17 07:04	08/23/17 22:42	1
Silver	ND		0.0060	0.0017	mg/L		08/23/17 07:04	08/23/17 22:42	1
Sodium	514	^	1.0	0.32	mg/L		08/23/17 07:04	08/23/17 22:42	1
Thallium	ND		0.020	0.010	mg/L		08/23/17 07:04	08/23/17 22:42	1
Vanadium	ND		0.0050	0.0015	mg/L		08/23/17 07:04	08/23/17 22:42	1
Zinc	0.0097	J B	0.010	0.0015	mg/L		08/23/17 07:04	08/23/17 22:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/17 09:30	08/21/17 12:52	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/23/17 09:20	08/23/17 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.7	1.6	mg/L		08/24/17 10:57	08/24/17 10:57	1
SGT-HEM	ND		5.7	2.2	mg/L		08/24/17 10:57	08/24/17 10:57	1
Total Kjeldahl Nitrogen	7.9		0.40	0.30	mg/L		08/22/17 03:57	08/22/17 13:39	2
Chemical Oxygen Demand	66.2		10.0	5.0	mg/L			08/21/17 17:54	1
Cyanide	0.81		0.020	0.010	mg/L		08/23/17 03:25	08/23/17 12:44	2
Hardness as calcium carbonate	1140		10.0	2.6	mg/L			08/25/17 05:20	1
Total Dissolved Solids	3220		40.0	16.0	mg/L			08/22/17 03:12	1
Biochemical Oxygen Demand	15.8	b	12.0	12.0	mg/L			08/19/17 11:33	1
Carbonaceous Biochemical Oxygen Demand	15.7	b	12.0	12.0	mg/L			08/19/17 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.24	HF	0.100	0.100	SU			08/21/17 20:43	1
Temperature	24.7	HF	0.00100	0.00100	Degrees C			08/21/17 20:43	1
Total Suspended Solids	36.8		4.0	4.0	mg/L			08/22/17 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	0.49		0.010	0.0050	mg/L		08/26/17 10:56	08/27/17 12:59	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-122955-1	MW-14	100	102	103	98
480-122955-1 - DL	MW-14	96	104	101	96
480-122955-1 MS	MW-14	102	100	102	103
480-122955-1 MSD	MW-14	98	96	93	101
LCS 480-373105/14	Lab Control Sample	100	101	102	100
LCS 480-373302/14	Lab Control Sample	96	98	100	99
MB 480-373105/16	Method Blank	102	103	103	102
MB 480-373302/16	Method Blank	101	100	100	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(42-120)	(10-120)	(22-125)
480-122955-1	MW-14	217 X	62	31	95	23	63
480-122955-1 - DL	MW-14	0 X	0 X	0 X	0 X	0 X	0 X
LCS 480-373029/2-A	Lab Control Sample	97	83	47	83	36	97
LCSD 480-373029/3-A	Lab Control Sample Dup	96	88	52	85	37	95
MB 480-373029/1-A	Method Blank	77	86	48	82	38	95

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(23-120)	(23-120)	(44-120)	(44-120)
480-122955-1	MW-14	53	64	137 X	92
LCS 480-373432/2-A	Lab Control Sample	66	73	88	76
LCSD 480-373432/3-A	Lab Control Sample Dup	67	76	91	82
MB 480-373432/1-A	Method Blank	77	77	92	78

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(36-121)	(36-121)	(42-135)	(42-135)
480-122955-1	MW-14	90	83	137 X	106
LCS 480-373154/2-A	Lab Control Sample	59	60	113	93
LCSD 480-373154/3-A	Lab Control Sample Dup	57	57	113	87
MB 480-373154/1-A	Method Blank	65	57	114	91

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-373105/16
Matrix: Water
Analysis Batch: 373105

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/21/17 17:49	1
Acrylonitrile	ND		50	1.9	ug/L			08/21/17 17:49	1
Benzene	ND		5.0	0.60	ug/L			08/21/17 17:49	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/21/17 17:49	1
Bromoform	ND		5.0	0.47	ug/L			08/21/17 17:49	1
Bromomethane	ND		5.0	1.2	ug/L			08/21/17 17:49	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/21/17 17:49	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/21/17 17:49	1
Chloroethane	ND		5.0	0.87	ug/L			08/21/17 17:49	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/21/17 17:49	1
Chloroform	ND		5.0	0.54	ug/L			08/21/17 17:49	1
Chloromethane	ND		5.0	0.64	ug/L			08/21/17 17:49	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/21/17 17:49	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/21/17 17:49	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/21/17 17:49	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/21/17 17:49	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/21/17 17:49	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/21/17 17:49	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/21/17 17:49	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/21/17 17:49	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/21/17 17:49	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/21/17 17:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/21/17 17:49	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/21/17 17:49	1
Toluene	ND		5.0	0.45	ug/L			08/21/17 17:49	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/21/17 17:49	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/21/17 17:49	1
Trichloroethene	ND		5.0	0.60	ug/L			08/21/17 17:49	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/21/17 17:49	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/21/17 17:49	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/21/17 17:49	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/21/17 17:49	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/21/17 17:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*08/21/17 17:49*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*08/21/17 17:49*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*08/21/17 17:49*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/21/17 17:49*	*1*

Lab Sample ID: LCS 480-373105/14
Matrix: Water
Analysis Batch: 373105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	23.2		ug/L		116	37 - 151
Dichlorobromomethane	20.0	22.4		ug/L		112	35 - 155
Bromoform	20.0	20.6		ug/L		103	45 - 169

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-373105/14
Matrix: Water
Analysis Batch: 373105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	21.6		ug/L		108	1 - 242
Carbon tetrachloride	20.0	22.6		ug/L		113	70 - 140
Chlorobenzene	20.0	22.0		ug/L		110	37 - 160
Chloroethane	20.0	22.3		ug/L		112	14 - 230
2-Chloroethyl vinyl ether	20.0	21.8	J	ug/L		109	1 - 305
Chloroform	20.0	22.7		ug/L		113	51 - 138
Chloromethane	20.0	21.4		ug/L		107	1 - 273
Chlorodibromomethane	20.0	21.6		ug/L		108	53 - 149
1,1-Dichloroethane	20.0	23.4		ug/L		117	59 - 155
1,2-Dichloroethane	20.0	21.3		ug/L		106	49 - 155
1,1-Dichloroethene	20.0	22.7		ug/L		114	1 - 234
trans-1,2-Dichloroethene	20.0	23.5		ug/L		117	54 - 156
1,2-Dichloropropane	20.0	21.5		ug/L		108	1 - 210
cis-1,3-Dichloropropene	20.0	21.7		ug/L		109	1 - 227
trans-1,3-Dichloropropene	20.0	22.2		ug/L		111	17 - 183
Ethylbenzene	20.0	22.9		ug/L		114	37 - 162
Methylene Chloride	20.0	22.7		ug/L		113	1 - 221
1,1,2,2-Tetrachloroethane	20.0	21.1		ug/L		105	46 - 157
Tetrachloroethene	20.0	22.0		ug/L		110	64 - 148
Toluene	20.0	22.9		ug/L		114	47 - 150
1,1,1-Trichloroethane	20.0	21.7		ug/L		109	52 - 162
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	52 - 150
Trichloroethene	20.0	21.0		ug/L		105	71 - 157
Vinyl chloride	20.0	23.6		ug/L		118	1 - 251
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	18 - 190
1,3-Dichlorobenzene	20.0	21.4		ug/L		107	59 - 156
1,4-Dichlorobenzene	20.0	21.6		ug/L		108	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*
Toluene-d8 (Surr)	*102*		*77 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: MB 480-373302/16
Matrix: Water
Analysis Batch: 373302

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		100	17	ug/L			08/22/17 15:15	1
Acrylonitrile	ND		50	1.9	ug/L			08/22/17 15:15	1
Benzene	ND		5.0	0.60	ug/L			08/22/17 15:15	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			08/22/17 15:15	1
Bromoform	ND		5.0	0.47	ug/L			08/22/17 15:15	1
Bromomethane	ND		5.0	1.2	ug/L			08/22/17 15:15	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/22/17 15:15	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/22/17 15:15	1
Chloroethane	ND		5.0	0.87	ug/L			08/22/17 15:15	1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-373302/16
Matrix: Water
Analysis Batch: 373302

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/22/17 15:15	1
Chloroform	ND		5.0	0.54	ug/L			08/22/17 15:15	1
Chloromethane	ND		5.0	0.64	ug/L			08/22/17 15:15	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			08/22/17 15:15	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/22/17 15:15	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/22/17 15:15	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/22/17 15:15	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			08/22/17 15:15	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/22/17 15:15	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/22/17 15:15	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/22/17 15:15	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/22/17 15:15	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/22/17 15:15	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/22/17 15:15	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/22/17 15:15	1
Toluene	ND		5.0	0.45	ug/L			08/22/17 15:15	1
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/22/17 15:15	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/22/17 15:15	1
Trichloroethene	ND		5.0	0.60	ug/L			08/22/17 15:15	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/22/17 15:15	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/22/17 15:15	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/22/17 15:15	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/22/17 15:15	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/22/17 15:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*08/22/17 15:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*08/22/17 15:15*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/22/17 15:15*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/22/17 15:15*	*1*

Lab Sample ID: LCS 480-373302/14
Matrix: Water
Analysis Batch: 373302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	23.5		ug/L		117	37 - 151
Dichlorobromomethane	20.0	22.6		ug/L		113	35 - 155
Bromoform	20.0	20.7		ug/L		104	45 - 169
Bromomethane	20.0	19.4		ug/L		97	1 - 242
Carbon tetrachloride	20.0	22.0		ug/L		110	70 - 140
Chlorobenzene	20.0	22.3		ug/L		111	37 - 160
Chloroethane	20.0	20.4		ug/L		102	14 - 230
2-Chloroethyl vinyl ether	20.0	21.8	J	ug/L		109	1 - 305
Chloroform	20.0	21.7		ug/L		108	51 - 138
Chloromethane	20.0	20.9		ug/L		104	1 - 273
Chlorodibromomethane	20.0	21.4		ug/L		107	53 - 149
1,1-Dichloroethane	20.0	23.0		ug/L		115	59 - 155

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-373302/14
Matrix: Water
Analysis Batch: 373302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	20.0	21.4		ug/L		107	49 - 155
1,1-Dichloroethene	20.0	22.6		ug/L		113	1 - 234
trans-1,2-Dichloroethene	20.0	23.4		ug/L		117	54 - 156
1,2-Dichloropropane	20.0	22.0		ug/L		110	1 - 210
cis-1,3-Dichloropropene	20.0	22.7		ug/L		114	1 - 227
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	17 - 183
Ethylbenzene	20.0	22.7		ug/L		114	37 - 162
Methylene Chloride	20.0	22.0		ug/L		110	1 - 221
1,1,2,2-Tetrachloroethane	20.0	22.0		ug/L		110	46 - 157
Tetrachloroethene	20.0	22.0		ug/L		110	64 - 148
Toluene	20.0	23.1		ug/L		115	47 - 150
1,1,1-Trichloroethane	20.0	22.2		ug/L		111	52 - 162
1,1,2-Trichloroethane	20.0	22.4		ug/L		112	52 - 150
Trichloroethene	20.0	21.9		ug/L		110	71 - 157
Vinyl chloride	20.0	22.2		ug/L		111	1 - 251
1,2-Dichlorobenzene	20.0	21.8		ug/L		109	18 - 190
1,3-Dichlorobenzene	20.0	22.1		ug/L		111	59 - 156
1,4-Dichlorobenzene	20.0	22.6		ug/L		113	18 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: 480-122955-1 MS
Matrix: Water
Analysis Batch: 373302

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	8300		4000	12200		ug/L		98	37 - 151
Dichlorobromomethane	ND		4000	4180		ug/L		104	35 - 155
Bromoform	ND		4000	3780		ug/L		94	45 - 169
Bromomethane	ND		4000	4240		ug/L		106	1 - 242
Carbon tetrachloride	ND		4000	4030		ug/L		101	70 - 140
Chlorobenzene	ND		4000	4090		ug/L		102	37 - 160
Chloroethane	ND		4000	4100		ug/L		102	14 - 230
2-Chloroethyl vinyl ether	ND		4000	3950	J	ug/L		99	1 - 305
Chloroform	ND		4000	4120		ug/L		103	51 - 138
Chloromethane	ND		4000	4200		ug/L		105	1 - 273
Chlorodibromomethane	ND		4000	3890		ug/L		97	53 - 149
1,1-Dichloroethane	ND		4000	4350		ug/L		109	59 - 155
1,2-Dichloroethane	ND		4000	4090		ug/L		102	49 - 155
1,1-Dichloroethene	ND		4000	4210		ug/L		105	1 - 234
trans-1,2-Dichloroethene	ND		4000	4390		ug/L		110	54 - 156
1,2-Dichloropropane	ND		4000	4190		ug/L		105	1 - 210
cis-1,3-Dichloropropene	ND		4000	4040		ug/L		101	1 - 227
trans-1,3-Dichloropropene	ND		4000	3920		ug/L		98	17 - 183

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122955-1 MS
Matrix: Water
Analysis Batch: 373302

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	1900		4000	5890		ug/L		99	37 - 162
Methylene Chloride	ND		4000	4330		ug/L		108	1 - 221
1,1,2,2-Tetrachloroethane	ND		4000	4000		ug/L		100	46 - 157
Tetrachloroethene	ND		4000	4180		ug/L		104	64 - 148
Toluene	ND		4000	4310		ug/L		108	47 - 150
1,1,1-Trichloroethane	ND		4000	3880		ug/L		97	52 - 162
1,1,2-Trichloroethane	ND		4000	4110		ug/L		103	52 - 150
Trichloroethene	ND		4000	3990		ug/L		100	71 - 157
Vinyl chloride	ND		4000	4530		ug/L		113	1 - 251
1,2-Dichlorobenzene	ND		4000	3960		ug/L		99	18 - 190
1,3-Dichlorobenzene	ND		4000	4070		ug/L		102	59 - 156
1,4-Dichlorobenzene	ND		4000	4180		ug/L		105	18 - 190

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*
Toluene-d8 (Surr)	*102*		*77 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: 480-122955-1 MSD
Matrix: Water
Analysis Batch: 373302

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	8300		4000	11500		ug/L		81	37 - 151	6	15
Dichlorobromomethane	ND		4000	4110		ug/L		103	35 - 155	2	15
Bromoform	ND		4000	3660		ug/L		92	45 - 169	3	15
Bromomethane	ND		4000	4200		ug/L		105	1 - 242	1	15
Carbon tetrachloride	ND		4000	3900		ug/L		98	70 - 140	3	15
Chlorobenzene	ND		4000	3960		ug/L		99	37 - 160	3	15
Chloroethane	ND		4000	4140		ug/L		104	14 - 230	1	15
2-Chloroethyl vinyl ether	ND		4000	3780	J	ug/L		95	1 - 305	4	15
Chloroform	ND		4000	4000		ug/L		100	51 - 138	3	15
Chloromethane	ND		4000	3750		ug/L		94	1 - 273	11	15
Chlorodibromomethane	ND		4000	3760		ug/L		94	53 - 149	3	15
1,1-Dichloroethane	ND		4000	4070		ug/L		102	59 - 155	7	15
1,2-Dichloroethane	ND		4000	4040		ug/L		101	49 - 155	1	15
1,1-Dichloroethene	ND		4000	3930		ug/L		98	1 - 234	7	15
trans-1,2-Dichloroethene	ND		4000	4180		ug/L		104	54 - 156	5	15
1,2-Dichloropropane	ND		4000	4130		ug/L		103	1 - 210	1	15
cis-1,3-Dichloropropene	ND		4000	4030		ug/L		101	1 - 227	0	15
trans-1,3-Dichloropropene	ND		4000	3630		ug/L		91	17 - 183	8	15
Ethylbenzene	1900		4000	5760		ug/L		96	37 - 162	2	15
Methylene Chloride	ND		4000	4080		ug/L		102	1 - 221	6	15
1,1,2,2-Tetrachloroethane	ND		4000	4050		ug/L		101	46 - 157	1	15
Tetrachloroethene	ND		4000	3970		ug/L		99	64 - 148	5	15
Toluene	ND		4000	4100		ug/L		103	47 - 150	5	15
1,1,1-Trichloroethane	ND		4000	3900		ug/L		97	52 - 162	0	15

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-122955-1 MSD
Matrix: Water
Analysis Batch: 373302

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		4000	4080		ug/L		102	52 - 150	1	15
Trichloroethene	ND		4000	3790		ug/L		95	71 - 157	5	15
Vinyl chloride	ND		4000	4270		ug/L		107	1 - 251	6	15
1,2-Dichlorobenzene	ND		4000	4030		ug/L		101	18 - 190	2	15
1,3-Dichlorobenzene	ND		4000	3970		ug/L		99	59 - 156	3	15
1,4-Dichlorobenzene	ND		4000	4190		ug/L		105	18 - 190	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*
Toluene-d8 (Surr)	*93*		*77 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-373029/1-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.81	ug/L		08/21/17 08:04	08/30/17 12:17	1
Acenaphthylene	ND		5.0	0.87	ug/L		08/21/17 08:04	08/30/17 12:17	1
Anthracene	ND		5.0	1.4	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzidine	ND		80	35	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		08/21/17 08:04	08/30/17 12:17	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		08/21/17 08:04	08/30/17 12:17	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		08/21/17 08:04	08/30/17 12:17	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		08/21/17 08:04	08/30/17 12:17	1
bis (2-chloroisopropyl) ether	ND		5.0	0.84	ug/L		08/21/17 08:04	08/30/17 12:17	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		08/21/17 08:04	08/30/17 12:17	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		08/21/17 08:04	08/30/17 12:17	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		08/21/17 08:04	08/30/17 12:17	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		08/21/17 08:04	08/30/17 12:17	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		08/21/17 08:04	08/30/17 12:17	1
Chrysene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		08/21/17 08:04	08/30/17 12:17	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		08/21/17 08:04	08/30/17 12:17	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		08/21/17 08:04	08/30/17 12:17	1
Diethyl phthalate	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-373029/1-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		08/21/17 08:04	08/30/17 12:17	1
Fluoranthene	ND		5.0	1.6	ug/L		08/21/17 08:04	08/30/17 12:17	1
Fluorene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
Hexachloroethane	ND		5.0	0.60	ug/L		08/21/17 08:04	08/30/17 12:17	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		08/21/17 08:04	08/30/17 12:17	1
Isophorone	ND		5.0	0.74	ug/L		08/21/17 08:04	08/30/17 12:17	1
Naphthalene	2.48	J	5.0	0.86	ug/L		08/21/17 08:04	08/30/17 12:17	1
Nitrobenzene	ND		5.0	0.81	ug/L		08/21/17 08:04	08/30/17 12:17	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		08/21/17 08:04	08/30/17 12:17	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		08/21/17 08:04	08/30/17 12:17	1
Phenanthrene	ND		5.0	1.2	ug/L		08/21/17 08:04	08/30/17 12:17	1
Pyrene	ND		5.0	1.4	ug/L		08/21/17 08:04	08/30/17 12:17	1
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		08/21/17 08:04	08/30/17 12:17	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		08/21/17 08:04	08/30/17 12:17	1
2-Chlorophenol	ND		5.0	0.66	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		08/21/17 08:04	08/30/17 12:17	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		08/21/17 08:04	08/30/17 12:17	1
2-Nitrophenol	ND		5.0	0.70	ug/L		08/21/17 08:04	08/30/17 12:17	1
4-Nitrophenol	ND		15	10	ug/L		08/21/17 08:04	08/30/17 12:17	1
Pentachlorophenol	ND		10	1.6	ug/L		08/21/17 08:04	08/30/17 12:17	1
Phenol	ND		5.0	0.35	ug/L		08/21/17 08:04	08/30/17 12:17	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		08/21/17 08:04	08/30/17 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*52 - 151*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
2-Fluorobiphenyl	*86*		*44 - 120*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
2-Fluorophenol	*48*		*17 - 120*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
Nitrobenzene-d5	*82*		*42 - 120*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
Phenol-d5	*38*		*10 - 120*	*08/21/17 08:04*	*08/30/17 12:17*	*1*
p-Terphenyl-d14	*95*		*22 - 125*	*08/21/17 08:04*	*08/30/17 12:17*	*1*

Lab Sample ID: LCS 480-373029/2-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	42.3		ug/L		85	47 - 145
Acenaphthylene	50.0	43.4		ug/L		87	33 - 145
Anthracene	50.0	48.8		ug/L		98	27 - 133
Benzo[a]anthracene	50.0	50.4		ug/L		101	33 - 143
Benzo[a]pyrene	50.0	48.6		ug/L		97	17 - 163

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-373029/2-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	50.0	50.6		ug/L		101	24 - 159
Benzo[g,h,i]perylene	50.0	54.7		ug/L		109	1 - 219
Benzo[k]fluoranthene	50.0	48.7		ug/L		97	11 - 162
Bis(2-chloroethyl)ether	50.0	39.3		ug/L		79	12 - 158
Bis(2-chloroethoxy)methane	50.0	39.6		ug/L		79	33 - 184
bis (2-chloroisopropyl) ether	50.0	36.8		ug/L		74	36 - 166
Bis(2-ethylhexyl) phthalate	50.0	52.3		ug/L		105	8 - 158
4-Bromophenyl phenyl ether	50.0	48.3		ug/L		97	53 - 127
Butyl benzyl phthalate	50.0	52.2		ug/L		104	1 - 152
2-Chloronaphthalene	50.0	40.2		ug/L		80	60 - 118
4-Chlorophenyl phenyl ether	50.0	46.2		ug/L		92	25 - 158
Chrysene	50.0	50.8		ug/L		102	17 - 168
Dibenz(a,h)anthracene	50.0	52.6		ug/L		105	1 - 227
Di-n-butyl phthalate	50.0	50.9		ug/L		102	1 - 118
1,2-Dichlorobenzene	50.0	29.9		ug/L		60	32 - 129
1,3-Dichlorobenzene	50.0	28.5		ug/L		57	1 - 172
1,4-Dichlorobenzene	50.0	31.0		ug/L		62	20 - 124
3,3'-Dichlorobenzidine	100	101		ug/L		101	1 - 262
Diethyl phthalate	50.0	47.7		ug/L		95	1 - 114
Dimethyl phthalate	50.0	47.8		ug/L		96	1 - 112
2,4-Dinitrotoluene	50.0	45.7		ug/L		91	39 - 139
2,6-Dinitrotoluene	50.0	46.9		ug/L		94	50 - 158
Di-n-octyl phthalate	50.0	51.2		ug/L		102	4 - 146
Fluoranthene	50.0	51.3		ug/L		103	26 - 137
Fluorene	50.0	44.4		ug/L		89	59 - 121
Hexachlorobenzene	50.0	47.5		ug/L		95	1 - 152
Hexachlorocyclopentadiene	50.0	27.4		ug/L		55	5 - 120
Hexachloroethane	50.0	24.8		ug/L		50	40 - 113
Indeno[1,2,3-cd]pyrene	50.0	56.0		ug/L		112	1 - 171
Isophorone	50.0	43.4		ug/L		87	21 - 196
Naphthalene	50.0	40.4		ug/L		81	21 - 133
Nitrobenzene	50.0	40.4		ug/L		81	35 - 180
N-Nitrosodi-n-propylamine	50.0	41.3		ug/L		83	1 - 230
N-Nitrosodiphenylamine	50.0	50.1		ug/L		100	54 - 125
Phenanthrene	50.0	51.0		ug/L		102	54 - 120
Pyrene	50.0	51.4		ug/L		103	52 - 115
1,2,4-Trichlorobenzene	50.0	32.1		ug/L		64	44 - 142
4-Chloro-3-methylphenol	50.0	45.5		ug/L		91	22 - 147
2-Chlorophenol	50.0	38.5		ug/L		77	23 - 134
2,4-Dichlorophenol	50.0	43.8		ug/L		88	39 - 135
2,4-Dimethylphenol	50.0	43.1		ug/L		86	32 - 119
2,4-Dinitrophenol	100	97.5		ug/L		98	1 - 191
4,6-Dinitro-2-methylphenol	100	104		ug/L		104	1 - 181
2-Nitrophenol	50.0	42.9		ug/L		86	29 - 182
4-Nitrophenol	100	51.5		ug/L		51	1 - 132
Pentachlorophenol	100	96.0		ug/L		96	14 - 176
Phenol	50.0	19.9		ug/L		40	5 - 112
2,4,6-Trichlorophenol	50.0	47.6		ug/L		95	37 - 144

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-373029/2-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373029

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*52 - 151*
2-Fluorobiphenyl	*83*		*44 - 120*
2-Fluorophenol	*47*		*17 - 120*
Nitrobenzene-d5	*83*		*42 - 120*
Phenol-d5	*36*		*10 - 120*
p-Terphenyl-d14	*97*		*22 - 125*

Lab Sample ID: LCSD 480-373029/3-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373029

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			50.0	45.2		ug/L		90	47 - 145	7	25
Acenaphthylene			50.0	44.5		ug/L		89	33 - 145	2	22
Anthracene			50.0	52.0		ug/L		104	27 - 133	6	15
Benzo[a]anthracene			50.0	51.2		ug/L		102	33 - 143	2	15
Benzo[a]pyrene			50.0	49.7		ug/L		99	17 - 163	2	15
Benzo[b]fluoranthene			50.0	50.8		ug/L		102	24 - 159	0	17
Benzo[g,h,i]perylene			50.0	56.5		ug/L		113	1 - 219	3	19
Benzo[k]fluoranthene			50.0	49.7		ug/L		99	11 - 162	2	19
Bis(2-chloroethyl)ether			50.0	40.0		ug/L		80	12 - 158	2	33
Bis(2-chloroethoxy)methane			50.0	42.8		ug/L		86	33 - 184	8	23
bis (2-chloroisopropyl) ether			50.0	38.2		ug/L		76	36 - 166	4	36
Bis(2-ethylhexyl) phthalate			50.0	53.3		ug/L		107	8 - 158	2	15
4-Bromophenyl phenyl ether			50.0	49.9		ug/L		100	53 - 127	3	16
Butyl benzyl phthalate			50.0	52.3		ug/L		105	1 - 152	0	15
2-Chloronaphthalene			50.0	42.6		ug/L		85	60 - 118	6	30
4-Chlorophenyl phenyl ether			50.0	49.0		ug/L		98	25 - 158	6	15
Chrysene			50.0	50.9		ug/L		102	17 - 168	0	15
Dibenz(a,h)anthracene			50.0	54.1		ug/L		108	1 - 227	3	18
Di-n-butyl phthalate			50.0	50.9		ug/L		102	1 - 118	0	15
1,2-Dichlorobenzene			50.0	33.0		ug/L		66	32 - 129	10	38
1,3-Dichlorobenzene			50.0	29.8		ug/L		60	1 - 172	4	37
1,4-Dichlorobenzene			50.0	31.4		ug/L		63	20 - 124	1	40
3,3'-Dichlorobenzidine			100	103		ug/L		103	1 - 262	1	31
Diethyl phthalate			50.0	50.4		ug/L		101	1 - 114	6	15
Dimethyl phthalate			50.0	50.7		ug/L		101	1 - 112	6	15
2,4-Dinitrotoluene			50.0	49.1		ug/L		98	39 - 139	7	20
2,6-Dinitrotoluene			50.0	50.5		ug/L		101	50 - 158	7	17
Di-n-octyl phthalate			50.0	52.2		ug/L		104	4 - 146	2	15
Fluoranthene			50.0	52.2		ug/L		104	26 - 137	2	15
Fluorene			50.0	48.0		ug/L		96	59 - 121	8	18
Hexachlorobenzene			50.0	49.6		ug/L		99	1 - 152	4	15
Hexachlorocyclopentadiene			50.0	29.9		ug/L		60	5 - 120	8	50
Hexachloroethane			50.0	26.9		ug/L		54	40 - 113	8	43
Indeno[1,2,3-cd]pyrene			50.0	57.4		ug/L		115	1 - 171	2	17
Isophorone			50.0	45.5		ug/L		91	21 - 196	5	21
Naphthalene			50.0	41.2		ug/L		82	21 - 133	2	31

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-373029/3-A
Matrix: Water
Analysis Batch: 374433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373029

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrobenzene			50.0	43.3		ug/L		87	35 - 180	7	27
N-Nitrosodi-n-propylamine			50.0	41.8		ug/L		84	1 - 230	1	23
N-Nitrosodiphenylamine			50.0	51.7		ug/L		103	54 - 125	3	15
Phenanthrene			50.0	51.5		ug/L		103	54 - 120	1	16
Pyrene			50.0	52.7		ug/L		105	52 - 115	2	15
1,2,4-Trichlorobenzene			50.0	35.2		ug/L		70	44 - 142	9	34
4-Chloro-3-methylphenol			50.0	46.9		ug/L		94	22 - 147	3	16
2-Chlorophenol			50.0	39.7		ug/L		79	23 - 134	3	26
2,4-Dichlorophenol			50.0	46.5		ug/L		93	39 - 135	6	23
2,4-Dimethylphenol			50.0	43.7		ug/L		87	32 - 119	1	18
2,4-Dinitrophenol			100	103		ug/L		103	1 - 191	6	29
4,6-Dinitro-2-methylphenol			100	104		ug/L		104	1 - 181	0	30
2-Nitrophenol			50.0	45.8		ug/L		92	29 - 182	6	28
4-Nitrophenol			100	58.3		ug/L		58	1 - 132	12	24
Pentachlorophenol			100	92.0		ug/L		92	14 - 176	4	21
Phenol			50.0	20.5		ug/L		41	5 - 112	3	36
2,4,6-Trichlorophenol			50.0	51.0		ug/L		102	37 - 144	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*96*		*52 - 151*
2-Fluorobiphenyl	*88*		*44 - 120*
2-Fluorophenol	*52*		*17 - 120*
Nitrobenzene-d5	*85*		*42 - 120*
Phenol-d5	*37*		*10 - 120*
p-Terphenyl-d14	*95*		*22 - 125*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-373432/1-A
Matrix: Water
Analysis Batch: 373773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		08/23/17 07:32	08/24/17 15:02	1
alpha-BHC	ND		0.050	0.0077	ug/L		08/23/17 07:32	08/24/17 15:02	1
beta-BHC	ND		0.050	0.025	ug/L		08/23/17 07:32	08/24/17 15:02	1
delta-BHC	ND		0.050	0.010	ug/L		08/23/17 07:32	08/24/17 15:02	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		08/23/17 07:32	08/24/17 15:02	1
Chlordane (technical)	ND		0.50	0.29	ug/L		08/23/17 07:32	08/24/17 15:02	1
4,4'-DDD	ND		0.050	0.0092	ug/L		08/23/17 07:32	08/24/17 15:02	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/23/17 07:32	08/24/17 15:02	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/23/17 07:32	08/24/17 15:02	1
Dieldrin	ND		0.050	0.0098	ug/L		08/23/17 07:32	08/24/17 15:02	1
Endosulfan I	ND		0.050	0.011	ug/L		08/23/17 07:32	08/24/17 15:02	1
Endosulfan II	ND		0.050	0.012	ug/L		08/23/17 07:32	08/24/17 15:02	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/23/17 07:32	08/24/17 15:02	1
Endrin	ND		0.050	0.014	ug/L		08/23/17 07:32	08/24/17 15:02	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/23/17 07:32	08/24/17 15:02	1

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: MB 480-373432/1-A
Matrix: Water
Analysis Batch: 373773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.050	0.0085	ug/L		08/23/17 07:32	08/24/17 15:02	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/23/17 07:32	08/24/17 15:02	1
Toxaphene	ND		0.50	0.12	ug/L		08/23/17 07:32	08/24/17 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*23 - 120*	*08/23/17 07:32*	*08/24/17 15:02*	*1*
DCB Decachlorobiphenyl	*77*		*23 - 120*	*08/23/17 07:32*	*08/24/17 15:02*	*1*
Tetrachloro-m-xylene	*92*		*44 - 120*	*08/23/17 07:32*	*08/24/17 15:02*	*1*
Tetrachloro-m-xylene	*78*		*44 - 120*	*08/23/17 07:32*	*08/24/17 15:02*	*1*

Lab Sample ID: LCS 480-373432/2-A
Matrix: Water
Analysis Batch: 373773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373432

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aldrin			0.500	0.375		ug/L		75	40 - 125		
alpha-BHC			0.500	0.411		ug/L		82	52 - 125		
beta-BHC			0.500	0.456		ug/L		91	52 - 120		
delta-BHC			0.500	0.478		ug/L		96	51 - 120		
gamma-BHC (Lindane)			0.500	0.459		ug/L		92	56 - 120		
4,4'-DDD			0.500	0.537		ug/L		107	64 - 129		
4,4'-DDE			0.500	0.492		ug/L		98	50 - 120		
4,4'-DDT			0.500	0.553		ug/L		111	59 - 120		
Dieldrin			0.500	0.546		ug/L		109	66 - 128		
Endosulfan I			0.500	0.478		ug/L		96	57 - 120		
Endosulfan II			0.500	0.503		ug/L		101	66 - 131		
Endosulfan sulfate			0.500	0.574		ug/L		115	66 - 131		
Endrin			0.500	0.554		ug/L		111	65 - 135		
Endrin aldehyde			0.500	0.382		ug/L		76	61 - 134		
Heptachlor			0.500	0.496		ug/L		99	58 - 120		
Heptachlor epoxide			0.500	0.521		ug/L		104	65 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*23 - 120*
DCB Decachlorobiphenyl	*73*		*23 - 120*
Tetrachloro-m-xylene	*88*		*44 - 120*
Tetrachloro-m-xylene	*76*		*44 - 120*

Lab Sample ID: LCSD 480-373432/3-A
Matrix: Water
Analysis Batch: 373773

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			0.500	0.430		ug/L		86	40 - 125	14	50
alpha-BHC			0.500	0.434		ug/L		87	52 - 125	5	50
beta-BHC			0.500	0.472		ug/L		94	52 - 120	3	50
delta-BHC			0.500	0.489		ug/L		98	51 - 120	2	50
gamma-BHC (Lindane)			0.500	0.473		ug/L		95	56 - 120	3	50

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCSD 480-373432/3-A
Matrix: Water
Analysis Batch: 373773

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.500	0.549		ug/L		110	64 - 129	2	50
4,4'-DDE			0.500	0.508		ug/L		102	50 - 120	3	50
4,4'-DDT			0.500	0.561		ug/L		112	59 - 120	1	50
Dieldrin			0.500	0.560		ug/L		112	66 - 128	2	50
Endosulfan I			0.500	0.481		ug/L		96	57 - 120	1	50
Endosulfan II			0.500	0.508		ug/L		102	66 - 131	1	50
Endosulfan sulfate			0.500	0.586		ug/L		117	66 - 131	2	50
Endrin			0.500	0.565		ug/L		113	65 - 135	2	50
Endrin aldehyde			0.500	0.400		ug/L		80	61 - 134	5	50
Heptachlor			0.500	0.511		ug/L		102	58 - 120	3	50
Heptachlor epoxide			0.500	0.538		ug/L		108	65 - 125	3	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*23 - 120*
DCB Decachlorobiphenyl	*76*		*23 - 120*
Tetrachloro-m-xylene	*91*		*44 - 120*
Tetrachloro-m-xylene	*82*		*44 - 120*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-373154/1-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 19:36	1
PCB-1221	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 19:36	1
PCB-1232	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 19:36	1
PCB-1242	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 19:36	1
PCB-1248	ND		0.060	0.038	ug/L		08/21/17 14:23	08/23/17 19:36	1
PCB-1254	ND		0.060	0.031	ug/L		08/21/17 14:23	08/23/17 19:36	1
PCB-1260	ND		0.060	0.031	ug/L		08/21/17 14:23	08/23/17 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*36 - 121*	*08/21/17 14:23*	*08/23/17 19:36*	*1*
DCB Decachlorobiphenyl	*57*		*36 - 121*	*08/21/17 14:23*	*08/23/17 19:36*	*1*
Tetrachloro-m-xylene	*114*		*42 - 135*	*08/21/17 14:23*	*08/23/17 19:36*	*1*
Tetrachloro-m-xylene	*91*		*42 - 135*	*08/21/17 14:23*	*08/23/17 19:36*	*1*

Lab Sample ID: LCS 480-373154/2-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373154

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			1.00	1.33	*	ug/L		133	69 - 123
PCB-1260			1.00	1.14		ug/L		114	69 - 120

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 480-373154/2-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373154

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*36 - 121*
DCB Decachlorobiphenyl	*60*		*36 - 121*
Tetrachloro-m-xylene	*113*		*42 - 135*
Tetrachloro-m-xylene	*93*		*42 - 135*

Lab Sample ID: LCSD 480-373154/3-A
Matrix: Water
Analysis Batch: 373562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373154

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.00	1.15		ug/L		115	69 - 123	15	30
PCB-1260			1.00	1.01		ug/L		101	69 - 120	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*36 - 121*
DCB Decachlorobiphenyl	*57*		*36 - 121*
Tetrachloro-m-xylene	*113*		*42 - 135*
Tetrachloro-m-xylene	*87*		*42 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-373168/1-A
Matrix: Water
Analysis Batch: 373447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/22/17 07:36	08/23/17 00:56	1
Antimony	ND		0.020	0.0068	mg/L		08/22/17 07:36	08/23/17 00:56	1
Arsenic	ND		0.015	0.0056	mg/L		08/22/17 07:36	08/23/17 00:56	1
Barium	ND		0.0020	0.00070	mg/L		08/22/17 07:36	08/23/17 00:56	1
Beryllium	ND		0.0020	0.00030	mg/L		08/22/17 07:36	08/23/17 00:56	1
Cadmium	ND		0.0020	0.00050	mg/L		08/22/17 07:36	08/23/17 00:56	1
Calcium	ND		0.50	0.10	mg/L		08/22/17 07:36	08/23/17 00:56	1
Chromium	ND		0.0040	0.0010	mg/L		08/22/17 07:36	08/23/17 00:56	1
Cobalt	ND		0.0040	0.00063	mg/L		08/22/17 07:36	08/23/17 00:56	1
Copper	ND		0.010	0.0016	mg/L		08/22/17 07:36	08/23/17 00:56	1
Iron	ND		0.050	0.019	mg/L		08/22/17 07:36	08/23/17 00:56	1
Lead	ND		0.010	0.0030	mg/L		08/22/17 07:36	08/23/17 00:56	1
Magnesium	ND		0.20	0.043	mg/L		08/22/17 07:36	08/23/17 00:56	1
Manganese	0.00452		0.0030	0.00040	mg/L		08/22/17 07:36	08/23/17 00:56	1
Nickel	ND		0.010	0.0013	mg/L		08/22/17 07:36	08/23/17 00:56	1
Potassium	ND		0.50	0.10	mg/L		08/22/17 07:36	08/23/17 00:56	1
Selenium	ND		0.025	0.0087	mg/L		08/22/17 07:36	08/23/17 00:56	1
Silver	ND		0.0060	0.0017	mg/L		08/22/17 07:36	08/23/17 00:56	1
Sodium	ND		1.0	0.32	mg/L		08/22/17 07:36	08/23/17 00:56	1
Thallium	ND		0.020	0.010	mg/L		08/22/17 07:36	08/23/17 00:56	1
Vanadium	ND		0.0050	0.0015	mg/L		08/22/17 07:36	08/23/17 00:56	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-373168/1-A
Matrix: Water
Analysis Batch: 373447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		08/22/17 07:36	08/23/17 00:56	1

Lab Sample ID: LCS 480-373168/2-A
Matrix: Water
Analysis Batch: 373447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.45		mg/L		104	80 - 120
Antimony	0.200	0.208		mg/L		104	80 - 120
Arsenic	0.200	0.210		mg/L		105	80 - 120
Barium	0.200	0.214		mg/L		107	80 - 120
Beryllium	0.200	0.210		mg/L		105	80 - 120
Cadmium	0.200	0.211		mg/L		106	80 - 120
Calcium	10.0	10.46		mg/L		105	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.200	0.200		mg/L		100	80 - 120
Copper	0.200	0.208		mg/L		104	80 - 120
Iron	10.0	10.69		mg/L		107	80 - 120
Lead	0.200	0.211		mg/L		106	80 - 120
Magnesium	10.0	10.71		mg/L		107	80 - 120
Manganese	0.200	0.221		mg/L		110	80 - 120
Nickel	0.200	0.205		mg/L		102	80 - 120
Potassium	10.0	10.36		mg/L		104	80 - 120
Selenium	0.200	0.202		mg/L		101	80 - 120
Silver	0.0500	0.0506		mg/L		101	80 - 120
Sodium	10.0	10.50		mg/L		105	80 - 120
Thallium	0.200	0.203		mg/L		102	80 - 120
Vanadium	0.200	0.218		mg/L		109	80 - 120
Zinc	0.200	0.217		mg/L		108	80 - 120

Lab Sample ID: MB 480-373110/1-D
Matrix: Water
Analysis Batch: 373682

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/23/17 07:04	08/23/17 21:30	1
Antimony	ND		0.020	0.0068	mg/L		08/23/17 07:04	08/23/17 21:30	1
Arsenic	ND		0.015	0.0056	mg/L		08/23/17 07:04	08/23/17 21:30	1
Barium	ND		0.0020	0.00070	mg/L		08/23/17 07:04	08/23/17 21:30	1
Beryllium	ND		0.0020	0.00030	mg/L		08/23/17 07:04	08/23/17 21:30	1
Cadmium	ND		0.0020	0.00050	mg/L		08/23/17 07:04	08/23/17 21:30	1
Calcium	ND		0.50	0.10	mg/L		08/23/17 07:04	08/23/17 21:30	1
Chromium	ND		0.0040	0.0010	mg/L		08/23/17 07:04	08/23/17 21:30	1
Cobalt	ND		0.0040	0.00063	mg/L		08/23/17 07:04	08/23/17 21:30	1
Copper	ND		0.010	0.0016	mg/L		08/23/17 07:04	08/23/17 21:30	1
Iron	ND		0.050	0.019	mg/L		08/23/17 07:04	08/23/17 21:30	1
Lead	ND		0.010	0.0030	mg/L		08/23/17 07:04	08/23/17 21:30	1
Magnesium	ND		0.20	0.043	mg/L		08/23/17 07:04	08/23/17 21:30	1
Manganese	0.00184	J	0.0030	0.00040	mg/L		08/23/17 07:04	08/23/17 21:30	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-373110/1-D
Matrix: Water
Analysis Batch: 373682

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.010	0.0013	mg/L		08/23/17 07:04	08/23/17 21:30	1
Potassium	ND		0.50	0.10	mg/L		08/23/17 07:04	08/23/17 21:30	1
Selenium	ND		0.025	0.0087	mg/L		08/23/17 07:04	08/23/17 21:30	1
Silver	ND		0.0060	0.0017	mg/L		08/23/17 07:04	08/23/17 21:30	1
Sodium	ND		1.0	0.32	mg/L		08/23/17 07:04	08/23/17 21:30	1
Thallium	ND		0.020	0.010	mg/L		08/23/17 07:04	08/23/17 21:30	1
Vanadium	ND		0.0050	0.0015	mg/L		08/23/17 07:04	08/23/17 21:30	1
Zinc	0.00464	J	0.010	0.0015	mg/L		08/23/17 07:04	08/23/17 21:30	1

Lab Sample ID: LCS 480-373110/2-B
Matrix: Water
Analysis Batch: 373682

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 373359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.66		mg/L		97	80 - 120
Antimony	0.200	0.194		mg/L		97	80 - 120
Arsenic	0.200	0.197		mg/L		98	80 - 120
Barium	0.200	0.197		mg/L		99	80 - 120
Beryllium	0.200	0.199		mg/L		99	80 - 120
Cadmium	0.200	0.195		mg/L		98	80 - 120
Calcium	10.0	9.81		mg/L		98	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.200	0.187		mg/L		94	80 - 120
Copper	0.200	0.195		mg/L		97	80 - 120
Iron	10.0	10.20		mg/L		102	80 - 120
Lead	0.200	0.196		mg/L		98	80 - 120
Magnesium	10.0	9.85		mg/L		98	80 - 120
Manganese	0.200	0.205		mg/L		102	80 - 120
Nickel	0.200	0.189		mg/L		94	80 - 120
Potassium	10.0	9.96		mg/L		100	80 - 120
Selenium	0.200	0.193		mg/L		97	80 - 120
Silver	0.0500	0.0460		mg/L		92	80 - 120
Sodium	10.0	9.73		mg/L		97	80 - 120
Thallium	0.200	0.193		mg/L		97	80 - 120
Vanadium	0.200	0.197		mg/L		99	80 - 120
Zinc	0.200	0.199		mg/L		100	80 - 120

Lab Sample ID: 480-122955-1 MS
Matrix: Water
Analysis Batch: 373682

Client Sample ID: MW-14
Prep Type: Dissolved
Prep Batch: 373359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.99		mg/L		100	75 - 125
Antimony	ND		0.200	0.206		mg/L		103	75 - 125
Arsenic	0.0087	J	0.200	0.222		mg/L		107	75 - 125
Barium	3.0		0.200	3.29	4	mg/L		140	75 - 125
Beryllium	ND		0.200	0.203		mg/L		102	75 - 125
Cadmium	ND		0.200	0.209		mg/L		104	75 - 125
Calcium	300		10.0	315.1	4	mg/L		153	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-122955-1 MS
Matrix: Water
Analysis Batch: 373682

Client Sample ID: MW-14
Prep Type: Dissolved
Prep Batch: 373359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		0.200	0.192		mg/L		96	75 - 125
Cobalt	ND		0.200	0.201		mg/L		100	75 - 125
Copper	ND		0.200	0.204		mg/L		102	75 - 125
Iron	0.25		10.0	10.33		mg/L		101	75 - 125
Lead	0.0045	J	0.200	0.214		mg/L		105	75 - 125
Magnesium	56.4		10.0	67.41	4	mg/L		111	75 - 125
Manganese	10.9	B	0.200	11.39	4	mg/L		230	75 - 125
Nickel	ND		0.200	0.201		mg/L		101	75 - 125
Potassium	11.6		10.0	22.34		mg/L		108	75 - 125
Selenium	ND		0.200	0.190		mg/L		95	75 - 125
Silver	ND		0.0500	0.0508		mg/L		102	75 - 125
Sodium	514	^	10.0	538.4	4 ^	mg/L		247	75 - 125
Thallium	ND		0.200	0.197		mg/L		99	75 - 125
Vanadium	ND		0.200	0.201		mg/L		100	75 - 125
Zinc	0.0097	J B	0.200	0.200		mg/L		95	75 - 125

Lab Sample ID: 480-122955-1 MSD
Matrix: Water
Analysis Batch: 373682

Client Sample ID: MW-14
Prep Type: Dissolved
Prep Batch: 373359

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	10.01		mg/L		100	75 - 125	0	20
Antimony	ND		0.200	0.206		mg/L		103	75 - 125	0	20
Arsenic	0.0087	J	0.200	0.224		mg/L		108	75 - 125	1	20
Barium	3.0		0.200	3.18	4	mg/L		83	75 - 125	4	20
Beryllium	ND		0.200	0.203		mg/L		101	75 - 125	0	20
Cadmium	ND		0.200	0.208		mg/L		104	75 - 125	0	20
Calcium	300		10.0	302.0	4	mg/L		23	75 - 125	4	20
Chromium	ND		0.200	0.190		mg/L		95	75 - 125	1	20
Cobalt	ND		0.200	0.201		mg/L		100	75 - 125	0	20
Copper	ND		0.200	0.205		mg/L		102	75 - 125	1	20
Iron	0.25		10.0	10.31		mg/L		101	75 - 125	0	20
Lead	0.0045	J	0.200	0.212		mg/L		104	75 - 125	1	20
Magnesium	56.4		10.0	65.30	4	mg/L		89	75 - 125	3	20
Manganese	10.9	B	0.200	10.95	4	mg/L		13	75 - 125	4	20
Nickel	ND		0.200	0.199		mg/L		100	75 - 125	1	20
Potassium	11.6		10.0	21.81		mg/L		102	75 - 125	2	20
Selenium	ND		0.200	0.196		mg/L		98	75 - 125	3	20
Silver	ND		0.0500	0.0510		mg/L		102	75 - 125	1	20
Sodium	514	^	10.0	523.0	4 ^	mg/L		93	75 - 125	3	20
Thallium	ND		0.200	0.193		mg/L		96	75 - 125	2	20
Vanadium	ND		0.200	0.199		mg/L		99	75 - 125	1	20
Zinc	0.0097	J B	0.200	0.202		mg/L		96	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-373071/1-A
Matrix: Water
Analysis Batch: 373160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/21/17 09:30	08/21/17 12:37	1

Lab Sample ID: LCS 480-373071/2-A
Matrix: Water
Analysis Batch: 373160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00612		mg/L		92	80 - 120

Lab Sample ID: MB 480-373110/1-C
Matrix: Water
Analysis Batch: 373591

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 373460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/23/17 09:20	08/23/17 14:38	1

Lab Sample ID: LCS 480-373110/2-D
Matrix: Water
Analysis Batch: 373591

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 373460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00585		mg/L		88	80 - 120

Lab Sample ID: 480-122955-1 MS
Matrix: Water
Analysis Batch: 373591

Client Sample ID: MW-14
Prep Type: Dissolved
Prep Batch: 373460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00597		mg/L		89	80 - 120

Lab Sample ID: 480-122955-1 MSD
Matrix: Water
Analysis Batch: 373591

Client Sample ID: MW-14
Prep Type: Dissolved
Prep Batch: 373460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00587		mg/L		88	80 - 120	2	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-373732/1-A
Matrix: Water
Analysis Batch: 373810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		08/24/17 10:57	08/24/17 10:57	1
SGT-HEM	ND		5.0	1.9	mg/L		08/24/17 10:57	08/24/17 10:57	1

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 480-373732/2-A
Matrix: Water
Analysis Batch: 373810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	39.9	36.09		mg/L		90	78 - 114
SGT-HEM	19.9	18.34		mg/L		92	64 - 132

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-373210/1-A
Matrix: Water
Analysis Batch: 373371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		08/22/17 03:57	08/22/17 12:02	1

Lab Sample ID: LCS 480-373210/2-A
Matrix: Water
Analysis Batch: 373371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.29		mg/L		92	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-373203/27
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/21/17 17:54	1

Lab Sample ID: MB 480-373203/3
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/21/17 17:54	1

Lab Sample ID: MB 480-373203/51
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			08/21/17 17:54	1

Lab Sample ID: LCS 480-373203/28
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.74		mg/L		95	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-373203/4
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.69		mg/L		99	90 - 110

Lab Sample ID: LCS 480-373203/52
Matrix: Water
Analysis Batch: 373203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.69		mg/L		99	90 - 110

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-373439/1-A
Matrix: Water
Analysis Batch: 373564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	ND		0.010	0.0050	mg/L		08/23/17 03:25	08/23/17 12:16	1

Lab Sample ID: LCS 480-373439/2-A
Matrix: Water
Analysis Batch: 373564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide	0.400	0.398		mg/L		100	90 - 110

Lab Sample ID: LCS 480-373439/3-A
Matrix: Water
Analysis Batch: 373564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide	0.250	0.256		mg/L		102	90 - 110

Lab Sample ID: MB 480-374087/1-A
Matrix: Water
Analysis Batch: 374109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	ND		0.010	0.0050	mg/L		08/26/17 10:56	08/27/17 12:30	1

Lab Sample ID: LCS 480-374087/2-A
Matrix: Water
Analysis Batch: 374109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide	0.250	0.252		mg/L		101	90 - 110

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-374036/3
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.0	0.53	mg/L			08/25/17 05:20	1

Lab Sample ID: LCS 480-374036/4
Matrix: Water
Analysis Batch: 374036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	213	224.0		mg/L		105	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-373209/1
Matrix: Water
Analysis Batch: 373209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/22/17 03:12	1

Lab Sample ID: LCS 480-373209/2
Matrix: Water
Analysis Batch: 373209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	516	494.0		mg/L		96	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-373252/1
Matrix: Water
Analysis Batch: 373252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/22/17 09:00	1

Lab Sample ID: LCS 480-373252/2
Matrix: Water
Analysis Batch: 373252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	256	249.6		mg/L		97	88 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-372988/1
Matrix: Water
Analysis Batch: 372988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/19/17 11:33	1

Lab Sample ID: LCS 480-372988/2
Matrix: Water
Analysis Batch: 372988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Biochemical Oxygen Demand			198	197.9		mg/L		100	85 - 115		

Lab Sample ID: USB 480-372989/1
Matrix: Water
Analysis Batch: 372989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/19/17 11:33	1

Lab Sample ID: LCS 480-372989/2
Matrix: Water
Analysis Batch: 372989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Carbonaceous Biochemical Oxygen Demand			198	190.0		mg/L		96	85 - 115		

Lab Sample ID: 480-122955-1 DU
Matrix: Water
Analysis Batch: 372989

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	15.7	b		9.57	F5	mg/L				49	20

GC/MS VOA

Analysis Batch: 373105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	624	
MB 480-373105/16	Method Blank	Total/NA	Water	624	
LCS 480-373105/14	Lab Control Sample	Total/NA	Water	624	

Analysis Batch: 373302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1 - DL	MW-14	Total/NA	Water	624	
MB 480-373302/16	Method Blank	Total/NA	Water	624	
LCS 480-373302/14	Lab Control Sample	Total/NA	Water	624	
480-122955-1 MS	MW-14	Total/NA	Water	624	
480-122955-1 MSD	MW-14	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 373029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	625	
480-122955-1 - DL	MW-14	Total/NA	Water	625	
MB 480-373029/1-A	Method Blank	Total/NA	Water	625	
LCS 480-373029/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-373029/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 374433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	625	373029
480-122955-1 - DL	MW-14	Total/NA	Water	625	373029
MB 480-373029/1-A	Method Blank	Total/NA	Water	625	373029
LCS 480-373029/2-A	Lab Control Sample	Total/NA	Water	625	373029
LCSD 480-373029/3-A	Lab Control Sample Dup	Total/NA	Water	625	373029

GC Semi VOA

Prep Batch: 373154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	3510C	
MB 480-373154/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-373154/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-373154/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 373432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	3510C	
MB 480-373432/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-373432/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-373432/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 373562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	608	373154
MB 480-373154/1-A	Method Blank	Total/NA	Water	608	373154

GC Semi VOA (Continued)

Analysis Batch: 373562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-373154/2-A	Lab Control Sample	Total/NA	Water	608	373154
LCSD 480-373154/3-A	Lab Control Sample Dup	Total/NA	Water	608	373154

Analysis Batch: 373773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	608	373432
MB 480-373432/1-A	Method Blank	Total/NA	Water	608	373432
LCS 480-373432/2-A	Lab Control Sample	Total/NA	Water	608	373432
LCSD 480-373432/3-A	Lab Control Sample Dup	Total/NA	Water	608	373432

Metals

Prep Batch: 373071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	7470A	
MB 480-373071/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-373071/2-A	Lab Control Sample	Total/NA	Water	7470A	

Filtration Batch: 373110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Dissolved	Water	FILTRATION	
MB 480-373110/1-C	Method Blank	Dissolved	Water	FILTRATION	
MB 480-373110/1-D	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-373110/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-373110/2-D	Lab Control Sample	Dissolved	Water	FILTRATION	
480-122955-1 MS	MW-14	Dissolved	Water	FILTRATION	
480-122955-1 MSD	MW-14	Dissolved	Water	FILTRATION	

Analysis Batch: 373160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	7470A	373071
MB 480-373071/1-A	Method Blank	Total/NA	Water	7470A	373071
LCS 480-373071/2-A	Lab Control Sample	Total/NA	Water	7470A	373071

Prep Batch: 373168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	3005A	
MB 480-373168/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-373168/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 373359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Dissolved	Water	3005A	373110
MB 480-373110/1-D	Method Blank	Dissolved	Water	3005A	373110
LCS 480-373110/2-B	Lab Control Sample	Dissolved	Water	3005A	373110
480-122955-1 MS	MW-14	Dissolved	Water	3005A	373110
480-122955-1 MSD	MW-14	Dissolved	Water	3005A	373110

Metals (Continued)

Analysis Batch: 373447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	6010C	373168
MB 480-373168/1-A	Method Blank	Total/NA	Water	6010C	373168
LCS 480-373168/2-A	Lab Control Sample	Total/NA	Water	6010C	373168

Prep Batch: 373460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Dissolved	Water	7470A	373110
MB 480-373110/1-C	Method Blank	Dissolved	Water	7470A	373110
LCS 480-373110/2-D	Lab Control Sample	Dissolved	Water	7470A	373110
480-122955-1 MS	MW-14	Dissolved	Water	7470A	373110
480-122955-1 MSD	MW-14	Dissolved	Water	7470A	373110

Analysis Batch: 373591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Dissolved	Water	7470A	373460
MB 480-373110/1-C	Method Blank	Dissolved	Water	7470A	373460
LCS 480-373110/2-D	Lab Control Sample	Dissolved	Water	7470A	373460
480-122955-1 MS	MW-14	Dissolved	Water	7470A	373460
480-122955-1 MSD	MW-14	Dissolved	Water	7470A	373460

Analysis Batch: 373682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Dissolved	Water	6010C	373359
MB 480-373110/1-D	Method Blank	Dissolved	Water	6010C	373359
LCS 480-373110/2-B	Lab Control Sample	Dissolved	Water	6010C	373359
480-122955-1 MS	MW-14	Dissolved	Water	6010C	373359
480-122955-1 MSD	MW-14	Dissolved	Water	6010C	373359

General Chemistry

Analysis Batch: 372988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	SM 5210B	
USB 480-372988/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372988/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 372989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	SM 5210B	
USB 480-372989/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-372989/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-122955-1 DU	MW-14	Total/NA	Water	SM 5210B	

Analysis Batch: 373203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	410.4	
MB 480-373203/27	Method Blank	Total/NA	Water	410.4	
MB 480-373203/3	Method Blank	Total/NA	Water	410.4	
MB 480-373203/51	Method Blank	Total/NA	Water	410.4	
LCS 480-373203/28	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 373203 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-373203/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-373203/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 373205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	9040C	
LCS 480-373205/45	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 373209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	SM 2540C	
MB 480-373209/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-373209/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 373210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	351.2	
MB 480-373210/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-373210/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 373252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	SM 2540D	
MB 480-373252/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-373252/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 373371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	351.2	373210
MB 480-373210/1-A	Method Blank	Total/NA	Water	351.2	373210
LCS 480-373210/2-A	Lab Control Sample	Total/NA	Water	351.2	373210

Prep Batch: 373439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	9012B	
MB 480-373439/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-373439/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-373439/3-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 373564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	9012B	373439
MB 480-373439/1-A	Method Blank	Total/NA	Water	9012B	373439
LCS 480-373439/2-A	Lab Control Sample	Total/NA	Water	9012B	373439
LCS 480-373439/3-A	Lab Control Sample	Total/NA	Water	9012B	373439

Prep Batch: 373732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	1664B	
MB 480-373732/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-373732/2-A	Lab Control Sample	Total/NA	Water	1664B	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Analysis Batch: 373810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	1664B	373732
MB 480-373732/1-A	Method Blank	Total/NA	Water	1664B	373732
LCS 480-373732/2-A	Lab Control Sample	Total/NA	Water	1664B	373732

Analysis Batch: 374036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Total/NA	Water	SM 2340C	
MB 480-374036/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-374036/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Filtration Batch: 374085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Dissolved	Water	Filtration	

Prep Batch: 374087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Dissolved	Water	9012B	374085
MB 480-374087/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-374087/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 374109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122955-1	MW-14	Dissolved	Water	9012B	374087
MB 480-374087/1-A	Method Blank	Total/NA	Water	9012B	374087
LCS 480-374087/2-A	Lab Control Sample	Total/NA	Water	9012B	374087

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Client Sample ID: MW-14

Date Collected: 08/18/17 09:55
Date Received: 08/19/17 01:45

Lab Sample ID: 480-122955-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		20	373105	08/22/17 01:20	RJF	TAL BUF
Total/NA	Analysis	624	DL	200	373302	08/22/17 17:54	RJF	TAL BUF
Total/NA	Prep	625			373029	08/21/17 08:04	JMP	TAL BUF
Total/NA	Analysis	625		20	374433	08/30/17 15:46	PJQ	TAL BUF
Total/NA	Prep	625	DL		373029	08/21/17 08:04	JMP	TAL BUF
Total/NA	Analysis	625	DL	100	374433	08/30/17 20:09	PJQ	TAL BUF
Total/NA	Prep	3510C			373154	08/21/17 14:23	RLT	TAL BUF
Total/NA	Analysis	608		1	373562	08/23/17 22:55	JMO	TAL BUF
Total/NA	Prep	3510C			373432	08/23/17 07:32	JMP	TAL BUF
Total/NA	Analysis	608		1	373773	08/24/17 16:20	MAN	TAL BUF
Dissolved	Filtration	FILTRATION			373110	08/21/17 11:48	EMB	TAL BUF
Dissolved	Prep	3005A			373359	08/23/17 07:04	EMB	TAL BUF
Dissolved	Analysis	6010C		1	373682	08/23/17 22:42	AMH	TAL BUF
Total/NA	Prep	3005A			373168	08/22/17 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	373447	08/23/17 01:46	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			373110	08/21/17 11:48	EMB	TAL BUF
Dissolved	Prep	7470A			373460	08/23/17 09:20	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	373591	08/23/17 14:42	MVZ	TAL BUF
Total/NA	Prep	7470A			373071	08/21/17 09:30	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	373160	08/21/17 12:52	MVZ	TAL BUF
Total/NA	Prep	1664B			373732	08/24/17 10:57	DSC	TAL BUF
Total/NA	Analysis	1664B		1	373810	08/24/17 10:57	DSC	TAL BUF
Total/NA	Prep	351.2			373210	08/22/17 03:57	LAW	TAL BUF
Total/NA	Analysis	351.2		2	373371	08/22/17 13:39	CLT	TAL BUF
Total/NA	Analysis	410.4		1	373203	08/21/17 17:54	CDC	TAL BUF
Dissolved	Filtration	Filtration			374085	08/26/17 10:52	JCL	TAL BUF
Dissolved	Prep	9012B			374087	08/26/17 10:56	JCL	TAL BUF
Dissolved	Analysis	9012B		1	374109	08/27/17 12:59	MDL	TAL BUF
Total/NA	Prep	9012B			373439	08/23/17 03:25	BEV	TAL BUF
Total/NA	Analysis	9012B		2	373564	08/23/17 12:44	MDL	TAL BUF
Total/NA	Analysis	9040C		1	373205	08/21/17 20:43	ALZ	TAL BUF
Total/NA	Analysis	SM 2340C		1	374036	08/25/17 05:20	LAW	TAL BUF
Total/NA	Analysis	SM 2540C		1	373209	08/22/17 03:12	BEV	TAL BUF
Total/NA	Analysis	SM 2540D		1	373252	08/22/17 09:00	EKB	TAL BUF
Total/NA	Analysis	SM 5210B		1	372988	08/19/17 11:33	SSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	372989	08/19/17 11:33	SSS	TAL BUF

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Diphenylhydrazine

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
9040C		Water	pH
9040C		Water	Temperature

Laboratory: EMLab P&K - Houston TCEQ Cert T104704489

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
AIHA-LAP, LLC	EMLAP		193549	01-01-18
Texas	NELAP	6	T104704489-17-10	07-31-18

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
Local Method	General Sub Contract Method	NONE	EMLab Hou

Protocol References:

1664B = 1664B

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab Hou = EMLab P&K - Houston TCEQ Cert T104704489, Subcont.report available upon request, 6310 Rothway, Houston, TX 77040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-122955-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-122955-1	MW-14	Water	08/18/17 09:55	08/19/17 01:45

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Dayo
Re: 480-122955; National Grid - North Albany Project

Date of Sampling: 08/18/2017
Date of Receipt: 08/22/2017
Date of Report: 08/23/2017

Iron Bacteria Presence/Absence Report

Location:	MW-14(480-122955-1)
Comments (see below)	A
Lab ID-Version‡:	8323459-1
Sample Type	Water
Iron Bacteria	**Absent**

Comments: A) Iron bacteria method: SM chapter 9240B., 20th edition.

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122955; National Grid - North Albany Project

Date of Sampling: 08-18-2017
Date of Receipt: 08-22-2017
Date of Report: 09-06-2017

Slime Forming Bacteria Presence/Absence Report

Location:	MW-14(480-122955-1)
Comments (see below)	None
Lab ID-Version‡:	8323460-1
Sample Type	Water
Slime Forming Bacteria	**Absent**

Comments:

Interpretation is left to the company and/or persons who conducted the field work.
‡A "Version" greater than 1 indicates amended data.

EMLab P&K
A TestAmerica Company

Report for:

Melissa Deyo
TestAmerica-Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Regarding: Project: 480-122955; National Grid - North Albany Project
EML ID: 1780770

Approved by:



Technical Manager
Magzoub Ismail

Dates of Analysis:
MPN-Sulfate reducing bacteria: 09-13-2017

Service SOPs: MPN-Sulfate reducing bacteria (EM-BT-S-1059)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Buffalo
C/O: Melissa Deyo
Re: 480-122955; National Grid - North Albany Project

Date of Sampling: 08-18-2017
Date of Receipt: 08-22-2017
Date of Report: 09-22-2017

MPN REPORT

Location: MW-14(480-122955-1) Lab ID-Version‡: 8323463-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	**Method**	**Setup Time**	**MPN*/Unit**	**LCL****	**UCL****
Sulfate-reducing Bacteria	SM 9240 D	08/23/17 15:44	< 3	-	21

Comments:

*MPN - Most Probable Number.
MPN methods:
SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.
FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.
MPN values are calculated using the method of Thomas (1942).
The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, non-clustered, bacteria not attached to particulate matter within a sample. Due to the fact that bacteria can cluster and adhere to materials, values determined by the MPN method should be considered estimates in many instances.
**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM).
Interpretation is left to the company and/or persons who conducted the field work.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501 Rev. Daily

Chain of Custody Record

TestAmericc

480-122955 COC

Client Information	Sampler: Aubrey Thomas	Lab PM: Deyo, Melissa L	COC No: 480-100780-23982.3
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com	Page: Page 3 of 3
Company: ARCADIS U.S. Inc		Analysis Req.	Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:		
City: Clifton Park	TAT Requested (days): Standard		
State, Zip: NY, 12065			
Phone: (518) 250-7300	PO #: B0036648.1401.00006		
Email: Aubrey.Thomas@arcadis.com	WO #:		
Project Name: National Grid - North Albany Project	Project #: 48016528		
Site: National Grid - North Albany	SSOW#:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624_5ml - Priority Pollutant List - VOCs	608_Pest - Priority Pollutant Pesticides	625 - Priority Pollutant List - SVOCs	608_PCB - Priority Pollutant PCBs	9012_ReactivoCN, 9034_Reactive	9040C - pH	1010A - Ignitability	6010C, 7470A	6010C, 7470A	9012B - Cyanide	9012B - Dissolved Cyanide	1664B - O&G	2540D - TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	N	N	D	N	B	N	S	N		
MW-14	8/18/17	0955	G	Water	N	N	3	2	2	2		1		1	1	1	1	2	1		
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

8/18/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/18/17 1600	Arcadis	[signature]	8/18/17 1600	TA
Karl Ladner	8/18/17 1800	TA	[signature]	8-19-17 0145	TA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6, 0.7 #1

9/25/2017

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Avo Lily Thomas	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-100780-23982.4
Client Contact: Aubrey Thomas	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com		Page: Page 4 of 3

Company: ARCADIS U.S. Inc

Address: 855 Route 146 Suite 210
City: Clifton Park
State, Zip: NY, 12065
Phone: (518) 250-7300
Email: Aubrey.Thomas@arcadis.com
Project Name: National Grid - North Albany Project
Site: National Grid - North Albany

Due Date Requested:
TAT Requested (days): Standard
PO #: B0036648.1401.00006
WO #:
Project #: 48016528
SSOW#:

Job #:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	6210B - BOD	351.2, 410.4	2340C - Hardness	SUBCONTRACT - Iron reducing bacteria	SUBCONTRACT - Slime forming bacteria	SUBCONTRACT - Sulfate reduing bacteria	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	D	N	N	N		
MW-14	8/18/17	0955	G	Water	N	N	1	1	1	1	1	1	1		
				Water											
				Water											
				Water											
				Water											
				Water											

8/18/17

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Avo Lily Thomas	8/18/17 1600	Arcadis		8/18/17	TA
2		8/18/17 1800	TA		8-19-17 0145	TA
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6, 0.7 #1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Temp 19.2 C

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

9/25/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-36726.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: melissa.deyo@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: EMLab P&K		Accreditations Required (See note): NELAP - New York		Job #: 480-122955-1
Address: Subcont.report available upon request, 6310 Rothway,	Due Date Requested: 8/30/2017			Preservation Codes:
City: Houston	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5
State, Zip: TX, 77040	PO #:			
Phone:	WO #:			
Email:	Project #: 48016526			
Project Name: National Grid - North Albany Project	SSOW#:			
Site:				

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solids, Oil/Solid, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (BioActivity - Iron-Reducing Bacteria)	SUB (BioActivity - Slime-Forming Bacteria)	SUB (BioActivity - Sulfate-Reducing Bacteria)	Total Number of containers
			Preservation Code:							
MW-14 (480-122955-1)	8/18/17	09:55 Eastern		Water			X	X	X	

001780770

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 8/21/17 1500	Company: TAB	Received by:
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time: 8/22/17 9:50	Company: TAB
Date/Time:	Company
Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-122955-1

Login Number: 122955
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-124610-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Michael C Jones

Authorized for release by:
10/6/2017 12:15:59 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-124610-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-124610-1

Receipt
The samples were received on 9/22/2017 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-379108 recovered above the upper control limit for Carbon tetrachloride and 2-Butanone. The sample associated with this CCV was non-detect for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-W (09-21-17) (480-124610-1).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-W (09-21-17) (480-124610-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following quality control samples (LCS 480-378919/5) and (MB 480-378919/7) associated with with the TCLP blank (LB 480-378721/1-A) are reported on a separate surrogate recovery form (Form II).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: Surrogate recovery for the following sample was outside the upper control limit: WC-W (09-21-17) (480-124610-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081B: All primary data for analytical batch 378909 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 378993 is reported from the ZB-5 column.

Method(s) 8151A: The continuing calibration verifications (CCVs) associated with batch 480-379084 recovered above the upper control limit for multiple analytes. The samples associated with these CCVs were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: WC-W (09-21-17) (480-124610-1).

Method(s) 8151A: All primary data for analytical batch 379084 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-378956/19) associated with batch 480-378956, contained TCLP Barium above the upper quality control limit. The associated samples were either below the reporting limit (RL) for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LB 480-378719/1-C), (LCS 480-378755/3-A) and (MB 480-378755/2-A) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-W (09-21-17) (480-124610-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Job ID: 480-124610-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 3510C, 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-378751.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-378764.

Method(s) 3510C: During pH adjustment, the following sample required acid by the drop to reach the desired pH: WC-W (09-21-17) (480-124610-1). Most samples take less than 1 mL to reach the desired range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Client Sample ID: WC-W (09-21-17)

Lab Sample ID: 480-124610-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		0.020	0.0082	mg/L	20		8260C	TCLP
Chloroform	0.0078	J	0.020	0.0068	mg/L	20		8260C	TCLP
2-Methylphenol	0.038		0.0050	0.00040	mg/L	1		8270D	TCLP
3-Methylphenol	0.10		0.010	0.00040	mg/L	1		8270D	TCLP
4-Methylphenol	0.10		0.010	0.00036	mg/L	1		8270D	TCLP
Barium	0.36	B	0.0020	0.00070	mg/L	1		6010C	TCLP
Chromium	0.036		0.0040	0.0010	mg/L	1		6010C	TCLP
Mercury	0.00015	J	0.00020	0.00012	mg/L	1		7470A	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	12.3	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	24.8	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-W (09-21-17)
Date Collected: 09/21/17 09:00
Date Received: 09/22/17 01:00

Lab Sample ID: 480-124610-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.020	0.0042	mg/L			09/28/17 01:20	20
2-Butanone (MEK)	ND		0.10	0.026	mg/L			09/28/17 01:20	20
Benzene	**1.2**		0.020	0.0082	mg/L			09/28/17 01:20	20
Carbon tetrachloride	ND		0.020	0.0054	mg/L			09/28/17 01:20	20
Chlorobenzene	ND		0.020	0.015	mg/L			09/28/17 01:20	20
Chloroform	**0.0078**	**J**	0.020	0.0068	mg/L			09/28/17 01:20	20
Tetrachloroethene	ND		0.020	0.0072	mg/L			09/28/17 01:20	20
Trichloroethene	ND		0.020	0.0092	mg/L			09/28/17 01:20	20
Vinyl chloride	ND		0.020	0.018	mg/L			09/28/17 01:20	20
1,1-Dichloroethene	ND		0.020	0.0058	mg/L			09/28/17 01:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/28/17 01:20*	*20*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*09/28/17 01:20*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/17 01:20*	*20*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*09/28/17 01:20*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/26/17 10:33	09/28/17 00:35	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/26/17 10:33	09/28/17 00:35	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/26/17 10:33	09/28/17 00:35	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/26/17 10:33	09/28/17 00:35	1
2-Methylphenol	**0.038**		0.0050	0.00040	mg/L		09/26/17 10:33	09/28/17 00:35	1
3-Methylphenol	**0.10**		0.010	0.00040	mg/L		09/26/17 10:33	09/28/17 00:35	1
4-Methylphenol	**0.10**		0.010	0.00036	mg/L		09/26/17 10:33	09/28/17 00:35	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/26/17 10:33	09/28/17 00:35	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/26/17 10:33	09/28/17 00:35	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/26/17 10:33	09/28/17 00:35	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/26/17 10:33	09/28/17 00:35	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/26/17 10:33	09/28/17 00:35	1
Pyridine	ND		0.025	0.00041	mg/L		09/26/17 10:33	09/28/17 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*41 - 120*	*09/26/17 10:33*	*09/28/17 00:35*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*09/26/17 10:33*	*09/28/17 00:35*	*1*
2-Fluorophenol (Surr)	*44*		*35 - 120*	*09/26/17 10:33*	*09/28/17 00:35*	*1*
Nitrobenzene-d5 (Surr)	*79*		*46 - 120*	*09/26/17 10:33*	*09/28/17 00:35*	*1*
Phenol-d5 (Surr)	*32*		*22 - 120*	*09/26/17 10:33*	*09/28/17 00:35*	*1*
p-Terphenyl-d14 (Surr)	*75*		*59 - 136*	*09/26/17 10:33*	*09/28/17 00:35*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/26/17 11:04	09/27/17 10:47	1
Endrin	ND		0.00020	0.000014	mg/L		09/26/17 11:04	09/27/17 10:47	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/26/17 11:04	09/27/17 10:47	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/26/17 11:04	09/27/17 10:47	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/26/17 11:04	09/27/17 10:47	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/26/17 11:04	09/27/17 10:47	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/26/17 11:04	09/27/17 10:47	1

Client Sample ID: WC-W (09-21-17)
Date Collected: 09/21/17 09:00
Date Received: 09/22/17 01:00

Lab Sample ID: 480-124610-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		20 - 120	09/26/17 11:04	09/27/17 10:47	1
DCB Decachlorobiphenyl	83		20 - 120	09/26/17 11:04	09/27/17 10:47	1
Tetrachloro-m-xylene	123	X	44 - 120	09/26/17 11:04	09/27/17 10:47	1
Tetrachloro-m-xylene	89		44 - 120	09/26/17 11:04	09/27/17 10:47	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 15:20	1
PCB-1221	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 15:20	1
PCB-1232	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 15:20	1
PCB-1242	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 15:20	1
PCB-1248	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 15:20	1
PCB-1254	ND		0.50	0.25	ug/L		09/26/17 14:04	09/27/17 15:20	1
PCB-1260	ND		0.50	0.25	ug/L		09/26/17 14:04	09/27/17 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		39 - 121	09/26/17 14:04	09/27/17 15:20	1
Tetrachloro-m-xylene	64		39 - 121	09/26/17 14:04	09/27/17 15:20	1
DCB Decachlorobiphenyl	37		19 - 120	09/26/17 14:04	09/27/17 15:20	1
DCB Decachlorobiphenyl	22		19 - 120	09/26/17 14:04	09/27/17 15:20	1

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/26/17 14:06	09/27/17 21:55	1
2,4-D	ND		0.0020	0.00040	mg/L		09/26/17 14:06	09/27/17 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	80		48 - 132	09/26/17 14:06	09/27/17 21:55	1
2,4-Dichlorophenylacetic acid	144	X	48 - 132	09/26/17 14:06	09/27/17 21:55	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/26/17 10:50	09/27/17 00:19	1
Barium	**0.36**	**B**	0.0020	0.00070	mg/L		09/26/17 10:50	09/27/17 00:19	1
Cadmium	ND		0.0020	0.00050	mg/L		09/26/17 10:50	09/27/17 00:19	1
Chromium	**0.036**		0.0040	0.0010	mg/L		09/26/17 10:50	09/27/17 00:19	1
Lead	ND		0.010	0.0030	mg/L		09/26/17 10:50	09/27/17 00:19	1
Selenium	ND		0.025	0.0087	mg/L		09/26/17 10:50	09/27/17 00:19	1
Silver	ND		0.0060	0.0017	mg/L		09/26/17 10:50	09/27/17 00:19	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00015**	**J**	0.00020	0.00012	mg/L		09/26/17 12:50	09/26/17 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/L		09/26/17 02:20	09/26/17 15:00	1
Sulfide, Reactive	ND		10.0	10.0	mg/L		09/26/17 02:20	09/27/17 12:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0	50.0	Degrees F			10/03/17 08:33	1
pH	**12.3**	**HF**	0.100	0.100	SU			09/26/17 11:10	1

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Client Sample ID: WC-W (09-21-17)
Date Collected: 09/21/17 09:00
Date Received: 09/22/17 01:00

Lab Sample ID: 480-124610-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	24.8	HF	0.00100	0.00100	Degrees C			09/26/17 11:10	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-378919/5	Lab Control Sample	101	95	100	100
LCS 480-379108/28	Lab Control Sample	98	96	97	96
MB 480-378919/7	Method Blank	104	96	100	99
MB 480-379108/7	Method Blank	101	97	102	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-124610-1	WC-W (09-21-17)	98	95	99	94
LB 480-378721/1-A	Method Blank	101	96	101	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
LCS 480-378751/2-A	Lab Control Sample	84	97	47	92	34	84
LCSD 480-378751/3-A	Lab Control Sample Dup	82	96	45	92	33	80
MB 480-378751/1-A	Method Blank	60	94	51	87	37	85

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-124610-1	WC-W (09-21-17)	79	95	44	79	32	75
LB 480-378719/1-B	Method Blank	63	97	49	89	35	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
LCS 480-378764/2-A	Lab Control Sample	58	61	92	83
LCSD 480-378764/3-A	Lab Control Sample Dup	65	69	97	87
MB 480-378764/1-A	Method Blank	58	61	92	83

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-124610-1	WC-W (09-21-17)	82	83	123 X	89
LB 480-378719/1-D	Method Blank	60	63	88	80

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(39-121)	(39-121)	(19-120)	(19-120)
480-124610-1	WC-W (09-21-17)	56	64	37	22
LCS 480-378811/2-A	Lab Control Sample	83	72	56	42
MB 480-378811/1-A	Method Blank	73	59	44	34

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPA1	DCPA2								
Lab Sample ID	Client Sample ID	(48-132)	(48-132)								
LCS 480-378812/2-A	Lab Control Sample	126	130								
LCSD 480-378812/3-A	Lab Control Sample Dup	112	144 X								
MB 480-378812/1-A	Method Blank	116	115								

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPA1	DCPA2								
Lab Sample ID	Client Sample ID	(48-132)	(48-132)								
480-124610-1	WC-W (09-21-17)	80	144 X								
LB 480-378719/1-F	Method Blank	108	120								

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-378919/7
Matrix: Water
Analysis Batch: 378919

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/27/17 11:10	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/27/17 11:10	1
Benzene	ND		0.0010	0.00041	mg/L			09/27/17 11:10	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/27/17 11:10	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/27/17 11:10	1
Chloroform	ND		0.0010	0.00034	mg/L			09/27/17 11:10	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/27/17 11:10	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/27/17 11:10	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/27/17 11:10	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/27/17 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/27/17 11:10*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*09/27/17 11:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/17 11:10*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*09/27/17 11:10*	*1*

Lab Sample ID: LCS 480-378919/5
Matrix: Water
Analysis Batch: 378919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.0250	0.0267		mg/L		107	75 - 120
2-Butanone (MEK)	0.125	0.163		mg/L		131	57 - 140
Benzene	0.0250	0.0269		mg/L		108	71 - 124
Carbon tetrachloride	0.0250	0.0271		mg/L		108	72 - 134
Chlorobenzene	0.0250	0.0265		mg/L		106	80 - 120
Chloroform	0.0250	0.0257		mg/L		103	73 - 127
Tetrachloroethene	0.0250	0.0272		mg/L		109	74 - 122
Trichloroethene	0.0250	0.0269		mg/L		108	74 - 123
Vinyl chloride	0.0250	0.0200		mg/L		80	65 - 133
1,1-Dichloroethene	0.0250	0.0246		mg/L		98	66 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: MB 480-379108/7
Matrix: Water
Analysis Batch: 379108

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/28/17 00:16	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/28/17 00:16	1
Benzene	ND		0.0010	0.00041	mg/L			09/28/17 00:16	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-379108/7
Matrix: Water
Analysis Batch: 379108

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/28/17 00:16	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/28/17 00:16	1
Chloroform	ND		0.0010	0.00034	mg/L			09/28/17 00:16	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/28/17 00:16	1
Trichloroethene	ND		0.0010	0.00046	mg/L			09/28/17 00:16	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/28/17 00:16	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/28/17 00:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/28/17 00:16*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/28/17 00:16*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/28/17 00:16*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*09/28/17 00:16*	*1*

Lab Sample ID: LCS 480-379108/28
Matrix: Water
Analysis Batch: 379108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.0250	0.0254		mg/L		102	75 - 120
2-Butanone (MEK)	0.125	0.157		mg/L		125	57 - 140
Benzene	0.0250	0.0255		mg/L		102	71 - 124
Carbon tetrachloride	0.0250	0.0249		mg/L		100	72 - 134
Chlorobenzene	0.0250	0.0257		mg/L		103	80 - 120
Chloroform	0.0250	0.0242		mg/L		97	73 - 127
Tetrachloroethene	0.0250	0.0253		mg/L		101	74 - 122
Trichloroethene	0.0250	0.0255		mg/L		102	74 - 123
Vinyl chloride	0.0250	0.0168		mg/L		67	65 - 133
1,1-Dichloroethene	0.0250	0.0212		mg/L		85	66 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 123*

Lab Sample ID: LB 480-378721/1-A
Matrix: Water
Analysis Batch: 378919

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			09/27/17 12:16	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			09/27/17 12:16	1
Benzene	ND		0.0010	0.00041	mg/L			09/27/17 12:16	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			09/27/17 12:16	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			09/27/17 12:16	1
Chloroform	ND		0.0010	0.00034	mg/L			09/27/17 12:16	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			09/27/17 12:16	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-378721/1-A
Matrix: Water
Analysis Batch: 378919

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0010	0.00046	mg/L			09/27/17 12:16	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			09/27/17 12:16	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			09/27/17 12:16	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/27/17 12:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*09/27/17 12:16*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/17 12:16*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/27/17 12:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-378751/1-A
Matrix: Water
Analysis Batch: 379057

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		09/26/17 10:33	09/27/17 21:26	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		09/26/17 10:33	09/27/17 21:26	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		09/26/17 10:33	09/27/17 21:26	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		09/26/17 10:33	09/27/17 21:26	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		09/26/17 10:33	09/27/17 21:26	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		09/26/17 10:33	09/27/17 21:26	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		09/26/17 10:33	09/27/17 21:26	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		09/26/17 10:33	09/27/17 21:26	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		09/26/17 10:33	09/27/17 21:26	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		09/26/17 10:33	09/27/17 21:26	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		09/26/17 10:33	09/27/17 21:26	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		09/26/17 10:33	09/27/17 21:26	1
Pyridine	ND		0.0063	0.00010	mg/L		09/26/17 10:33	09/27/17 21:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*41 - 120*	*09/26/17 10:33*	*09/27/17 21:26*	*1*
2-Fluorobiphenyl	*94*		*48 - 120*	*09/26/17 10:33*	*09/27/17 21:26*	*1*
2-Fluorophenol (Surr)	*51*		*35 - 120*	*09/26/17 10:33*	*09/27/17 21:26*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 120*	*09/26/17 10:33*	*09/27/17 21:26*	*1*
Phenol-d5 (Surr)	*37*		*22 - 120*	*09/26/17 10:33*	*09/27/17 21:26*	*1*
p-Terphenyl-d14 (Surr)	*85*		*59 - 136*	*09/26/17 10:33*	*09/27/17 21:26*	*1*

Lab Sample ID: LCS 480-378751/2-A
Matrix: Water
Analysis Batch: 379057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0279		mg/L		56	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0489		mg/L		98	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0485		mg/L		97	64 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-378751/2-A
Matrix: Water
Analysis Batch: 379057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378751

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-Dinitrotoluene			0.0500	0.0479		mg/L		96	69 - 120		
2-Methylphenol			0.0500	0.0339		mg/L		68	39 - 120		
3-Methylphenol			0.0500	0.0322		mg/L		64	39 - 120		
4-Methylphenol			0.0500	0.0322		mg/L		64	29 - 131		
Hexachlorobenzene			0.0500	0.0440		mg/L		88	61 - 120		
Hexachlorobutadiene			0.0500	0.0355		mg/L		71	35 - 120		
Hexachloroethane			0.0500	0.0252		mg/L		50	43 - 120		
Nitrobenzene			0.0500	0.0456		mg/L		91	53 - 123		
Pentachlorophenol			0.100	0.0787		mg/L		79	29 - 136		
Pyridine			0.100	0.0532		mg/L		53	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*84*		*41 - 120*
2-Fluorobiphenyl	*97*		*48 - 120*
2-Fluorophenol (Surr)	*47*		*35 - 120*
Nitrobenzene-d5 (Surr)	*92*		*46 - 120*
Phenol-d5 (Surr)	*34*		*22 - 120*
p-Terphenyl-d14 (Surr)	*84*		*59 - 136*

Lab Sample ID: LCSD 480-378751/3-A
Matrix: Water
Analysis Batch: 379057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 378751

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0274		mg/L		55	51 - 120	2	36
2,4,5-Trichlorophenol			0.0500	0.0488		mg/L		98	65 - 126	0	18
2,4,6-Trichlorophenol			0.0500	0.0480		mg/L		96	64 - 120	1	19
2,4-Dinitrotoluene			0.0500	0.0476		mg/L		95	69 - 120	0	20
2-Methylphenol			0.0500	0.0330		mg/L		66	39 - 120	3	27
3-Methylphenol			0.0500	0.0309		mg/L		62	39 - 120	4	30
4-Methylphenol			0.0500	0.0309		mg/L		62	29 - 131	4	24
Hexachlorobenzene			0.0500	0.0422		mg/L		84	61 - 120	4	15
Hexachlorobutadiene			0.0500	0.0360		mg/L		72	35 - 120	1	44
Hexachloroethane			0.0500	0.0252		mg/L		50	43 - 120	0	46
Nitrobenzene			0.0500	0.0467		mg/L		93	53 - 123	2	24
Pentachlorophenol			0.100	0.0771		mg/L		77	29 - 136	2	37
Pyridine			0.100	0.0544		mg/L		54	10 - 120	2	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*82*		*41 - 120*
2-Fluorobiphenyl	*96*		*48 - 120*
2-Fluorophenol (Surr)	*45*		*35 - 120*
Nitrobenzene-d5 (Surr)	*92*		*46 - 120*
Phenol-d5 (Surr)	*33*		*22 - 120*
p-Terphenyl-d14 (Surr)	*80*		*59 - 136*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-378719/1-B
Matrix: Water
Analysis Batch: 379057

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 378751

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		09/26/17 10:33	09/28/17 01:29	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		09/26/17 10:33	09/28/17 01:29	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		09/26/17 10:33	09/28/17 01:29	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		09/26/17 10:33	09/28/17 01:29	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		09/26/17 10:33	09/28/17 01:29	1
3-Methylphenol	ND		0.010	0.00040	mg/L		09/26/17 10:33	09/28/17 01:29	1
4-Methylphenol	ND		0.010	0.00036	mg/L		09/26/17 10:33	09/28/17 01:29	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		09/26/17 10:33	09/28/17 01:29	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		09/26/17 10:33	09/28/17 01:29	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		09/26/17 10:33	09/28/17 01:29	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		09/26/17 10:33	09/28/17 01:29	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		09/26/17 10:33	09/28/17 01:29	1
Pyridine	ND		0.025	0.00041	mg/L		09/26/17 10:33	09/28/17 01:29	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*41 - 120*	*09/26/17 10:33*	*09/28/17 01:29*	*1*
2-Fluorobiphenyl	*97*		*48 - 120*	*09/26/17 10:33*	*09/28/17 01:29*	*1*
2-Fluorophenol (Surr)	*49*		*35 - 120*	*09/26/17 10:33*	*09/28/17 01:29*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*09/26/17 10:33*	*09/28/17 01:29*	*1*
Phenol-d5 (Surr)	*35*		*22 - 120*	*09/26/17 10:33*	*09/28/17 01:29*	*1*
p-Terphenyl-d14 (Surr)	*84*		*59 - 136*	*09/26/17 10:33*	*09/28/17 01:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-378764/1-A
Matrix: Water
Analysis Batch: 378909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		09/26/17 11:04	09/27/17 09:29	1
Endrin	ND		0.000050	0.0000035	mg/L		09/26/17 11:04	09/27/17 09:29	1
gamma-BHC (Lindane)	ND		0.000050	0.0000015	mg/L		09/26/17 11:04	09/27/17 09:29	1
Heptachlor	ND		0.000050	0.0000021	mg/L		09/26/17 11:04	09/27/17 09:29	1
Heptachlor epoxide	ND		0.000050	0.0000013	mg/L		09/26/17 11:04	09/27/17 09:29	1
Methoxychlor	ND		0.000050	0.0000035	mg/L		09/26/17 11:04	09/27/17 09:29	1
Toxaphene	ND		0.00050	0.000030	mg/L		09/26/17 11:04	09/27/17 09:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*09/26/17 11:04*	*09/27/17 09:29*	*1*
DCB Decachlorobiphenyl	*61*		*20 - 120*	*09/26/17 11:04*	*09/27/17 09:29*	*1*
Tetrachloro-m-xylene	*92*		*44 - 120*	*09/26/17 11:04*	*09/27/17 09:29*	*1*
Tetrachloro-m-xylene	*83*		*44 - 120*	*09/26/17 11:04*	*09/27/17 09:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-378764/2-A
Matrix: Water
Analysis Batch: 378909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000500	0.000569		mg/L		114	65 - 135
gamma-BHC (Lindane)	0.000500	0.000496		mg/L		99	56 - 120
Heptachlor	0.000500	0.000491		mg/L		98	58 - 120
Heptachlor epoxide	0.000500	0.000535		mg/L		107	65 - 125
Methoxychlor	0.000500	0.000565		mg/L		113	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*58*		*20 - 120*
DCB Decachlorobiphenyl	*61*		*20 - 120*
Tetrachloro-m-xylene	*92*		*44 - 120*
Tetrachloro-m-xylene	*83*		*44 - 120*

Lab Sample ID: LCSD 480-378764/3-A
Matrix: Water
Analysis Batch: 378909

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 378764

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.000500	0.000587		mg/L		117	65 - 135	3	24
gamma-BHC (Lindane)	0.000500	0.000506		mg/L		101	56 - 120	2	24
Heptachlor	0.000500	0.000516		mg/L		103	58 - 120	5	25
Heptachlor epoxide	0.000500	0.000552		mg/L		110	65 - 125	3	23
Methoxychlor	0.000500	0.000582		mg/L		116	50 - 150	3	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*20 - 120*
DCB Decachlorobiphenyl	*69*		*20 - 120*
Tetrachloro-m-xylene	*97*		*44 - 120*
Tetrachloro-m-xylene	*87*		*44 - 120*

Lab Sample ID: LB 480-378719/1-D
Matrix: Water
Analysis Batch: 378909

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 378764

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		09/26/17 11:04	09/27/17 11:26	1
Endrin	ND		0.00020	0.000014	mg/L		09/26/17 11:04	09/27/17 11:26	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		09/26/17 11:04	09/27/17 11:26	1
Heptachlor	ND		0.00020	0.0000085	mg/L		09/26/17 11:04	09/27/17 11:26	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		09/26/17 11:04	09/27/17 11:26	1
Methoxychlor	ND		0.00020	0.000014	mg/L		09/26/17 11:04	09/27/17 11:26	1
Toxaphene	ND		0.0020	0.00012	mg/L		09/26/17 11:04	09/27/17 11:26	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*20 - 120*	*09/26/17 11:04*	*09/27/17 11:26*	*1*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*09/26/17 11:04*	*09/27/17 11:26*	*1*
Tetrachloro-m-xylene	*88*		*44 - 120*	*09/26/17 11:04*	*09/27/17 11:26*	*1*
Tetrachloro-m-xylene	*80*		*44 - 120*	*09/26/17 11:04*	*09/27/17 11:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-378811/1-A
Matrix: Water
Analysis Batch: 378993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 14:00	1
PCB-1221	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 14:00	1
PCB-1232	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 14:00	1
PCB-1242	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 14:00	1
PCB-1248	ND		0.50	0.18	ug/L		09/26/17 14:04	09/27/17 14:00	1
PCB-1254	ND		0.50	0.25	ug/L		09/26/17 14:04	09/27/17 14:00	1
PCB-1260	ND		0.50	0.25	ug/L		09/26/17 14:04	09/27/17 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*39 - 121*	*09/26/17 14:04*	*09/27/17 14:00*	*1*
Tetrachloro-m-xylene	*59*		*39 - 121*	*09/26/17 14:04*	*09/27/17 14:00*	*1*
DCB Decachlorobiphenyl	*44*		*19 - 120*	*09/26/17 14:04*	*09/27/17 14:00*	*1*
DCB Decachlorobiphenyl	*34*		*19 - 120*	*09/26/17 14:04*	*09/27/17 14:00*	*1*

Lab Sample ID: LCS 480-378811/2-A
Matrix: Water
Analysis Batch: 378993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.88		ug/L		97	62 - 130
PCB-1260	4.00	3.44		ug/L		86	56 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*39 - 121*
Tetrachloro-m-xylene	*72*		*39 - 121*
DCB Decachlorobiphenyl	*56*		*19 - 120*
DCB Decachlorobiphenyl	*42*		*19 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-378812/1-A
Matrix: Water
Analysis Batch: 379084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		09/26/17 14:06	09/27/17 18:56	1
2,4-D	ND		0.00050	0.00010	mg/L		09/26/17 14:06	09/27/17 18:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*116*		*48 - 132*	*09/26/17 14:06*	*09/27/17 18:56*	*1*
2,4-Dichlorophenylacetic acid	*115*		*48 - 132*	*09/26/17 14:06*	*09/27/17 18:56*	*1*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 480-378812/2-A
Matrix: Water
Analysis Batch: 379084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378812

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)			0.00200	0.00245		mg/L		122	49 - 150		
2,4-D			0.00200	0.00259		mg/L		129	36 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*126*		*48 - 132*
2,4-Dichlorophenylacetic acid	*130*		*48 - 132*

Lab Sample ID: LCSD 480-378812/3-A
Matrix: Water
Analysis Batch: 379084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 378812

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)			0.00200	0.00256		mg/L		128	49 - 150	4	50
2,4-D			0.00200	0.00272		mg/L		136	36 - 150	5	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*112*		*48 - 132*
2,4-Dichlorophenylacetic acid	*144*	*X*	*48 - 132*

Lab Sample ID: LB 480-378719/1-F
Matrix: Water
Analysis Batch: 379084

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 378812

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		09/26/17 14:06	09/27/17 20:26	1
2,4-D	ND		0.0020	0.00040	mg/L		09/26/17 14:06	09/27/17 20:26	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*108*		*48 - 132*	*09/26/17 14:06*	*09/27/17 20:26*	*1*
2,4-Dichlorophenylacetic acid	*120*		*48 - 132*	*09/26/17 14:06*	*09/27/17 20:26*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-378755/2-A
Matrix: Water
Analysis Batch: 378956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/26/17 10:50	09/26/17 23:46	1
Barium	ND	^	0.0020	0.00070	mg/L		09/26/17 10:50	09/26/17 23:46	1
Cadmium	ND		0.0020	0.00050	mg/L		09/26/17 10:50	09/26/17 23:46	1
Chromium	ND		0.0040	0.0010	mg/L		09/26/17 10:50	09/26/17 23:46	1
Lead	ND		0.010	0.0030	mg/L		09/26/17 10:50	09/26/17 23:46	1
Selenium	ND		0.025	0.0087	mg/L		09/26/17 10:50	09/26/17 23:46	1
Silver	ND		0.0060	0.0017	mg/L		09/26/17 10:50	09/26/17 23:46	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-378755/3-A
Matrix: Water
Analysis Batch: 378956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.936		mg/L		94	80 - 120
Barium	1.00	0.960	^	mg/L		96	80 - 120
Cadmium	1.00	0.976		mg/L		98	80 - 120
Chromium	1.00	0.948		mg/L		95	80 - 120
Lead	1.00	0.960		mg/L		96	80 - 120
Selenium	1.00	0.951		mg/L		95	80 - 120
Silver	1.00	0.940		mg/L		94	80 - 120

Lab Sample ID: LB 480-378719/1-C
Matrix: Water
Analysis Batch: 378956

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 378755

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		09/26/17 10:50	09/26/17 23:43	1
Barium	0.000920	J ^	0.0020	0.00070	mg/L		09/26/17 10:50	09/26/17 23:43	1
Cadmium	ND		0.0020	0.00050	mg/L		09/26/17 10:50	09/26/17 23:43	1
Chromium	ND		0.0040	0.0010	mg/L		09/26/17 10:50	09/26/17 23:43	1
Lead	ND		0.010	0.0030	mg/L		09/26/17 10:50	09/26/17 23:43	1
Selenium	ND		0.025	0.0087	mg/L		09/26/17 10:50	09/26/17 23:43	1
Silver	ND		0.0060	0.0017	mg/L		09/26/17 10:50	09/26/17 23:43	1

Lab Sample ID: 480-124610-1 MS
Matrix: Water
Analysis Batch: 378956

Client Sample ID: WC-W (09-21-17)
Prep Type: TCLP
Prep Batch: 378755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.05		mg/L		105	75 - 125
Barium	0.36	B	1.00	1.34		mg/L		97	75 - 125
Cadmium	ND		1.00	1.05		mg/L		105	75 - 125
Chromium	0.036		1.00	0.997		mg/L		96	75 - 125
Lead	ND		1.00	1.02		mg/L		102	75 - 125
Selenium	ND		1.00	1.05		mg/L		105	75 - 125
Silver	ND		1.00	1.01		mg/L		101	75 - 125

Lab Sample ID: 480-124610-1 MSD
Matrix: Water
Analysis Batch: 378956

Client Sample ID: WC-W (09-21-17)
Prep Type: TCLP
Prep Batch: 378755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.08		mg/L		108	75 - 125	3	20
Barium	0.36	B	1.00	1.38		mg/L		102	75 - 125	4	20
Cadmium	ND		1.00	1.09		mg/L		109	75 - 125	4	20
Chromium	0.036		1.00	1.04		mg/L		100	75 - 125	4	20
Lead	ND		1.00	1.06		mg/L		106	75 - 125	4	20
Selenium	ND		1.00	1.10		mg/L		110	75 - 125	5	20
Silver	ND		1.00	1.05		mg/L		105	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-378786/2-A
Matrix: Water
Analysis Batch: 379024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/26/17 12:50	09/26/17 17:41	1

Lab Sample ID: LCS 480-378786/3-A
Matrix: Water
Analysis Batch: 379024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00593		mg/L		89	80 - 120

Lab Sample ID: LB 480-378719/1-E
Matrix: Water
Analysis Batch: 379024

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 378786

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/26/17 12:50	09/26/17 17:38	1

Lab Sample ID: 480-124610-1 MS
Matrix: Water
Analysis Batch: 379024

Client Sample ID: WC-W (09-21-17)
Prep Type: TCLP
Prep Batch: 378786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00015	J	0.00668	0.00635		mg/L		93	80 - 120

Lab Sample ID: 480-124610-1 MSD
Matrix: Water
Analysis Batch: 379024

Client Sample ID: WC-W (09-21-17)
Prep Type: TCLP
Prep Batch: 378786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00015	J	0.00668	0.00617		mg/L		90	80 - 120	3	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-380024/1
Matrix: Water
Analysis Batch: 380024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	81.00		Degrees F		100	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-378765/1-A
Matrix: Water
Analysis Batch: 378872

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/L		09/26/17 02:20	09/26/17 15:00	1

Method: 9012 - Cyanide, Reactive (Continued)

Lab Sample ID: LCS 480-378765/2-A
Matrix: Water
Analysis Batch: 378872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	317.5		mg/L		32	10 - 100

Lab Sample ID: 480-124610-1 DU
Matrix: Water
Analysis Batch: 378872

Client Sample ID: WC-W (09-21-17)
Prep Type: Total/NA
Prep Batch: 378765

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Reactive	ND		ND		mg/L		NC	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-378757/1-A
Matrix: Water
Analysis Batch: 379055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/L		09/26/17 02:20	09/27/17 12:00	1

Lab Sample ID: LCS 480-378757/2-A
Matrix: Water
Analysis Batch: 379055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	900	801.5		mg/L		89	10 - 100

Lab Sample ID: 480-124610-1 DU
Matrix: Water
Analysis Batch: 379055

Client Sample ID: WC-W (09-21-17)
Prep Type: Total/NA
Prep Batch: 378757

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide, Reactive	ND		ND		mg/L		NC	20

Method: 9040C - pH

Lab Sample ID: 480-124610-1 DU
Matrix: Water
Analysis Batch: 378772

Client Sample ID: WC-W (09-21-17)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	12.3	HF	12.28		SU		0	5
Temperature	24.8	HF	24.90		Degrees C		0.4	10

GC/MS VOA

Leach Batch: 378721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	1311	
LB 480-378721/1-A	Method Blank	TCLP	Water	1311	

Analysis Batch: 378919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-378721/1-A	Method Blank	TCLP	Water	8260C	378721
MB 480-378919/7	Method Blank	Total/NA	Water	8260C	
LCS 480-378919/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 379108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	8260C	378721
MB 480-379108/7	Method Blank	Total/NA	Water	8260C	
LCS 480-379108/28	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Leach Batch: 378719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	1311	
LB 480-378719/1-B	Method Blank	TCLP	Water	1311	

Prep Batch: 378751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	3510C	378719
LB 480-378719/1-B	Method Blank	TCLP	Water	3510C	378719
MB 480-378751/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-378751/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-378751/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 379057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	8270D	378751
LB 480-378719/1-B	Method Blank	TCLP	Water	8270D	378751
MB 480-378751/1-A	Method Blank	Total/NA	Water	8270D	378751
LCS 480-378751/2-A	Lab Control Sample	Total/NA	Water	8270D	378751
LCSD 480-378751/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	378751

GC Semi VOA

Leach Batch: 378719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	1311	
LB 480-378719/1-D	Method Blank	TCLP	Water	1311	
LB 480-378719/1-F	Method Blank	TCLP	Water	1311	

Prep Batch: 378764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	3510C	378719
LB 480-378719/1-D	Method Blank	TCLP	Water	3510C	378719

GC Semi VOA (Continued)

Prep Batch: 378764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-378764/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-378764/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-378764/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 378811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	Total/NA	Water	3510C	
MB 480-378811/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-378811/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 378812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	8151A	378719
LB 480-378719/1-F	Method Blank	TCLP	Water	8151A	378719
MB 480-378812/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-378812/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 480-378812/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 378909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	8081B	378764
LB 480-378719/1-D	Method Blank	TCLP	Water	8081B	378764
MB 480-378764/1-A	Method Blank	Total/NA	Water	8081B	378764
LCS 480-378764/2-A	Lab Control Sample	Total/NA	Water	8081B	378764
LCSD 480-378764/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	378764

Analysis Batch: 378993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	Total/NA	Water	8082A	378811
MB 480-378811/1-A	Method Blank	Total/NA	Water	8082A	378811
LCS 480-378811/2-A	Lab Control Sample	Total/NA	Water	8082A	378811

Analysis Batch: 379084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	8151A	378812
LB 480-378719/1-F	Method Blank	TCLP	Water	8151A	378812
MB 480-378812/1-A	Method Blank	Total/NA	Water	8151A	378812
LCS 480-378812/2-A	Lab Control Sample	Total/NA	Water	8151A	378812
LCSD 480-378812/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	378812

Metals

Leach Batch: 378719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	1311	
LB 480-378719/1-C	Method Blank	TCLP	Water	1311	
LB 480-378719/1-E	Method Blank	TCLP	Water	1311	
480-124610-1 MS	WC-W (09-21-17)	TCLP	Water	1311	
480-124610-1 MSD	WC-W (09-21-17)	TCLP	Water	1311	

Metals (Continued)

Prep Batch: 378755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	3010A	378719
LB 480-378719/1-C	Method Blank	TCLP	Water	3010A	378719
MB 480-378755/2-A	Method Blank	Total/NA	Water	3010A	
LCS 480-378755/3-A	Lab Control Sample	Total/NA	Water	3010A	
480-124610-1 MS	WC-W (09-21-17)	TCLP	Water	3010A	378719
480-124610-1 MSD	WC-W (09-21-17)	TCLP	Water	3010A	378719

Prep Batch: 378786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	7470A	378719
LB 480-378719/1-E	Method Blank	TCLP	Water	7470A	378719
MB 480-378786/2-A	Method Blank	Total/NA	Water	7470A	
LCS 480-378786/3-A	Lab Control Sample	Total/NA	Water	7470A	
480-124610-1 MS	WC-W (09-21-17)	TCLP	Water	7470A	378719
480-124610-1 MSD	WC-W (09-21-17)	TCLP	Water	7470A	378719

Analysis Batch: 378956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	6010C	378755
LB 480-378719/1-C	Method Blank	TCLP	Water	6010C	378755
MB 480-378755/2-A	Method Blank	Total/NA	Water	6010C	378755
LCS 480-378755/3-A	Lab Control Sample	Total/NA	Water	6010C	378755
480-124610-1 MS	WC-W (09-21-17)	TCLP	Water	6010C	378755
480-124610-1 MSD	WC-W (09-21-17)	TCLP	Water	6010C	378755

Analysis Batch: 379024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	TCLP	Water	7470A	378786
LB 480-378719/1-E	Method Blank	TCLP	Water	7470A	378786
MB 480-378786/2-A	Method Blank	Total/NA	Water	7470A	378786
LCS 480-378786/3-A	Lab Control Sample	Total/NA	Water	7470A	378786
480-124610-1 MS	WC-W (09-21-17)	TCLP	Water	7470A	378786
480-124610-1 MSD	WC-W (09-21-17)	TCLP	Water	7470A	378786

General Chemistry

Prep Batch: 378757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	Total/NA	Water	7.3.4	
MB 480-378757/1-A	Method Blank	Total/NA	Water	7.3.4	
LCS 480-378757/2-A	Lab Control Sample	Total/NA	Water	7.3.4	
480-124610-1 DU	WC-W (09-21-17)	Total/NA	Water	7.3.4	

Prep Batch: 378765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	Total/NA	Water	7.3.3	
MB 480-378765/1-A	Method Blank	Total/NA	Water	7.3.3	
LCS 480-378765/2-A	Lab Control Sample	Total/NA	Water	7.3.3	
480-124610-1 DU	WC-W (09-21-17)	Total/NA	Water	7.3.3	

General Chemistry (Continued)

Analysis Batch: 378772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	Total/NA	Water	9040C	
LCS 480-378772/1	Lab Control Sample	Total/NA	Water	9040C	
480-124610-1 DU	WC-W (09-21-17)	Total/NA	Water	9040C	

Analysis Batch: 378872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	Total/NA	Water	9012	378765
MB 480-378765/1-A	Method Blank	Total/NA	Water	9012	378765
LCS 480-378765/2-A	Lab Control Sample	Total/NA	Water	9012	378765
480-124610-1 DU	WC-W (09-21-17)	Total/NA	Water	9012	378765

Analysis Batch: 379055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	Total/NA	Water	9034	378757
MB 480-378757/1-A	Method Blank	Total/NA	Water	9034	378757
LCS 480-378757/2-A	Lab Control Sample	Total/NA	Water	9034	378757
480-124610-1 DU	WC-W (09-21-17)	Total/NA	Water	9034	378757

Analysis Batch: 380024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-124610-1	WC-W (09-21-17)	Total/NA	Water	1010A	
LCS 480-380024/1	Lab Control Sample	Total/NA	Water	1010A	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Client Sample ID: WC-W (09-21-17)
Date Collected: 09/21/17 09:00
Date Received: 09/22/17 01:00

Lab Sample ID: 480-124610-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			378721	09/26/17 09:03	NMC	TAL BUF
TCLP	Analysis	8260C		20	379108	09/28/17 01:20	RRS	TAL BUF
TCLP	Leach	1311			378719	09/26/17 08:59	NMC	TAL BUF
TCLP	Prep	3510C			378751	09/26/17 10:33	JMP	TAL BUF
TCLP	Analysis	8270D		1	379057	09/28/17 00:35	DMR	TAL BUF
TCLP	Leach	1311			378719	09/26/17 08:59	NMC	TAL BUF
TCLP	Prep	3510C			378764	09/26/17 11:04	JMP	TAL BUF
TCLP	Analysis	8081B		1	378909	09/27/17 10:47	MAN	TAL BUF
Total/NA	Prep	3510C			378811	09/26/17 14:04	SMP	TAL BUF
Total/NA	Analysis	8082A		1	378993	09/27/17 15:20	JMO	TAL BUF
TCLP	Leach	1311			378719	09/26/17 08:59	NMC	TAL BUF
TCLP	Prep	8151A			378812	09/26/17 14:06	RLT	TAL BUF
TCLP	Analysis	8151A		1	379084	09/27/17 21:55	JMO	TAL BUF
TCLP	Leach	1311			378719	09/26/17 08:59	NMC	TAL BUF
TCLP	Prep	3010A			378755	09/26/17 10:50	EMB	TAL BUF
TCLP	Analysis	6010C		1	378956	09/27/17 00:19	AMH	TAL BUF
TCLP	Leach	1311			378719	09/26/17 08:59	NMC	TAL BUF
TCLP	Prep	7470A			378786	09/26/17 12:50	EMB	TAL BUF
TCLP	Analysis	7470A		1	379024	09/26/17 17:51	BMB	TAL BUF
Total/NA	Analysis	1010A		1	380024	10/03/17 08:33	DSC	TAL BUF
Total/NA	Prep	7.3.3			378765	09/26/17 02:20	LAW	TAL BUF
Total/NA	Analysis	9012		1	378872	09/26/17 15:00	MDL	TAL BUF
Total/NA	Prep	7.3.4			378757	09/26/17 02:20	LAW	TAL BUF
Total/NA	Analysis	9034		1	379055	09/27/17 12:00	MDL	TAL BUF
Total/NA	Analysis	9040C		1	378772	09/26/17 11:10	DSC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
9012	7.3.3	Water	Cyanide, Reactive
9034	7.3.4	Water	Sulfide, Reactive
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9040C	pH	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - North Albany Project

TestAmerica Job ID: 480-124610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-124610-1	WC-W (09-21-17)	Water	09/21/17 09:00	09/22/17 01:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-124610 COC

Client Information	Sampler: AThomas	Lab PM: Deyo, Melissa L	COC No: 480-102668-24370.1
Client Contact: Mr. Michael Jones	Phone: (518) 396-7296	E-Mail: melissa.deyo@testamericainc.com	Page: Page 1 of 1
Company: ARCADIS U.S. Inc			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:		
City: Syracuse	TAT Requested (days): Standard		
State, Zip: NY, 13202			
Phone:	PO #: B0036648.1401.00006		
Email: michael.jones@arcadis.com	WO #:		
Project Name: National Grid - North Albany Project	Project #: 48016528		
Site: National Grid - North Albany	SSOW#:		

Analysis Reques

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCLP	8081B, 8270D	6010C -	7470A -	8151A -	8082A -	1010A - Ignitability, Pensky-Martens Closed-Cup Method	9040C - pH	9012_ReactiveCN, 9034_Reactive	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N		
NC-IW (09-21-17)	9-21-17	0900	C	Water	N	N	3	2	1	1	2	2	1	1	1	14	
Trip Blank																2	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 9-21-17 1428	Company: Arcadis	Received by: Date/Time: 9-21-17 1988 Company: TA
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:
Relinquished by:	Date/Time: 9-21-17 1500	Company: TA	Received by: Date/Time: 9-22-17 0100 Company: TAS
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.2 #1

10/6/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-124611 COC

Client Information	Sampler: Andrew Talbot	Lab PM: Johnson, Orlette S	COC No: 480-101541-20433.2
Client Contact: ~~Kasey Keating~~ Andrew Talbot	Phone: (518) 885-5383	E-Mail: orlette.johnson@testamericainc.com	Page: Page 2 of 2
Company: Aztech Technologies Inc			Job #:
Address: 5 McCrea Hill Road	Due Date Requested:		
City: Ballston Spa	TAT Requested (days):		
State, Zip: NY, 12020			
Phone: 845-425(Tel)	PO #: 59659ACM		
Email: ~~Keating@aztechnw.com~~ atalbot@aztech.com	WO #: Project #60277036		
Project Name: Kingsbury Landfill 5th Quarterly	Project #: 48007138		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - TCL PCBs - OLM04.2	6010C, 7470A	8260C - (MOD) TCL list OLM04.2	8270D - TCL SVOA - OLM04.2	9060A - (MOD) Local Method	8260C_SIM - (MOD) Volatile SIM	8082A, 8270D	6010C, 7471B	Moisture - Local Method	Lloyd_Kahn - Routine Lloyd Kahn	8260C - TCL list OLM04.2			Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	N	A	A	N	N	N	N	N				
SW-SED4	9/21/17	9:05	G	Solid	N	X							X	X	X	X	X				
MS	9/21/17	9:15	G	Solid	N								X	X	X	X	X				
MSD	9/21/17	9:25	G	Solid	N								X	X	X	X	X				
~~DUP~~				~~Solid~~																	
				~~Solid~~																	
SW-SED 4	9/21/17	9:35	G	Water	N	X	X	X	X	X	X	X									metals unpreserved ~~unfiltered~~, lab filter
MS	9/21/17	9:45	G	water	N		X	X	X	X	X	X									metals unpreserved, lab filter
MSD	9/21/17	9:55	G	water	N		X	X	X	X	X	X									metals unpreserved, lab filter
	KZ 9/21/17																				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 9/21/17 15:15	Company: Aztech	Received by:	Date/Time: 9/21/17 1530	Company: TA
Relinquished by:	Date/Time: 9/21/17 1800	Company: TA	Received by:	Date/Time: 9-22-17 0100	Company: TAS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.3 #1

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-124610-1

Login Number: 124610

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

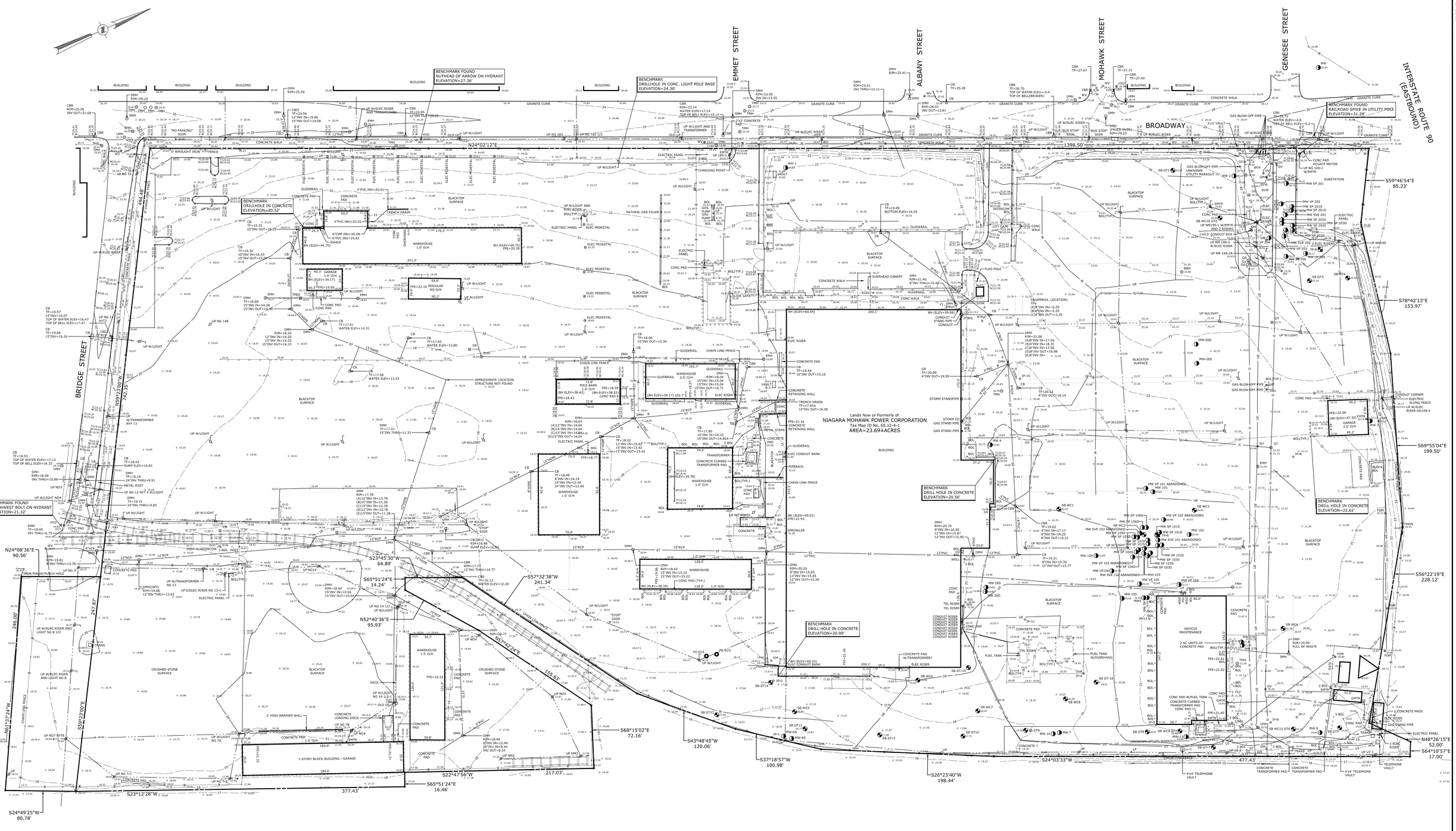
APPENDIX H

CT Male Site Map

XREFS: NONE

PROJECT NUMBER: 17.7505

BS-TS NG-ARCADIS14.dwg



MAP NOTES:

1. Boundary information shown hereon was compiled from an actual field survey conducted during the month of September, 2017.
2. North orientation and bearings are referenced to Grid North and are based on the New York State Plane Coordinate System, East Zone, NAD 83/2011 epoch 2010.00.
3. Vertical datum shown hereon is NAVD 88 (Geoid 12A) and was obtained from RTK GPS observations using the NYAB CORS as a base station.
4. The location of underground improvements or encroachments, if any exist, or as shown hereon, are not certified. There may be underground utilities, the existence of which are not known to the undersigned. Size and location of all underground utilities and structures must be verified by the appropriate authorities. Dig Safely New York must be notified prior to conducting test borings, excavation and construction.
5. This survey was prepared without the benefit of an up to date abstract of title or title report and is therefore subject to any easements, covenants, restrictions or any statement of fact that such documents may disclose.

MAP REFERENCES:

1. "Interstate Route 504-1-1 R.O.W. Map Albany To Couse Albany Co." Sheet 2 of 3, Map No. 385 Parcel No. 440, prepared by the New York State Department of Transportation.
2. "Interstate Route Connection 504-1-1 (Interstate Route 502 To Interstate Route 504)" Sheet 2 of 5 prepared by the New York State Department of Transportation dated 1965.
3. "Interstate Route 504-1-1 Railway - Highway Grade Separation Albany To Couse Albany Co." Map No. 1 Parcel No. 1, prepared by the New York State Department of Transportation dated 1965.
4. "Interstate Route 504-1-1 Albany To Couse Albany Co." Map No. 10 Parcel No. 11, Map No. 11 Parcel No. 12 and Map No. 12 Parcel No. 13, prepared by the New York State Department of Transportation dated 1965.

LEGEND

BOL	Bollard	FFE=	Finished Floor Elevation
CB	Catch Basin	RE=	Roof Elevation
CBCI	Catch Basin Curb Inlet	GD	Gas Drip
CBR	Catch Basin Round	GM	Gas Marker
CO	Cleanout	GT	Gas Test
DMH	Drainage Manhole	GV	Gas Valve
EMH	Electric Manhole	HH	Hand Hole
FOM	Fiber Optic Line Marker	HYD	Hydrant
		LP	Light Pole

MW	Monitor Well
SMH	Sanitary Manhole
SB	Soil Boring
TMH	Telephone Manhole
TPED	Telephone Pedestal
UMH	Unknown Manhole Type
UP	Utility Pole
UP w/Light	Utility Pole w/Light
WV	Water Valve

Overhead Telephone Wires	
UE	Underground Electric Line
G	Underground Gas Line
UT	Underground Telephone Line
W	Underground Water Line
SS	Underground Sanitary Sewer Line
ST	Underground Storm Sewer Line
HDPE	High Density Polyethylene Pipe
PVC	Polyvinyl Chloride Pipe
RCP	Reinforced Concrete Pipe

BAR SCALE
40 0 20 40 80
1 inch = 40 ft.

"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY".

CAD DWG. FILE NAME: K:\Projects\17505\Survey\BS-TS NG-ARCADIS.dwg

PROGRESS PRINT

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
1				
2				
3				
4				
5				
6				
7				
8				
9				

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.
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APPROVED: ____
DRAFTED : GLB
CHECKED : ____
PROJ. NO : 17.7505
SCALE : 1" = 40'
DATE : SEPT. 21, 2017

BOUNDARY AND TOPOGRAPHIC SURVEY
NATIONAL GRID NORTH ALBANY SERVICE CENTER

CITY OF ALBANY — ALBANY COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

SHEET 1 OF 1
DWG. NO: 17-598

APPENDIX I

Monitoring Well Decommissioning Logs

FIGURE 3

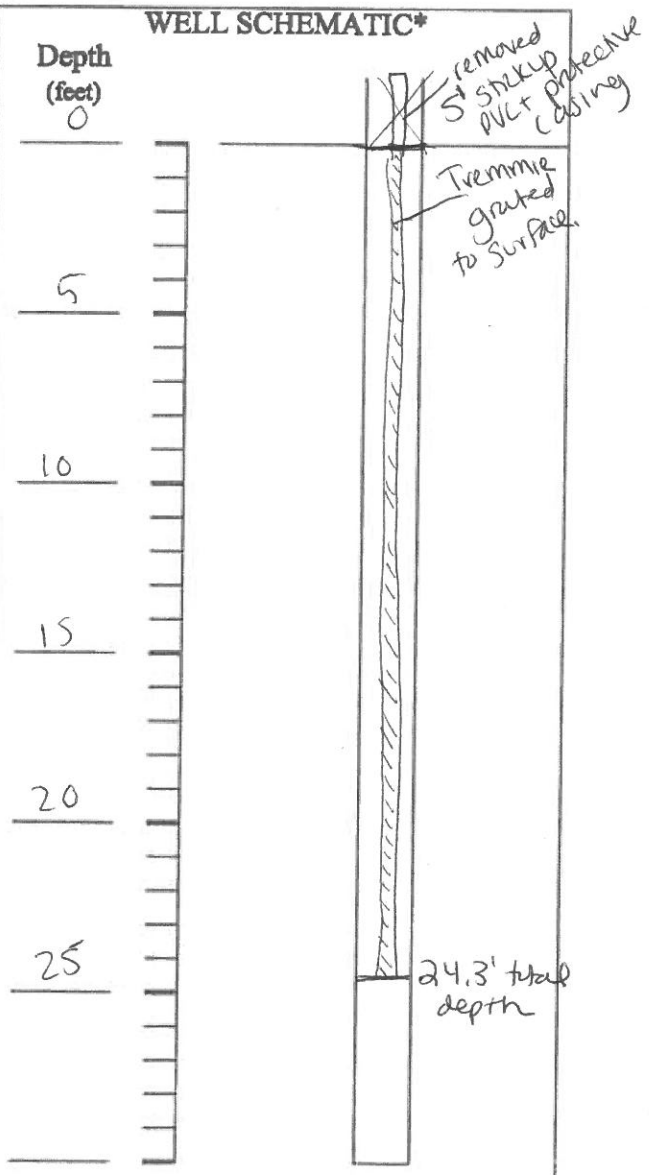
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-1
Site Location: Menands, NY	Driller: Jolaan Price
Drilling Co.: Parratt Wolff	Inspector: Anthony Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-24.3'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	10
Quantity of cement used (lbs.)	150
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	20
Volume of grout used (gal.)	~18

WELL SCHEMATIC*



COMMENTS: Grout-in-place (Tremmie grout). Pulled 5' PVC riser and steel protective casing. Used topsoil to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

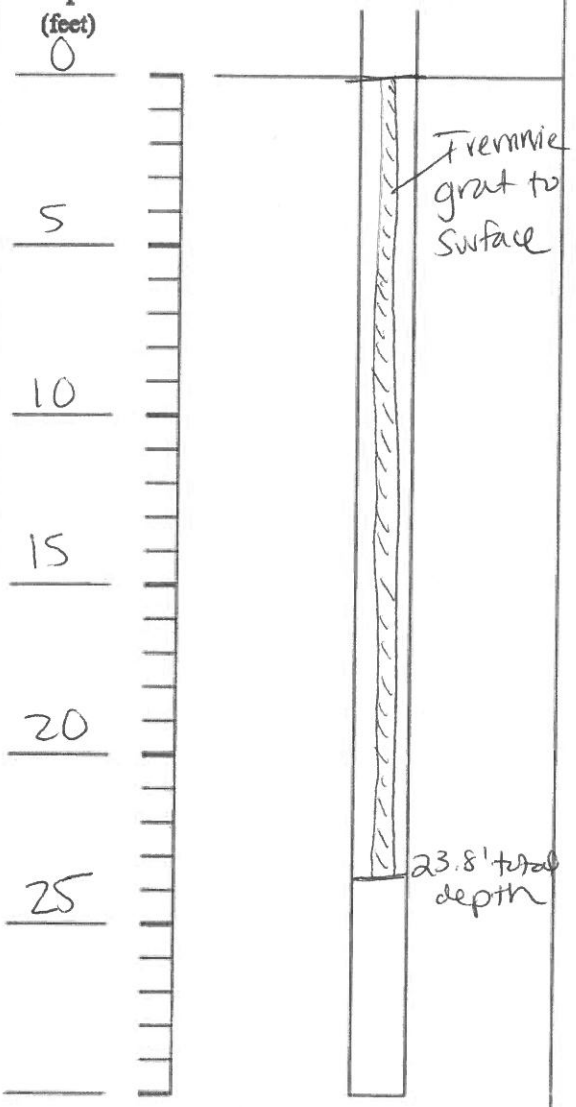
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-2
Site Location: Menands, NY	Driller: Jolaan Anze
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-23.8'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	10
Quantity of cement used (lbs.)	150
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~20
Volume of grout used (gal.)	~16

WELL SCHEMATIC*



COMMENTS: Flushmount well protector and concrete pad removed. Tremmie grated to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

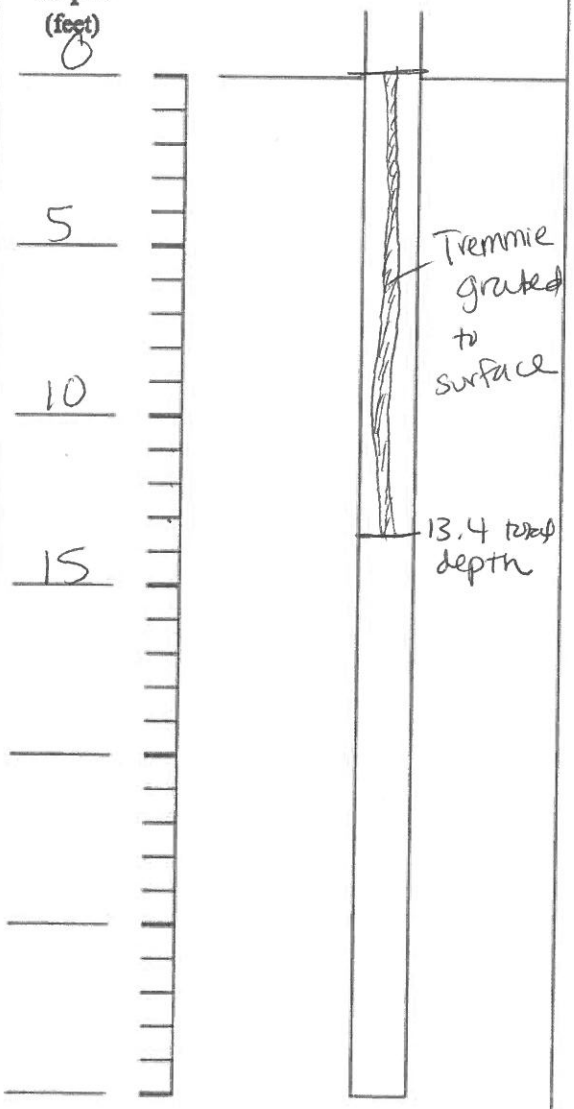
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-3
Site Location: Menands, NY	Driller: ~~[illegible]~~ Rick Navratil
Drilling Co.: Parratt Wolff	Inspector: Ashley Thomey
	Date: 9-14-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-13.4'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~10
Volume of grout used (gal.)	~8

WELL SCHEMATIC*



COMMENTS: Flushmount well protector and conc pad removed. Tremmie grouted to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

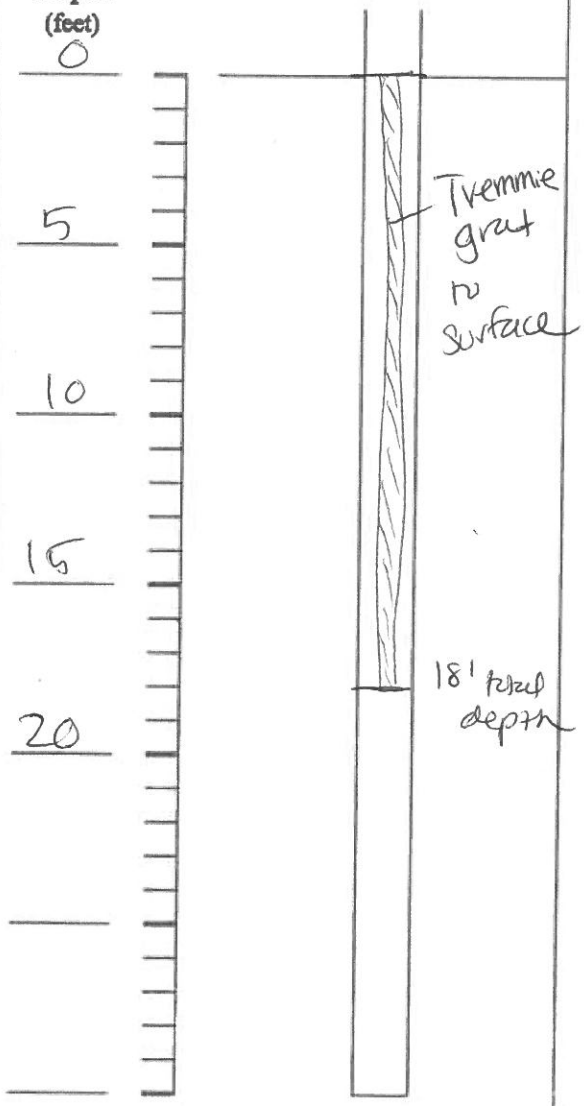
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-4
Site Location: Menands, NY	Driller: Jolaan Anze
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-18'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Concrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	~15
Volume of grout used (gal.)	~12

WELL SCHEMATIC*



COMMENTS: Concrete pad & curb box removed. Tremmie grouted to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

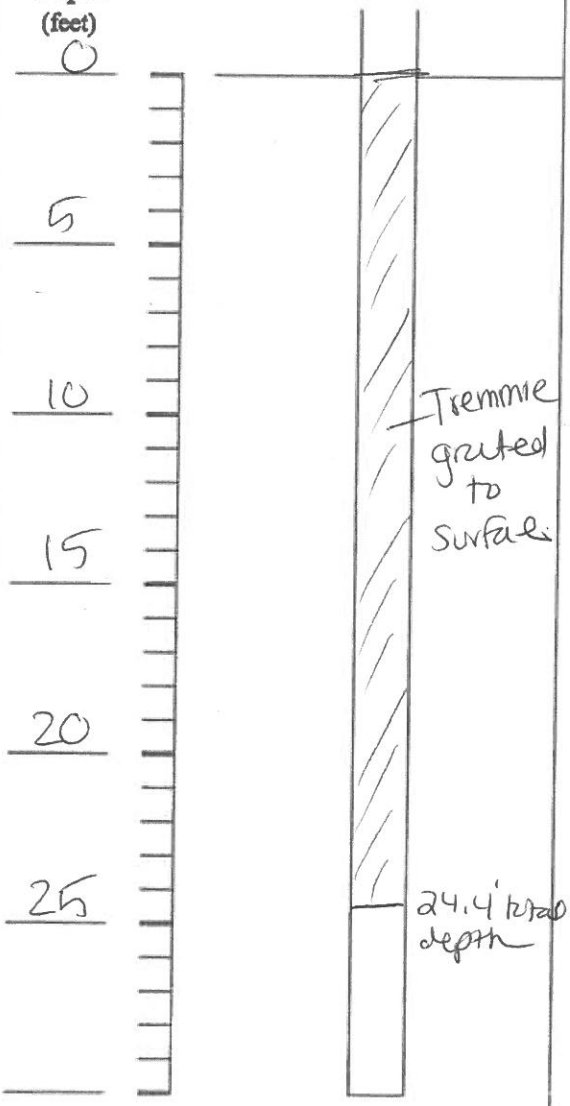
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-5
Site Location: Menands, NY	Driller: Rick Naratka
Drilling Co.: Parratt Wolff	Inspector: Abbey Tharney
	Date: 9-12-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-24.4'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-24.4'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	10
Quantity of cement used (lbs.)	150
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~6.5
Volume of grout used (gal.)	~6.5

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Tremmie grouted to surface following overdrill. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

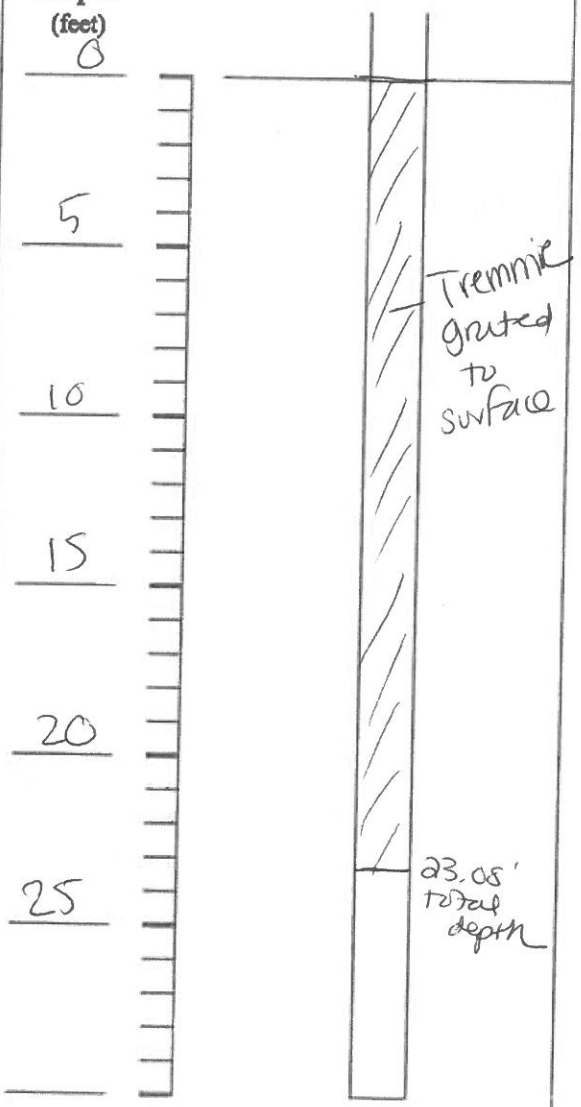
WELL DECOMMISSIONING RECORD

Site Name: National Grid-North Albany	Well I.D.: MW-5R
Site Location: Menands, NY	Driller: Rick Navratka
Drilling Co.: Parratt Wolff	Inspector: Albany Chomey
	Date: 9-12-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-23.08'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-23.08
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	70
Quantity of cement used (lbs.)	150
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~60
Volume of grout used (gal.)	~60

WELL SCHEMATIC*



COMMENTS: PIN used 4¼" augers to overdrill. Tremmie grouted to surface, following overdrill. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

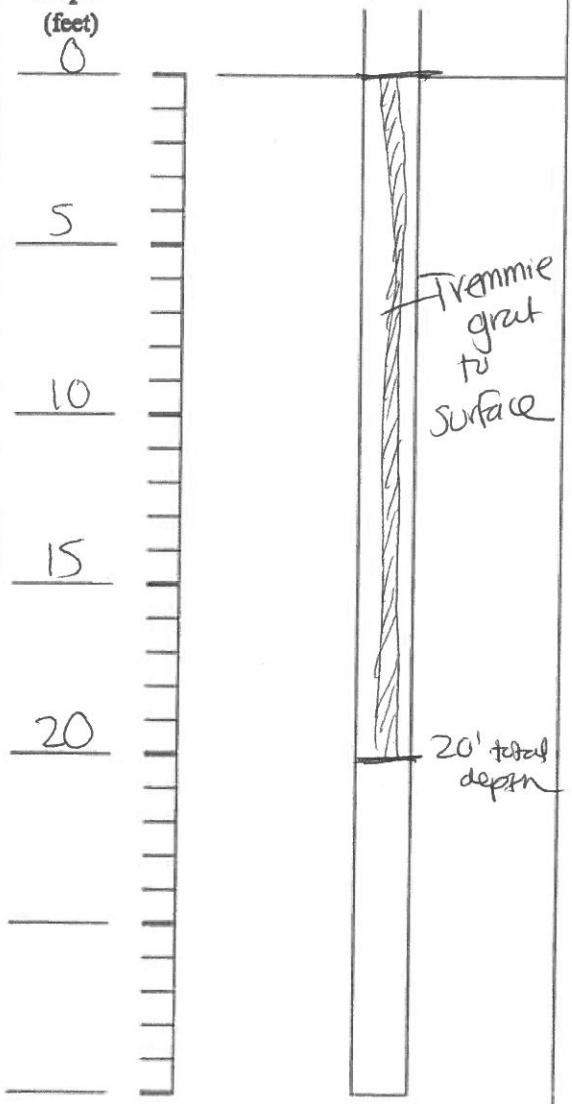
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-6A
Site Location: Menands, NY	Driller: Jdaan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Phemey
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-20'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Concrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~15
Volume of grout used (gal.)	~14

WELL SCHEMATIC*



COMMENTS: Grout-in-place instead of planned overdrill due to proximity to high voltage electric line (less than 3'), tremmie grout to surface, surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: National Grid- North Albany	Well I.D.: MW-6S
Site Location: Menands, NY	Driller: Jolaan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	

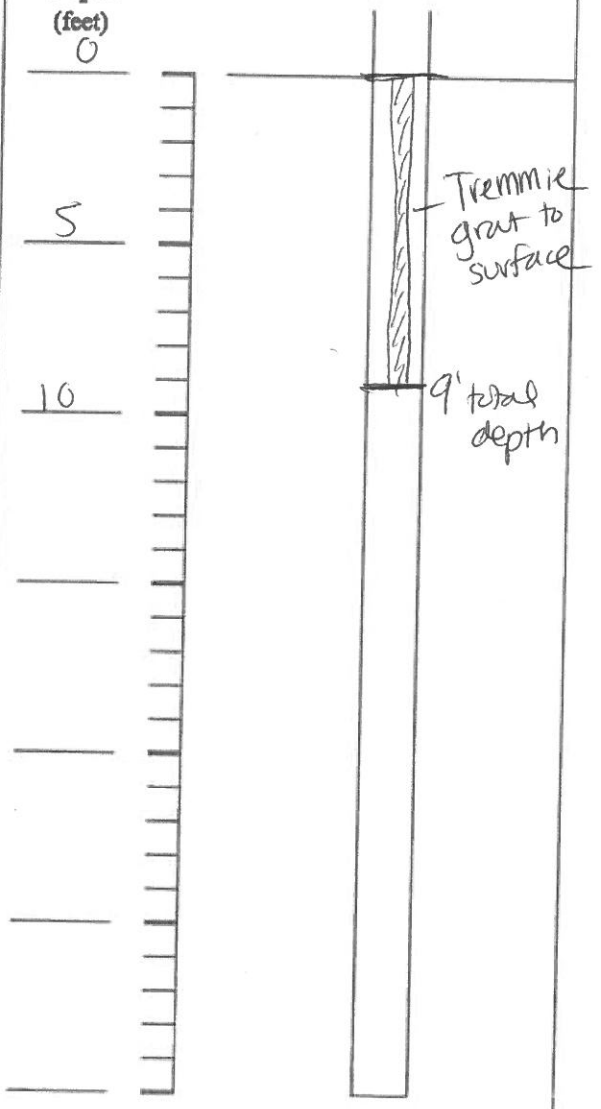
CASING PERFORATING

Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLS)	0-9'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	3
Quantity of cement used (lbs.)	47
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	~8
Volume of grout used (gal.)	~6

WELL SCHEMATIC*



COMMENTS: Grout-in-place instead of planned overdrill due to proximity to high voltage electric line (less than 3') Tremmie grout to surface, surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

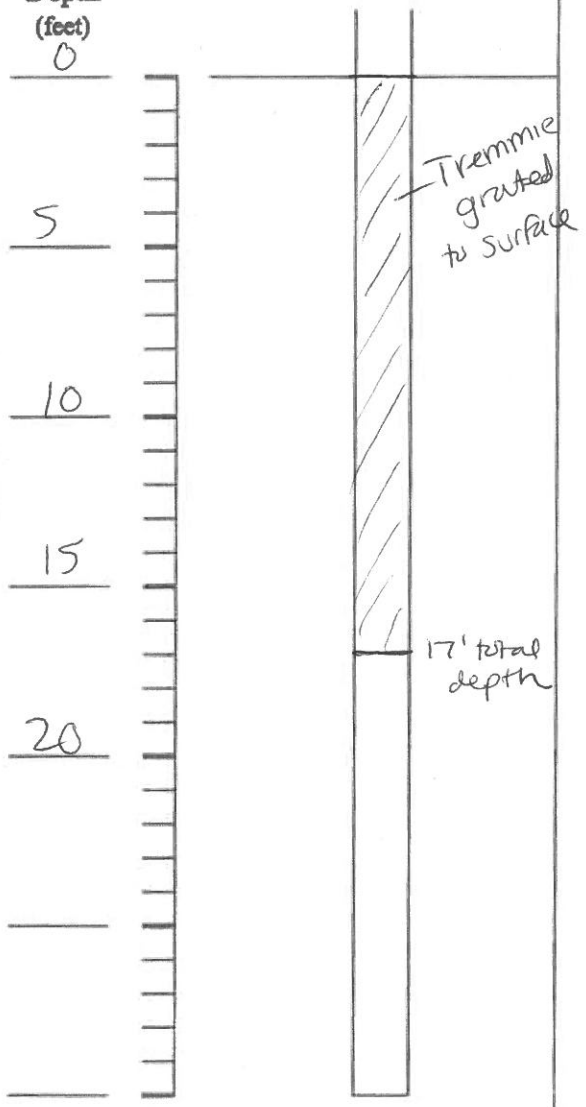
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-7
Site Location: Menands, NY	Driller: Jdaan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-17'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-17'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~50
Volume of grout used (gal.)	~45

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Tremmie grout to surface following overdrill. Surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

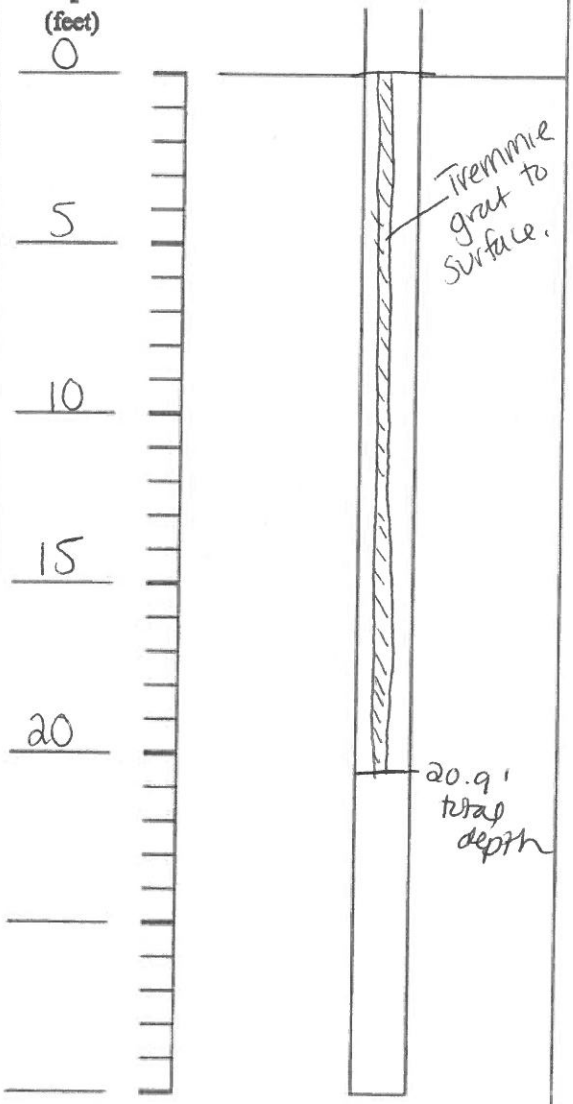
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-8
Site Location: Menands, NY	Driller: Jolaan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomey
	Date: 9-19-18

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-20.9'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Concrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~15
Volume of grout used (gal.)	~14

WELL SCHEMATIC*



COMMENTS: Curb box & concrete pad removed. Tremmie grout to surface. New surface competed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

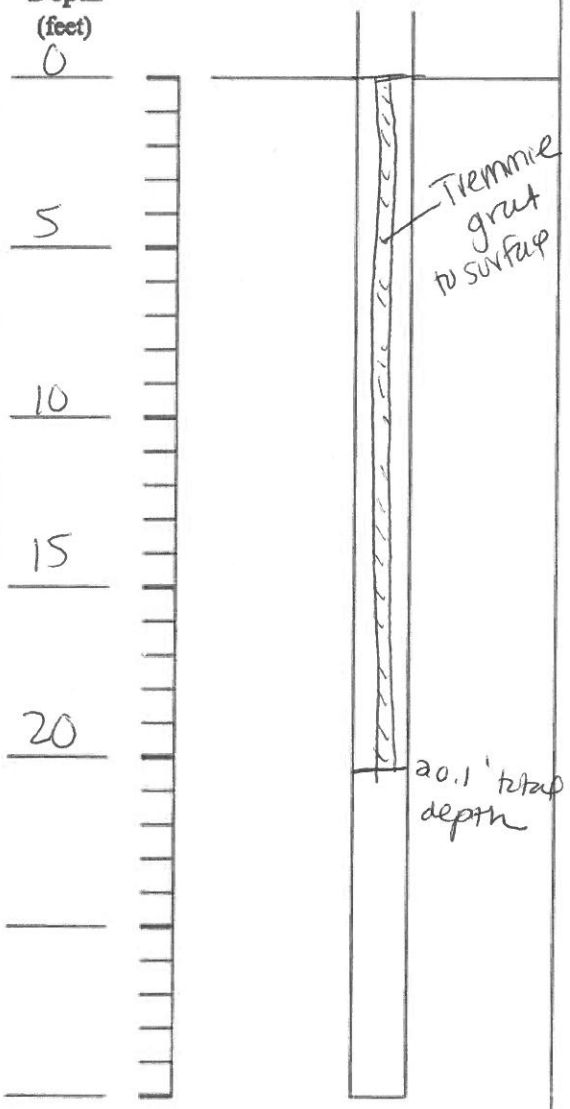
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: National Grid- North Albany	Well I.D.: MW-9
Site Location: Menands, NY	Driller: Jolaan Price
Drilling Co.: Parratt Wolff	Inspector: Arbuy Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-20.1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~15
Volume of grout used (gal.)	~14

WELL SCHEMATIC*



COMMENTS: Curb box & concrete pad removed. Tremmie grout to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

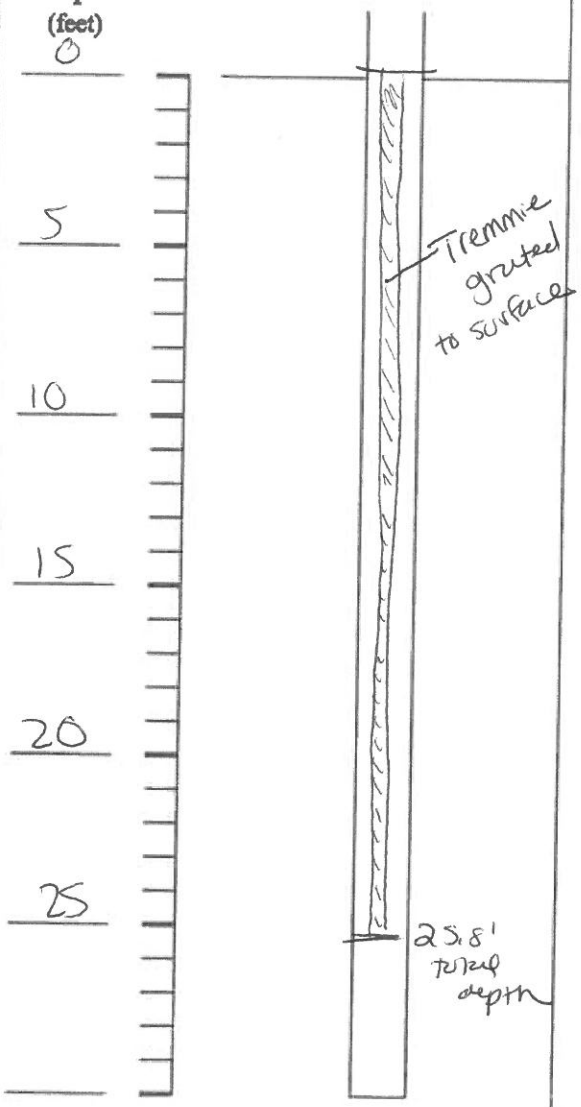
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-13
Site Location: Menands, NY	Driller: Jdaan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-18-19

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-25.8
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	16
Quantity of cement used (lbs.)	150
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~20
Volume of grout used (gal.)	~18

WELL SCHEMATIC*



COMMENTS: Grout-in-place instead of planned overdrill due to steel casing surrounding PVC, couldn't pull it. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

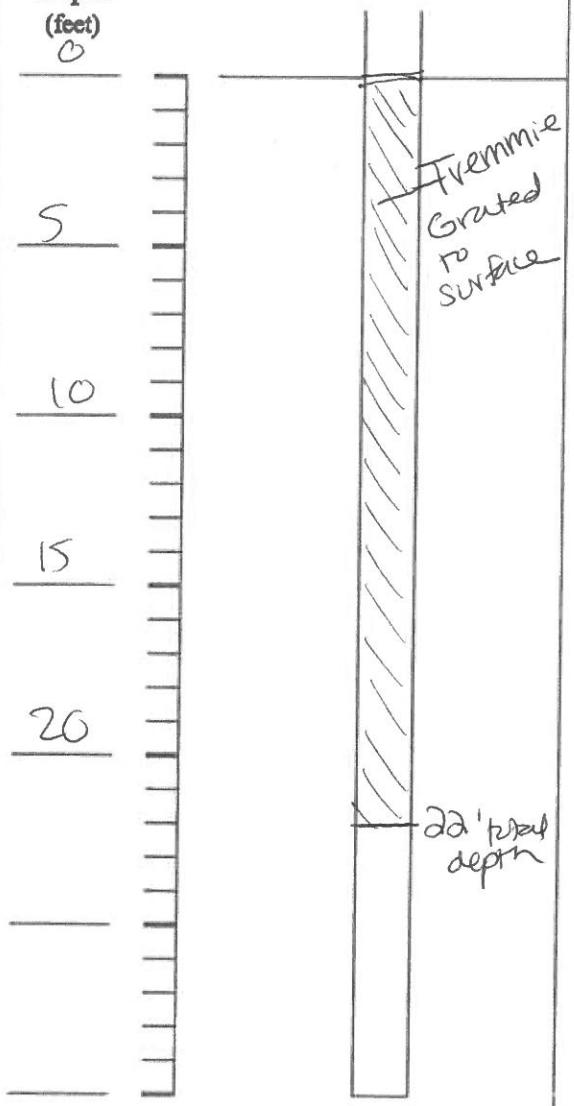
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-14
Site Location: Menands, NY	Driller: Jolaan Prze
Drilling Co.: Parratt Wolff	Inspector: Abby Thomas
	Date: 9-18-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-22
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-22
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	10
Quantity of cement used (lbs.)	150
Cement type	Quikcrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	~60
Volume of grout used (gal.)	~58

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Tremmie grout to surface following overdrill. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

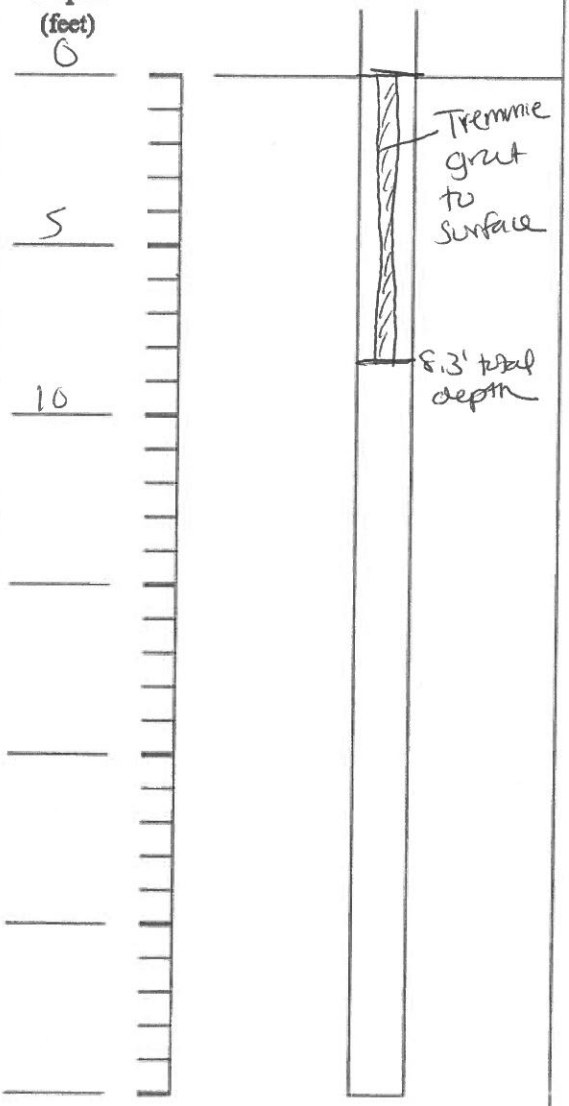
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-26S
Site Location: Menands, NY	Driller: Johan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-8.3'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	3
Quantity of cement used (lbs.)	47
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~8
Volume of grout used (gal.)	~6

WELL SCHEMATIC*



COMMENTS: Curb box and concrete pad removed. Tremmie grated to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-26D
Site Location: Menands, NY	Driller: Jolaan Anze
Drilling Co.: Parratt Wolff	Inspector: Abbey Thomey
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	

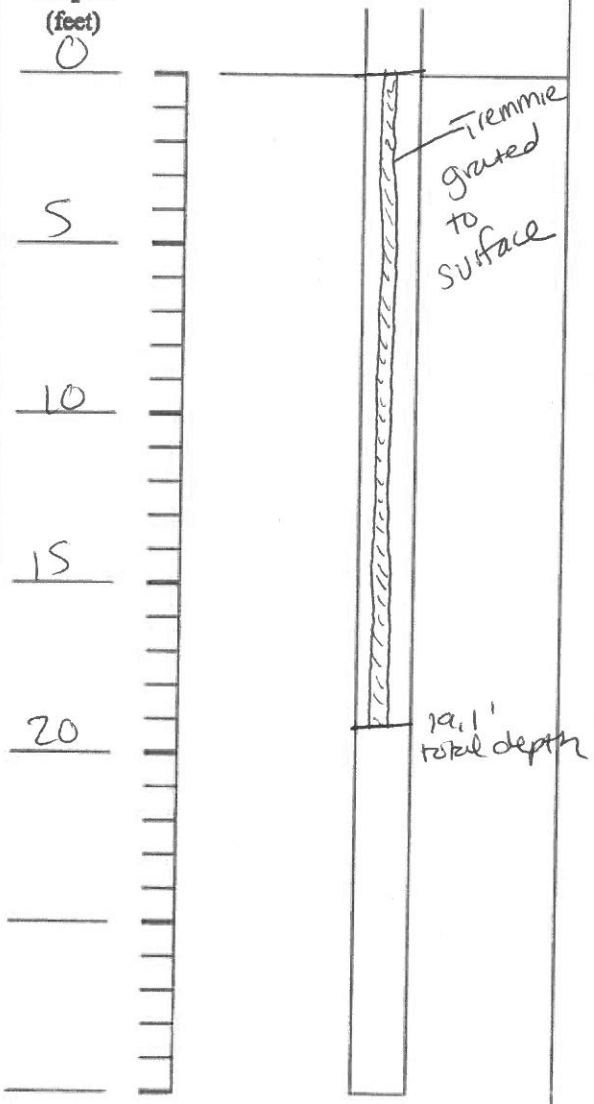
CASING PERFORATING

Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLS)	0-19.1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	~
Volume of grout prepared (gal.)	~15
Volume of grout used (gal.)	~13

WELL SCHEMATIC*



COMMENTS: Curb box and concrete pad removed. Tremmie grouted to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

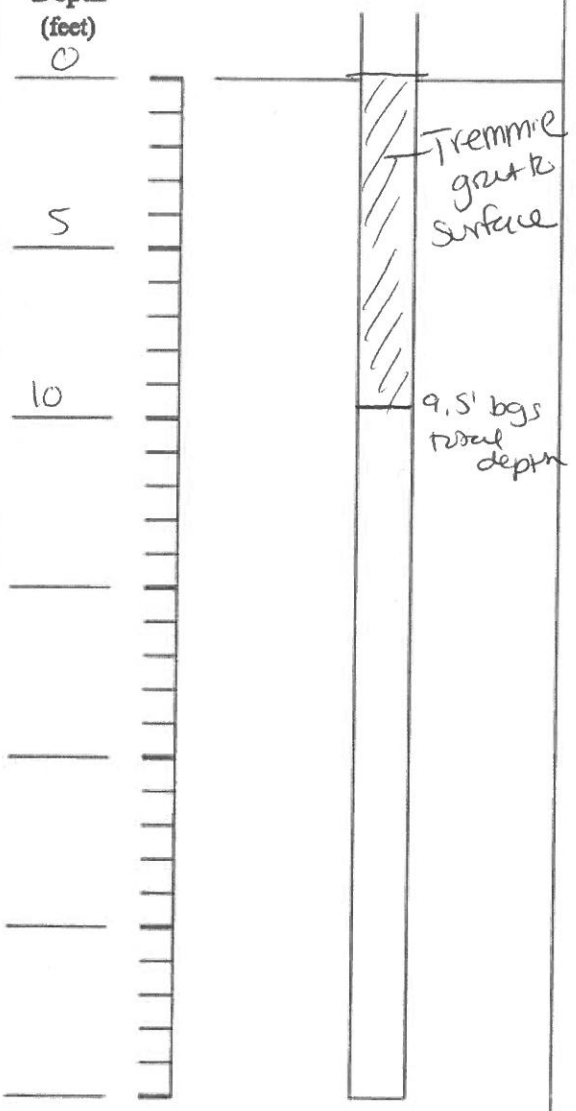
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-275
Site Location: Menands, NY	Driller: Sloan Price
Drilling Co.: Parratt Wolff	Inspector: Arbrey Thomas
	Date: 9-18-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-9.5
Drilling Method(s)	HSA 4'1/4"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-9.5
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	~4
Quantity of cement used (lbs.)	50
Cement type	Quikrete PC Mineral cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~25 gal
Volume of grout used (gal.)	~25 gal

WELL SCHEMATIC*



COMMENTS: PW used 4'1/4" augers to overdrill. Tremmie grout to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

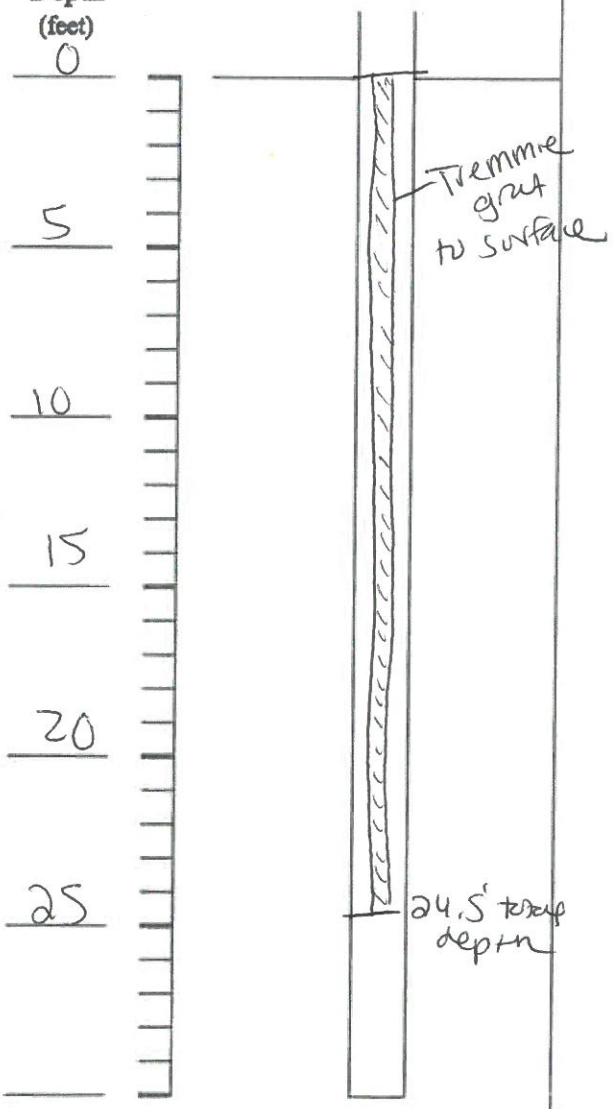
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-27D
Site Location: Menands, NY	Driller: Jolaan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-24.5
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	10
Quantity of cement used (lbs.)	150
Cement type	Quikcrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~17
Volume of grout used (gal.)	~15

WELL SCHEMATIC*



COMMENTS: Grout-in-place instead of planned overdrill due to 6" steel casing surrounding PVC. Tremmie grout to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Natural Gnd- North Albany	Well I.D.: MW-285
Site Location: Menands, NY	Driller: Rick Navarra
Drilling Co.:	Inspector: Avery Thomas
	Date: 9-14-07

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	

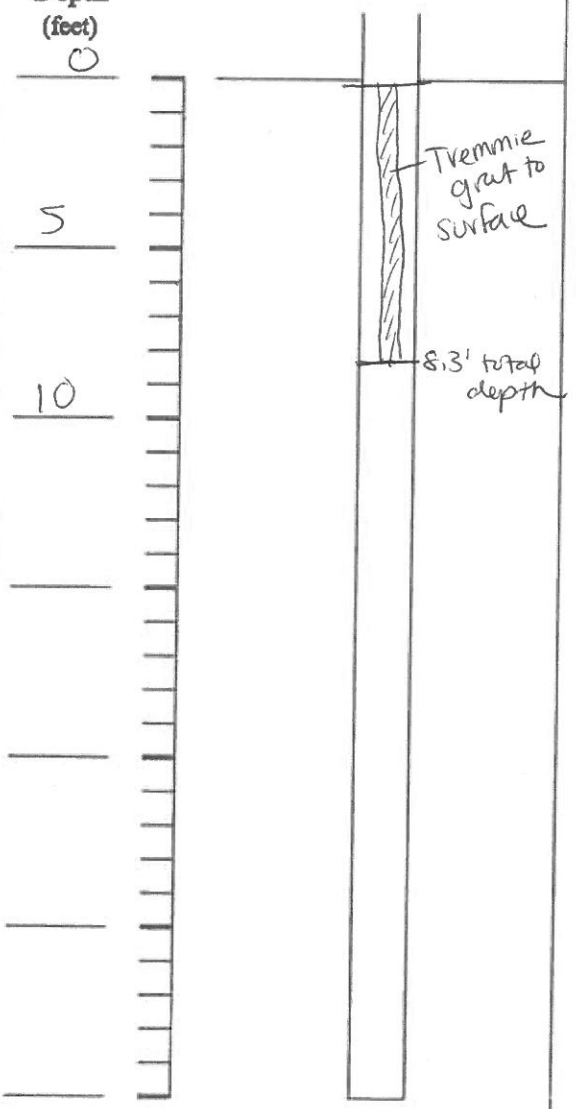
CASING PERFORATING

Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLS)	0-8.3'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	3
Quantity of cement used (lbs.)	47
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~8
Volume of grout used (gal.)	~8

WELL SCHEMATIC*



COMMENTS: Curb box and concrete pad removed, Tremmie grout to surface. New surface compacted to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

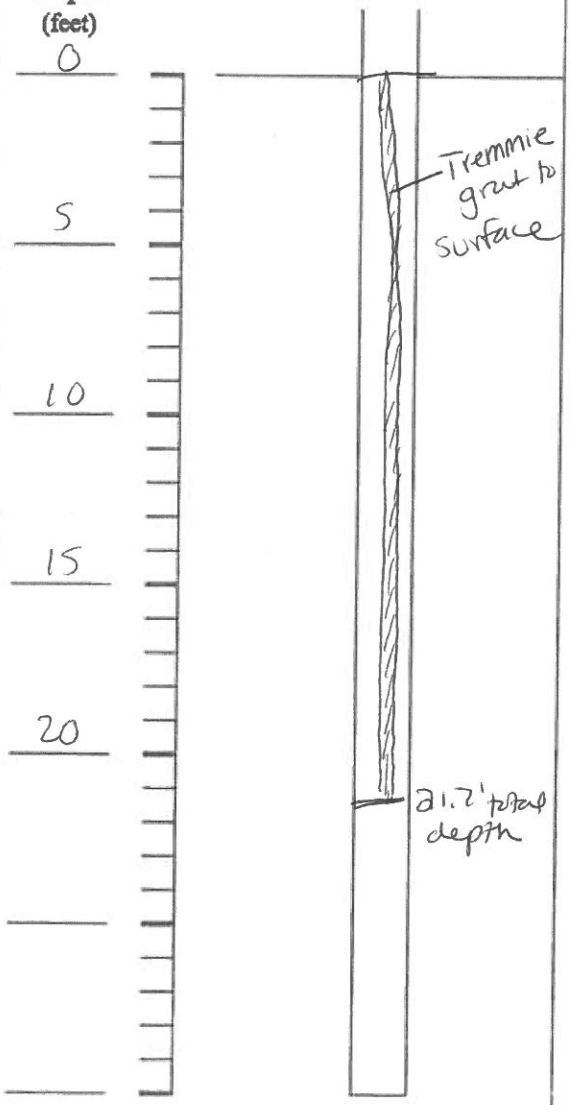
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-28D
Site Location: Menands, NY	Driller: Rick Naratka
Drilling Co.: Parratt Wolff	Inspector: Ashley Thomas
	Date: 9-14-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-21.7
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~15
Volume of grout used (gal.)	~14

WELL SCHEMATIC*



COMMENTS: Curb box and concrete pad removed. Tremmie grout to surface. New surface completion to match surrounding area. Also had steel (5") casing surrounding PVC (bedrock well)

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

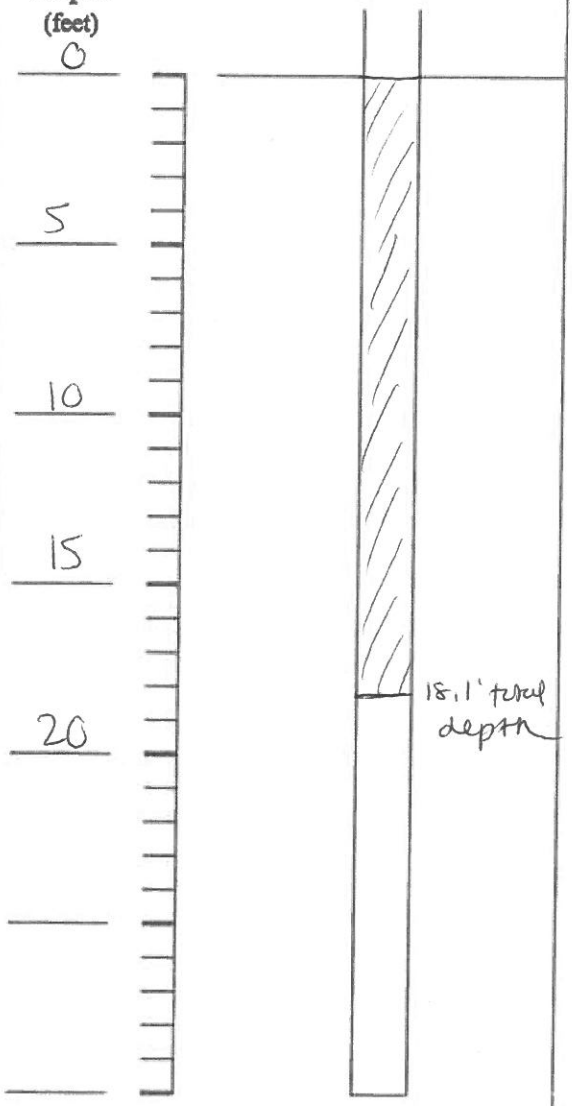
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-101
Site Location: Menands, NY	Driller: Rick Navratka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-15-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-18.1
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-18.1
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~50
Volume of grout used (gal.)	~50

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Tremmie grout to surface following overdrill. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

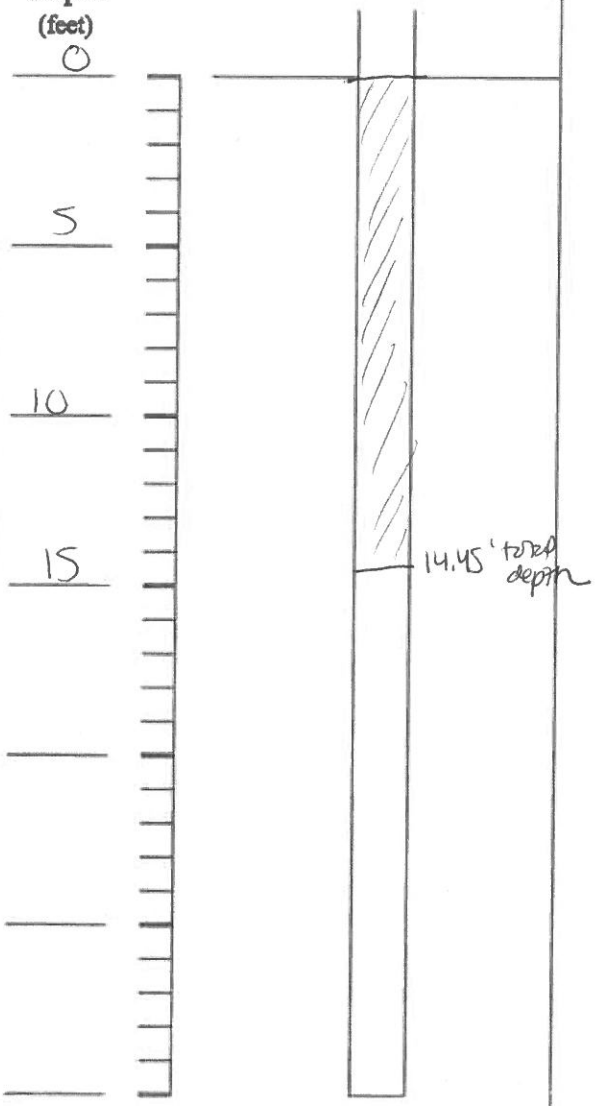
WELL DECOMMISSIONING RECORD

Site Name: National Grid- North Albany	Well I.D.: MW-102
Site Location: Menands, NY	Driller: Rick Navratka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-11-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-14.5
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-14.5
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~40
Volume of grout used (gal.)	~40

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Tremmie grout for entire overdrill. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

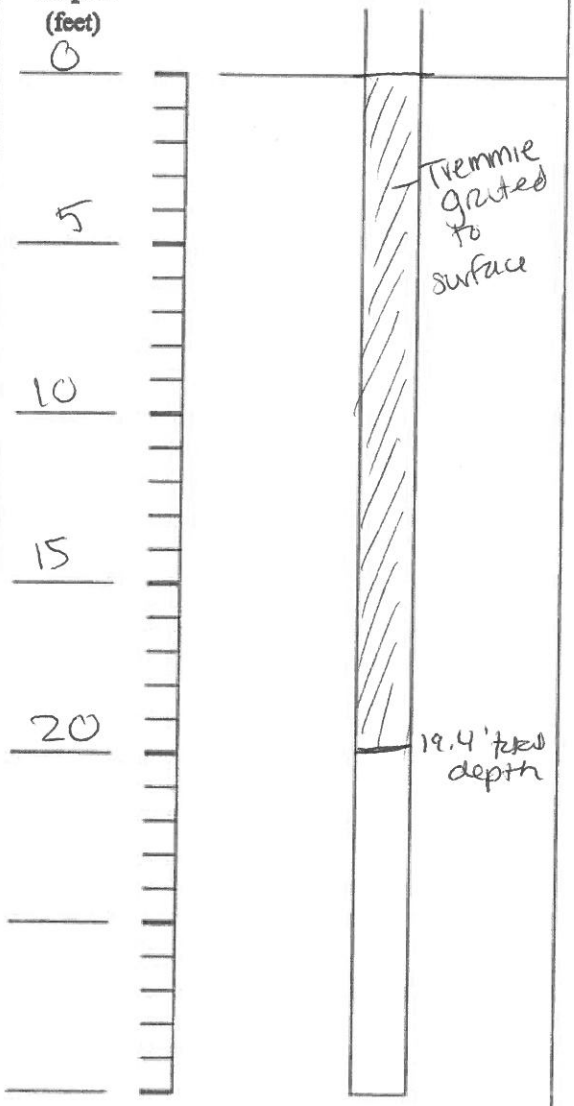
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-103
Site Location: Menands, NY	Driller: ~~Rick Nevalka~~ Mark Eaves
Drilling Co.: Parratt Wolff	Inspector: Ashley Thomas
	Date: 9-1-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-19.4'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-19.4'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	~~400~~ 94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~55
Volume of grout used (gal.)	~50

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Tremmie grout following overdrill. New surface completion to match surrounding area

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

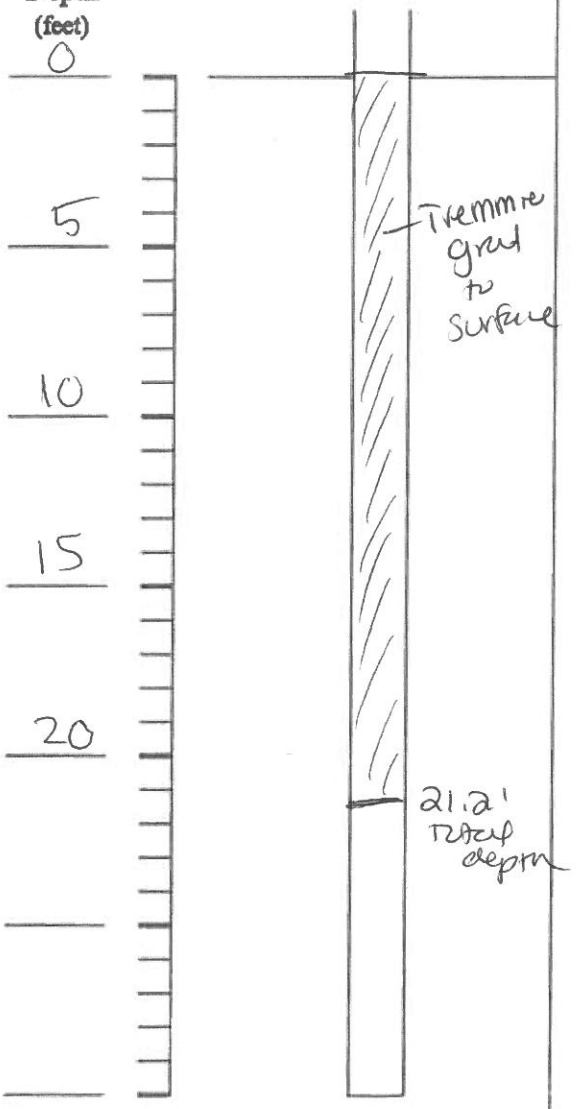
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-104
Site Location: Menands, NY	Driller: Rick Navratka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thorney
	Date: 9-14-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-21.02
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-21.2'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	~9
Quantity of cement used (lbs.)	~130
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~60
Volume of grout used (gal.)	~55

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Tremmie grouted to surface following overdrill. New surface to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

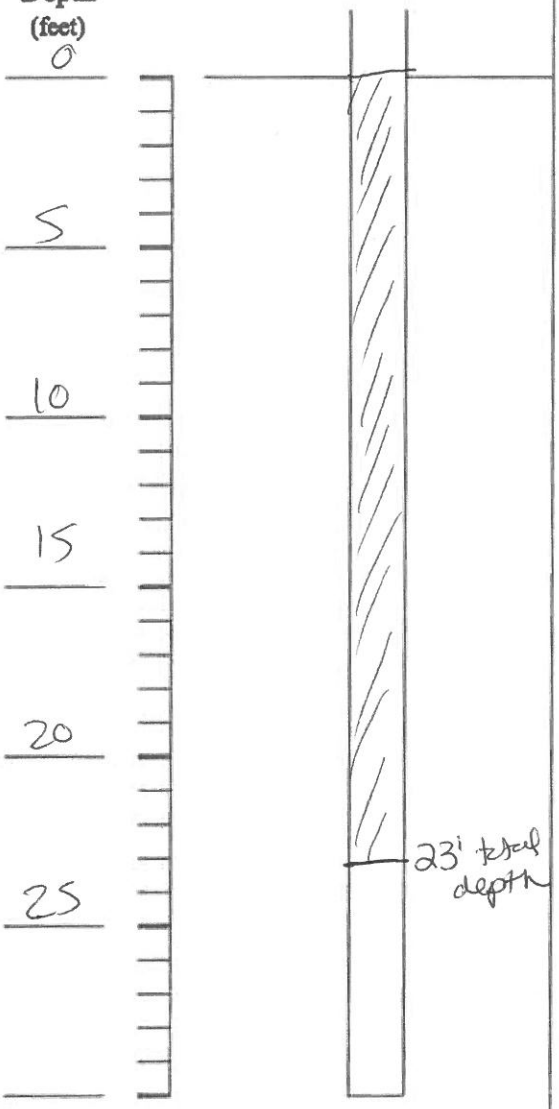
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: MW-105
Site Location: Menands, NY	Driller: Rick Navratka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Tremea
	Date: 9-13-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-23
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-23
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	~10
Quantity of cement used (lbs.)	~150
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~6.5 gal
Volume of grout used (gal.)	~6.0

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Tremmie grouted to surface following overdrill. New surface to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

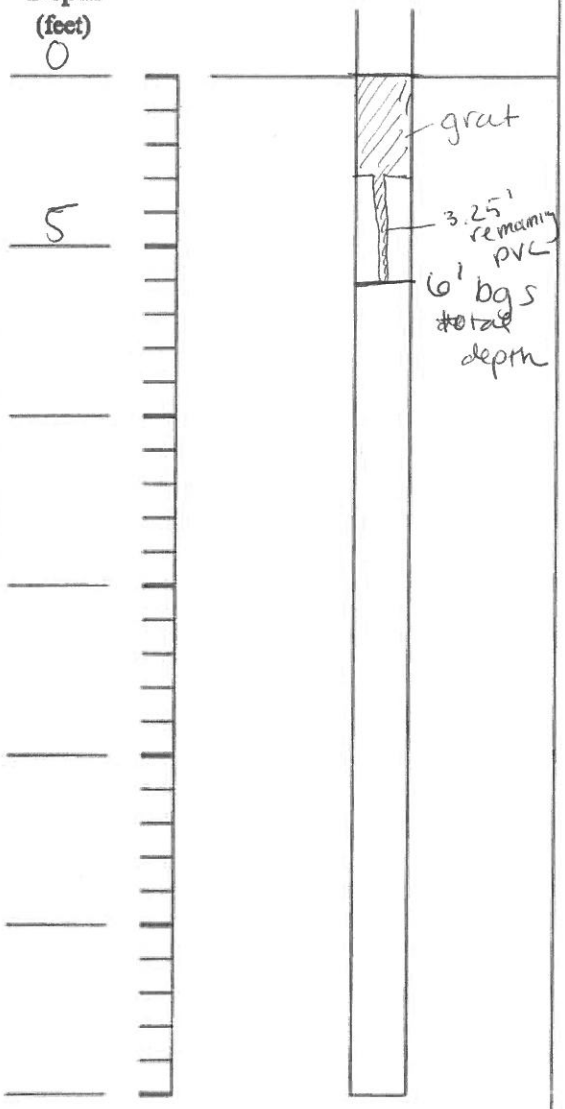
WELL DECOMMISSIONING RECORD

Site Name: National Grid-North Albany	Well I.D.: VP-104S
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Abreu Thomas
	Date: 9-12-18

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-6'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	2
Quantity of cement used (lbs.)	47
Cement type	Portland cement
Quantity of bentonite used (lbs.)	2
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	5
Volume of grout used (gal.)	2

WELL SCHEMATIC*



COMMENTS: Grout and ~~pull~~ instead of planned overdrill due to well proximity to Fiber Optic line (less than 4' away) Pulled 2.75" PVC riser. Grout to surface

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

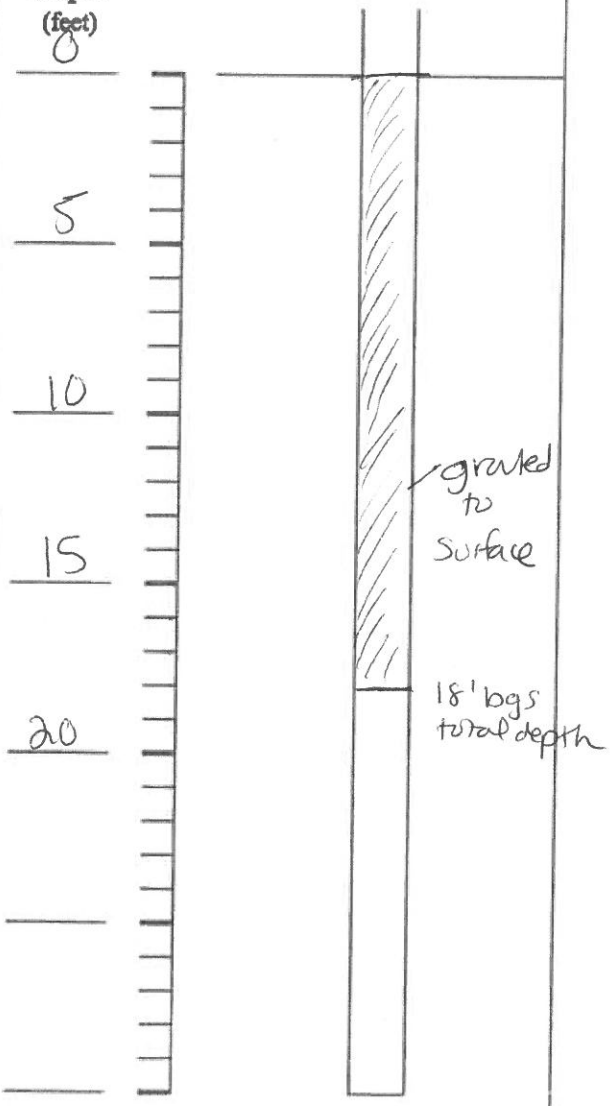
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: VP-104D
Site Location: ~~National~~ G Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-12-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-18'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Concrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	15
Volume of grout used (gal.)	12

WELL SCHEMATIC*



COMMENTS: Grut and pull instead of planned overdrill due to well proximity to Fiber Optic line (less than 4' away) & pulled 2.75' PVC riser and ~~15~~ 15' screen

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

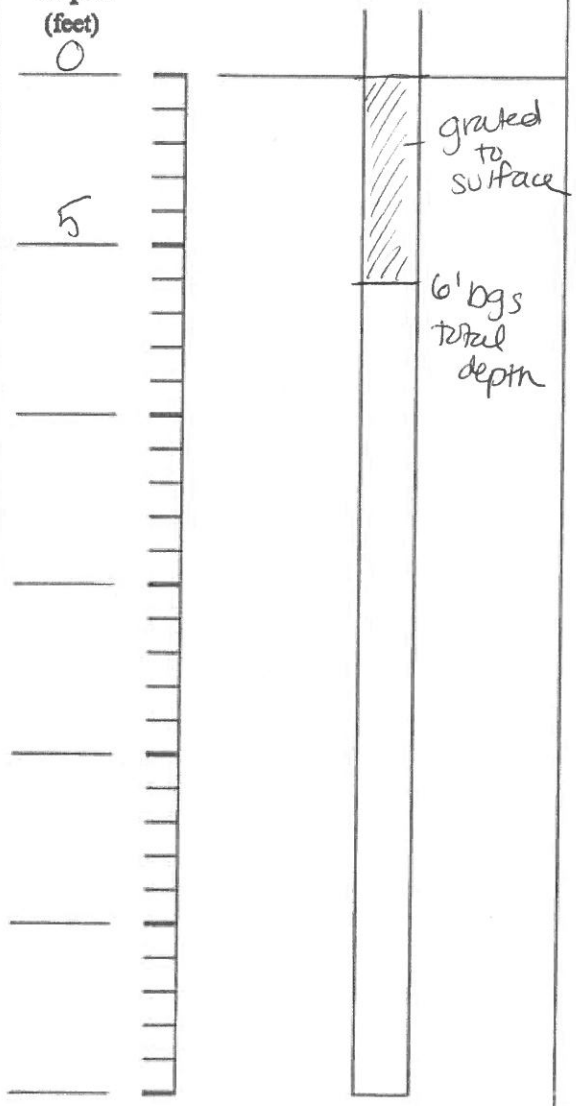
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: VP-105S
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomey
	Date: 9-12-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-6'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	2
Quantity of cement used (lbs.)	47
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	2
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	5
Volume of grout used (gal.)	2

WELL SCHEMATIC*



COMMENTS: Grut and pull instead of ~~ov~~ planned overdrill due to proximity to fiber optic line (less than 5' away). Pulled 3' of 5.5' PVC total, 3' of that screen.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: VP-105D
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thorne
	Date: 9-12-12

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING
- Interval Drilled
- Drilling Method(s)
- Borehole Dia. (in.)
- Temporary Casing Installed? (y/n)
- Depth temporary casing installed
- Casing type/dia. (in.)
- Method of installing

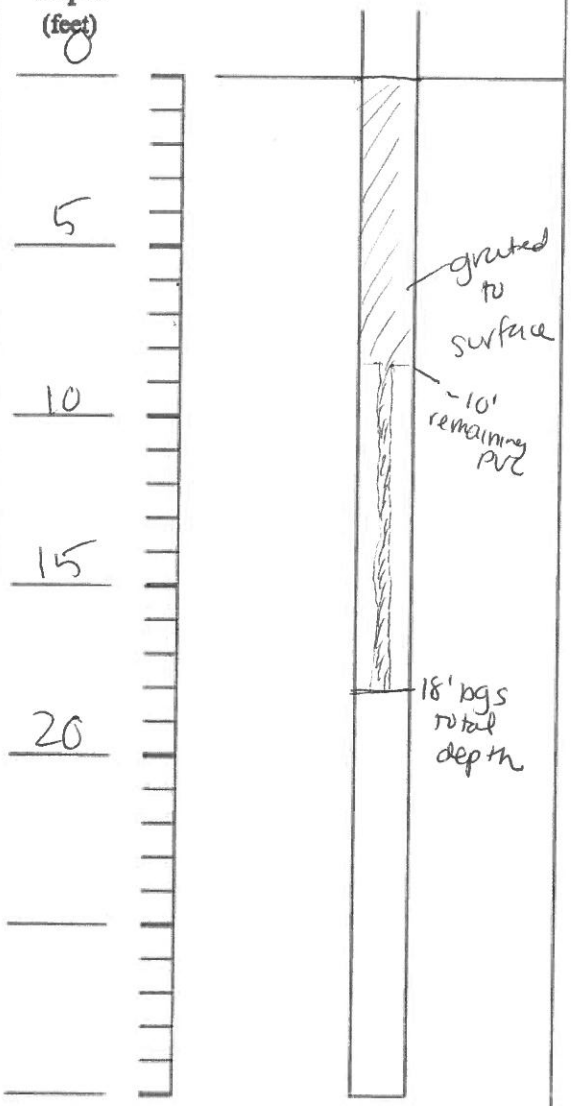
CASING PULLING
- Method employed
- Casing retrieved (feet)
- Casing type/dia. (in)

CASING PERFORATING
- Equipment used
- Number of perforations/foot
- Size of perforations
- Interval perforated

GROUTING
- Interval grouted (FBLS): 0-18'
- # of batches prepared: 1

For each batch record:
- Quantity of water used (gal.): 7
- Quantity of cement used (lbs.): 94
- Cement type: Quikrete Portland cement
- Quantity of bentonite used (lbs.): 5
- Quantity of calcium chloride used (lbs.): -
- Volume of grout prepared (gal.): 15
- Volume of grout used (gal.): 12

WELL SCHEMATIC*



COMMENTS: Grut and pull instead of planned overdrill due to proximity to fiber optic line (less than 5' away). Pulled 8.1' PVC, 3' of that being screen.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

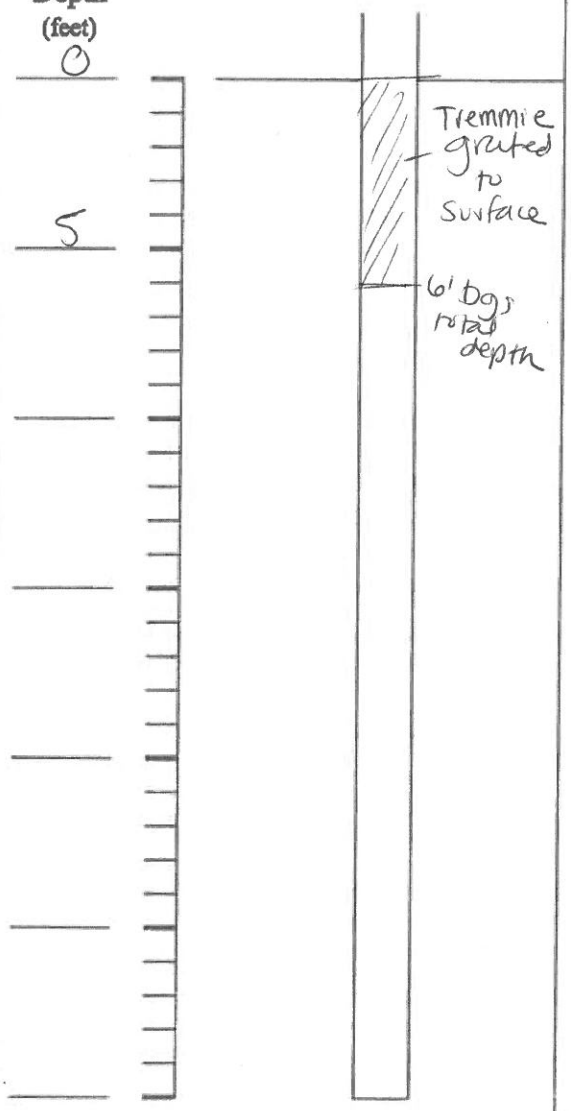
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: VP-106S
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-13-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-6'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-6'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	3
Quantity of cement used (lbs.)	50
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~~20~~
Volume of grout used (gal.)	~~16~~

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill. Able to pull all PVC prior to overdrill. Grouted to surface. Surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

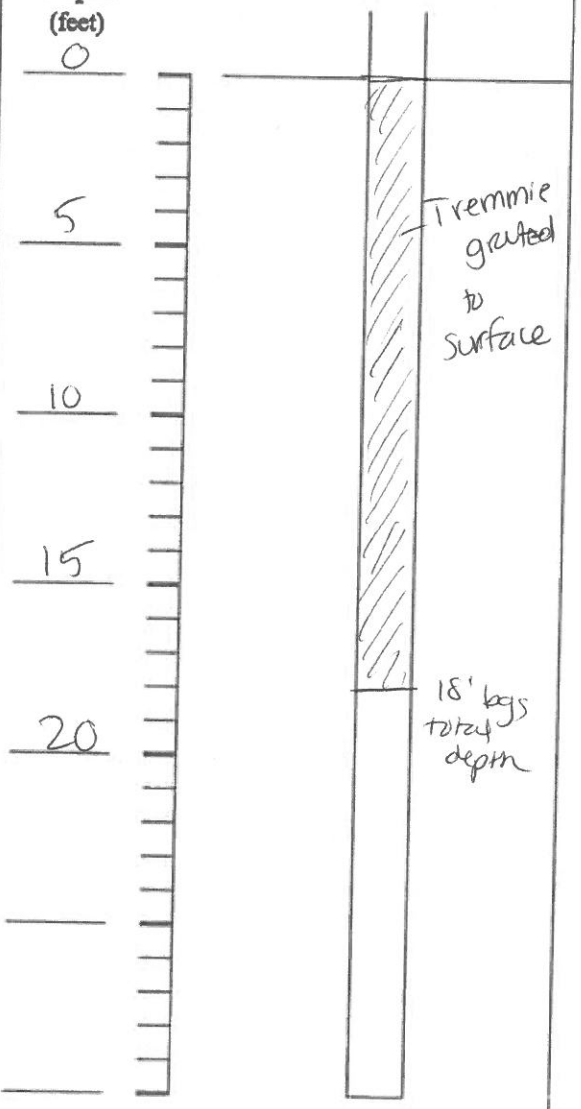
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: VP-106D
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomey
	Date: 9-13-18

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-18'
Drilling Method(s)	HSA 4'1/4"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-18'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	~~gal~~ 7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~50
Volume of grout used (gal.)	~47

WELL SCHEMATIC*



COMMENTS: PW used 4'1/4" augers to overdrill.
(AT) ~~Hole dry pack~~ Tremmie grouted to surface.
Surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

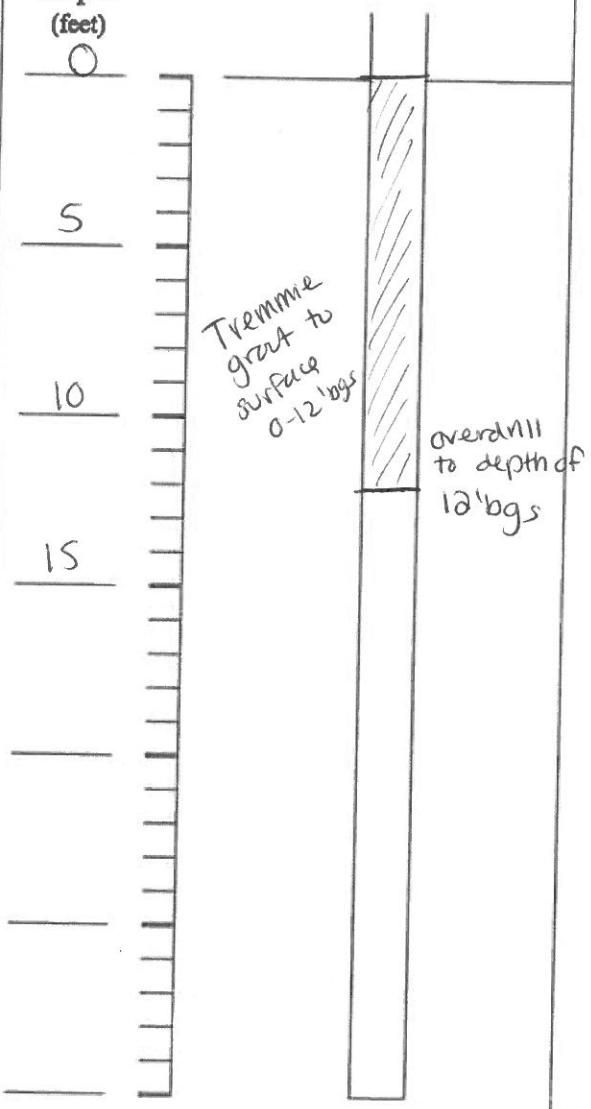
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-101S
Site Location: Menands, NY	Driller: Rick Navratka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-7-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-12' bgs
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-12' bgs
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~35
Volume of grout used (gal.)	~32

WELL SCHEMATIC*



COMMENTS: PW overdrilled using 4¼" augers to 12' bgs. Tremmie grout following overdrill to surface. Flushmount well protector removed, surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

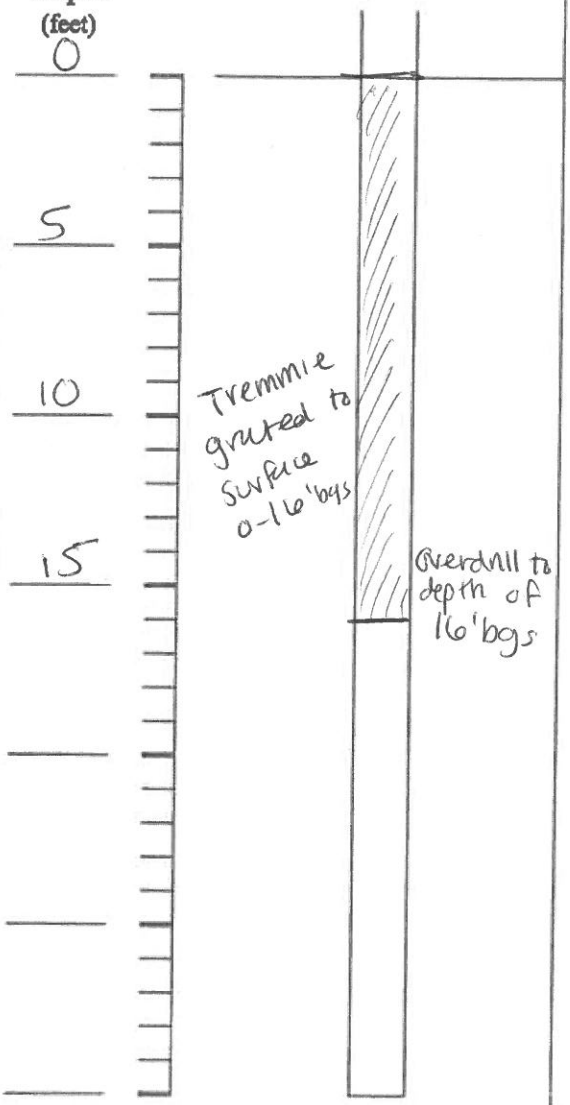
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-101 D
Site Location: Menands, NY	Driller: Rick Naratka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-11-19

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-16' bgs
Drilling Method(s)	HSA 4'1/4"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-16' bgs
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~45
Volume of grout used (gal.)	~42

WELL SCHEMATIC*



COMMENTS: PW overdrilled using 4'1/4" augers to 16' bgs. Tremmie grout following overdrill to surface. Flushmount well protector removed, surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

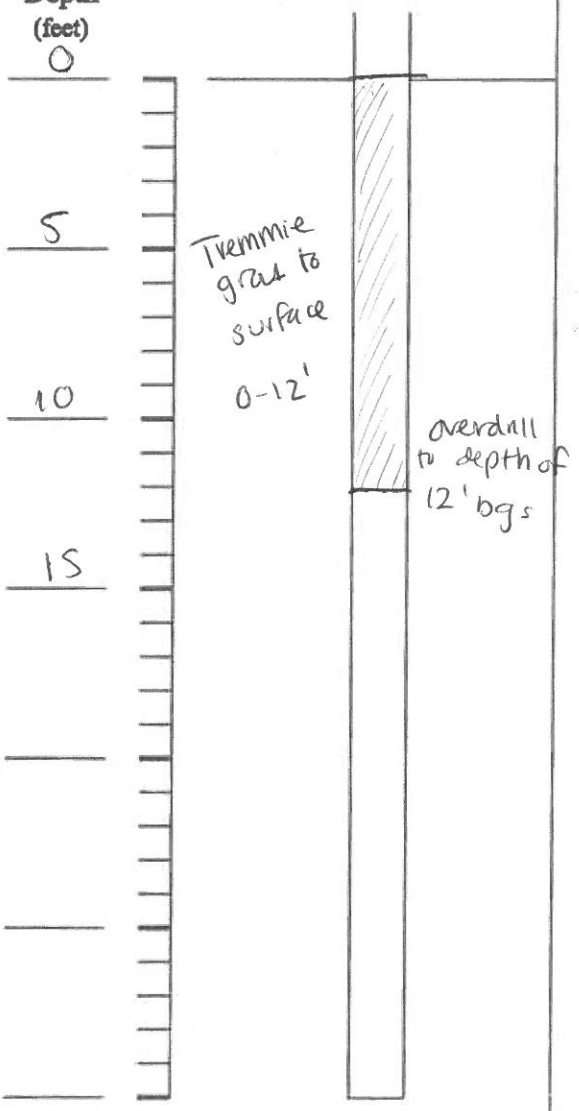
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-16DS
Site Location: Menands, NY	Driller: Rilic Narahka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomey
	Date: 9-8-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-12'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-12' bgs
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~35
Volume of grout used (gal.)	~32

WELL SCHEMATIC*



COMMENTS: PW overdrilled using 4¼" augers to 12' bgs. Tremmie grout following overdrill to surface. Flushmount well protector removed, surface competed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

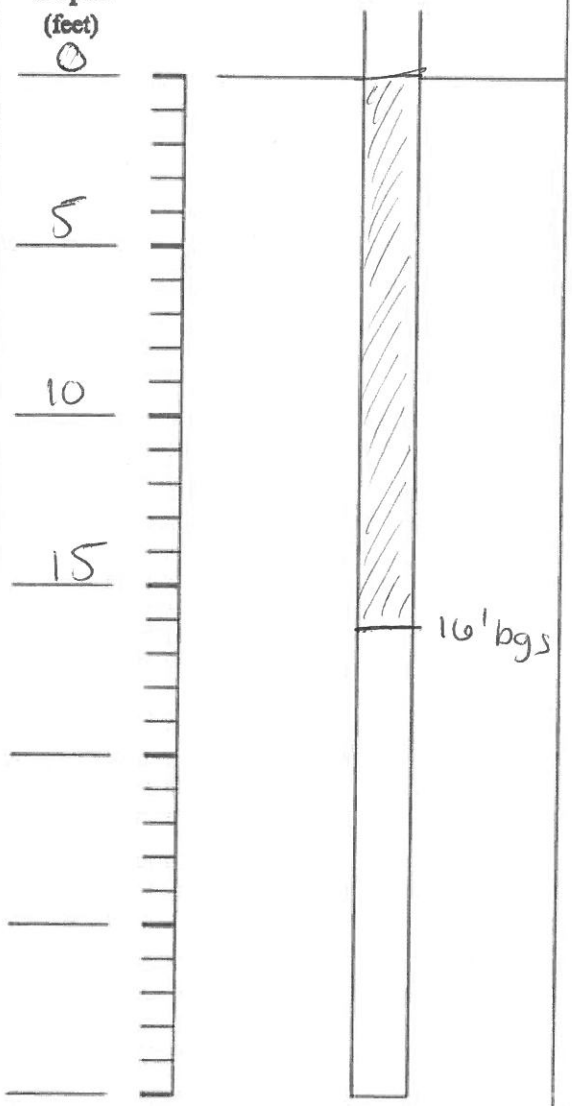
WELL DECOMMISSIONING RECORD

Site Name: National Grid- North Albany	Well I.D.: SP-102D
Site Location: Menands, NY	Driller: Ryc Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-8-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-16' bgs
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-16'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~45
Volume of grout used (gal.)	~42

WELL SCHEMATIC*



COMMENTS: PW overdrilled using 4¼" augers to 16'bgs. Tremmie grout following overdrill to surface. Flushmount well protector removed, surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: National Grid-North Albany	Well I.D.: SP-103S
Site Location: Menands, NY	Driller: Mark Eaves
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 8-31-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	12'
Drilling Method(s)	hollow stem auger
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	~~-~~ -
Method of installing	-

CASING PULLING

Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	

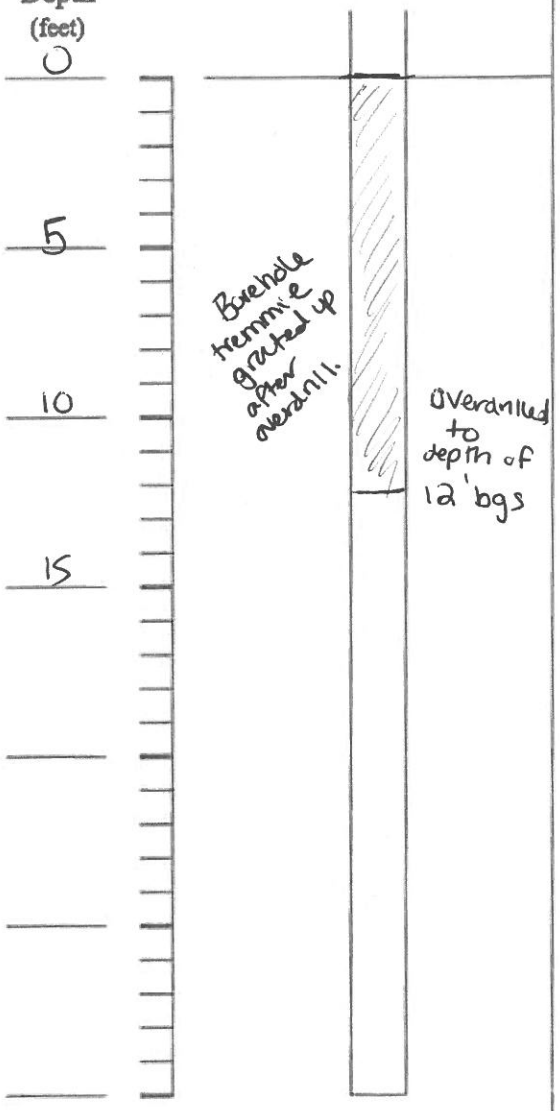
CASING PERFORATING

Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLS)	0-12'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~35
Volume of grout used (gal.)	~32

WELL SCHEMATIC*



COMMENTS: PW overdrilled SP-103S using 4 1/4" augers. Flushmount well protector/curb box removed & disposed of in drums. Soil cuttings disposed of in other drums. Borehole filled (tremmie method) with grout and surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

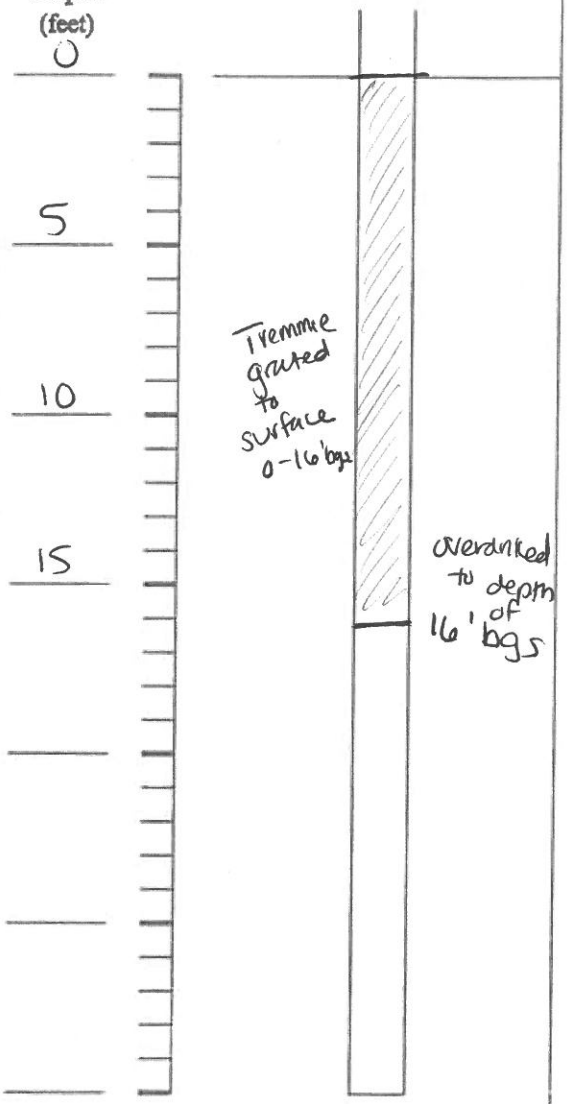
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-103D
Site Location: Menands, NY	Driller: Mark Eaves
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 8-31-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-16'
Drilling Method(s)	HSA 4 1/4"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-16'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~45
Volume of grout used (gal.)	~42

WELL SCHEMATIC*



COMMENTS: PW overdrilled to 16' bgs using 4 1/4" augers. Flushmant well protector removed, surface completed to match surrounding area. Tremmie grouted after overdrill 0-16' bgs.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

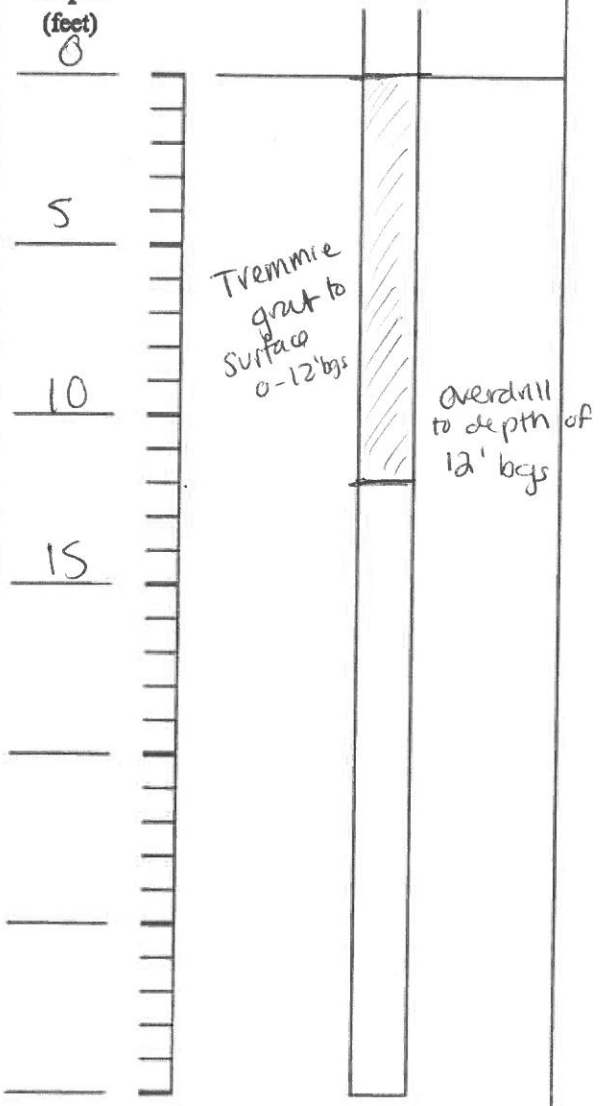
WELL DECOMMISSIONING RECORD

Site Name: National Gard- North Albany	Well I.D.: SP-104S
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Ashley Thomas
	Date: 9/6/17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-12'
Drilling Method(s)	HSA 4 1/4"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-12'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~35
Volume of grout used (gal.)	~32

WELL SCHEMATIC*



COMMENTS: PW overdrilled using 4 1/4" augers. Tremmie grouted following overdrill to surface. Flushmount well protector removed surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

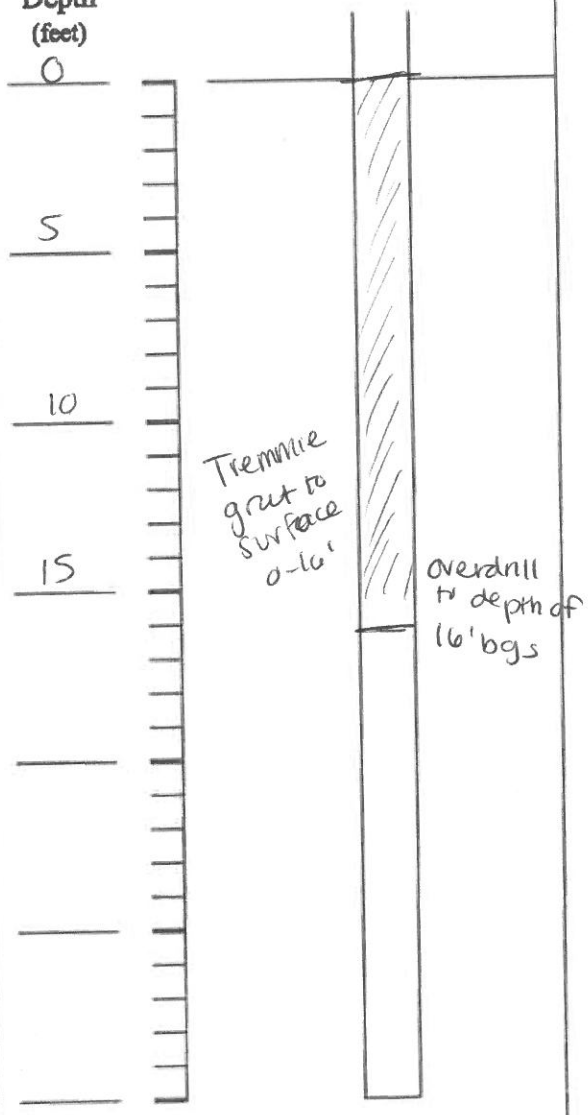
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-104D
Site Location: Menands, NY	Driller: Rick Navratka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomey
	Date: 9/6/17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-16' bgs
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-16' bgs
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~45
Volume of grout used (gal.)	~42

WELL SCHEMATIC*



COMMENTS: PW overdrilled using 4¼" augers. Tremmie grouted following overdrill to surface. Flushmount well protector removed, surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

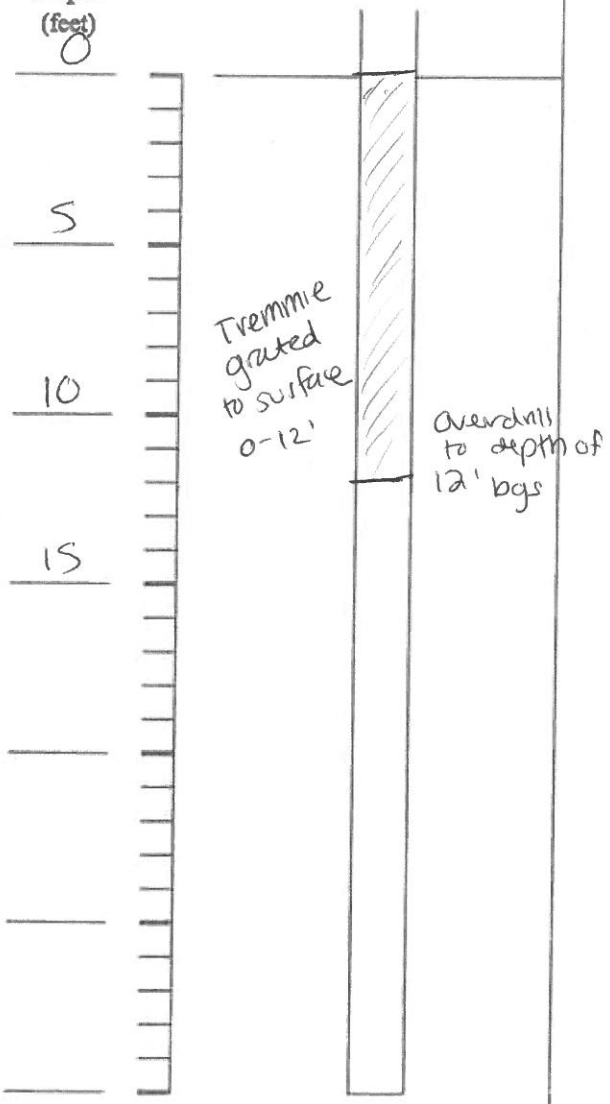
WELL DECOMMISSIONING RECORD

Site Name: National Grid - NoAm Albany	Well I.D.: SP-105S
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9/6/17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-12' bgs
Drilling Method(s)	HSA 4 1/4"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-12' bgs
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~35
Volume of grout used (gal.)	~32

WELL SCHEMATIC*



COMMENTS: PW used 4 1/4" augers to overdrill to 12' bgs. Tremmie grouted following overdrill to surface. Flushmount well protector removed, surface completed to match surrounding area.

*Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

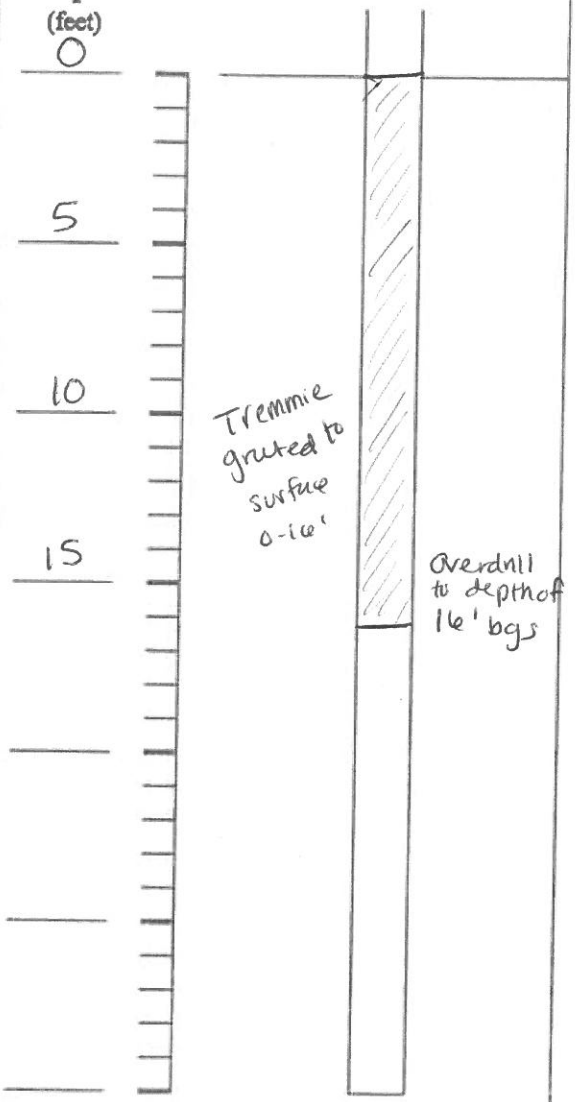
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-105D
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9/16/19

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-16'
Drilling Method(s)	HSA 4'1/4"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-16'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~45
Volume of grout used (gal.)	~42

WELL SCHEMATIC*



COMMENTS: PW used 4'1/4" augers to overdrill to 16'bgs. Tremmie grouted following overdrill to surface. Flushmount cover removed, surface completed to match surrounding areas.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

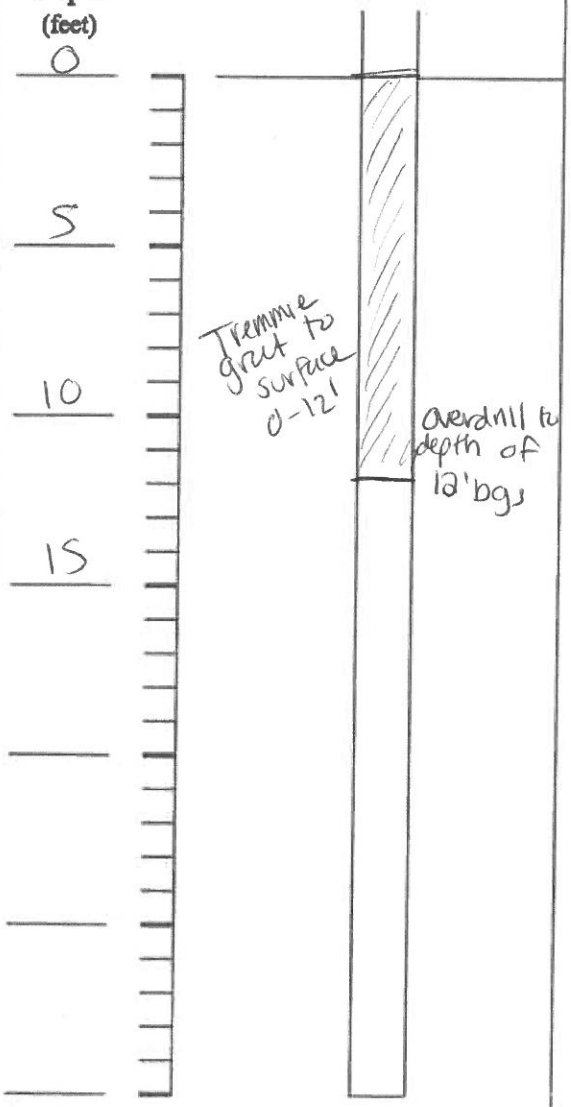
WELL DECOMMISSIONING RECORD

Site Name: National Grid- North Albany	Well I.D.: SP-1065
Site Location: Menands, NY	Driller: Rick Navratil
Drilling Co.: Parratt Wolff	Inspector: Albany Thomas
	Date: 9-7-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-12' bgs
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-12' bgs
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~35
Volume of grout used (gal.)	~32

WELL SCHEMATIC*



COMMENTS: PW overdrilled using 4¼" augers to 12' bgs. Tremmie grouted following overdrill to surface. Flush mount well protector removed, surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

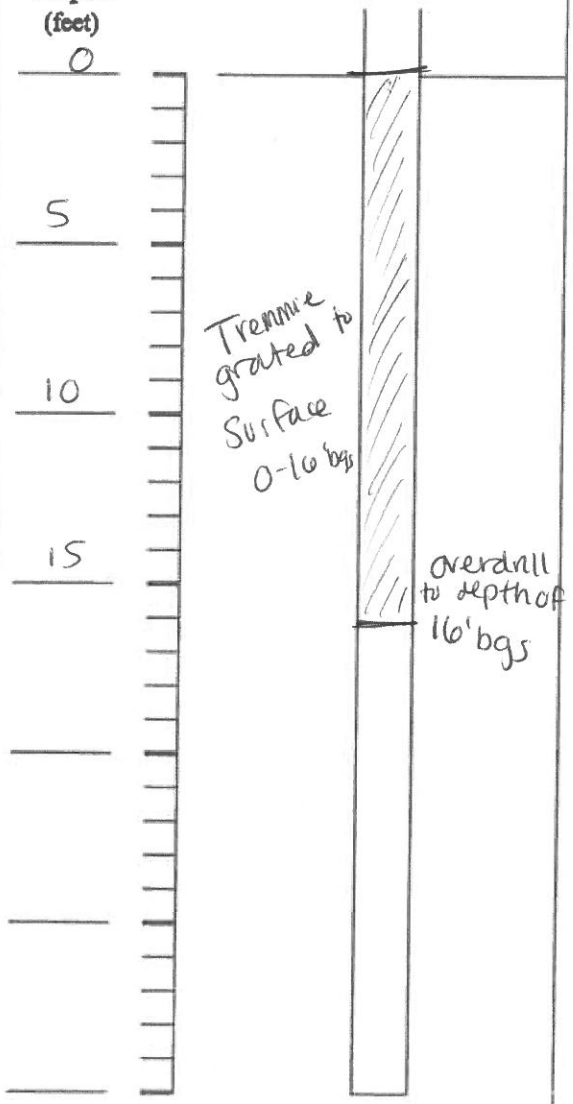
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-106D
Site Location: Menands, NY	Driller: Rick Navratka
Drilling Co.: Parratt Wolff	Inspector: Abbey Thomey
	Date: 9-7-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-16'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-16'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	~~~~7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~45
Volume of grout used (gal.)	~42

WELL SCHEMATIC*



COMMENTS: PW overdrilled using 4¼" augers to 16' bgs. Tremmie grout following overdrill to surface. Flushmount well protector removed, surface completed to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

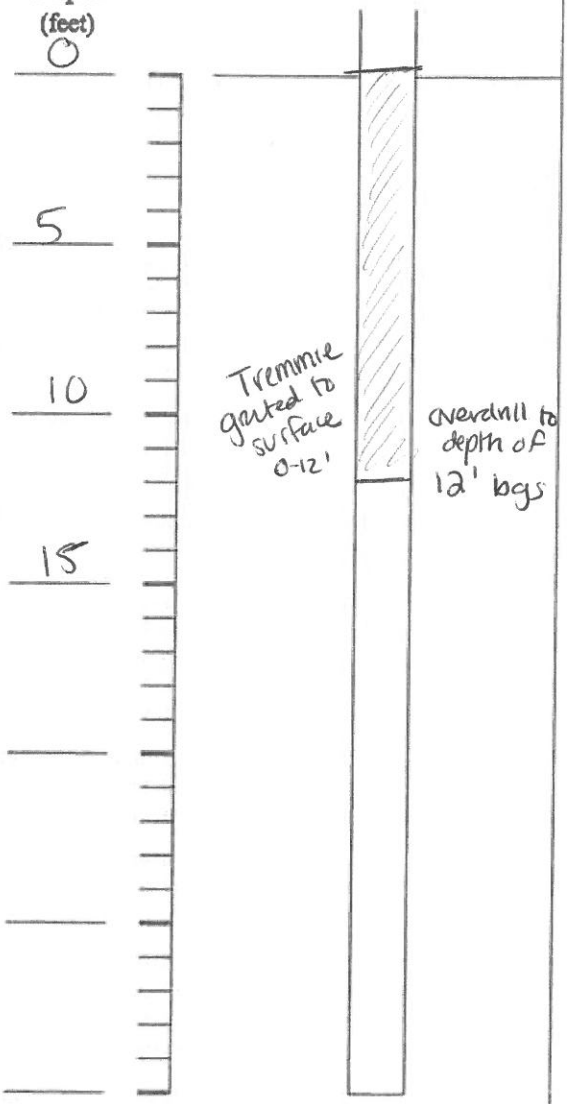
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-1075
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Abbey Nemec
	Date: 9/5/19

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-12'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-12'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Concrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~35
Volume of grout used (gal.)	~32

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill to 12'bgs. Flushmount well protector removed, surface completed to match surrounding area. Tremmie grouted after overdrilling 0-12'bgs.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

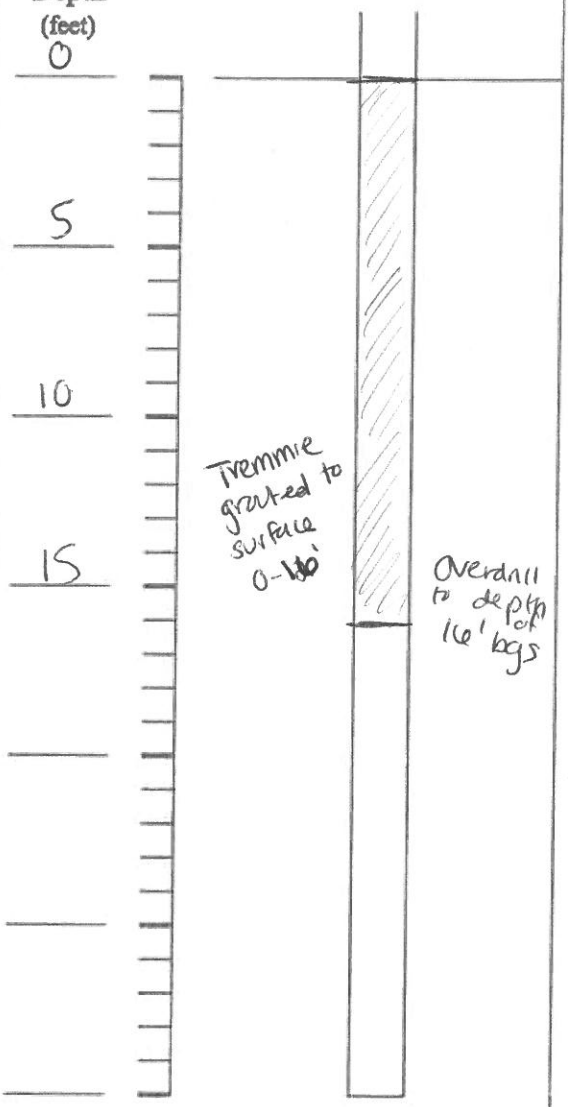
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: SP-107D
Site Location: Menands, NY	Driller: Rick Navatka
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9/5/17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-16'
Drilling Method(s)	HSA 4¼"
Borehole Dia. (in.)	8"
Temporary Casing Installed? (y/n)	n
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-16'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Concrete portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~45
Volume of grout used (gal.)	~42

WELL SCHEMATIC*



COMMENTS: PW used 4¼" augers to overdrill to 16' bgs. Flushmount well protector removed surface completed to match surrounding area. Tremmie grouted after overdrilling 0-16' bgs.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

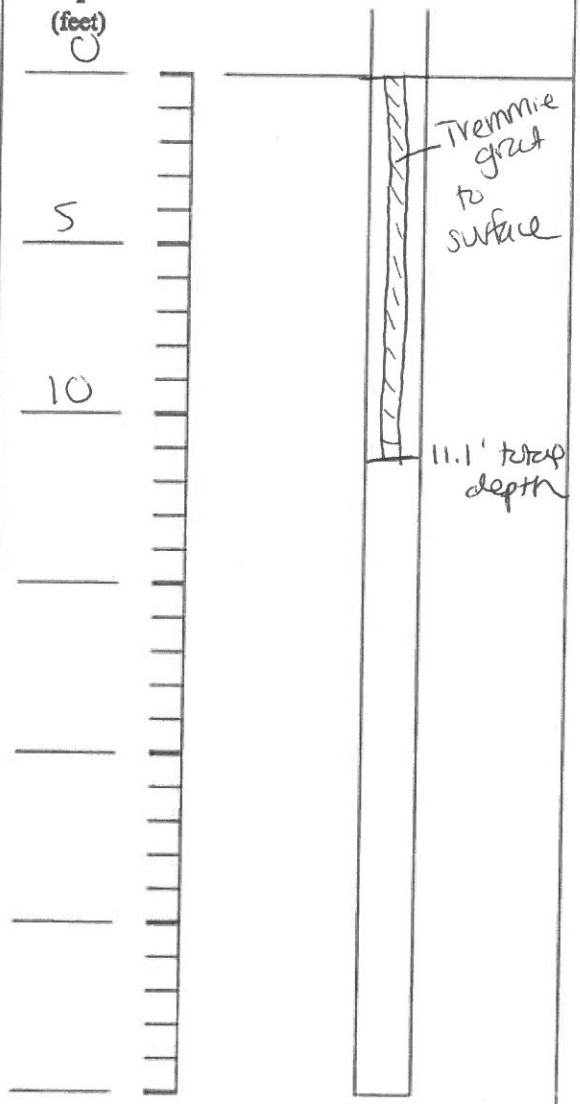
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: PZ-01S
Site Location: Menands, NY	Driller: Jordan Prze
Drilling Co.: Parratt Wolff	Inspector: Aubrey Thomas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-11.1
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	~10
Volume of grout used (gal.)	~9

WELL SCHEMATIC*



COMMENTS: Removed CWD box and conc. pad. Could not Tremmie grout to surface. New surface completion to match surrounding area. SKETCH

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Contractor

Department Representative

FIGURE 3

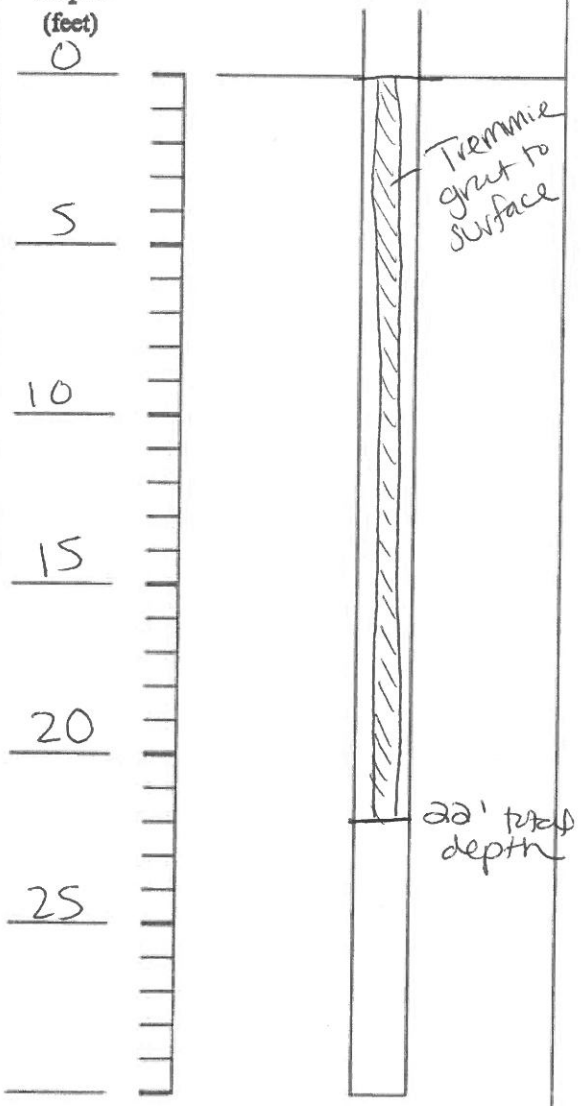
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: PZ-01D
Site Location: Menands, NY	Driller: Jolaan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Tremeau
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-22'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	10
Quantity of cement used (lbs.)	150
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	~15
Volume of grout used (gal.)	~13

WELL SCHEMATIC*



COMMENTS: Removed curb box and concrete pad. Tremmie grout to surface. New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

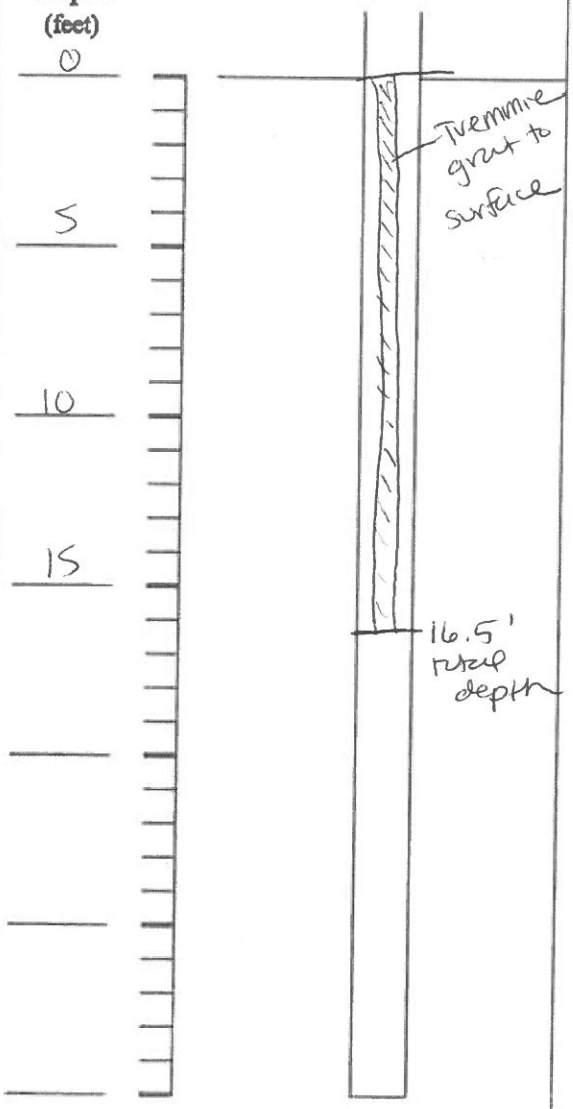
WELL DECOMMISSIONING RECORD

Site Name: National Grid - North Albany	Well I.D.: PZ-02
Site Location: Menands, NY	Driller: Jalaan Price
Drilling Co.: Parratt Wolff	Inspector: Aubrey Tremmas
	Date: 9-19-17

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-16.5
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7
Quantity of cement used (lbs.)	94
Cement type	Quikrete Portland cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	~11
Volume of grout used (gal.)	~11

WELL SCHEMATIC*



COMMENTS: Curb box and conc. pad removed, Tremmie grout to surface, New surface completion to match surrounding area.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

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