

Triple Cities Metal Finishing Corporation

BROOME COUNTY, NEW YORK

Final Engineering Report

NYSDEC BCP Site Number: C704045

Prepared for:

Binghamton Realty, Inc.

349 Industrial Park Drive, Binghamton, NY 13901

Prepared by:

GeoLogic NY, Inc.

PO Box 350, Homer, NY 13077

607-749-5000

DECEMBER 2016

CERTIFICATIONS

I, KENNETH J. TETER am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Final Engineering Report and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Kenneth J. Teter, of 32 Clinton Street, Homer, NY 13077, am certifying as Owner's Designated Site Representative for the site.



#081583

12/5/16

Date

A handwritten signature in blue ink, appearing to read "Kenneth J. Teter", written over a horizontal line.

Signature

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List of Acronyms

BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SSD	Sub-slab Depressurization
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TCMF	Triple Cities Metal Finishing
VOC	Volatile Organic Compound

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

Binghamton Realty, Inc. entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in December 2004, to investigate and remediate a 0.953-acre property located in Binghamton, Broome County, New York. The property was remediated to commercial use.

The site is the former Triple Cities Metals Finishing Corporation (Triple Cities Metal Finishing - TCMF) facility located in the County of Broome, New York and is identified as Section 129.05 Block 5 Lot 4-2 and Section 129.05 Block 5 Lot 4-5 on the Broome County Tax Map # 129.05-4-2 and 129.05-4-5. The site is situated on an approximately 0.953-acre area bounded by Nowlan Road to the north, Beckwith Avenue to the south. Adjoining properties include the BW Elliot Manufacturing Co. (former CAE Electronics a State Superfund Site) to the east, an electrical contractor, a residence and an automotive repair business to the west; a gas station, a multi-tenant commercial plaza and residences to the north, and residences to the south west (see Figure 1). The boundaries of the site are fully described in Appendix A: Survey Map, Metes and Bounds.

An electronic copy of this FER with all supporting documentation is included as Appendix H.

2.0 SUMMARY OF SITE REMEDY

Based on the results of the Remedial Investigation (RI), the following Remedial Action Objectives (RAOs) were identified for this site.

2.1 REMEDIAL ACTION OBJECTIVES

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of groundwater and surface water contamination.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.1.3 Soil Vapor RAOs

RAOs for Public Health Protection.

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

The Site was remediated in accordance with the remedy selected by the NYSDEC in the RAWP dated July 2015 with addendums to the RAWP submitted on January 29, 2016 and July 18, 2016.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Source Area Removal - Excavation of soil/fill exceeding Soil Cleanup Objectives (SCOs) for the Protection of Groundwater set forth in Table 375-6.8(b) of 6 NYCRR Part 375;
2. Source Area Stabilization - Application of stabilization product through injection;
3. Construction and maintenance of a soil cover system consisting of a soil cover at Outfall 002A and Outfall 003 exceeding 12 inches of imported backfill material and capped with asphalt to prevent human exposure to remaining contaminated soil/fill remaining at the site;

4. Presence of the building acts as a cover system to prevent human exposure to remaining contaminated soil/fill remaining on the site;
5. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site;
6. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;
7. Periodic certification of the institutional and engineering controls listed above.

3.0 INTERIM REMEDIAL MEASURES

The evaluation of the potential for soil vapor intrusion was completed in 2005 with soil vapor samples collected beneath the site's industrial building. VOCs were present at elevated concentrations in soil vapor ranging from 74 to 1,000 ug/m³ for 1,1,1-trichloroethane and 160 to 270 ug/m³ for trichloroethene.

As a result of elevated concentrations of VOCs in sub-slab soil vapor samples, a sub-slab depressurization (SSD) system was installed in the East Addition of the industrial building in January, 2006. At that time the East Addition was the only occupied portion of the industrial building. Due to changes in building use, the SSD system has been expanded twice as additional areas in the industrial building have become occupied by the tenant. There are currently seventeen vapor extraction points connected to two separate roof-mounted blowers. The component locations and coverage of the SSD system are depicted in Figure 2.

4.0 DESCRIPTION OF REMEDIAL ACTIONS COMPLETED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) for the TCMF site July 2015 with addendums to the RAWP dated February 29, 2016 and July 18, 2016.

4.1 GOVERNING DOCUMENTS

4.1.1 Sampling and Analysis Plan

The Sampling and Analysis Plan was included as Appendix D of the Remedial Action Work Plan (RAWP) approved by the NYSDEC. The Sampling and Analysis Plan describes the specific policies, objectives, organization, functional activities and quality assurance/quality control activities designed to achieve the project data quality objectives.

4.1.2 Site Specific Health and Safety Plan (HASP)

All remedial work performed under this Remedial Action was in compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) that was included in Appendix E of the RAWP was complied with for all remedial and invasive work performed at the Site.

4.1.3 Community Air Monitoring Plan (CAMP)

A Community Air Monitoring Plan was part of the above noted HASP. Real-time fugitive dust monitoring was conducted during excavation activities at Outfall 002 and 003, upwind and downwind of the work zone. The atmosphere (background and breathing zone) was monitored for volatile compounds.

4.2 CONTRACTORS AND CONSULTANTS

Environmental Consultant:	GeoLogic NY, Inc.
Project Engineer:	Kenneth Teter, P.E.
Laboratory:	Pace Analytical
Injection Contractor:	GeoLogic NY, Inc.
Excavation Contractor	J. N. Giammarino Construction, Inc.
Stabilization Vendor:	Forrester Environmental Services, Inc.
Hazardous Waste Hauler	Nexeo Solutions

4.3 SOURCE AREA REMOVAL

Prior to 1986, sanitary and process wastewater was discharged to three subsurface leaching systems (Outfall 001, 002 and 003), two of which (Outfall 001 and 002) were regulated by the State Pollution Discharge Elimination System Permit (SPDES) from 1980 to 1986. By early 1986, TCMF connected to the municipal sanitary sewer system, and discharges to the SPDES permitted outfalls were discontinued. Removal of Outfalls 002 and 003 was part of the Remedial Action work scope. See Figure 3.

4.3.1 Outfall 002A and 002B

Outfall 002 consisted of two leaching structures, 002A and 002B. Outfall 002A located outside of the industrial building footprint was a concrete structure that was 6.5 feet in diameter and extended from 2.5 feet below ground surface (bgs) to 16 feet bgs.

During previous evaluations of Outfall 002A during the Remedial Investigation (RI), waste sediments were observed within the concrete leaching structure. This waste was identified as hazardous waste due to toxicity; cadmium was at a concentration that exceeded the Toxicity Characteristic Leaching Procedures (TCLP) level of 1.0 mg/L. The color of the waste was an orange-red making it distinguishable from the surrounding backfill and native soils.

On November 2 and 3, 2015, the area around the Outfall 002A drywell structure, associated piping, waste sediments and underlying native soils were excavated to extent feasible. Monitoring well MW-2 was also removed. The backfill surrounding the structure was gravel with little fine-grained material. The location of Outfall 002A structure was within three feet of the building foundation, therefore a southern section of the concrete structure was left in place to provide structural integrity of the soils underlying the building foundation.

Approximately 82.4 tons of non-hazardous waste and six cubic yards of hazardous waste and surrounding impacted soils were removed from the Site. Segregation of the materials was based on color.

Although the structure for Outfall 002B, that was located under the industrial building west addition, was not part of the source removal component of the RAWP, the area outside the building footprint and adjacent to this location was excavated to a depth of 4.5 feet bgs. No visual evidence of impacted soils

was observed. The top two feet of material excavated from this exploratory excavation was placed back into the excavation; the remaining approximate 3.5 tons of soil were removed from the Site.

4.3.2 Outfall 003

On November 3, 2015, excavation at Outfall 003 commenced. A previously unknown septic tank was encountered that had not been discharged to since 1986. The top of the septic tank was exposed and the tank was accessed to evaluate content. The 1,000-gallon septic tank measured 10 feet long, 4 feet wide and 5 feet deep. The tank contained both water and sediments. A combined sample of the content was initially collected for waste characterization purposes. The liquid content was evacuated from the tank and containerized for separate waste characterization from the sediments. Additional separate samples were collected of the sediments and the water for waste characterization.

From February 15 through 18, 2016, Outfall 003 was removed via excavation. A trench box was placed to assist in the excavation. Outfall 003 consisted of the 1,000-gallon septic tank that discharged to a 5-foot diameter cinderblock drywell structure with a concrete lid that extended from 2 feet bgs to a depth of 10 feet bgs. No waste sediments were observed within the drywell structure.

A total of 188.88 tons of non-hazardous waste excavated in this area was removed from the Site.

4.3.3 Confirmation Sampling

Confirmation soil samples were collected from the limits of the excavation to verify whether the soils that have been impacted by metals have been removed, and remaining soils meet the SCOs for the Protection of Groundwater set forth in Table 375-6.8(b) of 6 NYCRR Part 375.

Due to the inability to obtain representative sidewall samples from the excavation of Outfall 003 because of the placement of the trench box, and from Outfall 002 because a portion of the drywall structure was left in-place, confirmation sampling for all three areas was performed by the advancement of borings. Two borings were advanced at Outfall 002A, one boring at Outfall 002B and three borings at Outfall 003 for the collection of bottom and sidewall samples

from the excavation limits.

Soil samples were submitted for analysis for RCRA metals by EPA Methods 6010 and 7471, and volatile organic compounds on the Target Compound List by EPA Method 8260.

Arsenic, barium, lead, silver and acetone were detected in the confirmation soil samples at concentrations below the SCOs for the Protection of Groundwater. Cadmium and chromium were also detected in these samples at levels that exceed the SCO for the Protection of Groundwater.

See Figures 4 through 7 for the Outfall locations, cross-section schematics of excavation, post-excavation confirmation sample locations and contaminant concentrations.

The following table summarizes the concentration ranges of cadmium and chromium from samples collected during previous investigations, both under RCRA and the BCP, prior to the removal of Outfall 002A and 003, and the concentrations ranges reported in the post-excavation confirmation samples.

Table 4-1 Pre-and Post Source Area Excavation of Subsurface Soils/Sediments Contaminant Concentrations, Outfall 002 and 003

Contaminants of Concern	Pre-Excavation Concentration Range Detected (ppm) ^a	Post-Excavation Concentration Range Detected (ppm) ^a	6NYCRR Part 375 SCO Protection of Groundwater (mg/kg)
Outfall 002A			
Cadmium	15 to 68	19.8-45.3	7.5
Chromium	910 to 3,700	246-895	19
Outfall 002B			
Cadmium	340 to 650	44.0	7.5
Chromium	180 to 7,100	29.8	19
Outfall 003			
Cadmium	8.4 to 410	24.5-59.2	7.5
Chromium	16.4 to 1,310	21.8-77.6	19

a - ppm = parts per million, which is equivalent to milligrams per kilogram, mg/kg, in soil

ND – Not detected above the method detection limits

Although total concentrations of cadmium and chromium in the subsurface have decreased with the removal of the outfall areas, concentrations still exceed the SCOs for the Protection of Groundwater.

4.3.4 Imported Fill Material

Backfill was imported to the Site from the F. S. Lopke Contracting, Inc. gravel mine located in Apalachin, New York. A sample from the current source area for bank run gravel within the mine was collected on October 22, 2015 for analysis in accordance with NYSDEC DER-10 5.4(e) 10 for soil quantities between 50 and 100 cubic yards. The analytical results indicate that the backfill material meet the Unrestricted Use criteria.

A total of 85.92 tons (approximately 56 cubic yards) of bank run gravel was delivered to the site on November 3, 2015 for backfilling the excavations of Outfall 002A and Outfall 002B.

For the excavation activities that were completed at Outfall 003 between February 15 and February 18, 2016, an additional 186.99 tons (approximately 125 cubic yards) of bank run gravel was delivered to the Site on February 17 and 18, 2016. Therefore, two additional discrete samples from the backfill material were collected and analyzed for volatile organic compounds to satisfy NYSDEC DER-10 (DER-10) 5.4(e) 10 testing requirements for imported soil quantities between 100 and 200 cubic yards.

The analytical results indicate that the imported fill meet the requirements set forth in DER-10.

The records for the 272.8 tons of imported fill material are included in Appendix B and the associated laboratory analyses are included in Appendix F. Backfill was placed at the Site at the locations depicted on Figure 4.

4.3.5 Material Characterization and Disposal

4.3.5.1 Non-Hazardous Waste Disposal

J. N. Giammarino Construction Inc. provided the transportation of excavated soils and outfall structures during source removal activities.

On October 9, 2015, prior to commencing source removal activities, three borings were advanced and soil samples were collected at Outfall 002A, Outfall 002B and Outfall 003 for waste characterization purposes.

Borings WC-1 and WC-2 were advanced to 20 feet bgs, and WC-3 was advanced to 12 feet bgs. The samples submitted for waste characterization were based on the visual discoloration of the collected soils that suggested impact by metal wastes. The locations and depths of the samples submitted for analysis of the waste characterization borings WC-1, WC-2 and WC-3 are depicted in Figure 8.

The samples were submitted for laboratory analysis for TCLP by EPA Method 8260 for volatile organic compounds, by EPA Method 8270 for semi-volatile compounds and by EPA Method 6010 and 7470 for RCRA metals, and for total PCB content by EPA Method 8082. These samples were composited by the laboratory prior to analysis. The results indicated that the soils did not exceed hazardous waste levels.

These results along with historical analytical data collected under previous RCRA evaluations at the Site in the outfall areas for total concentrations of volatile organic compounds and metals in soils were provided to Laurie Haskell, Solid Waste Specialist with Broome County Landfill Division of Solid Waste Management for review. The email correspondence and letter of acceptance for J. N. Giammarino Construction to transport this waste to their facility is included in Appendix C.

A total of 262.98 tons of waste was transported from the Site and disposed of at the Broome County Landfill. The Waste Shipment Records and Broome County Landfill receipts are also included in Appendix C.

4.3.5.2 Hazardous Waste Disposal

The waste sediments and surrounding impacted discolored soils removed from Outfall 002A were containerized in T-Packs and characterized for shipment and disposal by Nexeo Solutions. Nexeo provided the T-Pack packaging, established the analytical scope for waste characterization, and provided waste management and disposal services for the hazardous waste.

A sample of this excavated waste was submitted for laboratory analysis for TCLP by EPA Method 8260 for volatile organic compounds, by EPA Method 8270 for semi-volatile compounds and by EPA Method 6010 and 7470 for RCRA metals, and for total PCB content by EPA Method 8082. The analysis indicated that cadmium concentrations of 1.92 mg/L exceeded the TCLP of 1.0 mg/L for cadmium.

4.3.6 CAMP Results

Volatile organic compound (VOC) monitoring was performed over the course of the work day during excavation activities using a photoionization detector with a 10.6 eV lamp within the work zone. Exceedances in VOC monitoring levels were not anticipated since VOCs were not detected in pre-excavation soil samples. No readings above background were recorded during intrusive activities.

Real-time fugitive dust monitoring was conducted during excavation activities at Outfall 002 and 003, upwind and downwind of the work zone on November 2, 3 and 23, 2015 and February 15 and 17, 2016. No fugitive dust monitoring was performed on February 16, 2016; rainfall occurred during work hours. The action level of 150 micrograms-per-cubic-meter was not exceeded downwind of the work zone during the noted work days.

Copies of real-time fugitive dust monitoring field data charts are provided in Appendix D.

4.4 GROUNDWATER EVALUATION

4.4.1 Pre- and Post Source Area Removal Groundwater Sampling

Monitoring wells were installed as part of the RCRA and BCP Remedial Investigations between 2000 and 2001. Groundwater samples have been analyzed by EPA Method 8260 for volatile organic compounds and by EPA Method 6010 and 7470 for RCRA metals. The VOCs in groundwater, especially trichloroethene, have

also been found in upgradient monitoring wells at similar or greater concentrations to the concentrations observed in on-site and downgradient wells. These VOCs appear to be associated with prior releases at the adjacent CAE Electronic site (Site No. 704045), therefore the presence of VOC compounds in groundwater does not indicate site-related impacts.

Groundwater samples were collected prior to the commencement of source removal activities via excavation at Outfalls 002 and Outfall 003. The pre-excavation monitoring was to include the collection of groundwater samples from monitoring wells MW-1 through MW-6 and MW-7R. Monitoring wells MW-1 and MW-5 were destroyed by an adjacent property owner during re-paving activities prior to the implementation of the RAWP, therefore pre-remediation monitoring scope was reduced to the remaining five monitoring wells.

As noted in the RAWP, well MW-2 was destroyed during the excavation of Outfall 002A. The January 29, 2016 Addendum to the RAWP outlined the replacement of monitoring wells MW-1, MW-2 and MW-5 and the modification to the analytical scope. Monitoring wells MW-1 and MW-2 were formerly located in areas that were to receive stabilization treatment, therefore the new well locations were modified and designated MW-8 and MW-9. A new well MW-5R was installed near the location of the former MW-5. Select soils from the monitoring well soil borings were submitted for cadmium and chromium concentrations. These results have been summarized on a Table 2 attached in Appendix F.

Also, an existing monitoring well designated MW-3HA located on an adjacent downgradient property was added to the monitoring scope (See Figure 9). The three new monitoring wells were installed March 28 through 30, 2016. The Subsurface Logs included in Appendix E are a record of the installation of these new wells.

Table 4-2 Existing Monitoring Well Installation Details

Well ID	Measuring Point Elev.	Well Dia. (inches)	Casing/ Screen Type	Screen Length (feet)	Screen Interval Depth (feet)
MW-3	899.30	2	PVC	10	30-40
MW-3HA	901.53	2	PVC	10	30-40
MW-4	899.01	2	PVC	10	28-38
MW-5R	898.27	2	PVC	10	25-35
MW-6	897.21	2	PVC	10	25-35
MW-7R	896.40	2	PVC	20	20-40
MW-8	899.47	2	PVC	10	27-37
MW-9	898.64	2	PVC	10	24-34

Groundwater samples were collected from the existing monitoring wells in October 2015 prior to the implementation of the remedial actions. Another round of groundwater samples was collected from existing monitoring wells in April 2016 after completing the removal of Outfall 002 and Outfall 003.

Samples from both monitoring events were analyzed for metals and VOCs. Water Table Maps for the April 2016 and October 2016 monitoring events are attached (Figures 9 and 10). The following tables summarize these results.

Table 4-3 Groundwater Elevation Data

Date	Groundwater Elevation Data								
	MW-2	MW-3	MW-3HA	MW-4	MW-5R	MW-6	MW-7R	MW-8	MW-9
Oct-2015	869.07	868.55	NM	865.79	*	868.63	873.65	*	*
Apr-2016	#	869.38	869.53	866.13	869.69	869.51	875.03	869.49	869.53
Oct-2016		868.37	868.54	865.64	868.46	868.55	872.90	868.46	868.37

NM – Not monitored

* - Well installed after October 2015

- Well Destroyed November 2015

Table 4-4 Pre and Post-Excavation Groundwater Data Summary

Contaminant	NYSDEC * Water Quality ug/L	Pre-Excavation Concentration Ranges ug/L	Post-Excavation Concentration Ranges ug/L
Cadmium	5	ND to 80	ND to 18.9
Chromium	50	13.6 to 363	ND to 279

* - NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values

Although the analytical results at on-site and off-site wells reflect a downward trend in both cadmium and chromium in groundwater, concentrations for both cadmium and chromium still exceed Water Quality Standards. A table (Table 1) summarizing groundwater data from 2007 through 2016 is attached in Appendix F.

Data Usability Summary Reports (DUSRs) were prepared for data generated. These DUSRs are included in Appendix F along with the Reports for Laboratory Analysis. The raw data is provided electronically in Appendix H.

4.5 SURFACE SOIL EVALUATION

The Site is covered by buildings and asphalt, except for a lawn area along the south side of the Site adjacent to the former office building. This area was assessed for the potential of human exposure resulting from the incidental ingestion, inhalation or dermal contact with soil. Two soil samples were collected from a depth of 0 to 2 inches below the vegetative cover in accordance with DER-10, 3.5.1(b) (1) at the locations depicted on Figure 11. Soils were submitted for analysis for volatile organic compounds on the Target Compound List (TCL) by EPA Method 8260, for semi-volatile analysis on the TCL by EPA Method 8270, for RCRA metals by EPA Method 6010 and 7470, and for PCB by EPA Method 8082.

No volatile compounds, semi-volatile compounds, pesticides or PCBs were detected above the method detection limits in the surface soil samples. Concentrations of arsenic, barium, cadmium, chromium and lead were detected in both samples at levels that are below the SCO for the Protection of Public Health for commercial use properties. The following table summarizes these results.

Table 4-5 Surface Soil Sample Summary

Contaminant	NYSDEC SCO* mg/kg	East Lawn mg/kg	West Lawn mg/kg
Arsenic	16	7.5	7.4
Barium	400	101	114
Cadmium	9.3	0.36	0.41
Chromium**	400	16.3	21.6
Lead	1,000	29.2	37.8

* - NYSDEC SCO – Protection of Public Health, Commercial Use

** - SCO for Hexavalent Chromium

4.6 STABILIZATION OF OUTFALL AREAS

The objective of stabilization was to reduce the overall leachability of metals in soil so that impacted soils can remain in place. Metals may be transported downward through the vadose zone to groundwater through atmospheric precipitation and groundwater fluctuations. Oxidation states can be transformed to other oxidation states reducing mobility and/or toxicity of metals. The scope for the stabilization of metals in soils was accomplished through the application of a proprietary patented amendment FESI-BOND® by Forrester Environmental Services, Inc. (Forrester) FESI-BOND® reduces the overall leachability of the cadmium and chromium that remain in the soils, thereby reducing their mobility to an aqueous stage.

FESI-BOND® amendment (amendment) was formulated specifically through bench-top studies on samples collected from both the sediments that remained at Outfall 002A, and soils with elevated concentrations of chromium and cadmium. Based on the treatability studies on both the waste sediments and the soils in the area of the outfalls, at least a 10-percent (%) slurry blend and at best, a 20% slurry blend was recommended. It is also noted that the field dosage rates are set at 200% of the stoichiometric requirements to compensate for variability in metal concentration in the subsurface.

A 20% by weight amendment dosage to achieve adequate stabilization had been determined through treatability studies, but a higher dosage rate was suggested by Forrester at Outfall 002A where waste sediments remain.

The application of the amendment was through injection using direct push technology. The amendment was provided in a solid, powder form. A municipal water source was used for the preparation of the stabilizer slurry.

In September 2016 fourteen injection probes were advanced to equipment refusal at Outfall 002A and 002B, and eight injection probes to equipment refusal at Outfall 003. Injection of the amendment was through open point injection proceeding from the bottom up in approximate 2-foot intervals. In general, the amendment was injected at the termination depth until the injection rate slowed or stopped with the pumps reaching maximum operating pressures. The injection rods were then pulled up at 2-foot intervals, and injection of the amendment continued to the top of the injection zone.

An initial 2,000 pound batch of amendment at a 50% dosage concentration was prepared. A grout/injection pump and trash pumps were used during the injection event. Another 2-inch trash pump was dedicated for keeping the amendment suspended in the water solution.

The stabilization application began with an approximate 50% by weight amendment dosage at the first two injection points that were advanced directly adjacent to the remaining portion of the Outfall 002A drywell structure. It is where waste sediments remained in the subsurface. All other injection areas received dosage rates between to 20%to 30%.

A confirmation boring was advanced 5 feet from the first two injection locations to a refusal depth of 24 feet bgs. Amendment was observed visually in the soils from a depth of approximately 7 feet to 24 feet bgs, suggesting a minimum 5-foot radius of influence from the point of injection. Therefore, all injection probes were spaced at distances no greater than 10 feet apart within the injection areas.

At Outfall 002A, the injection zones ranged from termination depth to 4 feet bgs outside the excavation area, and from termination depths to 18 feet bgs within the excavation area. The injection zones at Outfall 003 ranged from the termination depths to 8 feet bgs outside the excavation area and from the termination depths to 18 feet bgs within the excavation area. Injection of the amendment at the terminal depths proceeded until the injection rates stopped before pulling up the injection point and continuing with the injection within the injection zone.

Approximately 6,000 pounds of amendment equating to approximately 1,815 gallons of solution was injected at Outfall 002A and 002B, and approximately 4,000 pounds of amendment equating to 1,545 gallons of solution was injected at Outfall 003. The following table is a summary of the injection event and Figure 12 depicts the injection locations.

Table 4.6 Injection Summary

Injection Point	Injection Zone (feet bgs)	FESI-Bond® Amendment		
		Gallons Injected	Pounds of Amendment	% Dosage
1	4-24	150	1300	50
2	4-24	90	700	50
3	18-24	65	135	20
4	18-24	115	240	20
5	18-24	200	420	20
6	4-24	100	210	20
7	4-24	100	210	20
8	4-23.8	100	205	20
9	18-24	20 ¹	110	30
10	8-24	325 ²	1210	30
11	4-23.5	60 ³	210	30
12	4-19	150	310	20
13	4-21.5	190	400	20
14	4-23	150	310	20
15	8-23	280	1000	30
16	8-24.5	135	260	20
17	18-24	175	370	20
18	18-24.5	75 ⁴	155	20
19	8-24	325	670	20
20	14-24	205	425	20
21	18-24	175	360	20
22	18-24	175	360	20

Note: Quantities and dosage percentages are approximate

- 1 Could not inject more than 20 gallons, terminated injection
- 2 Could not inject between 10'-24'; discharged all 325 gallons at 8'
- 3 Could not inject below 15'; while injecting at 8' amendment appeared at surface, terminated injection
- 4 Amendment appeared at surface, terminated injection

4.7 POST STABILIZATION SOIL SAMPLING

After completing the injection of the amendment at Outfalls 002 and 003, soil borings were advanced at the same general locations as the post-excavation confirmation soil borings locations (see Figure 13).

Soil samples were collected from these borings and submitted for total cadmium, hexavalent chromium and trivalent chromium analysis, and for cadmium and chromium analysis by TCLP. Field measurements of soil pH were also conducted on the recovered soils. Soils impacted by the amendment should have pH readings above 9. The pH of soils collected from above the injection zone ranged between 6.8 and 7.8. The recovered soils within the injection zone had pH readings of 9 or higher indicating the soils contained the amendment.

Previous analysis of soils for chromium concentrations represented total concentrations. NYSDEC has set a Soil Cleanup Objective (SCO) for the protection of groundwater for hexavalent chromium; a SCO for trivalent chromium has not been specified. Therefore, if hexavalent chromium concentrations are below the 19 mg/kg, the soils are considered in compliance with the SCO for the protection of groundwater.

The following summary of pre and post-remediation metal concentrations in soils and sediments at Outfall 002 and 003 reflects a decrease of chromium and cadmium in the subsurface attributed to source removal via excavation. Also the majority of chromium in the subsurface is trivalent chromium, and therefore the soils meet the SCO for the protection of groundwater within the former outfall areas with the exception of Outfall 002A. The results also indicate overall lower TCLP (leachability) concentrations of chromium and cadmium in the soils in comparison to the total concentrations.

Table 4-7 Subsurface Soils/Sediments Contaminant Concentration Summary, Outfall 002 and Outfall 003

Contaminants of Concern	Pre-Remediation Historic Concentration Range (mg/kg) ^a	Post-Remediation Concentration Range (mg/kg)	6NYCRR Part 375 SCO Protection of Groundwater (mg/kg)	TCLP Range (mg/L)
Outfall 002A				
Cadmium (Cd)	15-68	16-31.2	7.5	ND-0.064
Chromium (Cr)	910-3,700	294-797.1		ND-0.086
Trivalent Chromium (CrIII)		294-775	NS	
Hexavalent Chromium (CrVI)		ND-22.1	19	
Outfall 002B				
Cadmium (Cd)	340-650	9.5-80.3	7.5	0.082-0.14
Chromium (Cr)	180-7100	36.1-49.3		ND
Trivalent Chromium (CrIII)		34.7-49.3	NS	
Hexavalent Chromium (CrVI)		ND-1.4	19	
Outfall 003				
Cadmium (Cd)	8.4-410	2.9-621	7.5	ND-1.1
Chromium (Cr)	16.4-1,310	6.7-58.2		ND
Trivalent Chromium (CrIII)		6.7-56.2	NS	
Hexavalent Chromium (CrVI)		ND-4.0	19	

a - ppm = parts per million, which is equivalent to milligrams per kilogram, mg/kg, in soil

ND – Not detected above the method detection limits; NS – Not specified

TCLP – Toxicity Characteristic Leaching Procedure in parts per million (mg/L)

4.8 CONTAMINATION REMAINING AT THE SITE

Contaminated soil and groundwater/soil vapor remain beneath the Site after completion of the Remedial Action. Contamination remains in soils at the Property at levels that exceed the NYSDEC SCOs for the Protection of Groundwater and for the Protection of Public Health for commercial use properties. Impacted soils are below the industrial building and below asphalt pavement at the former Outfall locations. Vapor mitigation was implemented at the Site in 2006 through the installation and expansions of SSD systems within the occupied areas of the industrial building.

Institutional and Engineering Controls are required at the Site to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these ECs/ICs as well as the soil and soil vapor contamination that remains at the Site will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.9 ENGINEERING CONTROLS

4.9.1 Soil Cover and Cap System

Exposure to remaining contamination in soil/fill at the Site is prevented by a soil cover and cap system placed over the Site. The cover and cap systems currently at the Site are comprised of asphalt pavement, concrete sidewalks and buildings. Any modifications to the Site will maintain the existing site cover system or a NYSDEC-approved revised combination of building structures, pavement, sidewalks or a minimum 12-inch clean soil cover as set forth in 6NYCRR Part 375-6.7(d) for commercial use.

An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix A of the SMP.

4.10 INSTITUTIONAL CONTROL

The site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial and industrial uses only.

The environmental easement for the site was executed by the Department on October 24, 2016, and filed with the Broome County Clerk on November 11, 2016. The County Recording Identifier number for this filing is 201600027715. A copy of the easement and proof of filing is provided in Appendix G.

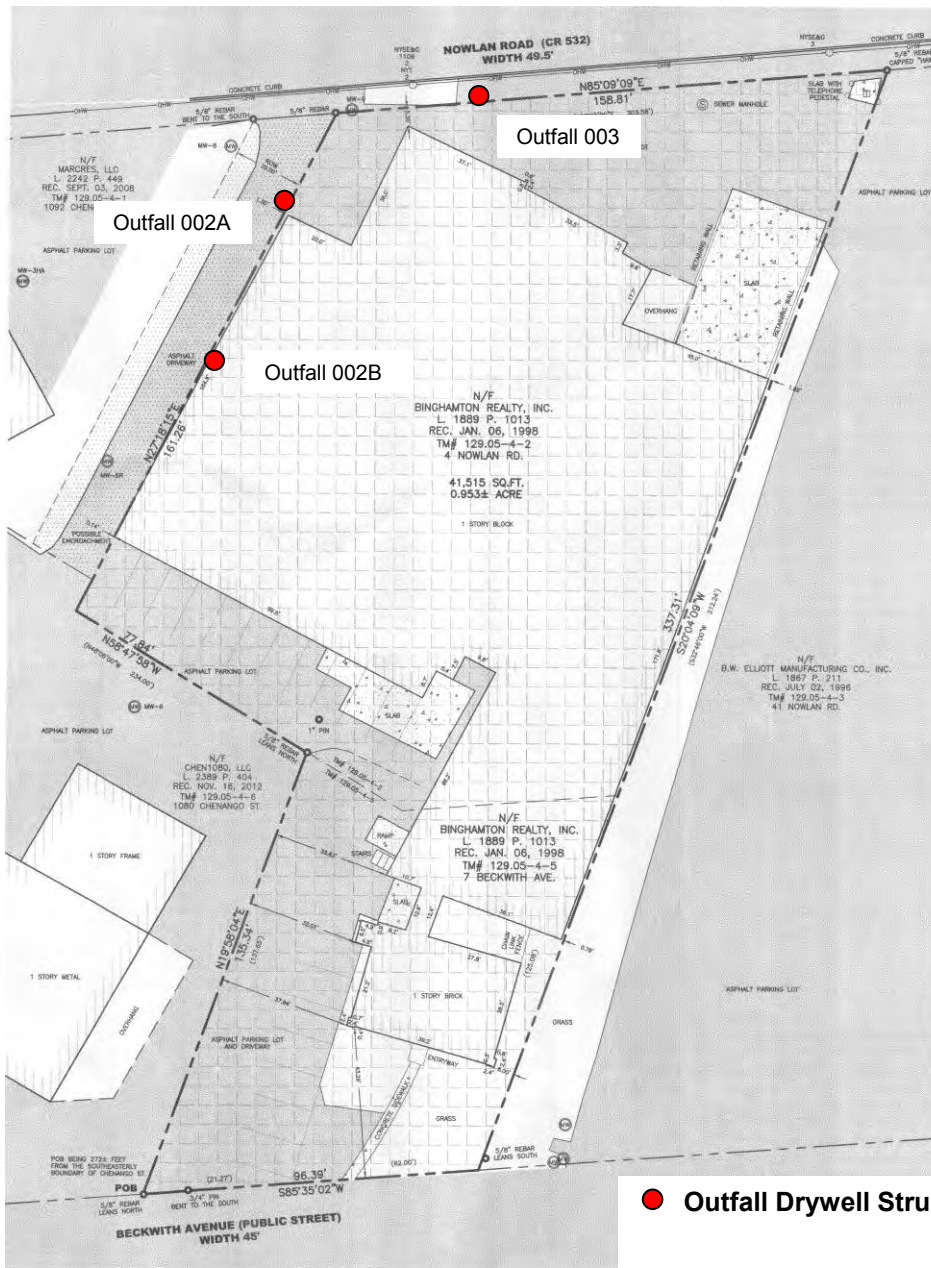


GeoLogic

GeoLogic NY, Inc.

**PROJECT SITE MAP
Triple Cities Metal Finishing
Binghamton, New York
BCP Site No. 704045**

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 1



● Outfall Drywell Structure



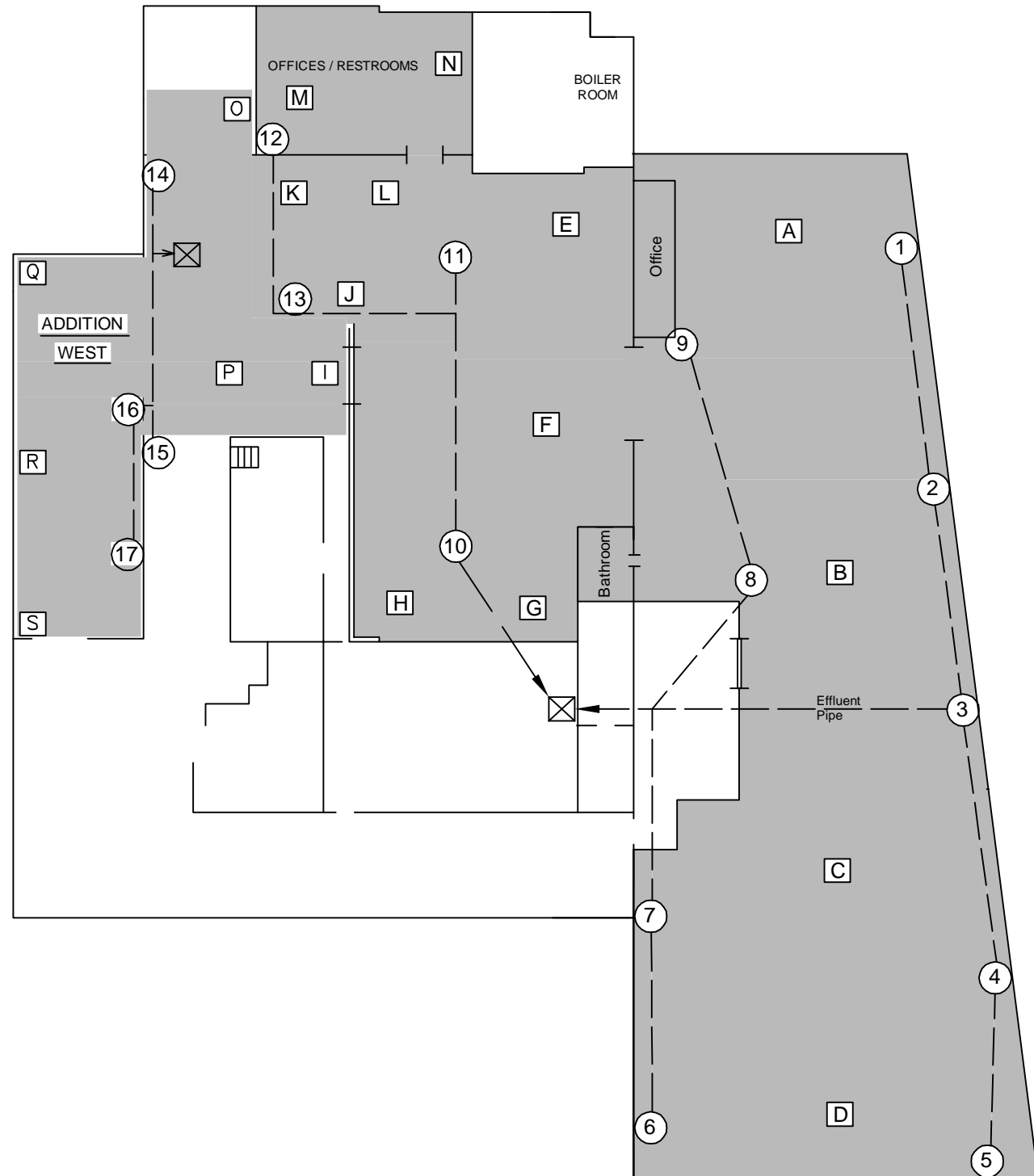
GeoLogic

GeoLogic NY, Inc.

**OUTFALL LOCATION MAP
 Triple Cities Metal Finishing
 Binghamton, New York
 BCP Site #C704045**

DRAWN BY: sc	SCALE: As Noted	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 2

NOWLAN ROAD



LEGEND:

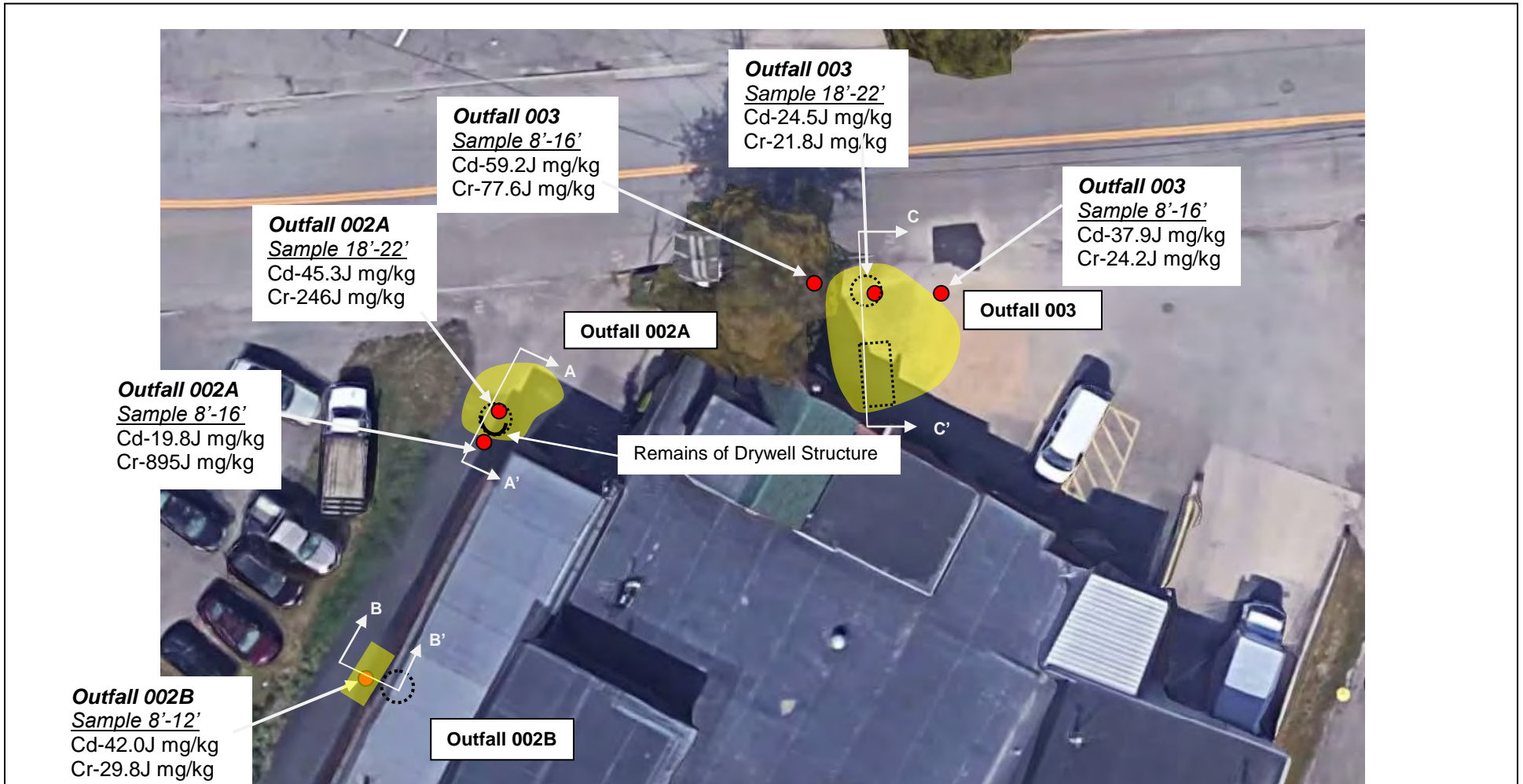
- ① EXTRACTION POINT-4" DIAMETER PVC PIPING
- Ⓐ PILOT POINT
- ⊗ ROTRON 404 AND 505 BLOWER
- OCCUPIED AREA

GeoLogic

GeoLogic NY, Inc., Homer, New York

SSD SYSTEM LOCATION MAP
 Triple Cities Metal Finishing
 Binghamton, New York
 BCP Site No. 704045

DRAWN BY: SMC/SDW	SCALE: NTS	PROJECT NO.: 99011A
REVIEWED BY: KT	DATE: OCT. 2016	FIGURE NO.: 3



Outfall 003
Sample 8'-16'
 Cd-59.2J mg/kg
 Cr-77.6J mg/kg

Outfall 003
Sample 18'-22'
 Cd-24.5J mg/kg
 Cr-21.8J mg/kg

Outfall 003
Sample 8'-16'
 Cd-37.9J mg/kg
 Cr-24.2J mg/kg

Outfall 002A
Sample 18'-22'
 Cd-45.3J mg/kg
 Cr-246J mg/kg

Outfall 002A

Outfall 003

Outfall 002A
Sample 8'-16'
 Cd-19.8J mg/kg
 Cr-895J mg/kg

Remains of Drywell Structure

Outfall 002B
Sample 8'-12'
 Cd-42.0J mg/kg
 Cr-29.8J mg/kg

Outfall 002B

Approximate Limits of Excavation and Imported Fill

Former Drywell

Former Septic Tank

Cd Cadmium

Cr Chromium



GeoLogic

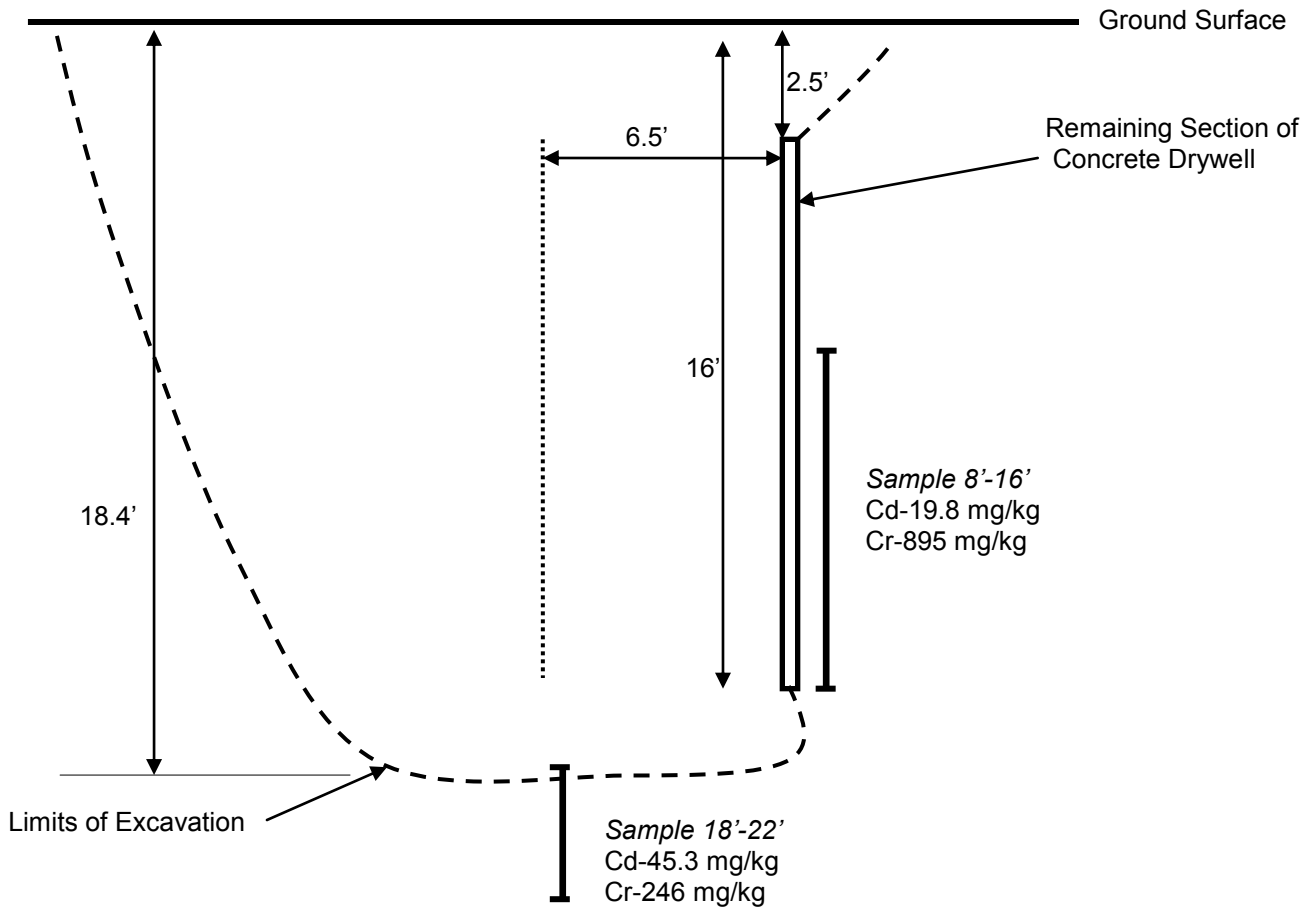
GeoLogic NY, Inc.

**POST-EXCAVATION CONFIRMATION
 SOIL SAMPLE LOCATION MAP
 Triple Cities Metal Finishing
 Binghamton, New York
 BCP Site #C704045**

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 4

Outfall 002A

Section A-A'



GeoLogic

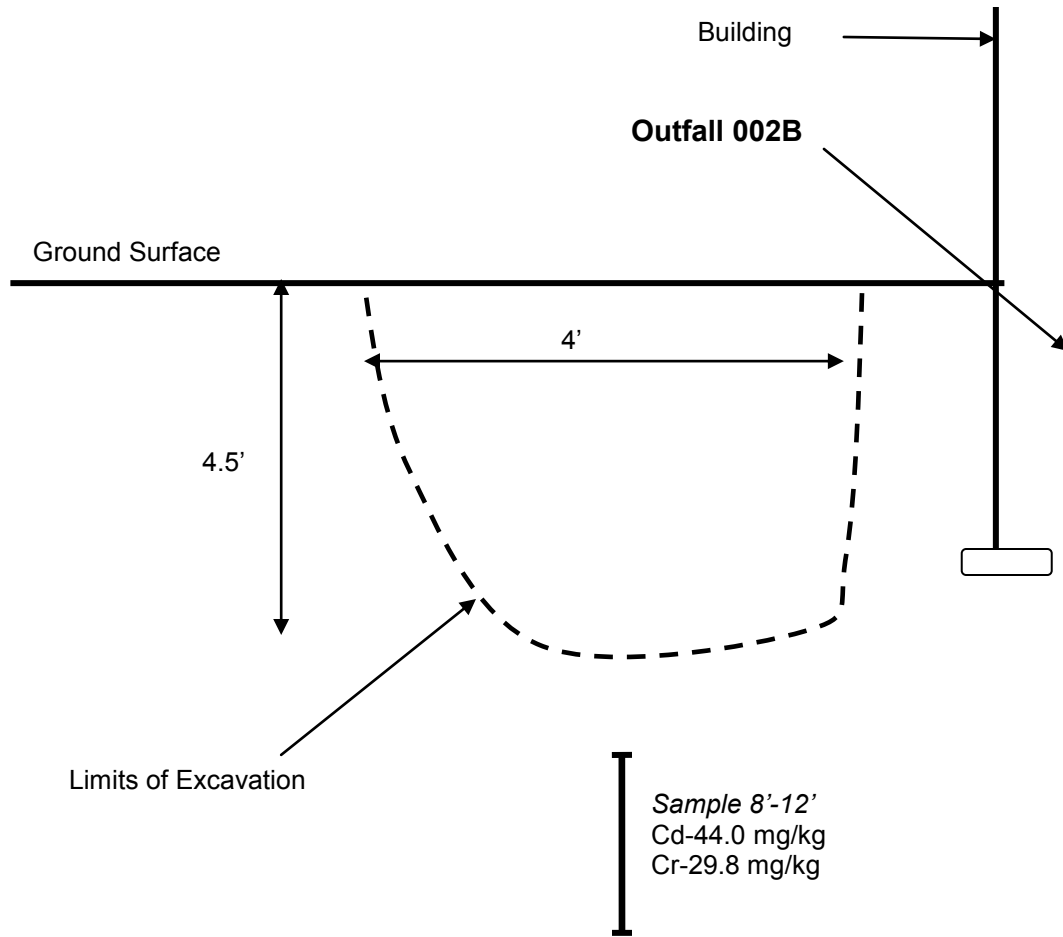
GeoLogic NY, Inc.

SCHEMATIC OF OUTFALL 002A
Triple Cities Metal Finishing
Binghamton, New York
BCP Site #C704045

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 5

Outfall 002B

Section B – B'



GeoLogic

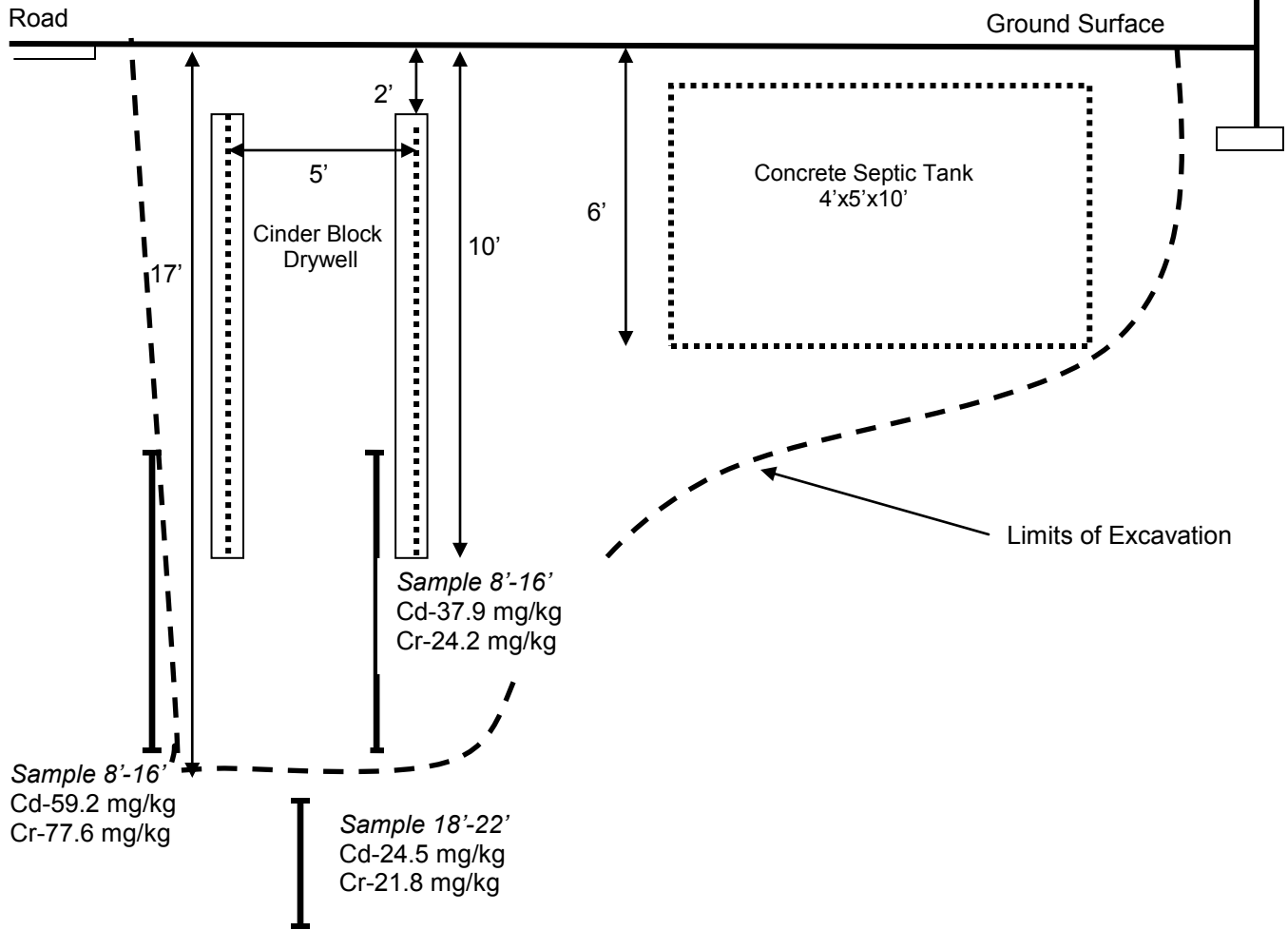
GeoLogic NY, Inc.

SCHEMATIC OF OUTFALL 002B
Triple Cities Metal Finishing
Binghamton, New York
BCP Site #C704045

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 6

Outfall 003

Section C - C'



GeoLogic

GeoLogic NY, Inc.

SCHEMATIC OF OUTFALL 003
Triple Cities Metal Finishing
Binghamton, New York
BCP Site #C704045

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 7



WC-3
Sample 4'-8'

WC-2
Sample 8'-16'

WC-1
Sample 0'-20'

Outfall 003

Outfall 002A

Outfall 002B



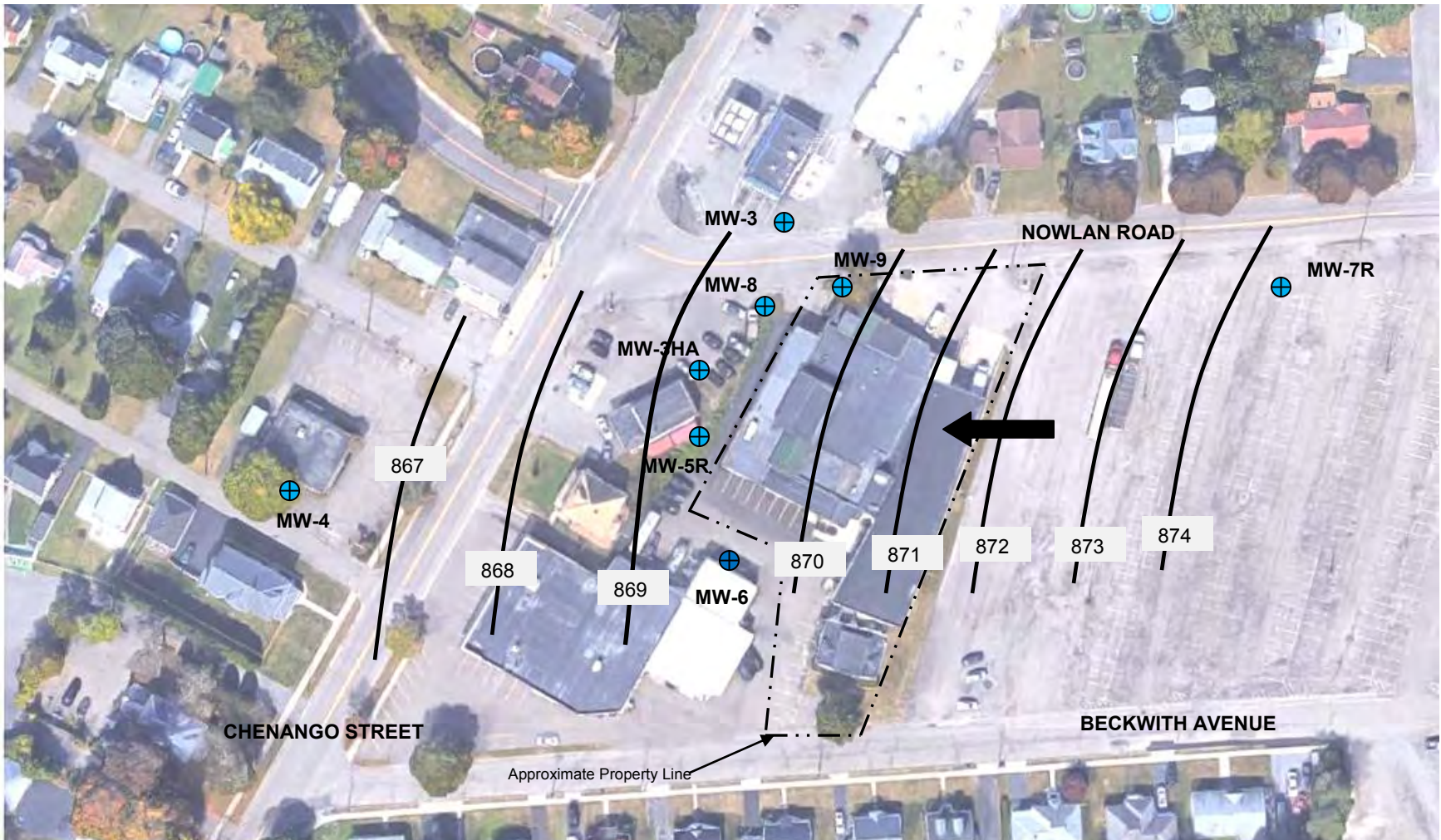
North





GeoLogic

GeoLogic NY, Inc.

**WASTE CHARACTERIZATION BORING
LOCATION MAP
Triple Cities Metal Finishing
Binghamton, New York
BCP Site No. 704045**

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 8



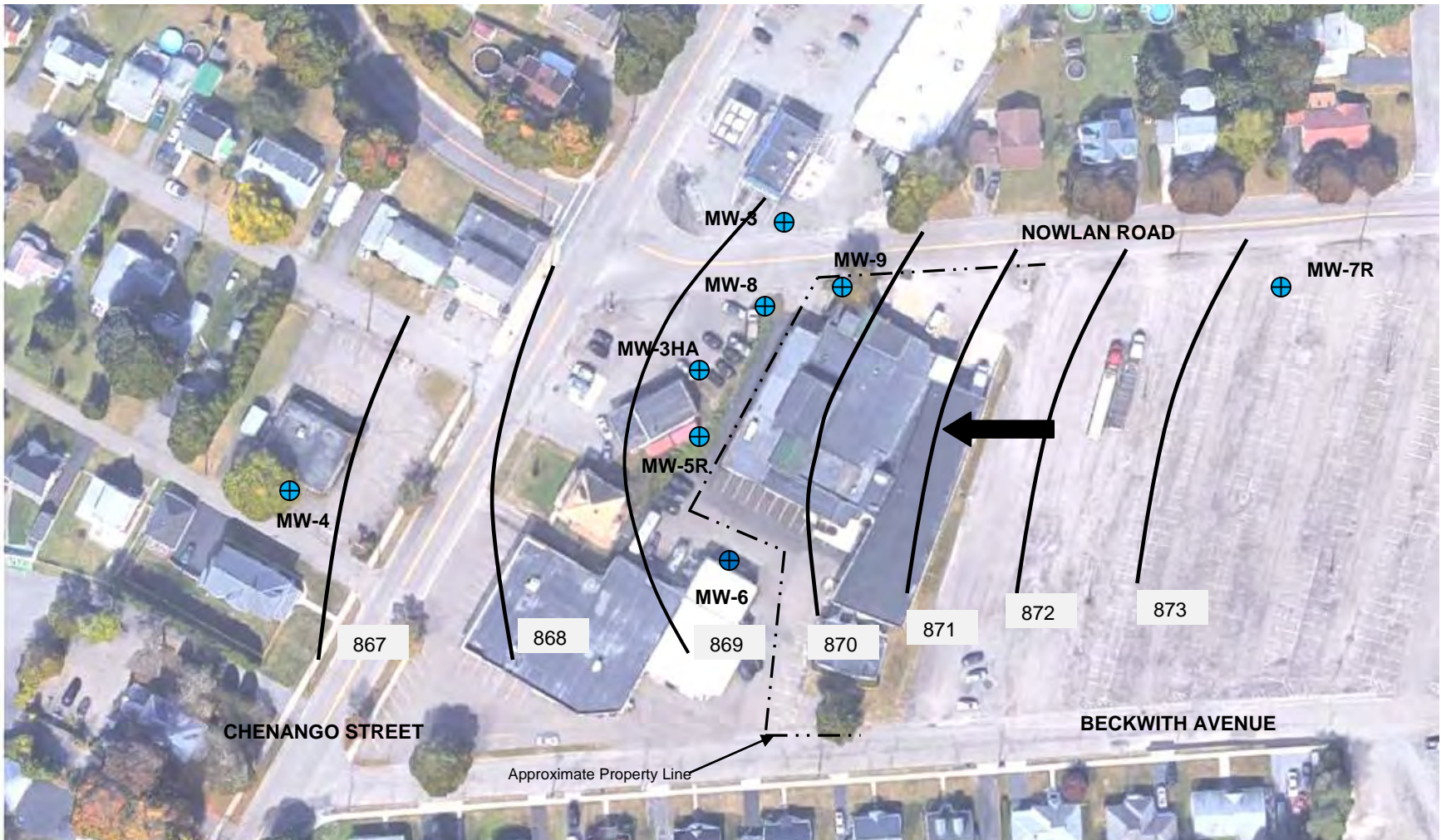
- Legend:
-  Monitoring Well Location (Approximate)
 -  Groundwater Contour
 -  867 Water Table Elevation, April 2016
 -  Direction of Groundwater Flow





GeoLogic

GeoLogic NY, Inc.

WATER TABLE MAP FOR APRIL 2016
Triple Cities Metal Finishing
Binghamton, New York
BCP Site No. 704045

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 9



- Legend:
-  Monitoring Well Location (Approximate)
 -  Groundwater Contour
 -  Water Table Elevation, October 1, 2016
 -  Direction of Groundwater Flow

GeoLogic

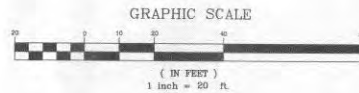
GeoLogic NY, Inc.

WATER TABLE MAP FOR OCTOBER 2016
Triple Cities Metal Finishing
Binghamton, New York
BCP Site No. 704045

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: November 2016	FIGURE NO: 10



 Surface Sample Location



GeoLogic

GeoLogic NY, Inc.

SURFACE SOIL SAMPLE LOCATION MAP
Triple Cities Metal Finishing
Binghamton, New York
BCP Site #C704045

DRAWN BY: sc	SCALE: As Noted	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 11



- Outfall Structure
- 1 Stabilization Injection Location, 50% Dosage
- 1 Stabilization Injection Location, 30% Dosage
- 1 Stabilization Injection Location, 20% Dosage
- Excavated Area



GeoLogic

GeoLogic NY, Inc.

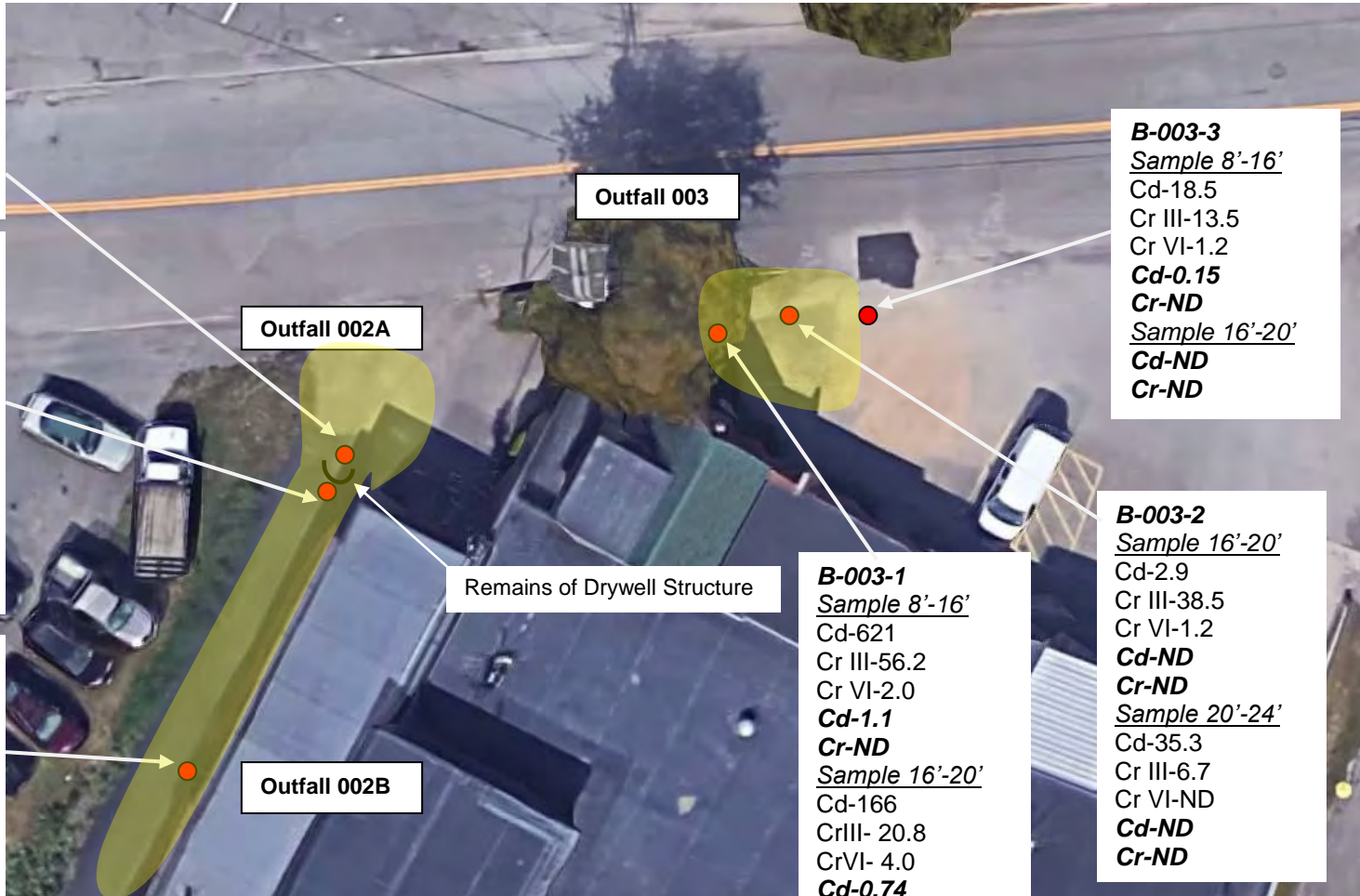
STABILIZATION INJECTION LOCATION MAP
Triple Cities Metal Finishing
Binghamton, New York
NYSDEC ID C704045

DRAWN BY: smc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 12

B-002A-2
Sample 16'-24'
 Cd-31.2
 Cr III-294
 Cr VI-ND
Cd-ND
Cr-0.086

B-002A-2
Sample 8'-16'
 Cd-18.7
 Cr III-598
 Cr VI-7.3
Cd-0.063
Cr-ND
Sample 20'-24'
 Cd-16.0
 Cr III- 775
 Cr VI- 22.1
Cd-0.064
Cr-ND



B-002B-1
Sample 8'-12'
 Cd-80.3
 CrIII-34.7
 CrVI-1.4
Cd-0.082
Cr-ND
Sample 12'-20'
 Cd-9.5
 Cr III-49.3
 Cr VI-ND
Cd-0.14
Cr-ND



B-003-3
Sample 8'-16'
 Cd-18.5
 Cr III-13.5
 Cr VI-1.2
Cd-0.15
Cr-ND
Sample 16'-20'
Cd-ND
Cr-ND

B-003-2
Sample 16'-20'
 Cd-2.9
 Cr III-38.5
 Cr VI-1.2
Cd-ND
Cr-ND
Sample 20'-24'
 Cd-35.3
 Cr III-6.7
 Cr VI-ND
Cd-ND
Cr-ND

B-003-1
Sample 8'-16'
 Cd-621
 Cr III-56.2
 Cr VI-2.0
Cd-1.1
Cr-ND
Sample 16'-20'
 Cd-166
 CrIII- 20.8
 CrVI- 4.0
Cd-0.74
Cr-ND

 STABILIZATION AREA
 POST-INJECTION SOIL BORING



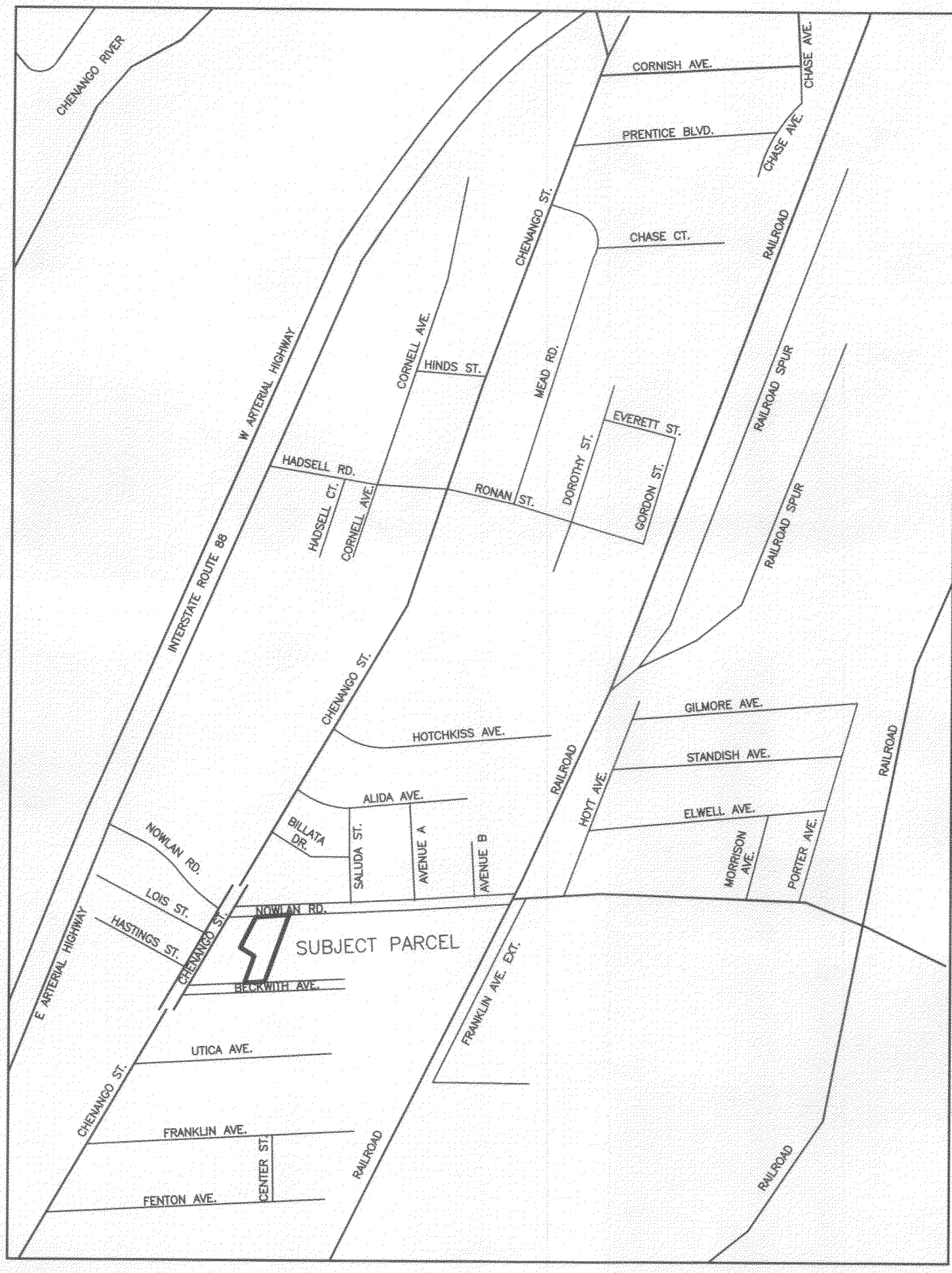
Sample ID: Sample 8'-16'
 Total Concentration: mg/kg
TCLP: mg/L
 ND Not detected above method detection limit
 Cd Cadmium
 Cr Chromium
 Cr III Trivalent Chromium
 Cr VI Hexavalent Chromium

GeoLogic
 GeoLogic NY, Inc.

REMAINING SOIL EXCEEDENCES & STABILIZATION AREA
Triple Cities Metal Finishing
Binghamton, New York
BCP Site No. 704045

DRAWN BY: sc	SCALE: Not To Scale	PROJECT NO: 99011A
REVIEWED BY: kt	DATE: October 2016	FIGURE NO: 13

APPENDIX A
SUVERY MAPS, METES AND BOUNDS



VICINITY MAP
1" = 600'

**SURVEYOR'S DESCRIPTION OF TM# 129.05-4-2 & TM# 129.05-4-5
ALSO BEING THE ENVIRONMENTAL EASEMENT AREA**

ALL THOSE TRACTS OR PARCELS OF LAND situate in the Town of Fenton, County of Broome, State of New York, being all of the property now or formerly of Binghamton Realty Inc, as recorded in the Broome County Clerk's Office in L. 1889 P. 1013 on January 06, 1998 (TM# 129.05-4-2 and TM# 129.05-4-5), together hereinafter referred to as Binghamton Realty, Inc., bounded and described as follows:

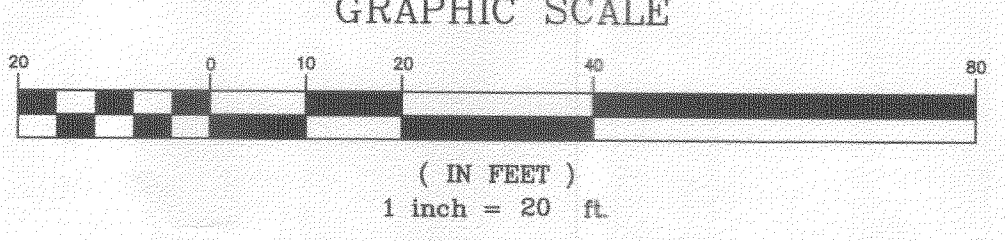
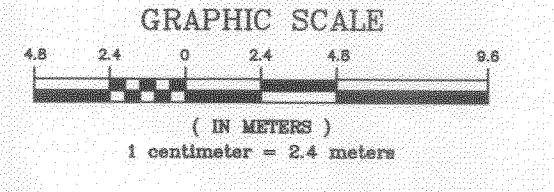
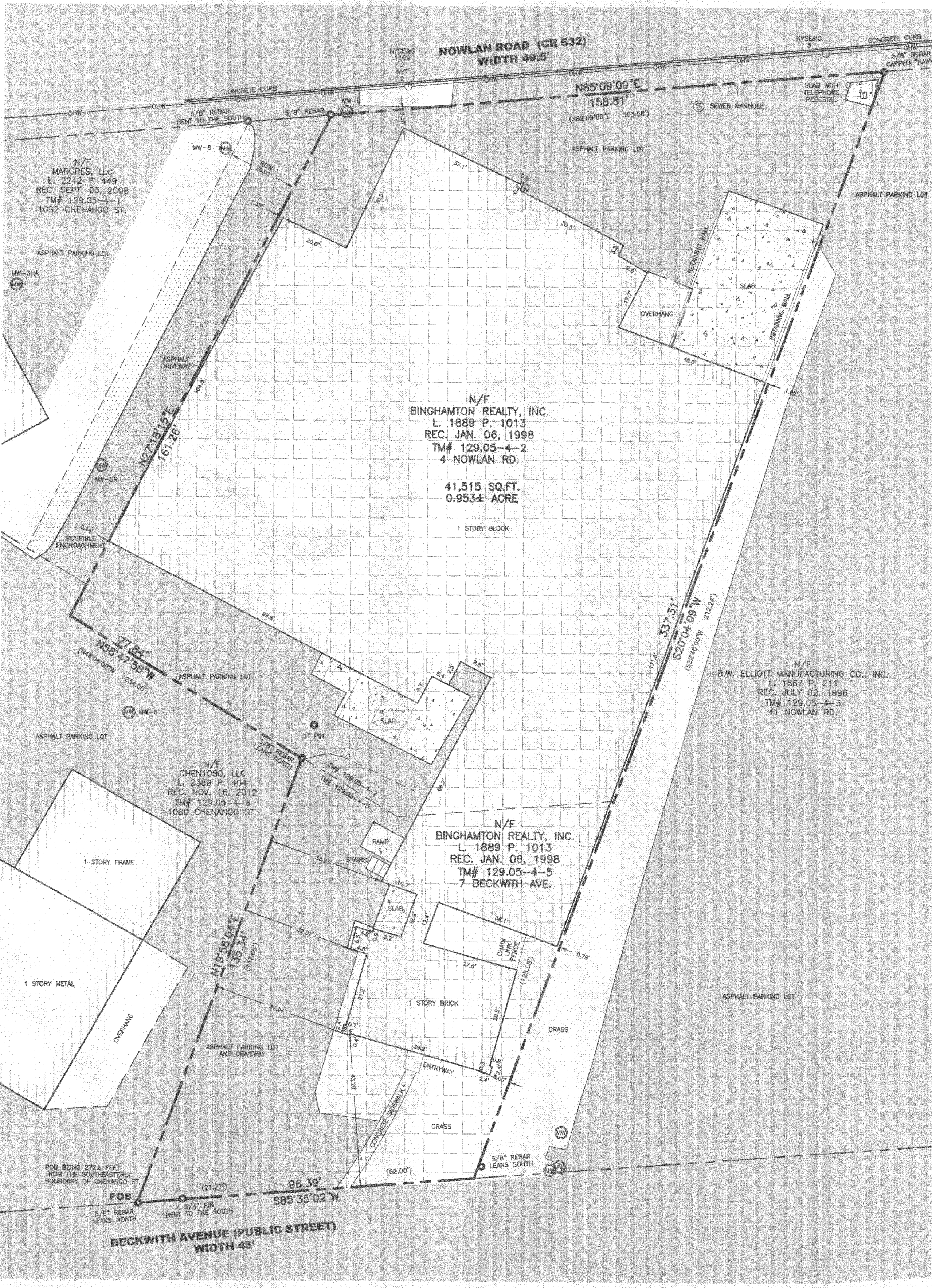
BEGINNING at a 5/8" rebar on the northerly boundary of Beckwith Avenue at its intersection with the division line between the property now or formerly of Chen1080, LLC per L. 2389 P. 404 (TM# 129.05-4-6) on the northwest and said Binghamton Realty, Inc. on the southeast;

RUNNING THENCE along the division lines between said Chen1080, LLC and said Binghamton Realty, Inc. the following three (3) courses and distances:

- 1) N19°58'04"E, a distance of 135.34 feet to a 5/8 inch rebar;
- 2) N58°47'58"W, a distance of 77.84 feet to a point;
- 3) N27°18'15"E and along the division line between the property now or formerly of Marcres, LLC per L. 2242 P. 449 (TM# 129.05-4-1) on the northwest and said Binghamton Realty, Inc. on the southeast, a distance of 161.26 feet to a 5/8 inch rebar at its intersection with the southerly boundary of Nowlan Road; thence N85°09'09"E along said southerly boundary, a distance of 158.81 feet to a 5/8 inch rebar capped "HAWK" at its intersection with the division line between the property now or formerly of B.W. Elliott Manufacturing Co., Inc. per L. 1867 P. 211 (TM# 129.05-4-3) on the east and said Binghamton Realty, Inc. on the west; thence S20°04'09"W along the last mentioned division line, a distance of 337.31 feet to a point at its intersection with said northerly boundary of Beckwith Avenue; thence S85°35'02"W along said Beckwith Avenue, a distance of 96.39 feet to the POINT OF BEGINNING.

The above described parcel contains 41,515 square feet or 0.953 acre, more or less.

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for this Easement are set forth in more detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at www.derweb@dec.ny.gov.



- LEGEND**
- 5/8" REBAR "KEYSTONE BING NY"
 - MONUMENT FOUND AND NOTED
 - () RECORD DISTANCE
 - N/F NOW OR FORMERLY
 - TM# TAX MAP NUMBER
 - PROPERTY LINE
 - - - TAX MAP LINE
 - UTILITY POLE
 - OHW OVERHEAD UTILITIES
 - BOLLARD
 - MONITORING WELL
 - ENVIRONMENTAL EASEMENT HATCH

NOTES

1. PREMISES SOURCE OF TITLE BEING L. 1889 P. 1013 RECORDED IN THE BROOME COUNTY CLERK'S OFFICE JANUARY 06, 1998.
2. SUBJECT TO ANY AND ALL EASEMENTS OF RECORD AND/OR AS FOUND IN THE FIELD.
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE TO THE PROPERTY OR A TITLE REPORT.
4. BEARING SHIFT IS DIFFERENT FROM DEED. KEYSTONE ASSOCIATES USED A GRID NORTH FROM GPS. REFERENCE BEARINGS SHOWN.
5. COORDINATES ARE NEW YORK STATE PLANE, CENTRAL ZONE, NAD83. VERTICAL DATUM IS BASED ON NAVD 88.

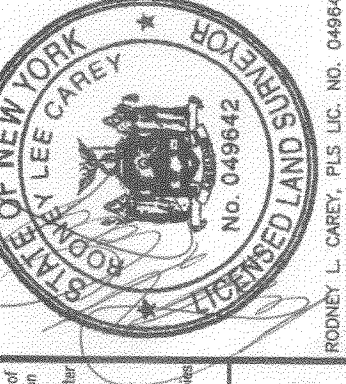
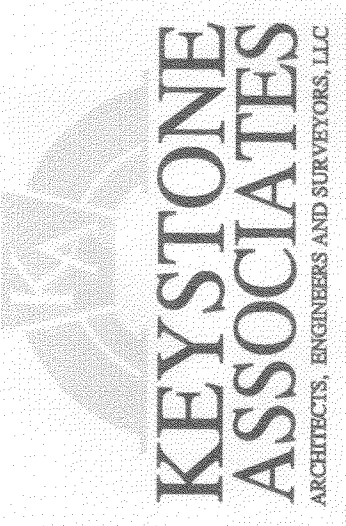
WELL #	NORTHING	EASTING	CENTER CASING ELEV.	PVC TOP ELEV.	LOCATION
MW-3	783403.1122	1008886.2479	899.46	899.30	OFF SITE
MW-3HA	783304.3395	1008812.9401	901.76	901.53	SHOWN
MW-4	783209.7827	1008531.7598	899.66	899.01	OFF SITE
MW-SR	783252.8406	1008837.6359	898.65	898.27	SHOWN
MW-6	783182.5429	1008845.9412	897.46	897.21	SHOWN
MW-7R	783360.8092	1009238.7661	896.99	896.40	OFF SITE
MW-8	783343.6211	1008872.5918	899.88	899.47	SHOWN
MW-9	783354.1739	1008907.1997	899.02	898.64	SHOWN

REFERENCE MAPS

1. MAP ENTITLED "BOUNDARY SURVEY, B.W. ELLIOTT MANUFACTURING CO., INC., 11 BECKWITH AVENUE, TOWN OF FENTON, BROOME COUNTY, NEW YORK STATE" PREPARED BY HAWK ENGINEERING, P.C. AS PROJECT # 552.88.02 ON AUGUST 23, 1988.
2. MAP ENTITLED "BOUNDARY MAP, PARCEL TO BE ACQUIRED BY TRIPLE CITIES METAL FINISHING CORP., BECKWITH AVENUE, TOWN OF FENTON, BROOME COUNTY, NEW YORK STATE" PREPARED BY HAWK ENGINEERING, P.C. AS PROJECT # 493.88.01 ON SEPTEMBER 30, 1988.
3. MAP ENTITLED "BOUNDARY MAP, PARCEL TO BE ACQUIRED BY TRIPLE CITIES METAL FINISHING CORPORATION, 1080 CHENANGO STREET (CR. 129), TOWN OF FENTON, BROOME COUNTY, NEW YORK STATE" PREPARED BY HAWK ENGINEERING, P.C. AS PROJECT # 99493.01 ON MARCH 31, 1997.

I hereby certify to BINGHAMTON REALTY, INC.; NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION; GEOLOGIC NY, INC.; and BOND SCHOENECK & KING that this survey was prepared in accordance with the current Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. and with the "Survey Requirements for Environmental Easements". This certification is limited to persons for whom this map is prepared, to the title company and to the lending institution listed. Certifications are not transferable to additional institutions or subsequent owners.

58 Exchange Street
Binghamton, New York 13901
Phone: 607.722.1100
Fax: 607.722.2515
Email: info@keystone.com
www.keystone.com



WARNING: Under Title 200, Subdivision 6, of the New York State Education Law for any person who is not a duly Licensed Professional Engineer or Professional Architect, Engineer or Surveyor who prepares or issues a report or certificate in the name of a Professional Engineer, Engineer or Surveyor has been deemed to be practicing as such and is prohibited by law from doing so. The seal of the surveyor's regular work and office.

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Keystone Associates Architects, Engineers and Surveyors, LLC

NO.	REVISIONS AND DESCRIPTIONS	DATE

ENVIRONMENTAL EASEMENT DESCRIPTION FOR
DEPARTMENT SITE NO. C704045
BINGHAMTON REALTY, INC.
4 NOWLAN ROAD & 7 BECKWITH AVENUE
TOWN OF FENTON
BROOME COUNTY
NEW YORK STATE

SHEET NO. EED-1
PROJECT NO. 1899.0216
DATE OF FIELD WORK: 04/22/16
DATE OF MAP: 04/22/16
CAD FILE NO.: 18990216EED-1.dwg



Also Doing Business As (DBA):



Kenneth D. Ellsworth, P.E.
Managing Member

Paul L. Bedford, AIA
Architect

Rodney L. Carey, L.S.
Land Surveyor

Kordian W. Wichtowski, R.A.
Architect

**ENVIRONMENTAL EASEMENT DESCRIPTION
DEPARTMENT SITE NO. C704045
BINGHAMTON REALTY INC.
4 NOWLAN ROAD
7 BECKWITH AVENUE
TOWN OF FENTON
BROOME COUNTY, NEW YORK STATE**

ALL THOSE TRACTS OR PARCELS OF LAND situate in the Town of Fenton, County of Broome, State of New York, being all of the property now or formerly of Binghamton Realty Inc. as recorded in the Broome County Clerk's Office in L. 1889 P. 1013 on January 06, 1998 (TM# 129.05-4-2 and TM# 129.05-4-5), together hereinafter referred to as Binghamton Realty, Inc., bounded and described as follows:

BEGINNING at a 5/8" rebar on the northerly boundary of Beckwith Avenue at its intersection with the division line between the property now or formerly of Chen1080, LLC per L. 2389 P. 404 (TM# 129.05-4-6) on the northwest and said Binghamton Realty, Inc. on the southeast;

RUNNING THENCE along the division lines between said Chen1080, LLC and said Binghamton Realty, Inc. the following three (3) courses and distances:

- 1) N19°58'04"E, a distance of 135.34 feet to a 5/8 inch rebar;
- 2) N58°47'58"W, a distance of 77.84 feet to a point;
- 3) N27°18'15"E and along the division line between the property now or formerly of Marcres, LLC per L. 2242 P. 449 (TM# 129.05-4-1) on the northwest and said Binghamton Realty, Inc. on the southeast, a distance of 161.26 feet to a 5/8 inch rebar at its intersection with the southerly boundary of Nowlan Road; thence N85°09'09"E along said southerly boundary, a distance of 158.81 feet to a 5/8 inch rebar capped "HAWK" at its intersection with the division line between the property now or formerly of B.W. Elliott Manufacturing Co., Inc. per L. 1867 P. 211 (TM# 129.05-4-3) on the east and said Binghamton Realty, Inc. on the west; thence S20°04'09"W along the last mentioned division line, a distance of 337.31 feet to a point at its intersection with said northerly boundary of Beckwith Avenue; thence S85°35'02"W along said Beckwith Avenue, a distance of 96.39 feet to the POINT OF BEGINNING.

The above described parcel contains 41,515 square feet or 0.953 acre, more or less.

The above described parcel is subject to any and all easements of record and/or as found in the field.

Bearings are referred to True North at the 76°35' Meridian of West Longitude.

The above described parcel is shown on a map entitled "Environmental Easement Description for Department Site No. C704045, Binghamton Realty, Inc., 4 Nowlan Road & 7 Beckwith Avenue, Town of Fenton, Broome County, New York State" prepared by Keystone Associates Architects, Engineers and Surveyors, LLC as project number 1899.02118, sheet EED-1 dated April 22, 2016.

58 Exchange Street
Binghamton, New York 13901
Phone: 607.722.1100
Fax: 607.722.2515
E-mail: info@keyscamp.com
www.keyscamp.com

APPENDIX B
IMPORTED MATERIAL DOCUMENTATION

F.S. LOPKE CONTRACTING, INC.

3430 STATE ROUTE 434

APALACHIN, NY 13732

PHONE (607) 687-1114, 754-8173

FAX (607) 687-1856

INVOICE

PAGE NO.	INVOICE NO.	INVOICE DATE	CUSTOMER NO.
	1010238	11/07/15	GIA10
SALES TERMS		PURCHASE ORDER NO.	
Net 30 Days			

A 2% FINANCE CHARGE WILL BE ADDED TO ALL INVOICES 30 DAYS PAST DUE!

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J. N. GIAMMARINO CONSTRUCTION
671 CONKLIN RD.
BINGHAMTON, NY 13903

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T
O

CHENANGO AND NOLAN

OLD

Ticket	Date	Order	Loc	Product	Qty	---Material---		---Freight---		Other Amount	Tax Amount	Total
						Rate	Amount	Rate	Amount			
11031157	11/02/15	45	1	BANK RUN GRAVEL	22.26							
11031172	11/03/15	45	1	BANK RUN GRAVEL	22.20							
11031201	11/03/15	45	1	BANK RUN GRAVEL	19.63							
11031211	11/03/15	45	1	BANK RUN GRAVEL	21.83							
Subtotal		45		BANK RUN GRAVEL	85.92 Ton							

Invoice Total 85.92 Ton

INVOICE TOTAL ---- >

RECEIVED NOV 16 2015

Owego ** LOOKE GRAVEL PRODUCTS ** TICKET NO: 11034419

TKT-DATE TIME CUSTOMER PRODUCT HAULED TRUCK TRX

2/18/2016 10:12 AM 61A10 10 GRAVE 51A2 (Red) 11

CUSTOMER INFORMATION QUANTITY UNIT PRODUCT RATE AMOUNT

J. N. SIAMMARINO CONSTRUCTION 20.92 Ton BANK RUN GRAVEL

P.O. # 1542-1324

Order No: 141

Loads Today: 4

Qty. Today: 83.26

FST:

TAX:

TTL:

POUNDS TONS WEIGHMASTER DELIVERY ADDRESS

58055: 67800 33.90 0etsi Lopke Lic.#490058 NOWLAN RD.

TARE: 25960 * 12.90*

NET: 41840 20.92

DRIVER: *Bob*

RECEIVED BY:

* Predetermined Tare

TERMS: NET 30; 2% PER MONTH OVER 30 DAYS

182: Customer's Copy / 384: Void-Customer Do Not Accept

HAIR

HAIR

HAIR

Owego ** LOPKE GRAVEL PRODUCTS ** TICKET NO: 11034405

TKT-DATE TIME CUSTOMER PRODUCT HAULER TRUCK TAX

2/18/2016 8:12 AM GIA10 10 GIA2 GIA2 (red) 11

CUSTOMER INFORMATION QUANTITY UNIT PRODUCT RATE AMOUNT

J. N. GIAMMARINO CONSTRUCTION 19.67 TON BANK RUN GRAVEL

P.O.# 1542

Order No: 141
Loads Today: 2
Qty. Today: 40.44

FGT:
TAX:
TTL:

POUNDS TONS WEIGHMASTER DELIVERY ADDRESS

GROSS: 65300 32.65 Betsi Lopke Lic. #490058 NOWLAN RD.

TARE: 25960 * 12.98*

NET: 39340 19.67

Bob

DRIVER:
RECEIVED BY:

* Predetermined Tare

TERMS: NET 30; 2% PER MONTH OVER 30 DAYS

1&2: Customer's Copy / 3&4: Void--Customer Do Not Accept

Omego

TICKET NO: 11034397

** LOPKE GRAVEL PRODUCTS **

TAX

TRUCK

HAULER

PRODUCT

CUSTOMER

TIME

11

GIA2
GIA2 (red)

10

GIA10

2/17/2016 2:51 PM

RATE

PRODUCT

QUANTITY

UNIT

AMOUNT

J. N. GIAMMARINO CONSTRUCTION 20.20 Ton BANK RUN GRAVEL

P.O.: 1524

FGT:

Order No: 141

Loads Today: 4

Qty. Today: 82.66

TAX:

TTL:

DELIVERY ADDRESS

WEIGHMASTER

TONS

POUNDS

NOWLAN RD.

Betsi Lopke Lic. #490058

33.18

66360

TARE: 25960 * 12.98*

DRIVER: *Boly*

NET: 40400 20.20

RECEIVED BY:

* Predetermined Tare

TERMS: NET 30; 2% PER MONTH OVER 30 DAYS

1&2: Customer's Copy / 3&4: Void-Customer Do Not Accept

Owego ** LOPKE GRAVEL PRODUCTS ** TICKET NO: 11034384

TKT-DATE TIME CUSTOMER PRODUCT HAULER TRUCK TAX

2/17/2016 1:32 PM G1A10 10 G1A2 11
G1A2 (red)

CUSTOMER INFORMATION QUANTITY UNIT PRODUCT RATE AMOUNT

J. N. GIAMMARINO CONSTRUCTION 20.72 Ton BANK RUN GRAVEL

P.O.: 1524

Order No: 141

Loads Today: 2

Gty. Today: 42.01

FGT:

TAX:

TTL:

POUNDS TONS WEIGHMASTER DELIVERY ADDRESS

GROSS: 67400 33.70 Betsi Lopke Lic. #490058 NOWLAN RD.

TARE: 25960 12.98

NET: 41440 20.72

DRIVER: *Boon*

RECEIVED BY:

TERMS: NET 30; 2% PER MONTH OVER 30 DAYS

1&2: Customer's Copy / 3&4: Void - Customer Do Not Accept

Omego ** LOPKE GRAVEL PRODUCTS ** TICKET NO: 11034394

TKT-DATE TIME CUSTOMER PRODUCT HAULER TRUCK TAX
2/17/2016 2:29 PM GIA10 GIA10 10 GIA1 11

CUSTOMER INFORMATION QUANTITY UNIT PRODUCT RATE AMOUNT
J. N. GIAMMARINO CONSTRUCTION 20.45 ton BANK RUN GRAVEL

P.O.: 1524
Order No: 141
Loads Today: 3
Qty. Today: 62.46
FOT:
TAX:
TTL:

POUNDS TONS WEIGHMASTER DELIVERY ADDRESS
GROSS: 66300 33.15 Betsi Lopke Lic.#490058 NOWLAN RD.

TARE: 25400 * 12.70* DRIVER: *P. J. [Signature]*
NET: 40900 20.45 RECEIVED BY: _____

* Predetermined Tare TERMS: NET 30; 2% PER MONTH OVER 30 DAYS

1&2: Customer's Copy / 3&4: Void-Customer Do Not Accept

Owego ** LOPKE GRAVEL PRODUCTS ** TICKET NO: 11034375

TKT-DATE TIME CUSTOMER PRODUCT HAULER TRUCK TAX

2/17/2016 12:52 PM GIA10 10 GIA1 11

CUSTOMER INFORMATION QUANTITY UNIT PRODUCT RATE AMOUNT

J. N. GIAMMARINO CONSTRUCTION 21.29 Ton BANK RUN GRAVEL

P.O.: 1524

FGT:

TAX:

TTL:

Order No: 141

Loads Today: 1

Dty. Today: 21.29

DELIVERY ADDRESS

NOWLAN RD.

WEIGHMASTER

Betsi Lopke Lic. #490058

TONS

33.99

POUNDS

67980

12.70

25400

DRIVER:

RECEIVED BY:

Betsi Lopke

TERMS: NET 30; 2% PER MONTH OVER 30 DAYS

1&2: Customer's Copy / 3&4: Void-Customer Do Not Accept

Owego ** LOPKE GRAVEL PRODUCTS ** TICKET NO: 11034404

TKJ-DATE TIME CUSTOMER PRODUCT HAULER TRUCK TAX
2/18/2016 7:54 AM GIA10 10 GIA1 11

CUSTOMER INFORMATION QUANTITY UNIT PRODUCT RATE AMOUNT
J. N. GIOMMARINO CONSTRUCTION 20.77Ton BANK RUN GRAVEL

Order No: 141
Loads Today: 1
Qty. Today: 20.77
FRT:
TAX:
TTL:

POUNDS TONS WEIGHMASTER DELIVERY ADDRESS
GROSS: 66940 33.47 Betsi Lopke Lic.#490058 NOMLAN RD.
TARE: 25400 * 12.70*

DRIVER: *[Signature]*

RECEIVED BY:

* Predetermined Tare

TERMS: NET 30; 2% PER MONTH OVER 30 DAYS

1&2: Customer's Copy / 3&4: Void-Customer Do Not Accept

Owego ** LOPKE GRAVEL PRODUCTS ** TICKET NO: 11034410

TKT-DATE TIME CUSTOMER PRODUCT HAULER TRUCK TAX
2/18/2016 10:08 AM GIA10 10 GIA1 11

CUSTOMER INFORMATION QUANTITY UNIT PRODUCT RATE AMOUNT
J. N. GIAMMARINO CONSTRUCTION 21.90 Ton BANK RUN GRAVEL
P.O.: 1524

Order No: 141 FGT:
Loads Today: 3 TAX:
Qty. Today: 62.34 TTL:

ROUNDS TONS WEIGHMASTER DELIVERY ADDRESS
GROSS: 69200 34.60 Betsi Lopke Lic.#490056 NOWLAN RD.
TARE: 25400 * 12.70*
NET: 43800 21.90

DRIVER: *Richard P. ...*
RECEIVED BY:

* Predetermined Tare

TERMS: NET 30; 2% PER MONTH OVER 30 DAYS
1&2: Customer's Copy / 3&4: Void-Customer Do Not Accept

Owego

** LOPKE GRAVEL PRODUCTS ** TICKET NO: 11034440

TKT-DATE TIME CUSTOMER PRODUCT HAULER TRUCK TAX

2/18/2016 11:40 AM GIA10 10 GIA1 GIA1 11

CUSTOMER INFORMATION QUANTY UNIT PRODUCT RATE AMOUNT

J. N. GIAMMARINO CONSTRUCTION 20.96 Ton BANK RUN GRAVEL

P.O.: 1524

Order No: 141
 Loads Today: 5
 Qty. Today: 104.22

FBT:
 TAX:
 TTL:

POUNDS	TONS	WEIGHMASTER	DELIVERY ADDRESS
GROSS: 67320	33.66	Betsi Lopke Lic.#490058	NONLAN RD.
TARE: 25400 *	12.70*		
NET: 41920	20.96		

DRIVER: *Betsi Lopke*

RECEIVED BY: _____

* Predetermined Tare

TERMS: NET 30; 2% PER MONTH OVER 30 DAYS

1&2: Customer's Copy / 3&4: Void-Customer Do Not Accept

Susan Cummins

From: Priscott, Gary W (DEC) [gary.priscott@dec.ny.gov]
Sent: Thursday, October 29, 2015 10:37 AM
To: Susan Cummins
Subject: RE: TCMP - Backfill Source

Susan,

Thank you for sending the analytical results for the backfill material to be used at TCMF. Based on the results this material is suitable for use.

Sincerely,

Gary Priscott

Engineering Geologist 2, Division of Environmental Remediation

New York State Department of Environmental Conservation

1679 Route 11, Kirkwood, NY 13795

P: (607) 775-2545 | F: (607) 775-2019 | gary.priscott@dec.ny.gov

www.dec.ny.gov |  | 

From: Susan Cummins [<mailto:Scummins@geologic.net>]

Sent: Thursday, October 29, 2015 8:53 AM

To: Priscott, Gary W (DEC)

Subject: TCMP - Backfill Source

Gary,

Attached is the Laboratory Report for the Backfill Source to be used for TCMF – Hillcrest.

The source will be F. S. Lopke, Inc., the Owego quarry.

Two Discrete samples for VOC analysis and one Composite sample for SVOC, Inorganics & PCB/Pesticides were analyzed.

Thank you

Susan

Susan M. Cummins

Biochemist/Project Manager

GeoLogic NY, Inc.

37 Copeland Avenue

Homer, New York

(607)749-5000 Fax: (607)749-5063

scummins@geologic.net


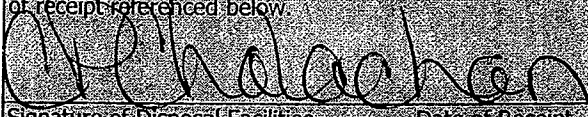
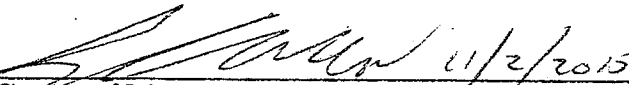
APPENDIX C

WASTE CHARACTERIZATION AND DISPOSAL DOCUMENTATION

JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION			
Generator Name: <u>Binghamton Realty</u>		Job #: <u>15-24</u>	
Address: <u>4 Nowlan Rd Binghamton</u>		Location: <u>Former Triple Cities Metal</u>	
Contact Name: <u>Joseph Morgan</u>		Address: <u>4 Nowlan Rd</u>	
Phone Number: _____		<u>Binghamton NY 13904</u>	
Description of Waste:			
	<u> </u>	Description	
Friable	_____	_____	
Non-Friable	_____	_____	
Both	_____ % Friable	_____	
	_____ % Non-Friable	_____	
Grit & Bar Screen	_____		
Stabalized Sludge	_____		
Contaminated Soil	<u>X</u>		
Auto Fluff	_____		
Other	_____		
Description:	_____		
TRANSPORTER #1		DESTINATION (Disposal Facility)	
Transporter Name: <u>JN Giannarino Construction</u>		Disposal Facility's Name: <u>Broome County Landfill</u>	
Address: <u>671 Conklin Rd</u>		Address: <u>286 Knapp Road</u>	
City, State, Zip: <u>Binghamton NY 13903</u>		City, State, Zip: <u>Binghamton, NY 13905</u>	
Phone #: <u>607-724-0840</u>		Phone #: <u>607-763-4434</u>	
DEC/EPA Permit #: <u>9A-167</u>		6NYCRR 360 Permit #: <u>7-0399-0027/00002</u>	
Name of Driver (print): <u>Gary Chamberlain</u>		Name of Authorized Agent (Print): _____	
I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.		I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.	
	<u>11/2/2015</u>		<u>11/2/2015</u>
Signature of Driver	Date of Receipt	Signature of Disposal Facilities Authorized Agent	Date of Receipt
I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.		The material delivered by the transporter has been rejected for disposal at this disposal site.	
	<u>11/2/2015</u>	Signature of Disposal Facilities Authorized Agent	Date of Receipt
Signature of Driver	Date of Receipt		
		Landfill Ticket Number: <u>1488039</u>	

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607) 763-4434
11/3/15

Ticket No 1488152
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material
Truck ID GIAMMARINO
Trailer

Gross	60360	7:50 am
Tare	25880	8:02 am
Net	17.24	tn
Material		
Delivery		0.00
Misc		0.00
Tax		0.00
Total		

Thank You !!

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION

Generator Name: Binghamton Realty
Address: 4 Nowlan Rd Binghamton
Contact Name: Joseph Morgan
Phone Number: _____

Job #: 15-24
Location: Former Triple Cities Metal
Address: 4 Nowlan Rd
Binghamton NY 13904

Description of Waste:

		Description
Friable	_____	_____
Non-Friable	_____	_____
Both	_____ % Friable	_____
	_____ % Non-Friable	_____
Grit & Bar Screen	_____	_____
Stabalized Sludge	_____	_____
Contaminated Soil	<u>X</u>	_____
Auto Fluff	_____	_____
Other	_____	_____
Description: _____		

Containers		Volume in
Quantity	Type	Cubic Yards
1	Dump	16

Vehicle License No./State: 11490 PC
Disposal Facility Permit Number: _____
Truck: 30163288
Rolloff: _____

TRANSPORTER #1

Transporter Name: JN Giammarino Construction
Address: 671 Conklin Rd
City, State, Zip: Binghamton NY 13903
Phone #: 607-724-0840
DEC/EPA Permit #: 7A-167

DESTINATION (Disposal Facility)

Disposal Facility's Name: Broome County Landfill
Address: 286 Knapp Road
City, State, Zip: Binghamton, NY 13905
Phone #: 607-763-4434
6NYCRR 360 Permit #: 7-0399-0027/00002

Name of Driver (print):
Gary Chamberlain

Name of Authorized Agent (Print):

I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.

I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.

[Signature] 11/2/2015
Signature of Driver Date of Receipt

[Signature]
Signature of Disposal Facilities Date of Receipt
Authorized Agent

I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.

The material delivered by the transporter has been rejected for disposal at this disposal site.

[Signature] 11/2/2015
Signature of Driver Date of Receipt

[Signature]
Signature of Disposal Facilities Date of Receipt
Authorized Agent
Landfill Ticket Number: _____

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(807) 763-4434

11/3/15

Ticket No 1488350

Customer 0074

J N GIAMMARINO CONSTRUCTION

Material CS

Material

Truck ID GIAMMARINO

Trailer

Gross 66580	12:31 pm
Tare 25780	12:44 pm
Net 20.40	tn

Material:

Delivery 0.00

Misc 0.00

Tax 0.00

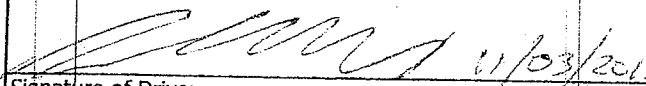

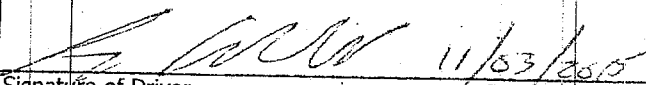
Total

Thank You !!

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION			
Generator Name: <u>Binghamton Peat</u>	Job #:	<u>15-24</u>	
Address: <u>4 Nowlan Rd Binghamton</u>	Location:	<u>Former Triple Cities Metal</u>	
Contact Name: <u>Joseph Morgan</u>	Address:	<u>4 Nowlan Rd</u>	
Phone Number: _____		<u>Binghamton NY 13904</u>	
Description of Waste:			
		Containers	
	Description	Quantity	Type
Frable _____		1	Dump
Non-Frable _____			
Both _____	% Frable _____		Volume in Cubic Yards
	% Non-Frable _____		16
Grit & Bar Screen _____			
Stabalized Sludge _____			
Contaminated Soil <u>X</u>			
Auto Fluff _____			
Other _____			
Description: _____			
TRANSPORTER #1		DESTINATION (Disposal Facility)	
Transporter Name: <u>JN Giammarino Construction</u>	Disposal Facility's Name:	<u>Broome County Landfill</u>	
Address: <u>671 Conklin Rd</u>	Address:	<u>286 Knapp Road</u>	
City, State, Zip: <u>Binghamton NY 13903</u>	City, State, Zip:	<u>Binghamton, NY 13905</u>	
Phone #: <u>607-724-0840</u>	Phone #:	<u>607-763-4434</u>	
DEC/EPA Permit #: <u>7A-167</u>	6NYCRR 360 Permit #:	<u>7-0399-0027/00002</u>	
Name of Driver (print): <u>GARY Chamberlain</u>	Name of Authorized Agent (Print):		
I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.	I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.		
 <u>11/03/2015</u>	 <u>REC'D NOV 03 2015</u>		
Signature of Driver	Date of Receipt	Signature of Disposal Facilities Authorized Agent	Date of Receipt
I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.	The material delivered by the transporter has been rejected for disposal at this disposal site.		
 <u>11/03/2015</u>	Signature of Disposal Facilities Authorized Agent		
Signature of Driver	Date of Receipt	Signature of Disposal Facilities Authorized Agent	Date of Receipt
	Landfill Ticket Number:		

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607)763-4434
11/2/15

Ticket No 1488039
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material
Truck ID 007408
Trailer

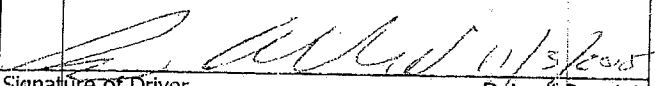

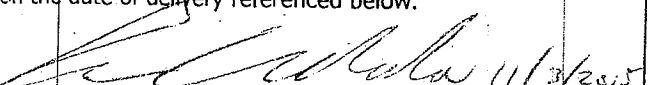
Gross	55300	1:07 pm
Tare	25940	1:21 pm
Net	19.62	tn
Material		
Delivery	0.00	
Misc	0.00	
Tax	0.00	
Total		

Thank you !!

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #:

GENERATOR INFORMATION		CONTAINERS		
Generator Name: <u>Binghamton Realty</u>	Job #: <u>15-24</u>	Quantity	Type	Volume in Cubic Yards
Address: <u>4 Nowlan Rd Binghamton</u>	Location: <u>Former Triple Ceres Metal</u>	<u>1</u>	<u>Dump</u>	<u>16</u>
Contact Name: <u>Joseph Morgan</u>	Address: <u>4 Nowlan Rd</u>			
Phone Number: _____	<u>Binghamton NY 13904</u>			
Description of Waste:				
Friable _____	Description _____			
Non-Friable _____				
Both _____ % Friable _____				
_____ % Non-Friable _____				
Grit & Bar Screen _____				
Stabalized Sludge _____				
Contaminated Soil <u>X</u>				
Auto Fluff _____				
Other _____				
Description: _____				
TRANSPORTER #1		DESTINATION (Disposal Facility)		
Transporter Name: <u>JN Giammarino Construction</u>	Disposal Facility's Name: <u>Broome County Landfill</u>			
Address: <u>1071 Conklin Rd</u>	Address: <u>286 Knapp Road</u>			
City, State, Zip: <u>Binghamton NY 13903</u>	City, State, Zip: <u>Binghamton, NY 13905</u>			
Phone #: <u>607-724-0840</u>	Phone #: <u>607-763-4434</u>			
DEC/EPA Permit #: <u>7A-167</u>	6NYCRR 360 Permit #: <u>7-0399-0027/00002</u>			
Name of Driver (print): <u>Gary Chamberlain</u>	Name of Authorized Agent (Print):			
I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.	I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.			
 Signature of Driver _____	 Signature of Disposal Facilities Authorized Agent _____	RECD NOV 03 2015		
Date of Receipt <u>11/5/2015</u>	Date of Receipt _____			
I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.	The material delivered by the transporter has been rejected for disposal at this disposal site.			
 Signature of Driver _____	Signature of Disposal Facilities Authorized Agent _____	Date of Receipt _____		
Date of Receipt <u>11/3/2015</u>				
	Landfill Ticket Number: _____			

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13906
(607) 763-4434
11/2/15

Ticket No 1487938
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material :
Truck ID 007408
Trailer

Gross 70280	11:08 am
Tare 25880	11:28 am
Net 22.20	tn

Material	
Delivery	0.00
Misc	0.00
Tax	0.00

Total

Thank You !!

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION

Generator Name: Binghamton Realty
Address: 4 Nowlan Rd Binghamton
Contact Name: Joseph Morgan
Phone Number: _____

Job #: 15-24
Location: Former Triple C Auto Metal
Address: 4 Nowlan Rd
Binghamton NY 13904

Description of Waste:

		Description
Friable	_____	_____
Non-Friable	_____	_____
Both	_____ % Friable	_____
	_____ % Non-Friable	_____
Grit & Bar Screen	_____	_____
Stabalized Sludge	_____	_____
Contaminated Soil	<u>X</u>	_____
Auto Fluff	_____	_____
Other	_____	_____
Description: _____		

Containers		Volume in Cubic Yards
Quantity	Type	
1	Dump	16

Vehicle License No./State: 11490 PC
Disposal Facility Permit Number:
Truck: 30163283
Rolloff: _____

TRANSPORTER #1

Transporter Name: JN Giammarino Construction
Address: 1071 Conklin Rd
City, State, Zip: Binghamton NY 13903
Phone #: 607-724-0840
DEC/EPA Permit #: 7A-167
Name of Driver (print): _____

DESTINATION (Disposal Facility)

Disposal Facility's Name: Broome County Landfill
Address: 286 Knapp Road
City, State, Zip: Binghamton, NY 13905
Phone #: 607-763-4434
6NYCRR 360 Permit #: 7-0399-0027/00002
Name of Authorized Agent (Print): _____

I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.

[Signature] 11/23/2015
Signature of Driver Date of Receipt

I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.

[Signature] 11/23/2015
Signature of Driver Date of Receipt

I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.

[Signature] 11/23/15
Signature of Disposal Facilities Date of Receipt
Authorized Agent

The material delivered by the transporter has been rejected for disposal at this disposal site.

Signature of Disposal Facilities Date of Receipt
Authorized Agent

Landfill Ticket Number: _____

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607)783-4434
11/23/15

Ticket No 1492848
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material
Truck ID 037401
Trailer

Gross	40920	12:44 pm
Tare	25796	12:55 pm
Net	7.61	tn
Material		
Delivery		0.00
Misc		0.00
Tax		0.00
<hr/>		
Total		

Thank You !!

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13906
(607)763-4434
2/16/16

Ticket No 1507601
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material [REDACTED]/tn
Truck ID 007407
Trailer

Gross	83060	1:27 pm
Tare	25720	1:38 pm
Net	28.67	tn
Material		[REDACTED]
Delivery		0.00
Misc		0.00
Tax		0.00
Total		[REDACTED]

THANK YOU

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION

Generator Name: Binghamton Realty
 Address: 4 Nowlan Rd Binghamton
 Contact Name: Joseph Morgan
 Phone Number: _____

Job #: 15-24
 Location: Former Triple Cities Metal
 Address: 4 Nowlan Rd
Binghamton NY 13904

Description of Waste:		Description
Friable	_____	_____
Non-Friable	_____	_____
Both	_____ % Friable	_____
	_____ % Non-Friable	_____
Grit & Bar Screen	_____	_____
Stabalized Sludge	_____	_____
Contaminated Soil	<u>X</u>	_____
Auto Fluff	_____	_____
Other	_____	_____
Description: _____		

Containers		Volume in
Quantity	Type	Cubic Yards
1	Dump	16

Vehicle License No./State: 11490 PC
 Disposal Facility Permit Number:
 Truck: 30103283
 Rolloff: _____

TRANSPORTER #1

Transporter Name: JN Giammarino Construction
 Address: 671 Conklin Rd
 City, State, Zip: Binghamton NY 13903
 Phone #: 607-724-0840
 DEC/EPA Permit #: 7A-167
 Name of Driver (print): _____

DESTINATION (Disposal Facility)

Disposal Facility's Name: Broome County Landfill
 Address: 286 Knapp Road
 City, State, Zip: Binghamton, NY 13905
 Phone #: 607-763-4434
 6NYCRR 360 Permit #: 7-0399-0027/00002
 Name of Authorized Agent (Print): _____

I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.

I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.

[Signature]
 Signature of Driver _____ Date of Receipt _____

[Signature] **REC'D FEB 16 2016**
 Signature of Disposal Facilities Authorized Agent _____ Date of Receipt _____

I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.

The material delivered by the transporter has been rejected for disposal at this disposal site.

[Signature]
 Signature of Driver _____ Date of Receipt _____

Signature of Disposal Facilities Authorized Agent _____ Date of Receipt _____
 Landfill Ticket Number: _____

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607) 763-4434
2/16/16

Ticket No 1507578
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material [REDACTED] tn
Truck ID 007407
Trailer

Gross	76960	11:47 am
Tare	25560	11:57 am
Net	25.70	tn
Material	[REDACTED]	
Delivery		0.00
Misc		0.00
Tax		0.00
Total	[REDACTED]	

THANK YOU

JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION

Generator Name: Binghamton Peat
 Address: 4 Nowlan Rd Binghamton
 Contact Name: Joseph Morgan
 Phone Number: _____

Job #: 15-24
 Location: Former Triple Cabin Motel
 Address: 4 Nowlan Rd
Binghamton NY 13904

Description of Waste:

		Description
Friable	_____	_____
Non-Friable	_____	_____
Both	_____ % Friable	_____
	_____ % Non-Friable	_____
Grit & Bar Screen	_____	_____
Stabalized Sludge	_____	_____
Contaminated Soil	<u>X</u>	_____
Auto Fluff	_____	_____
Other	_____	_____
Description:	_____	_____

Quantity	Containers		Volume in Cubic Yards
	Type		
1	Dump		16

Vehicle License No./State: 11490 PC
 Disposal Facility Permit Number:
 Truck: 30103283
 Rolloff: _____

TRANSPORTER #1

Transporter Name: JN Giammarino Construction
 Address: 671 Conklin Rd
 City, State, Zip: Binghamton NY 13903
 Phone #: 607-724-0840
 DEC/EPA Permit #: 7A-167
 Name of Driver (print): _____

DESTINATION (Disposal Facility)

Disposal Facility's Name: Broome County Landfill
 Address: 286 Knapp Road
 City, State, Zip: Binghamton, NY 13905
 Phone #: 607-763-4434
 6NYCRR 360 Permit #: 7-0399-0027/00002

Name of Authorized Agent (Print): _____

I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.

[Signature]
 Signature of Driver: _____ Date of Receipt: _____

I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.

[Signature]
 Signature of Disposal Facilities Authorized Agent: _____ Date of Receipt: **REC'D FEB 16 2016**

I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.

[Signature]
 Signature of Driver: _____ Date of Receipt: _____

The material delivered by the transporter has been rejected for disposal at this disposal site.

Signature of Disposal Facilities Authorized Agent: _____ Date of Receipt: _____

Landfill Ticket Number: _____

Brooms County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607) 763-4434
2/16/16

Ticket No 1507531
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material [REDACTED]/tn
Truck ID 007407
Trailer

Gross	74980	9:21 am
Tare	25700	9:35 am
Net	24.64	tn
Material	[REDACTED]	
Delivery		0.00
Misc		0.00
Tax		0.00
Total	[REDACTED]	

THANK YOU

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION															
Generator Name: <u>Binghamton Peat</u>	Job #: <u>15-24</u>														
Address: <u>4 Nowlan Rd Binghamton</u>	Location: <u>Former Triple Ceres Metal</u>														
Contact Name: <u>Joseph Morgan</u>	Address: <u>4 Nowlan Rd</u>														
Phone Number: _____	<u>Binghamton NY 13904</u>														
Description of Waste:	Description														
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th align="center" colspan="2">Containers</th> <th align="center">Volume in</th> </tr> <tr> <th align="center">Quantity</th> <th align="center">Type</th> <th align="center">Cubic Yards</th> </tr> </thead> <tbody> <tr> <td align="center">1</td> <td align="center">Dump</td> <td align="center">16</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Containers		Volume in	Quantity	Type	Cubic Yards	1	Dump	16					
Containers		Volume in													
Quantity	Type	Cubic Yards													
1	Dump	16													
Friable _____															
Non-Friable _____															
Both _____ % Friable _____															
_____ % Non-Friable _____															
Grit & Bar Screen _____															
Stabalized Sludge _____															
Contaminated Soil <u>X</u>															
Auto Fluff _____															
Other _____															
Description: _____															
TRANSPORTER #1															
Transporter Name: <u>JN Giammarino Construction</u>															
Address: <u>671 Conklin Rd</u>															
City, State, Zip: <u>Binghamton NY 13903</u>															
Phone #: <u>607-724-0840</u>															
DEC/EPA Permit #: <u>7A-167</u>															
Name of Driver (print): _____															
DESTINATION (Disposal Facility)															
Disposal Facility's Name: <u>Broome County Landfill</u>															
Address: <u>286 Knapp Road</u>															
City, State, Zip: <u>Binghamton, NY 13905</u>															
Phone #: <u>607-763-4434</u>															
6NYCRR 360 Permit #: <u>7-0399-0027/00002</u>															
Name of Authorized Agent (Print): _____															
<p>I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.</p> <p align="center"><u>[Signature]</u> _____</p> <p>Signature of Driver _____ Date of Receipt _____</p>															
<p>I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.</p> <p align="center"><u>[Signature]</u> _____</p> <p>Signature of Driver _____ Date of Receipt _____</p>															
<p>I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.</p> <p align="center"><u>[Signature]</u> _____</p> <p>Signature of Disposal Facilities Authorized Agent _____ Date of Receipt _____</p> <p>REC'D FEB 16 2016</p> <p>The material delivered by the transporter has been rejected for disposal at this disposal site.</p> <p>Signature of Disposal Facilities Authorized Agent _____ Date of Receipt _____</p> <p>Landfill Ticket Number: _____</p>															

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607) 763-4434
2/17/16

Ticket No 1507734
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material [REDACTED]/tn
Truck ID 007408
Trailer

Gross	57460	12:27 pm
Tare	26080	12:40 pm
Net	15.69	tn
Material	[REDACTED]	
Delivery	0.00	
Misc	0.00	
Tax	0.00	
Total	[REDACTED]	

THANK YOU

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION																									
Generator Name:	<u>Binghamton Realty</u>		Job #:	<u>15-24</u>																					
Address:	<u>4 Nowlan Rd Binghamton</u>		Location:	<u>Former Triple Cities Metal</u>																					
Contact Name:	<u>Joseph Morgan</u>		Address:	<u>4 Nowlan Rd</u>																					
Phone Number:	_____			<u>Binghamton NY 13904</u>																					
Description of Waste:				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Containers</th> <th style="width: 30%;">Type</th> <th style="width: 30%;">Volume in Cubic Yards</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Quantity</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Dump</td> <td style="text-align: center;">16</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Containers	Type	Volume in Cubic Yards	Quantity			1	Dump	16												
Containers	Type	Volume in Cubic Yards																							
Quantity																									
1	Dump	16																							
Friable		_____																							
Non-Friable		_____																							
Both		% Friable _____																							
		% Non-Friable _____																							
Grit & Bar Screen		_____																							
Stabalized Sludge		_____																							
Contaminated Soil		<u>X</u>	Vehicle License No./State <u>11490 PC</u>																						
Auto Fluff		_____	Disposal Facility Permit Number																						
Other		_____	Truck <u>30163283</u>																						
Description:		_____	Rolloff _____																						
TRANSPORTER #1																									
Transporter Name:	<u>JN Giannarino Construction</u>																								
Address:	<u>671 Conklin Rd</u>																								
City, State, Zip:	<u>Binghamton NY 13903</u>																								
Phone #:	<u>607-724-0840</u>																								
DEC/EPA Permit #:	<u>7A-167</u>																								
Name of Driver (print): _____																									
I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.																									
Signature of Driver		Date of Receipt																							
_____		_____																							
I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.																									
Signature of Driver		Date of Receipt																							
_____		_____																							
DESTINATION (Disposal Facility)																									
Disposal Facility's Name: <u>Broome County Landfill</u>																									
Address: <u>286 Knapp Road</u>																									
City, State, Zip: <u>Binghamton, NY 13905</u>																									
Phone #: <u>607-763-4434</u>																									
6NYCRR 360 Permit #: <u>7-0399-0027/00002</u>																									
Name of Authorized Agent (Print): _____																									
I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.																									
Signature of Disposal Facilities Authorized Agent		Date of Receipt																							
_____		_____																							
The material delivered by the transporter has been rejected for disposal at this disposal site.																									
Signature of Disposal Facilities Authorized Agent		Date of Receipt																							
_____		_____																							
Landfill Ticket Number: _____																									

REC'D FEB 17 2016

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607) 763-4434
2/17/16

Ticket No 1507694
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material [REDACTED]/tn
Truck ID 007408
Trailer

Gross 62740	10:59 am
Tare 25900	11:11 am
Net 18.42	tn
Material	[REDACTED]
Delivery	0.00
Misc	0.00
Tax	0.00
<hr/>	
Total	[REDACTED]

THANK YOU

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION

Generator Name: Binghamton Peat
Address: 4 Nowlan Rd Binghamton
Contact Name: Joseph Morgan
Phone Number: _____

Job #: 15-24
Location: Former Triple Ceres Metal
Address: 4 Nowlan Rd
Binghamton NY 13904

Description of Waste:

Description	
Friable	_____
Non-Friable	_____
Both	_____ % Friable
	_____ % Non-Friable
Grit & Bar Screen	_____
Stabalized Sludge	_____
Contaminated Soil	<u>X</u>
Auto Fluff	_____
Other	_____
Description:	_____

Containers		Volume in Cubic Yards
Quantity	Type	
1	Dump	16

Vehicle License No./State: 11490 PC
Disposal Facility Permit Number: _____
Truck: 30163288
Rolloff: _____

TRANSPORTER #1

Transporter Name: JN Giammarino Construction
Address: 671 Conklin Rd
City, State, Zip: Binghamton NY 13903
Phone #: 607-724-0840
DEC/EPA Permit #: 7A-167
Name of Driver (print): _____

DESTINATION (Disposal Facility)

Disposal Facility's Name: Broome County Landfill
Address: 286 Knapp Road
City, State, Zip: Binghamton, NY 13905
Phone #: 607-763-4434
6NYCRR 360 Permit #: 7-0399-0027/00002
Name of Authorized Agent (Print): _____

I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.

X Bob
Signature of Driver _____ Date of Receipt _____

I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.

X Bob
Signature of Driver _____ Date of Receipt _____

I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.

X _____
Signature of Disposal Facilities _____ Date of Receipt _____
Authorized Agent

The material delivered by the transporter has been rejected for disposal at this disposal site.

Signature of Disposal Facilities _____ Date of Receipt _____
Authorized Agent
Landfill Ticket Number: _____

REC'D FEB 17 2016

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607)763-4434
2/17/16

Ticket No 1507718
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material [REDACTED]/tn
Truck ID 007407
Trailer

Gross	66700	11:43 am
Tare	25580	11:53 am
Net	20.56	tn
Material		[REDACTED]
Delivery		0.00
Misc		0.00
Tax		0.00
Total		[REDACTED]

THANK YOU

JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION

Generator Name: Binghamton Realty
 Address: 4 Nowlan Rd Binghamton
 Contact Name: Joseph Morgan
 Phone Number: _____

Job #: 1524
 Location: Former Triple Cakes Metal
 Address: 4 Nowlan Rd
Binghamton NY 13904

Description of Waste:

		Description
Friable	_____	_____
Non-Friable	_____	_____
Both	_____ % Friable	_____
	_____ % Non-Friable	_____
Grit & Bar Screen	_____	_____
Stabalized Sludge	_____	_____
Contaminated Soil	<u>X</u>	_____
Auto Fluff	_____	_____
Other	_____	_____
Description: _____		

Containers		Volume in Cubic Yards
Quantity	Type	
<u>1</u>	<u>Dump</u>	<u>16</u>

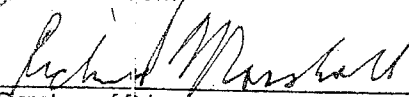
Vehicle License No./State: 11490 PC
 Disposal Facility Permit Number:
 Truck: 30103288
 Rolloff: _____


TRANSPORTER #1

Transporter Name: JN Giannarino Construction
 Address: 671 Conklin Rd
 City, State, Zip: Binghamton NY 13903
 Phone #: 607-724-0840
 DEC/EPA Permit #: 7A-167
 Name of Driver (print): _____


DESTINATION (Disposal Facility)

Disposal Facility's Name: Broome County Landfill
 Address: 286 Knapp Road
 City, State, Zip: Binghamton, NY 13905
 Phone #: 607-763-4434
 6NYCRR 360 Permit #: 7-0399-0027/00002
 Name of Authorized Agent (Print): _____

I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.

 Signature of Driver _____ Date of Receipt _____

I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.

 Signature of Disposal Facilities Authorized Agent _____ Date of Receipt _____

REC'D FEB 17 2016

I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.

 Signature of Driver _____ Date of Receipt _____

The material delivered by the transporter has been rejected for disposal at this disposal site.
 Signature of Disposal Facilities Authorized Agent _____ Date of Receipt _____
 Landfill Ticket Number: _____

Broome County Landfill
286 Knapp Rd
Binghamton, NY 13905
(607) 763-4434
2/17/16

Ticket No 1507645
Customer 0074
J N GIAMMARINO CONSTRUCTION
Material CS
Material [REDACTED]/tn
Truck ID 007407
Trailer

Gross	71220	8:50 am
Tare	25640	8:59 am
Net	22.79	tn
Material	[REDACTED]	
Delivery		0.00
Misc		0.00
Tax		0.00
Total	[REDACTED]	

THANK YOU

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION

Generator Name: Binghamton Realty
Address: 4 Nowlan Rd Binghamton
Contact Name: Joseph Morgan
Phone Number: _____

Job #: 15-24
Location: Former Triple Glass Metal
Address: 4 Nowlan Rd
Binghamton NY 13904

Description of Waste:		Description
Friable	_____	_____
Non-Friable	_____	_____
Both	_____ % Friable	_____
	_____ % Non-Friable	_____
Grit & Bar Screen	_____	_____
Stabalized Sludge	_____	_____
Contaminated Soil	<u>X</u>	_____
Auto Fluff	_____	_____
Other	_____	_____
Description: _____		

Containers Quantity	Type	Volume in
		Cubic Yards
1	Dump	16

Vehicle License No./State: 11490 PC
Disposal Facility Permit Number: _____
Truck: 30103288
Rolloff: _____

TRANSPORTER #1

Transporter Name: JN Giammarino Construction
Address: 671 Conklin Rd
City, State, Zip: Binghamton NY 13903
Phone #: 607-724-0840
DEC/EPA Permit #: 7A-167
Name of Driver (print): _____

DESTINATION (Disposal Facility)

Disposal Facility's Name: Broome County Landfill
Address: 286 Knapp Road
City, State, Zip: Binghamton, NY 13905
Phone #: 607-763-4434
6NYCRR 360 Permit #: 7-0399-0027/00002
Name of Authorized Agent (Print): _____

I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.

Richard Marshall
Signature of Driver

I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.

[Signature]
Signature of Disposal Facilities Authorized Agent

REC'D FEB 17 2016

I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.

Richard Marshall
Signature of Driver

The material delivered by the transporter has been rejected for disposal at this disposal site.

Signature of Disposal Facilities Authorized Agent

Date of Receipt

Date of Receipt

Landfill Ticket Number: _____

Broome County Landfill
288 Knapp Rd
Binghamton, NY 13905
(607) 763-4434

2/17/16

Ticket No 1507679

Customer 0074

J N GIAMMARINO CONSTRUCTION

Material CS

Material [REDACTED] tn

Truck ID 007407

Trailer

Gross 64400 10:17 am

Tare 25640 10:26 am

Net 19.38 tn

Material [REDACTED]

Delivery 0.00

Misc 0.00

Tax 0.00



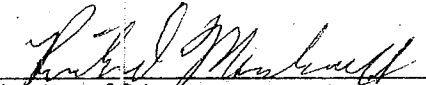

Total [REDACTED]

THANK YOU

**JN GIAMMARINO
671 CONKLIN ROAD, BINGHAMTON, NY 13903
607-724-0840**

Waste Shipment Record

Manifest #: _____

GENERATOR INFORMATION																																									
Generator Name: <u>Binghamton Realty</u>	Job #: <u>15-24</u>																																								
Address: <u>4 Nowlan Rd Binghamton</u>	Location: <u>Former Triple Cities Metal</u>																																								
Contact Name: <u>Joseph Morgan</u>	Address: <u>4 Nowlan Rd</u>																																								
Phone Number: _____	<u>Binghamton NY 13904</u>																																								
Description of Waste:	Containers																																								
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Quantity</th> <th style="width:30%;">Type</th> <th style="width:40%;">Volume in Cubic Yards</th> </tr> </thead> <tbody> <tr> <td align="center">1</td> <td align="center">Dump</td> <td align="center">16</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Quantity	Type	Volume in Cubic Yards	1	Dump	16																																		
Quantity	Type	Volume in Cubic Yards																																							
1	Dump	16																																							
<table style="width:100%;"> <tr> <td style="width:30%;">Friable</td> <td>_____</td> <td style="width:30%;">Description</td> <td>_____</td> </tr> <tr> <td>Non-Friable</td> <td>_____</td> <td> </td> <td> </td> </tr> <tr> <td>Both</td> <td>_____ % Friable</td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td>_____ % Non-Friable</td> <td> </td> <td> </td> </tr> <tr> <td>Grit & Bar Screen</td> <td>_____</td> <td> </td> <td> </td> </tr> <tr> <td>Stabalized Sludge</td> <td>_____</td> <td> </td> <td> </td> </tr> <tr> <td>Contaminated Soil</td> <td><u>X</u></td> <td> </td> <td> </td> </tr> <tr> <td>Auto Fluff</td> <td>_____</td> <td> </td> <td> </td> </tr> <tr> <td>Other</td> <td>_____</td> <td> </td> <td> </td> </tr> <tr> <td>Description:</td> <td>_____</td> <td> </td> <td> </td> </tr> </table>	Friable	_____	Description	_____	Non-Friable	_____			Both	_____ % Friable				_____ % Non-Friable			Grit & Bar Screen	_____			Stabalized Sludge	_____			Contaminated Soil	<u>X</u>			Auto Fluff	_____			Other	_____			Description:	_____			Vehicle License No./State: <u>11490 PC</u> Disposal Facility Permit Number: Truck: <u>30163258</u> Rolloff: _____
Friable	_____	Description	_____																																						
Non-Friable	_____																																								
Both	_____ % Friable																																								
	_____ % Non-Friable																																								
Grit & Bar Screen	_____																																								
Stabalized Sludge	_____																																								
Contaminated Soil	<u>X</u>																																								
Auto Fluff	_____																																								
Other	_____																																								
Description:	_____																																								
TRANSPORTER #1	DESTINATION (Disposal Facility)																																								
Transporter Name: <u>JN Giammarino Construction</u>	Disposal Facility's Name: <u>Broome County Landfill</u>																																								
Address: <u>671 Conklin Rd</u>	Address: <u>286 Knapp Road</u>																																								
City, State, Zip: <u>Binghamton NY 13903</u>	City, State, Zip: <u>Binghamton, NY 13905</u>																																								
Phone #: <u>607-724-0840</u>	Phone #: <u>607-763-4434</u>																																								
DEC/EPA Permit #: <u>7A-167</u>	6NYCRR 360 Permit #: <u>7-0399-0027/00002</u>																																								
Name of Driver (print): _____	Name of Authorized Agent (Print): _____																																								
I hereby warrant that the above named and described material was from the owner on the date of receipt referenced below.	I hereby warrant that the above named and described material was accepted from the transporter on the date of receipt referenced below.																																								
																																									
Signature of Driver _____ Date of Receipt _____	Signature of Disposal Facilities Authorized Agent _____ Date of Receipt _____																																								
I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.	The material delivered by the transporter has been rejected for disposal at this disposal site.																																								
																																									
Signature of Driver _____ Date of Receipt _____	Signature of Disposal Facilities Authorized Agent _____ Date of Receipt _____																																								
	Landfill Ticket Number: _____																																								

REC'D FEB 17 2016



Division of Solid Waste Management
Broome County Landfill

Debra A. Preston, County Executive . Daniel A. Schofield, Deputy Commissioner

October 29, 2015

J. N. Giammarino Construction
671 Conklin Road
Binghamton, NY 13903

RE: CONTAMINATED SOIL (CS)
PACE PROJECT # 30163288

Dear Sirs:

This letter is to authorize you to dispose of contaminated soil at the Broome County Landfill. We need to have a copy of your current Part 364 Industrial Waste Transporter permit to haul this material to the landfill. The contaminated soil originates from the following location : FORMER TRIPLE CITIES METALS 4 NOWLAN RD BINGHAMTON NY BROOME COUNTY

You need to bring this letter with you to the Landfill to be allowed to dump the contaminated soil and a Broome County waste manifest. The charge for bringing contaminated soil into the Landfill will be at the current tip fee of \$27.00 per ton.

Should you have any questions, please contact me at (607) 778-2932.

Sincerely,

Laurie Haskell
Solid Waste Specialist

LH:wam

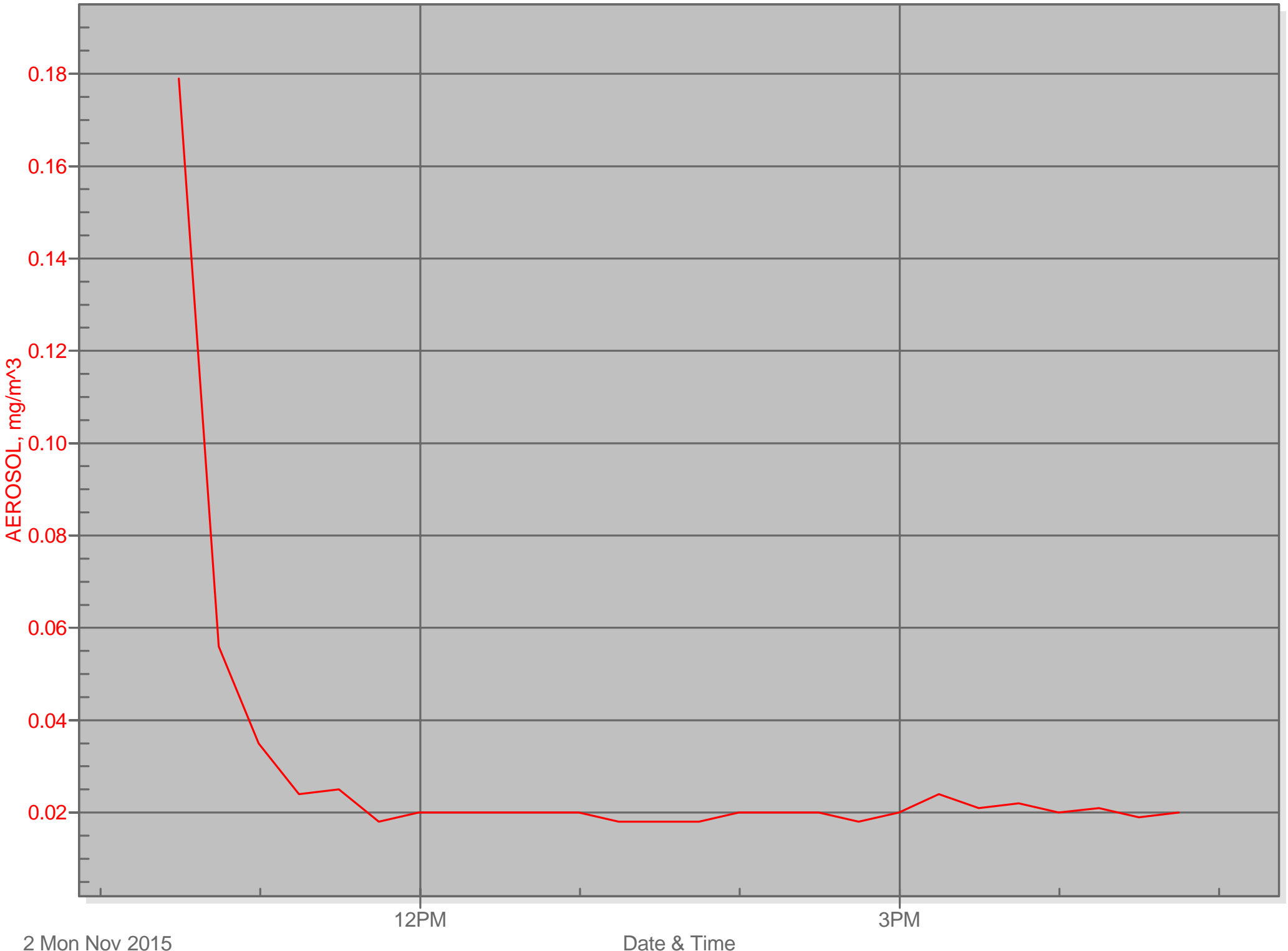
cc: Christopher Coddington, Director, Environmental Health
Lois Dilworth, Nanticoke Landfill CAC Chairman
Supervisor, Town of Nanticoke
Richard Hand, Broome County Landfill Supervisor

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002226041	2. Page 1 of 1	3. Emergency Response Phone 1-855-839-3648	4. Manifest Tracking Number 015454249 JJK				
5. Generator's Name and Mailing Address TRIPLE CITIES METAL 4 NOWLAN ROAD BINGHAMTON NY 13904			Generator's Site Address (if different than mailing address) FORMER TRIPLE CITIES METAL FINISHING 4 NOWLAN ROAD BINGHAMTON NY 13904						
Generator's Phone: 607-733-8491 ATTN: JOHN LEALBEATER			U.S. EPA ID Number 015454249						
6. Transporter 1 Company Name HENEO SOLUTIONS			U.S. EPA ID Number						
7. Transporter 2 Company Name			U.S. EPA ID Number						
8. Designated Facility Name and Site Address HENEO SOLUTIONS 3 BROAD STREET BINGHAMTON NY 13904			U.S. EPA ID Number						
Facility's Phone: (607) 733-8254									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
			No.	Type					
	X	HAZARDOUS WASTE, SOLID, H.O.S. (CAUSTIC), III, PG (006), 75-2956 DRYABLE COPTINGS, 80% 22196	006	CF	006	Y			
14. Special Handling Instructions and Additional Information EMERGENCY RESPONSE HENEO SOLUTIONS: 1-855-839-3648									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name X <u>John Lealbeater</u>					Signature 		Month Day Year <u>01/22/16</u>		
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit Date leaving U.S.					
	17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name <u>Jay Mehl</u>					Signature 		Month Day Year <u>01/22/16</u>		
Transporter 2 Printed/Typed Name					Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number								
	18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. <u>H-141</u>		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					Printed/Typed Name <u>John J Cook</u>				
					Signature 		Month Day Year <u>01/22/16</u>		

APPENDIX D
CAMP AIR MONITORING DATA

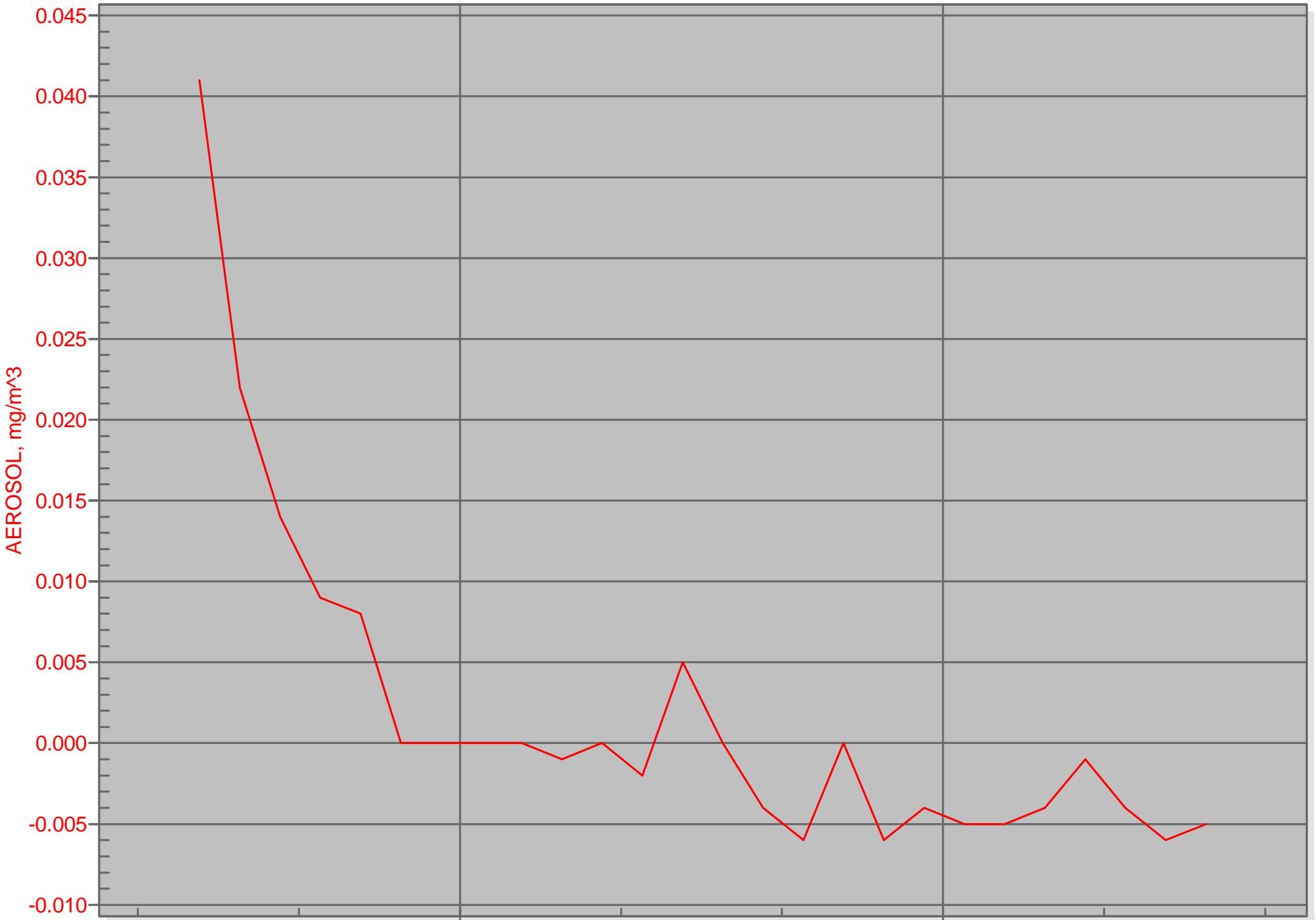
Triple Cities Metal Finishing

November 2, 2015 - Upwind



Triple Cities Metal Finishing

November 2, 2015-Downwind



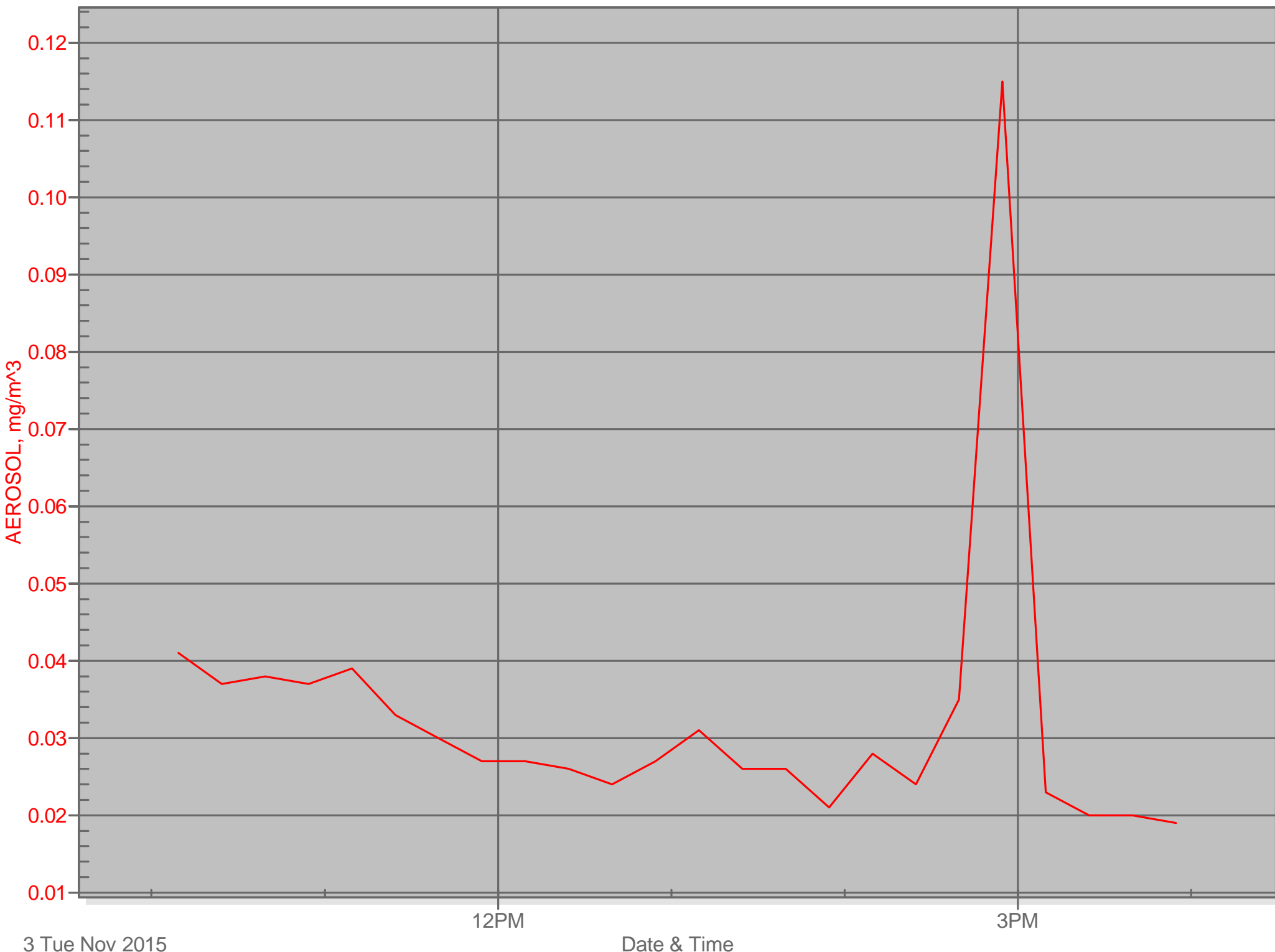
2 Mon Nov 2015

Date & Time

3PM

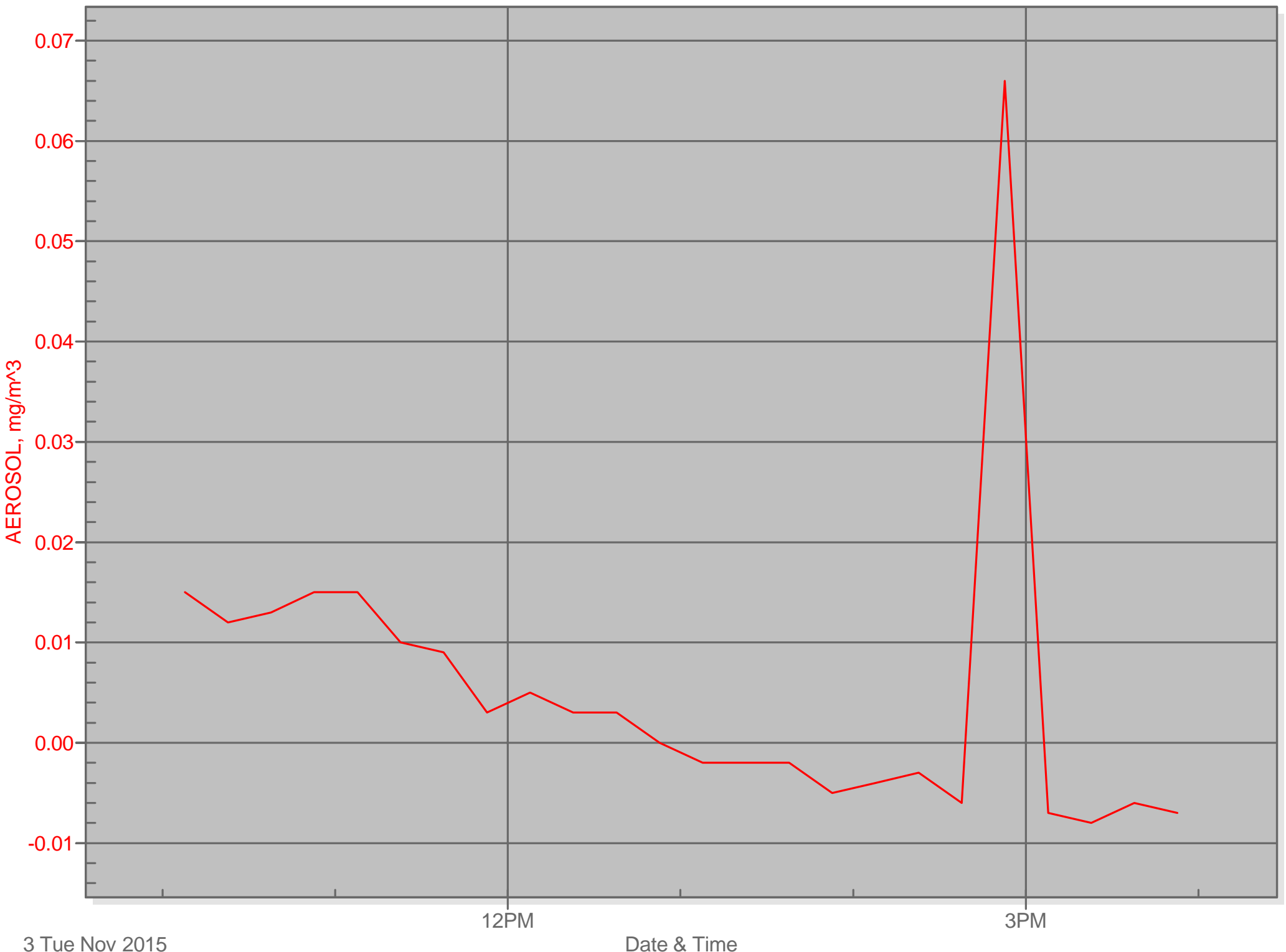
Triple Cities Metal Finishing

November 3, 2015 - Upwind



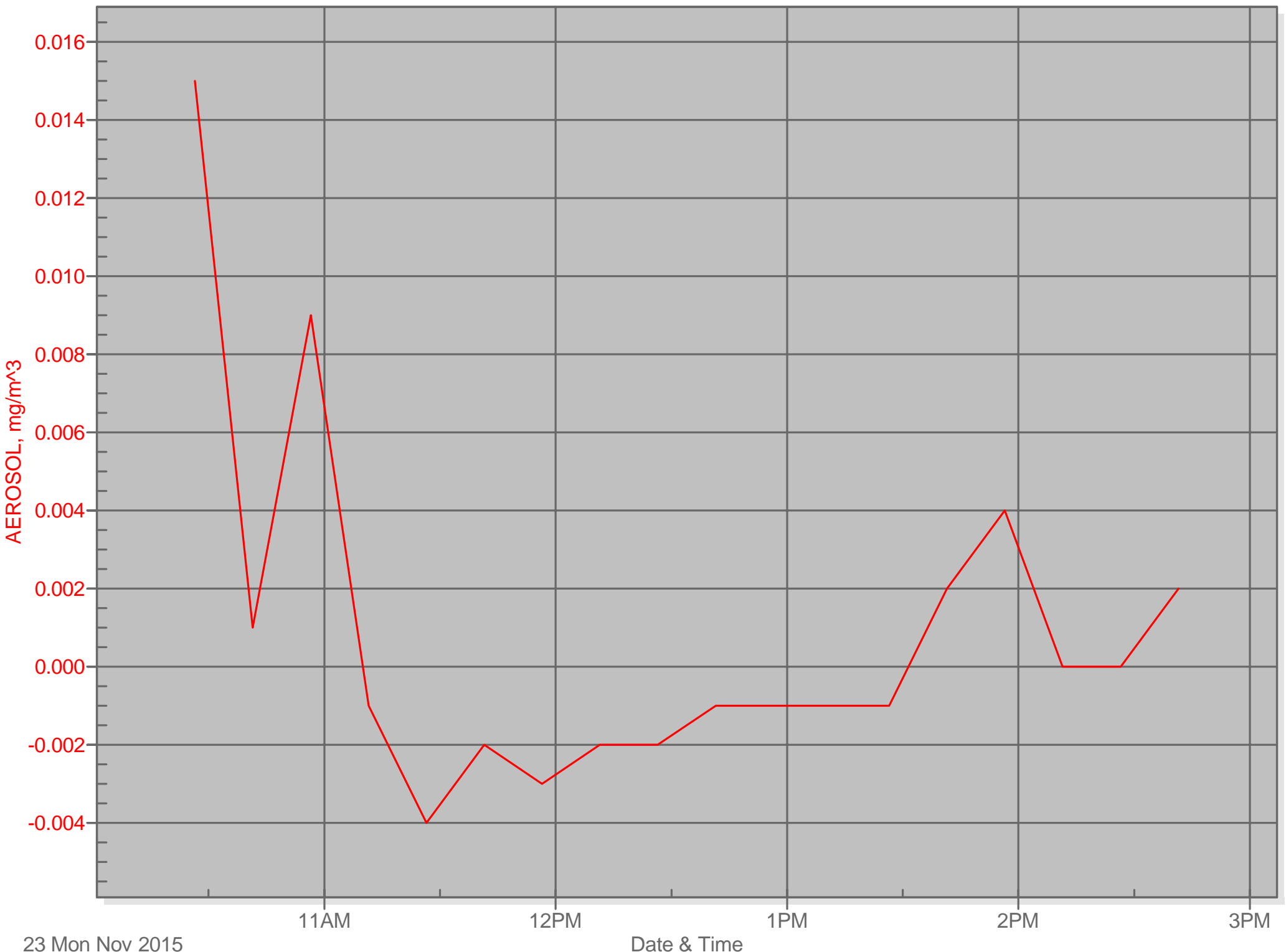
Triple Cities Metal Finishing

November 3, 2015 - Downwind



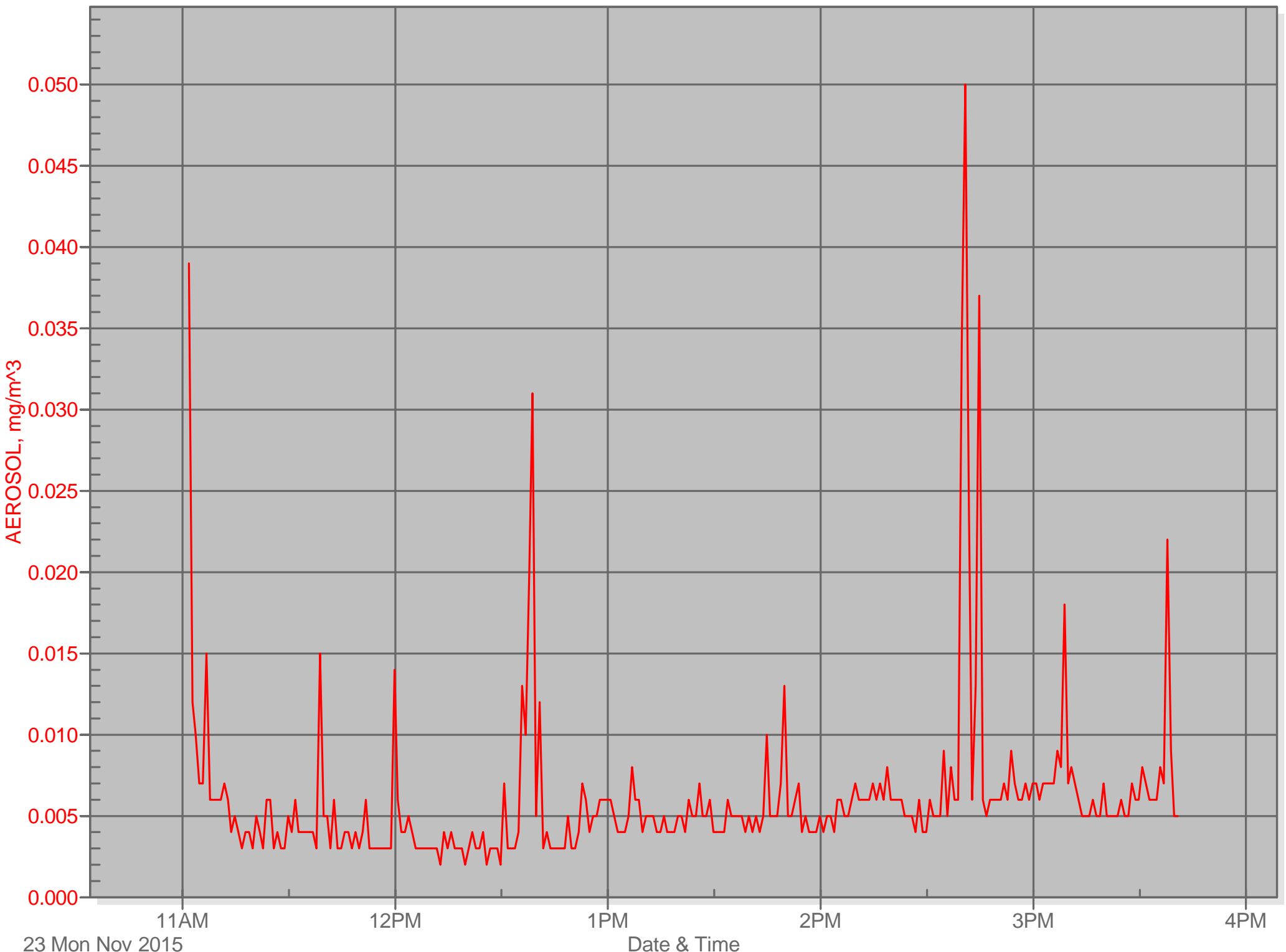
Triple Cities Metal Finishing

November 23, 2015 - Upwind



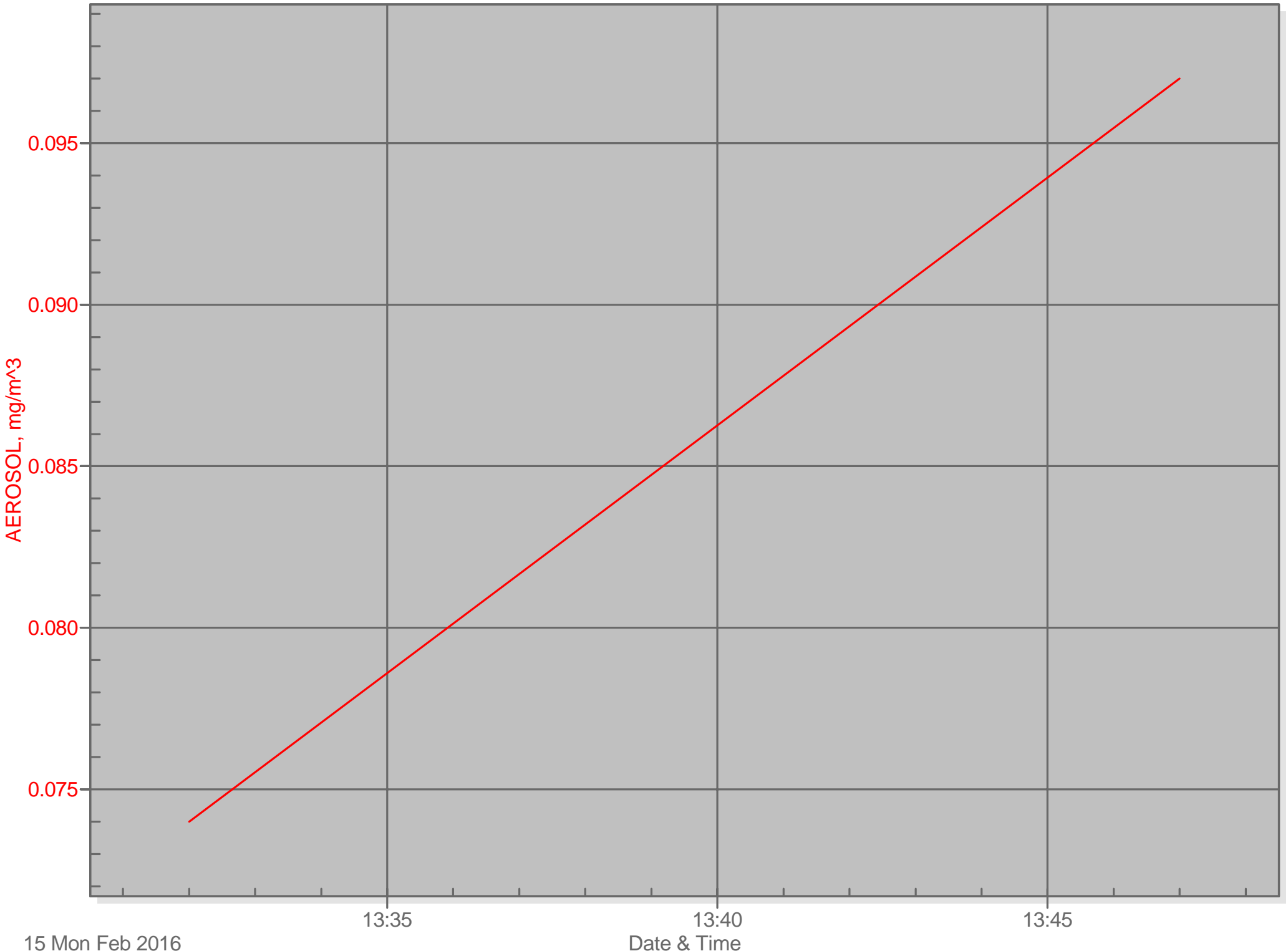
Triple Cities Metal Finishing

November 23, 2015 - Downwind



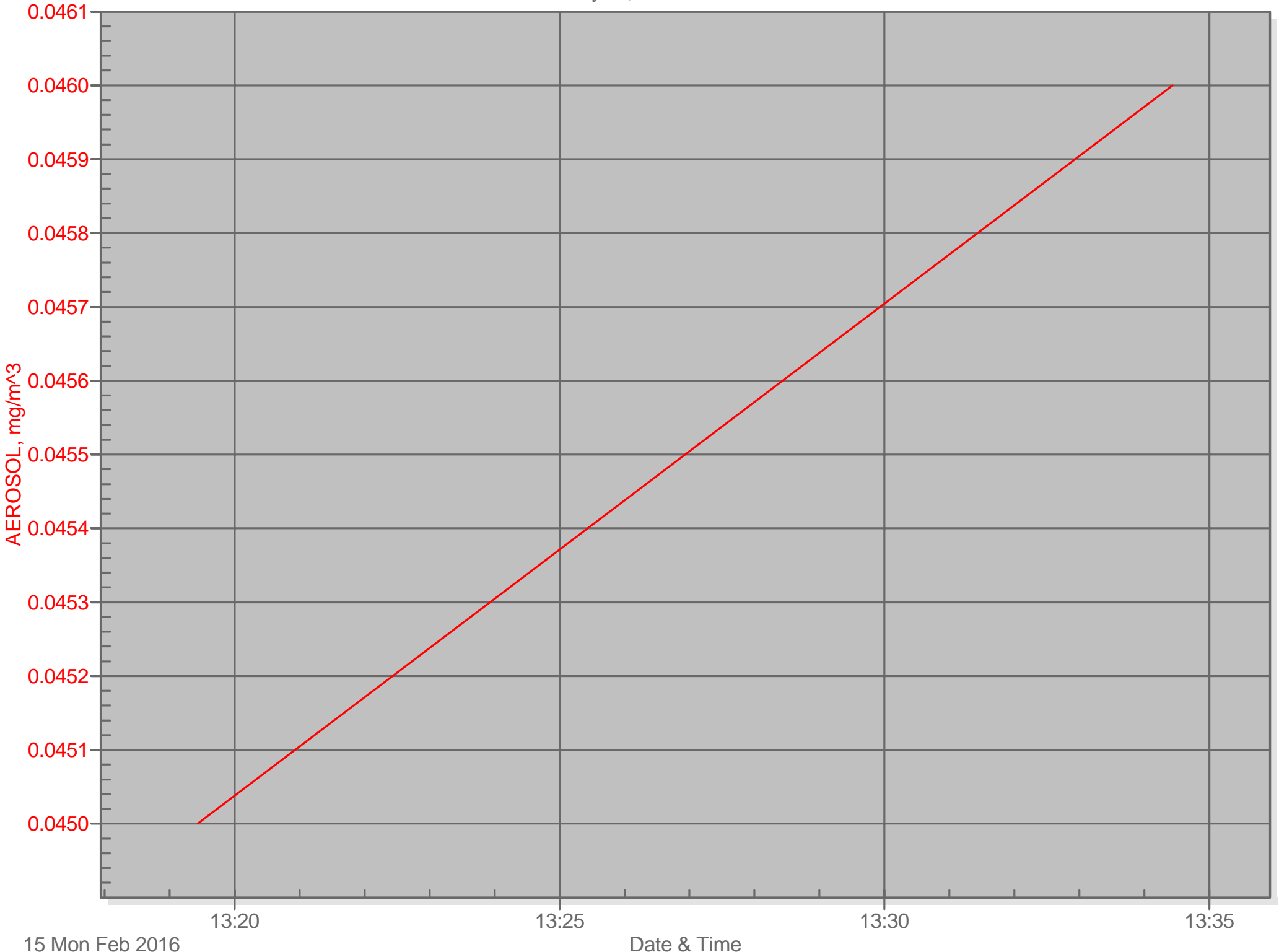
Triple Cities Metal Finishing

February 15, 2016 - UpwindA



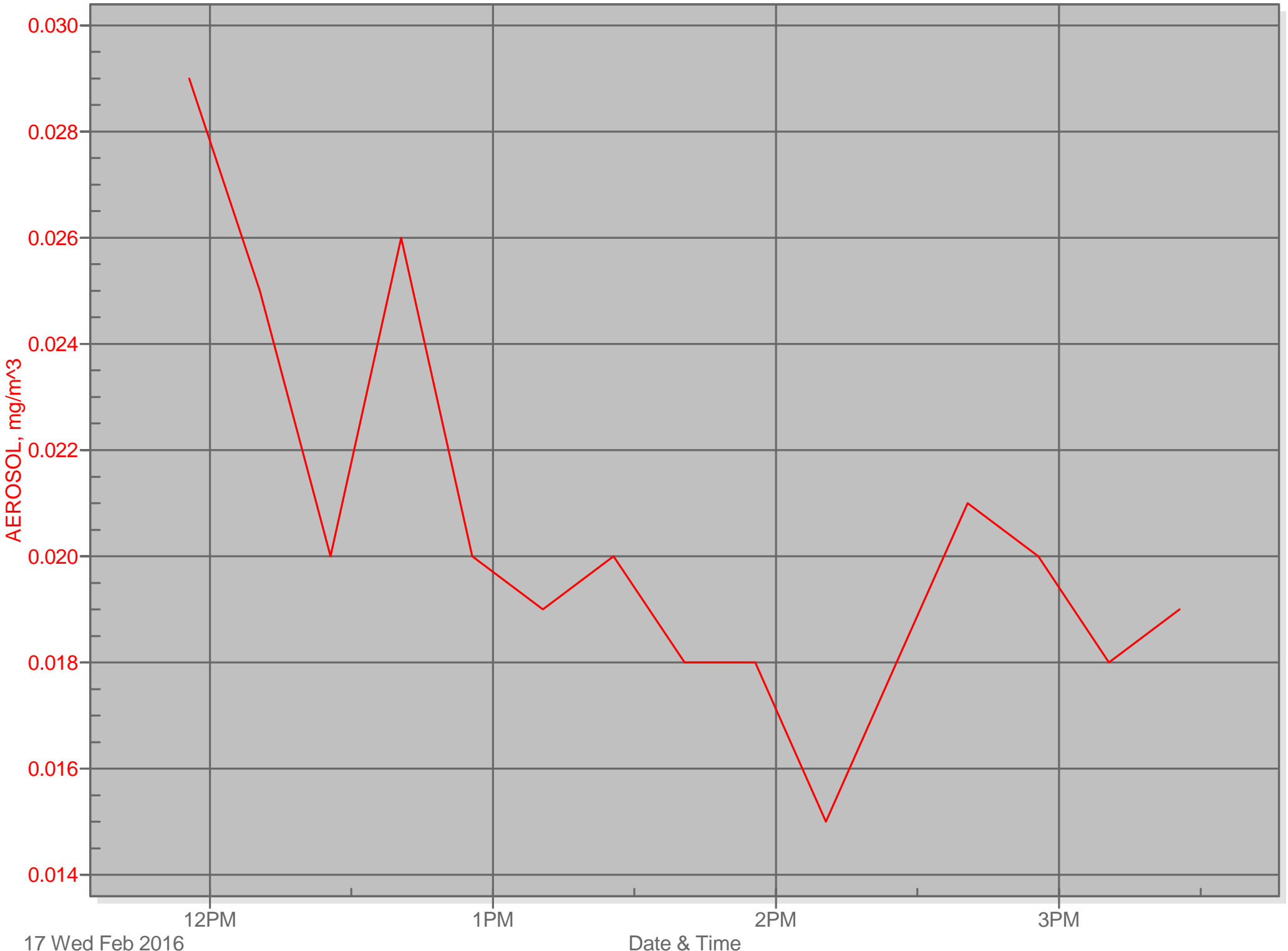
Triple Cities Metal Finishing

February 15, 2016 - Downwind



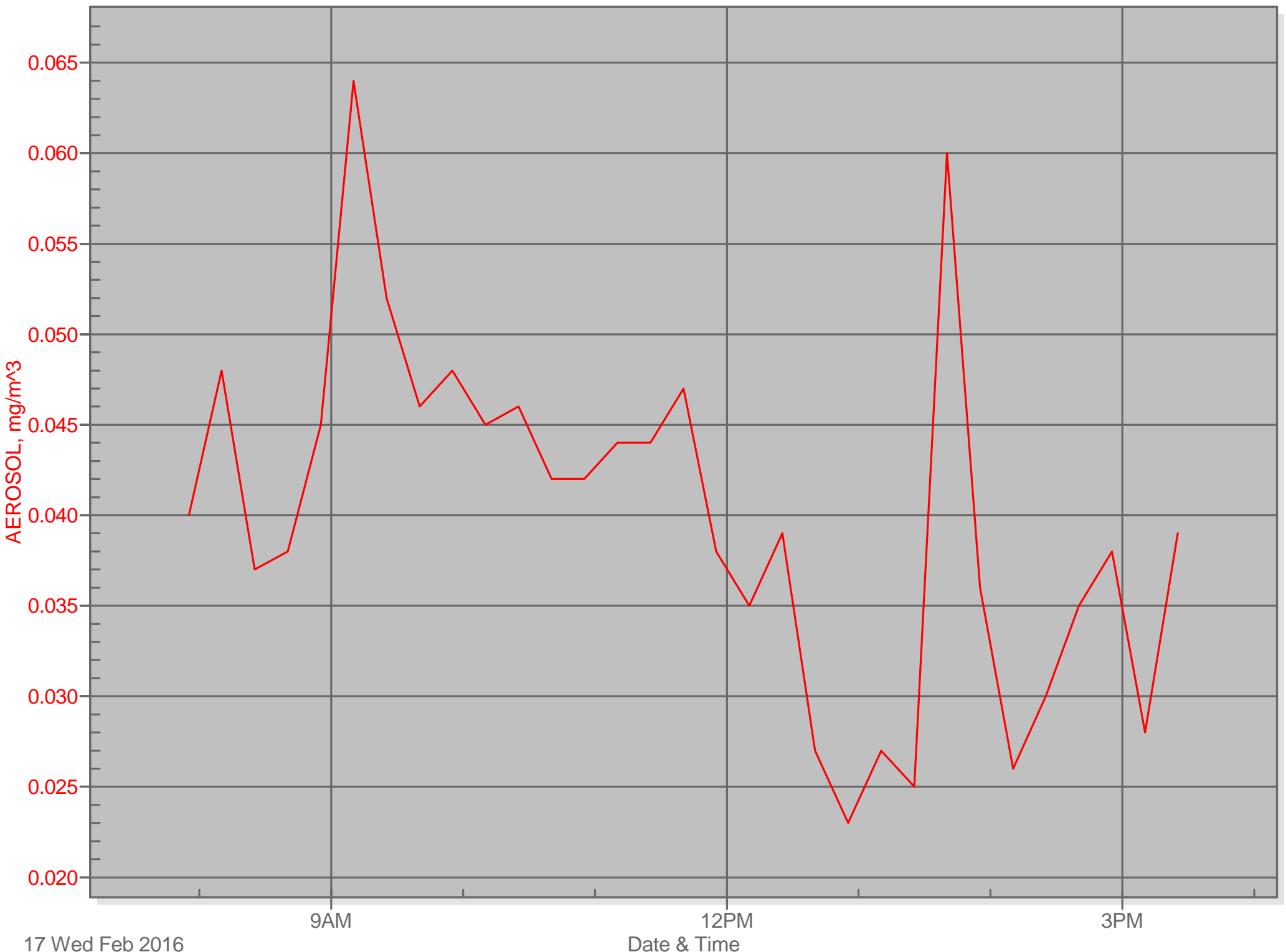
Triple Cities Metal Finishing

February 17, 2016-Upwind



Triple Cities Metal Finishing

February 17, 2016-Downwind



APPENDIX E
SUBSURFACE LOGS

GeoLogic NY, Inc.

P.O. Box 5080
Cortland, NY 13045
607-836-4400
607-836-4403 (fax)

SUBSURFACE LOG

Project: Triple Cities Metal Finishing Corp.
Location: Nowlan Road, Binghamton, New York

Boring No.: B-9 (MW-3)

Project No.: 99011

Date Started: 12-6-00

Date Completed: 12-6-00

Page: 1 of 2

Reference Elevation: 899.75

Depth (ft)	Number	Type	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0						Ground Surface			
0						Asphalt 0.4'			
1	1	SS	5 9 7	16	0.7	Brown SILT, Some coarse-fine Sand, little gravel, damp	0		Curbbox and Locking Cap
2									
3	2	SS	8 5 4 5	9	1.3		0		
4									
5	3	SS	8 10 8 8	18	1.2	Brown coarse-fine GRAVEL, SAND and SILT moist	1.1		Grout, 2'-24'
6									
7	4	SS	12 10 8 9	18	0.8		0.5		2" dia. PVC Riser Pipe
8									
9	5	SS	8 4 5 4	9	0.6		3.3		
10									
11	6	SS	15 10 15 18	25	0.7		3.1		
12									
13	7	SS	15 18 30 50	48	0.7	Brown coarse-fine GRAVEL and SAND, Some Silt, cobbles, dry	5.0		
14									
15	8	SS	25 31 30 24	61	0.9		4.2		
16									
17	9	SS	35 45 40 50	85	1.3	similar with a layer of medium-fine SAND, little silt, dry	4.7		
18									
19	10	SS	35 60 100-.3		1.1		3.2		
20									

Sampling Method: ASTM D-1586

Visually Classified by: S. Cummins

Notes: 4 1/4" I.D. Hollow Stem Augers

File: 99011/tech/mw3

GeoLogic NY, Inc.

P.O. Box 5080
 Cortland, NY 13045
 607-836-4400
 607-836-4403 (fax)

SUBSURFACE LOG

Project: Triple Cities Metal Finishing Corp.
 Location: Nowlan Road, Binghamton, New York

Boring No.: B-9 (MW-3)

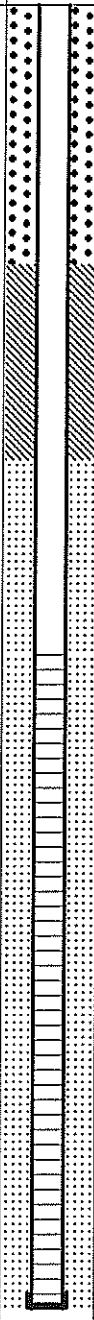

Project No.: 99011

Date Started: 12-6-00

Date Completed: 12-6-00

Page: 2 of 2

Reference Elevation: 899.75

Depth (ft)	Number	Type	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
21	11	SS	45 60 100-2		0.7	Brown coarse-fine GRAVEL and SAND, Some Silt, cobbles, dry	3.1		
22							2.9		
23	12	SS	60 50-.1		0.6				
24									
25	13	SS	70 50-.3		0.5		3.1		Bentonite Seal, 24'-27'
26									
27	14	SS	56 50-.1		0.6		3.7		
28									
29	15	SS	100-2		0				Sandpack, 27'-40'
30									
31	16	SS	25 12 16 28	38	0.6	becomes saturated	5.3		2" dia. PVC Well Screen 0.020" slots, 30'-40'
32									
33	17	SS	37 41 25 18	66	0.2		7.2		
34									
35	18	SS	13 15 15 16	30	0.3		9.9		
36									
37	19	SS	10 6 4 6	10	0.4		6.7		
38									
39	20	SS	27 14 25 32	39	1.2		5.0		At completion, augers at 40', water at 32.3'
40						Boring Terminated			

Sampling Method: ASTM D-1586

Visually Classified by: S. Cummins

Notes: 4 1/4" I.D. Hollow Stem Augers

File: 99011/tech/mw3

GeoLogic NY, Inc.

P.O. Box 5080
Cortland, NY 13045
607-836-4400
607-836-4403 (fax)

SUBSURFACE LOG

Project: Triple Cities Metal Finishing Corp.
Location: Nowlan Road, Binghamton, New York

Boring No.: B-10 (MW-4)

Project No.: 99011

Date Started: 12-7-00

Date Completed: 12-8-00

Page: 1 of 2

Reference Elevation: 899.70

Depth (ft)	Number	Type	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0						Ground Surface			
1	1	SS	1 4 5 12	9	0.9	Brown coarse-fine SAND and GRAVEL, Some Silt, moist	0.7		Curbbox and Locking Cap
2									
3	2	SS	8 7 6 5	13	1.1	Brown SILT, moist	4.2		
4									
5	3	SS	8 10 9 10	19	1.4	Brown coarse-fine GRAVEL and SAND, little silt, dry	6.1		Grout, 2'-22'
6									
7	4	SS	11 6 7 5	13	1.2		5.2		2" dia. PVC Riser Pipe
8									
9	5	SS	30 19 11 12	30	0.4		3.3		
10									
11	6	SS	17 17 20 22	37	1.4		3.5		
12									
13	7	SS	42 44 43 40	87	1.2	Brown coarse-fine GRAVEL and SAND, Some Silt, cobbles, dry	4.2		
14									
15	8	SS	18 55 65 61	120	1.7		2.8		
16									
17	9	SS	70 61 65 60	126	1.5		2.2		
18									
19	10	SS	60 65 50-.2		1.2		2.7		
20									

Sampling Method: ASTM D-1586

Visually Classified by: S. Cummins

Notes: 4 1/4" I.D. Hollow Stem Augers

File: 99011/tech/mw4

GeoLogic NY, Inc.

P.O. Box 5080
Cortland, NY 13045
607-836-4400
607-836-4403 (fax)

SUBSURFACE LOG

Project: Triple Cities Metal Finishing Corp.
Location: Nowlan Road, Binghamton, New York

Boring No.: B-10 (MW-4)

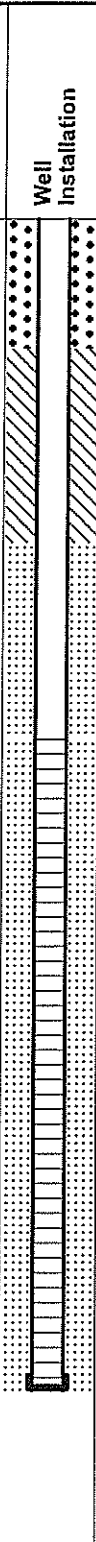
Project No.: 99011

Date Started: 12-7-00

Date Completed: 12-8-00

Page: 2 of 2

Reference Elevation: 899.70

Depth (ft)	Number	Type	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
21	11	SS	75 100-.3'		0.8	Brown coarse-fine GRAVEL and SAND, Some Silt, cobbles, dry	3.7		
22	12	SS	65 50-.1		0.3		3.7		
23									
24	13	SS	75 50-.3		0.6		4.4		Bentonite Seal, 22'-25'
25									
26	14	SS	50-.1		0				
27									
28									
29	15	SS	25 50 60 60	110	1.6		3.1		Sandpack, 25-38'
30									
31	16	SS	31 31 33 23	64	1.1	becomes wet	4.5		
32									
33	17	SS	11 7 8 8	15	0.6	Brown SILT, Some fine Sand, saturated	5.1		2" dia. PVC Well Screen 0.020" slots, 28'-38'
34									
35	18	SS	2 3 3 3	6	2.0		4.7		
36									
37	19	SS	5 9 9 9	18	2.0	Brown varved SILT and CLAY, saturated	4.3		
38						Boring Terminated			At completion, augers at 38', water at 35'
39									
40									

Sampling Method: ASTM D-1586

Visually Classified by: S. Cummins

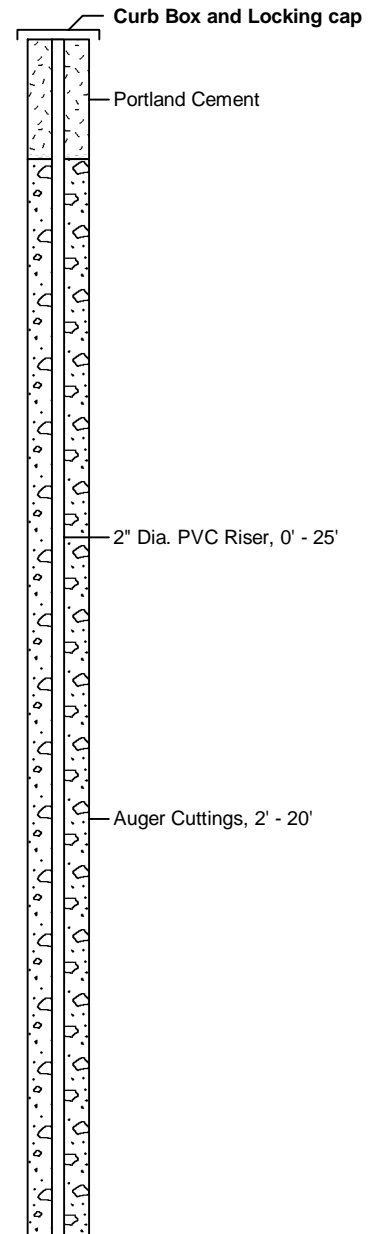
Notes: 4 1/4" I.D. Hollow Stem Augers

File: 99011/tech/mw4

Triple Cities Metal Finishing Corporation
Nowlan Road
Binghamton, New York

Boring No.: : MW-5R
Project No.: : 99011A
Date Started: : 03/28/16
Date Completed: : 03/29/16
Reference Elevation: :

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	PID Reading (ppm)	DESCRIPTION
0						FILL: Brown SILT, SAND and GRAVEL, moist
1	3	5	7	-	0	Brown SILT, Some fine Sand, trace gravel, moist
2	2	2				
2	3	3	6	-	0.9	
4	2	2				Brown coarse-fine SAND and GRAVEL, Some Silt, cobbles, moist
3	1	2	3	-	4.7	
6	1	3				
8	3	3	8	-	6.1	similar, little silt, damp
5	6	11	20	-	0	
10	4	12				
12	6	16	37	-	0.8	Auger Cuttings, 2' - 20'
7	17	20	40	-	1.7	
14	20	26				
16	8	30	65	-	2.1	Auger Cuttings, 2' - 20'
18	38	48	88	-	0	
20	34	60				
20	10	15	84	-	0.3	
20	50/4	36				



Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

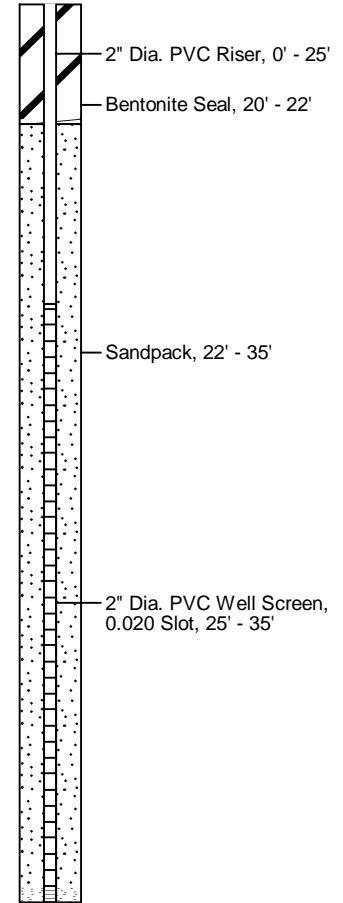
Visually Classified by: S. Cummins

File: 99011A/tech/MW-5R

Triple Cities Metal Finishing Corporation
Nowlan Road
Binghamton, New York

Boring No.: MW-5R
Project No.: 99011A
Date Started: 03/28/16
Date Completed: 03/29/16
Reference Elevation: :

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	PID Reading (ppm)	DESCRIPTION
20						
22						
24						
26	11	50/4	-	-	0.1	
28						
30	12	9 10 16 11	26	-	-	
32						
34						
36	13	8 6 5 5	11	-	0	
BORING TERMINATED AT 37.0'						
38						
40						



Brown SILT, saturated

BORING TERMINATED AT 37.0'

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Cummins

File: 99011A/tech/MW-5R


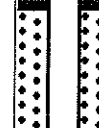


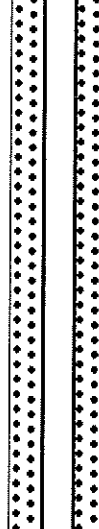



GeoLogic NY, Inc.

P.O. Box 5080
Cortland, NY 13045
607-836-4400
607-836-4403 (fax)

SUBSURFACE LOG

Project: Triple Cities Metal Finishing Corp.
Location: Nowlan Road, Binghamton, New York

Boring No.: B-12 (MW-6)
Project No.: 99011
Date Started: 9-05-01
Date Completed: 9-05-01
Page: 1 of 2
Reference Elevation: 887.71

Depth (ft)	Number	Type	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0						Ground Surface			
1	1	SS	11 9 8 7	17	1.5	Asphalt at surface FILL: Brown coarse-fine GRAVEL, SAND and SILT, cobbles, concrete, damp	1.7		Curbbox and Locking Cap
2									
3	2	SS	9 4 3 3	7	0.1		2.2		
4									
5	3	SS	4 6 7 6	13	0.6		1.9		Grout, 2'-19'
6									
7	4	SS	2 1 1 1	2	0.1		4.8		2" dia. PVC Riser Pipe
8									Sample 8'-12' analyzed
9	5	SS	3 3 6 7	9	0.7	Brown coarse-fine SAND and GRAVEL, Some Silt, moist	5.1		
10									
11	6	SS	10 11 11 12	22	1.7		3.6		
12									
13									
14									
15									
16	7	SS	15 25 21 19	46	1.4		1.9		
17									
18									
19									
20							2.1		

Sampling Method: ASTM D-1586

Visually Classified by: S. Cummins

Notes: 4 1/4" I.D. Hollow Stem Augers

File: 99011/tech/mw6

GeoLogic NY, Inc.

P.O. Box 5080
Cortland, NY 13045
607-836-4400
607-836-4403 (fax)

SUBSURFACE LOG

Project: Triple Cities Metal Finishing Corp.
Location: Nowlan Road, Binghamton, New York

Boring No.: B-12 (MW-6)

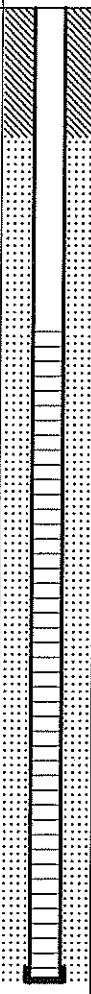
Project No.: 99011

Date Started: 9-05-01

Date Completed: 9-05-01

Page: 2 of 2

Reference Elevation: 887.71

Depth (ft)	Number	Type	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
21	8	SS	100/4		0.4	Brown coarse-fine SAND and GRAVEL, Some Silt, cobbles, damp	1.1		Bentonite Seal, 19'-22'
22									
23									
24	9	SS	100/4		0.4				Sandpack, 22'-35'
25									
26									
27									
28									
29									2" dia. PVC Well Screen 0.020" slots, 25'-35'
30						similar with little silt, saturated			
31	10	SS	14 15 22 20	37	0.8		5.1		
32									
33	11	SS	7 4 6 5	10	1.1		3.8		
34									Sample 34'-38' analyzed
35	12	SS	10 10 8 6	18	1.4		3.1		
36									
37	13	SS	14 13 10 12	23	1.7		4.8		At completion, augers at 34, water at 30'
38									
39						Boring Terminated			
40									

Sampling Method: ASTM D-1586

Visually Classified by: S. Cummins

Notes: 4 1/4" I.D. Hollow Stem Augers

File:

URS Corporation

TEST BORING LOG

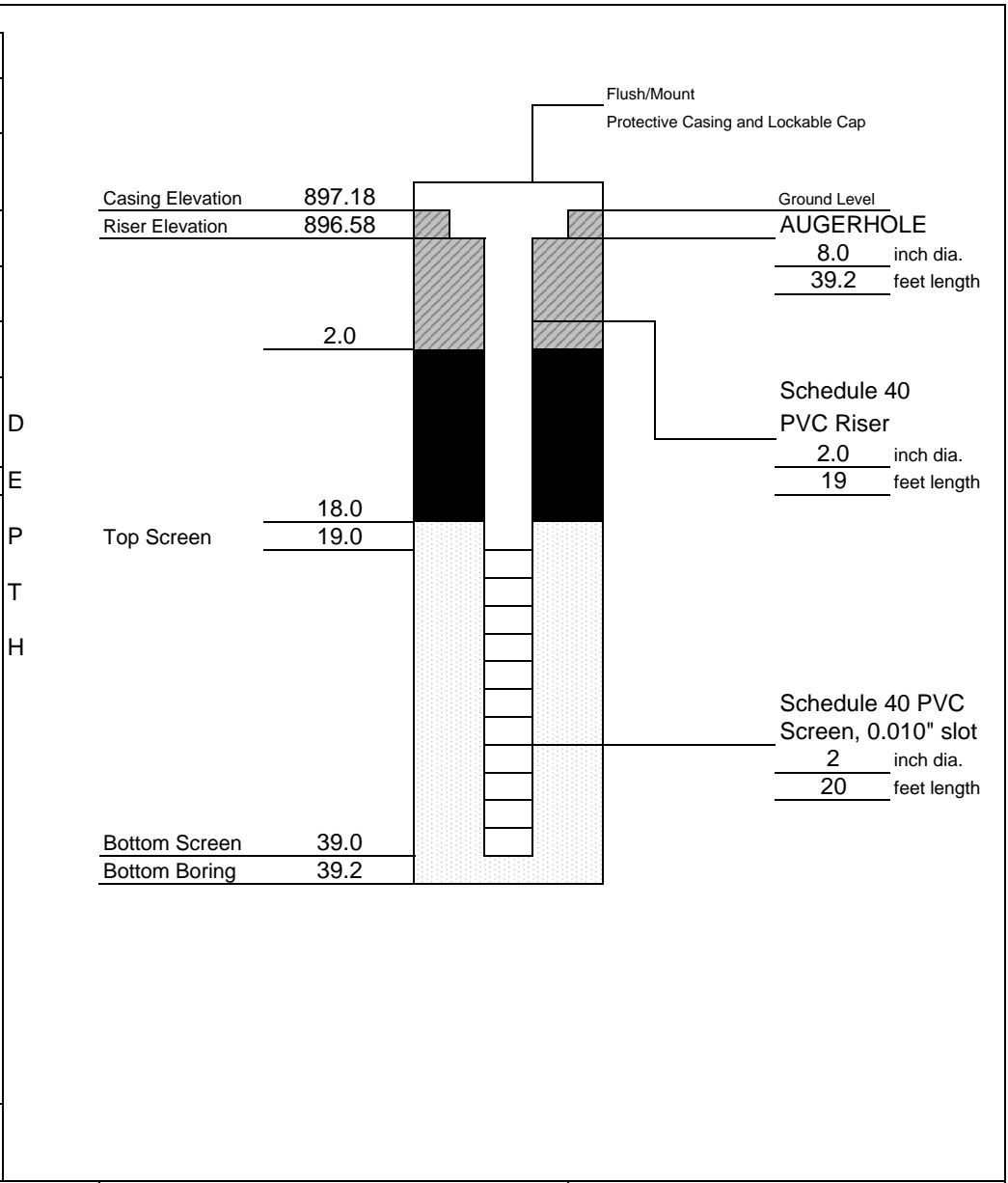
PROJECT: C.A.E. Hillcrest						BORING NO.: MW-7R	
CLIENT: New York State Department of Environmental Conservation						SHEET: 1 of 1	
BORING CONTRACTOR: Geologic, Inc.						JOB NO.: 11176919	
GROUNDWATER:						BORING LOCATION: N=783368.052, E=1009239.301	
DATE						GROUND ELEVATION: 897.177	
TIME						DATE STARTED: 6/24/2014	
LEVEL						DATE FINISHED: 6/24/2014	
TYPE						DRILLER: Steve Laramee	
TYPE						GEOLOGIST: John Hilton	
DIA.						REVIEWED BY: Kevin Connare	
WT.							
FALL							
RIG: Trailer mounted CME-55							

DEPTH FEET	STRATA SYMBOL	SAMPLE				DESCRIPTION			USCS	REMARKS			
		"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION					
		1	55	40 5	50 3	40%	Black-Gray		0.0 - 2.3' Fill: Asphalt and sand, little fine gravel	Fill	Dry		
		2	7	4 4	3 5	80%	Brown	Loose	2.3 - 4.0 SAND fine, trace fine gravel and silt	SP	Moist		
5		3	7	4 4	3 6	30%			Medium	4.0 - 14.0' Sand and Gravel, fine grain, fine - coarse sub-rounded gravel to > 2" dia.		GW	
		4	25	9 16	9 20	35%							
		5	32	16 18	14 20	75%	Gray-Brown	Dense	f-med sand, trace silt		Dry		
10		6	32	14 16	16 17	45%			f-crs gravel to 1" dia., trace silt				
		7	34	22 14	20 16	60%	Dark Brown	Medium	14.0 - 16.0' Sand, fine, little f-crs gravel, tr. silt	SP	Moist		
15		8	17	15 8	9 6	40%			Loose	16.0 - 22.0 Gravel, f - crs. little fine sand		GP	
		9	8	6 4	4 5	0%							
		10	14	12 7	7 9	10%	Dark Gray	Medium	22.0 - 24.0 Sand and Gravel, medium -crs., fine gravel to 1/2" dia.	SW	Saturated		
20		11	17	12 8	9 8	5%			Loose			24.0 - 34.0 Gravel, fine -coarse, trace fine sand	GP
		12	11	5 5	6 6	5%							
		13	12	5 6	6 8	50%	Olive-Gray	Medium	w/ fine - medium sand				
		14	7	9 4	3 6	50%			Loose				
		15	28	11 16	12 18	20%							
		16	18	12 8	10 6	30%	Gray	Dense	34.0 - 36.0 Sand and Gravel, med-crs., fine gravel to 1/2" dia.	SW			
25		17	9	6 4	5 5	25%			Loose	36.0 - 38.2 Gravel, crs. w/ fine sand 38.0 - 38.2'	GP		
		18	30	30 7	23 7	20%							
		19	30	16 15	15 14	5%	light Gray-Brown	Medium	38.2 - 40.0 Silt, trace clay	ML			
30		20	18	6 12	6 14	55%			End of boring at 39'				

COMMENTS: Advanced boring with truck mounted CME-55 rig equipped with 4 1/4" HSA Set 2" PVC well screen from 19 -39 feet bgs	BORING NO. MW-7R
	PROJECT NO. 11176919

DRILLING SUMMARY	
Geologist:	John Hilton
Drilling Company:	Geologic, Inc.
Driller:	Steve Laramie
Rig Make/Model:	Trailer mounted CME-55
Date:	6/24/2014

GEOLOGIC LOG	
Depth(ft.)	Description
0.0 - 2.3	Fill: asphalt w/ fine black-gray sand, fine gravel
2.3 - 4.0	Sand, brown, fine, trace fine gravel and silt
4.0 - 14.0	Sand and Gravel, gray-brown, f-med., w/ f-crs. gravel
14.0 - 16.0	Sand, dark brown, fine, little f-crs. gravel
16.0 - 22.0	Gravel, f-crs., little dark gray sand
22.0 - 24.0	Sand and Gravel, dark gray, fine, w/ f-crs. gravel
24.0 - 34.0	Gravel, f-crs., w/ f-med. Olive-gray sand
34.0 - 38.0	Sand and Gravel, gray, med. Crs grain, f-crs. Gravel
38.0 - 38.2	Sand, dark gray, f-med.
38.2 - 40.0	Silt, light gray-brown, trace clay



WELL DESIGN

CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface:	8"-Flush Mount Roadbox	Type:	2"-Schedule 40 PVC	Type:	Setting: 18.0'- 39.2'
Monitor:	2"-Schedule 40 PVC	Slot Size:	0.010"	Fill Pro #1 sand	
				SEAL MATERIAL	
				Type: Bentonite Chips	Setting: 2.0'-18.0'
				Type: Concrete/Bentonite Grout	Setting: 0.0-2.0'

COMMENTS:
 MW-7R well screen was positioned across the top of the silt unit and its length extended from 15' to 20' to straddle the water table.

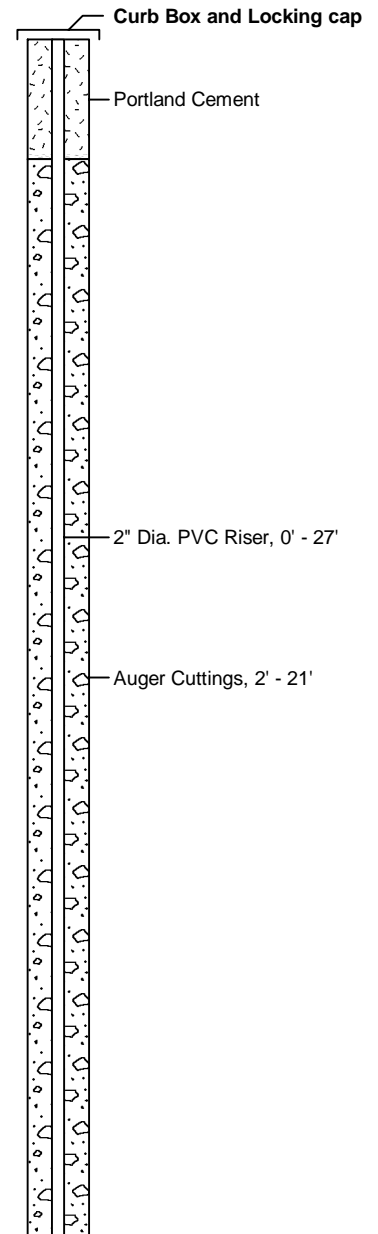
LEGEND	
	Cement/Bentonite Grout
	Bentonite Seal
	Silica Sandpack

Client: NYSDEC	Location: C.A.E. Hillcrest Site Binghamton, NY	Project No.: 11176919
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: MW-7R

Triple Cities Metal Finishing Corporation
Nowlan Road
Binghamton, New York

Boring No.: : MW-8
Project No.: : 99011A
Date Started: : 03/29/16
Date Completed: : 03/30/16
Reference Elevation: :

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	PID Reading (ppm)	DESCRIPTION
0		3				FILL: Brown SAND, GRAVEL and SILT, moist
1	6	6	12	-	0	
2	7	4				Possible FILL: Brown SILT, SAND and GRAVEL, moist
2	2	2	4	-	0.3	
4	2	3				Brown coarse-fine GRAVEL and SAND, Some Silt, cobbles, damp
3	3	3	6	-	5.1	
6	3	6				layer of fine SAND, trace silt grading with Some fine Gravel, damp
4	4	4	9	-	4.3	
8	5	4				Brown coarse-fine GRAVEL and SAND, little silt, cobbles, damp
5	2	2	6	-	6.9	
10	4	2				Auger Cuttings, 2' - 21'
6	2	4	6	-	0.3	
12	5	5				Auger Cuttings, 2' - 21'
7	5	6	11	-	2.5	
14	8	6				Auger Cuttings, 2' - 21'
8	10	8	18	-	1.8	
16	6	9				Auger Cuttings, 2' - 21'
9	18	23	41	-	2.4	
18	25	3				Auger Cuttings, 2' - 21'
10	23	-	-	-	2.1	
20	50/4					Auger Cuttings, 2' - 21'



Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

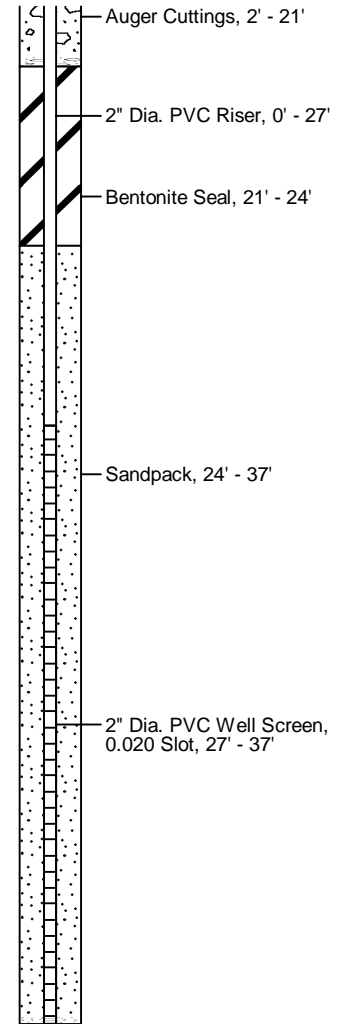
Visually Classified by: S. Cummins

File: 99011A/tech/MW-8

Triple Cities Metal Finishing Corporation
Nowlan Road
Binghamton, New York

Boring No.: : MW-8
Project No.: : 99011A
Date Started: : 03/29/16
Date Completed: : 03/30/16
Reference Elevation: :

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	PID Reading (ppm)	DESCRIPTION
20						
22						
24						
26	11	50/3	-	-	0.8	similar, damp
28						
30	12	50 30 20 10	50	-	1.9	similar, saturated
32						
34						
36	13	35 18 12 14	30	-	2.6	similar, saturated
BORING TERMINATED AT 37.0'						
38						
40						



Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

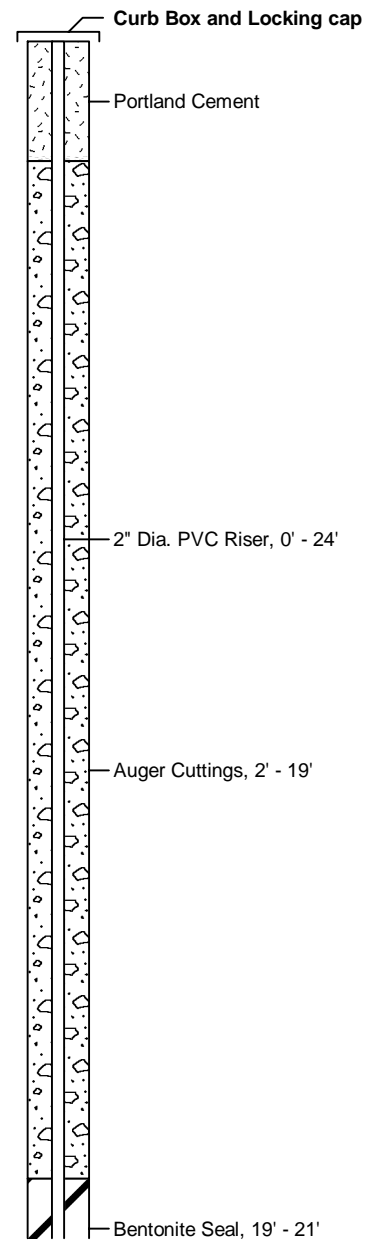
Visually Classified by: S. Cummins

File: 99011A/tech/MW-8

Triple Cities Metal Finishing Corporation
Nowlan Road
Binghamton, New York

Boring No.: : MW-9
Project No.: : 99011A
Date Started: : 03/30/16
Date Completed: : 03/31/16
Reference Elevation: :

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	PID Reading (ppm)	DESCRIPTION
0						No sampling except for auger cuttings. FILL: Brown Clayey SILT, SAND and GRAVEL, moist
1	1	-	-	-	6.9	
5						Brown coarse-fine GRAVEL and SAND, Some Clayey Silt, moist
2	2	-	-	-	2.5	
10						
3	3	-	-	-	1.9	
15						Brown coarse-fine GRAVEL and SAND, little silt, cobbles, damp
4	4	-	-	-	2.8	
20						



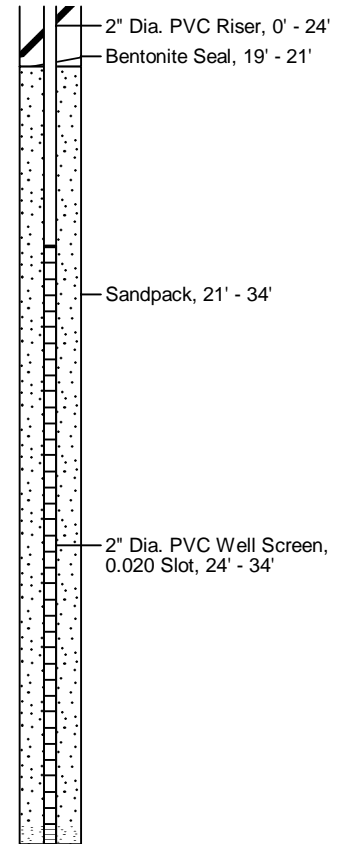
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Sampling Method: ASTM D-1586, unless otherwise noted.
Notes: 4 1/4" ID Hollow Stem Augers
Visually Classified by: S. Cummins
File: 99011A/tech/MW-9

Triple Cities Metal Finishing Corporation
Nowlan Road
Binghamton, New York

Boring No.: : MW-9
Project No.: : 99011A
Date Started: : 03/30/16
Date Completed: : 03/31/16
Reference Elevation: :

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	PID Reading (ppm)	DESCRIPTION
20						similar, damp
	5	-	-	-	1.8	
25						similar, damp
30						Brown coarse-fine GRAVEL and SAND, little silt, cobbles, saturated
	6	-	-	-	2.7	
35	BORING TERMINATED AT 35.0'					
40						



Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Cummins

File: 99011A/tech/MW-9

APPENDIX F

REPORTS FOR LABORATORY ANALYSIS AND DUSRS

TRIPLE CITIES METALS FINISHING CORP.

TABLE 1

GROUNDWATER DATA SUMMARY
OCTOBER 2007-2016

Sample Location	NYS Standard Water	MW-1 10/2/2007 Water	MW-1 10/8/2008 Water	MW-2 10/2/2007 Water	MW-2 10/8/2008 Water	MW-2 10/29/2015 Water	MW-3 10/2/2007 Water	MW-3 10/8/2008 Water	MW-3 10/29/2015 Water	MW-3 4/11/2016 Water	MW-3 10/25/2016 Water	MW-3HA 4/11/2016 Water	MW-3HA 10/25/2016 Water
Parameter	Unit	ug/L	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatile Target Analyte List (TAL)													
Dichlorodifluoromethane	---	U	NS	U	U	U	U	U	U	UJ	U	UJ	U
Chloromethane	5	U	NS	U	U	U	U	U	U	U	U	U	U
Vinyl chloride	2	U	NS	U	U	U	U	U	U	U	U	U	U
Bromomethane	5	U	NS	U	U	U	U	U	U	UJ	U	UJ	U
Chloroethane	5	U	NS	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	---	U	NS	U	U	U	U	U	U	UJ	U	UJ	U
1,1-Dichloroethene	5	U	NS	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.61	NS	U	U	U	0.16J	0.30J	U	U	U	U	U
Acetone	50	U	NS	U	U	U	U	U	U	UJ	U	UJ	U
Carbon disulfide	60	U	NS	U	U	U	U	U	U	U	U	U	U
Methyl acetate	---	U	NS	U	U	U	U	U	U	U	U	U	U
Methylene chloride	5	U	NS	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	U	NS	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	U	NS	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	5	U	NS	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	5	U	NS	U	U	U	U	0.16J	U	U	U	U	U
2-Butanone (MEK)	50	U	NS	U	U	U	U	U	U	U	U	U	U
Chloroform	7	U	NS	U	0.16J	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	5	1.79	NS	0.96	1.25	ND	1.55	1.34	U	U	U	U	U
Cyclohexane	---	U	NS	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	5	U	NS	U	U	U	U	U	U	U	U	U	U
Benzene	1	U	NS	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	5	U	NS	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	9.49	NS	9.09	11.0	1.1	11.6	10.4	1.1	1.0	1.2	U	U
Methylcyclohexane	---	U	NS	U	U	U	U	0.41J	U	U	U	U	U
1,2-Dichloropropane	1	U	NS	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	50	U	NS	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	U	NS	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	---	U	NS	U	U	U	U	U	U	U	U	U	U
Toluene	5	U	NS	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	U	NS	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1	0.16J	NS	0.18J	0.25J	ND	0.21J	0.39J	U	U	U	U	U
Tetrachloroethene	5	0.25J	NS	U	0.13J	ND	0.13J	0.15J	U	U	U	U	U
2-Hexanone	---	U	NS	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	50	U	NS	U	U	U	U	U	U	U	U	U	U
1,2-Dibromoethane	5	U	NS	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	5	U	NS	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	NS	U	U	U	U	U	U	U	U	U	U
Xylenes (total)	5	U	NS	U	U	U	U	U	U	U	U	U	U
Styrene	5	U	NS	U	U	U	U	U	U	U	U	U	U
Bromoform	50	U	NS	U	U	U	U	U	U	UJ	U	UJ	U
Isopropylbenzene	5	U	NS	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	NS	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5	U	NS	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5	U	NS	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	4.7	U	NS	U	U	U	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropane	---	U	NS	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5	U	NS	U	U	U	U	U	U	UJ	U	UJ	U
RCRA Metals													
Arsenic	25		NS		10	U		18	9.6	U	U	U	7.2
Barium	1,000		NS		120	63.7J		190	113J	60.8	97.5	45.1	73J
Cadmium	5		NS		120	35.6		56	27.5	10.5	18.9	7.1	18.8
Chromium	50		NS		1700	363		1200	253	161	279	19.6	57.8
Lead	25		NS		45	6.5		38	26.9	U	U	U	5.2
Selenium	10		NS		U	U		U	U	U	U	U	U
Silver	50		NS		8.6J	U		6.7J	U	U	U	U	U
Mercury	0.7		NS		0.073J	U		0.40	U	U	U	U	U

Highlight value exceed TOG 1.1.1 Water Quality Standards and Guidances

TRIPLE CITIES METALS FINISHING CORP.

TABLE 1

GROUNDWATER DATA SUMMARY
OCTOBER 2007-2016

Sample Location	MW-4 10/2/2007	MW-4 10/8/2008	MW-4 10/29/2015	MW-4 4/11/2016	MW-4 10/25/2016	MW-5 10/2/2007	MW-5 10/8/2008	MW-5R 4/11/2016	MW-5R 10/25/2016	MW-6 10/8/2008	MW-6 10/29/2015	MW-6 4/11/2016	MW-6 10/25/2016
Unit	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l
Parameter													
Volatile Target Analyte List (TAL)													
Dichlorodifluoromethane	U	U	U	UJ	U	U	U	UJ	U	U	U	UJ	U
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl chloride	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	U	U	U	UJ	U	U	U	UJ	U	U	U	UJ	U
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	U	U	U	UJ	U	U	U	UJ	U	U	U	UJ	U
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.92	5.04	U	U	U	0.56	3.05	U	U	5.23	U	U	U
Acetone	2.40J	U	U	UJ	U	1.49J	U	1.5J	U	U	U	UJ	U
Carbon disulfide	U	U	U	U	U	U	U	U	U	U	U	U	U
Methyl acetate	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylene chloride	U	U	U	U	U	0.24J	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	U	U	U	U	U	U	0.13J	U	U	0.11J	U	U	U
1,1,1-Trichloroethane	0.88	1.34	U	U	U	1.06	1.15	U	U	1.01	U	U	U
Cyclohexane	U	U	U	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	U	U	U	U	U	U	U	U	U	U	U	U	U
Benzene	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	4.28	9.71	U	U	U	8.34	9.1	2.0	U	10.7	U	U	U
Methylcyclohexane	U	U	U	U	U	ND	U	U	U	U	U	U	U
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	U	0.12J	U	U	U	0.27J	0.24J	U	U	0.10J	U	U	U
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	U	U
Xylenes (total)	U	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	U	U	U	UJ	U	U	U	UJ	U	U	U	UJ	U
Isopropylbenzene	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	U	U	U	U	U	0.11J	U	U	U	U	U	U	U
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	U	U	U	UJ	U	U	U	UJ	U	U	U	UJ	U
RCRA Metals													
Arsenic		59	U	U	6.1		72	U	U	19	11.6	U	U
Barium		450	63.5	58.8	64.6J		490	35.8	64.5J	200	171J	39	56.6
Cadmium		1.5J	U	U	U		480	U	U	120	80	U	3.2
Chromium		120	13.6	17.0	12.9		850	U	5.2	100	65.2	6.3	24.2
Lead		94	U	U	U		130	U	U	39	29.2	U	U
Selenium		3.9J	9.1	U	U		3.6J	U	U	3.6J	9.6	U	U
Silver		U	U	U	U		9.2J	U	U	6.7J	U	U	U
Mercury		0.11J	U	U	U		0.16J	U	U	0.20	U	U	U

Highlight value exceed TOG 1.1.1 \

TRIPLE CITIES METALS FINISHING CORP.

TABLE 1

GROUNDWATER DATA SUMMARY
OCTOBER 2007-2016

Sample Location	MW-7R 10/29/2015	MW-7R 4/11/2016	MW-7R 10/25/2016	MW-8 4/11/2016	MW-8 10/25/2016	MW-9 4/11/2016	MW-9 10/25/2016
Unit	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l	Water ug/l
Parameter							
Volatile Target Analyte List (TAL)							
Dichlorodifluoromethane	U	UJ	U	UJ	U	UJ	U
Chloromethane	U	U	U	U	U	U	U
Vinyl chloride	U	U	U	U	U	U	U
Bromomethane	U	UJ	U	UJ	U	UJ	U
Chloroethane	U	U	U	U	U	U	U
Trichlorofluoromethane	U	UJ	U	UJ	U	UJ	U
1,1-Dichloroethene	U	U	U	U	U	U	U
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U
Acetone	U	UJ	U	5.2J	U	UJ	U
Carbon disulfide	U	U	U	U	U	U	U
Methyl acetate	U	U	U	U	U	U	U
Methylene chloride	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	U	U	U	U	U	U	U
methyl tert-butyl ether	U	U	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	U	U	U	U	U	U	U
2-Butanone (MEK)	U	U	U	U	U	U	U
Chloroform	U	U	U	U	U	U	U
1,1,1-Trichloroethane	U	U	U	U	U	U	U
Cyclohexane	U	U	U	U	U	U	U
Carbon tetrachloride	U	U	U	U	U	U	U
Benzene	U	U	U	U	U	U	U
1,2-Dichloroethane	U	U	U	U	U	U	U
Trichloroethene	U	U	U	U	1.1	U	1.0
Methylcyclohexane	U	U	U	U	U	U	U
1,2-Dichloropropane	U	U	U	U	U	U	U
Bromodichloromethane	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	U	U	U	U	U	U	U
4-Methyl-2-pentanone	U	U	U	U	U	U	U
Toluene	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U	U	U	U
Tetrachloroethene	U	U	U	U	U	U	U
2-Hexanone	U	U	U	U	U	U	U
Dibromochloromethane	U	U	U	U	U	U	U
1,2-Dibromoethane	U	U	U	U	U	U	U
Chlorobenzene	U	U	U	U	U	U	U
Ethylbenzene	U	U	U	U	U	U	U
Xylenes (total)	U	U	U	U	U	U	U
Styrene	U	U	U	U	U	U	U
Bromoform	U	UJ	U	UJ	U	UJ	1.5
Isopropylbenzene	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U
1,3-Dichlorobenzene	U	U	U	U	U	U	U
1,4-Dichlorobenzene	U	U	U	U	U	U	U
1,2-Dichlorobenzene	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	U	UJ	U	UJ	U	UJ	U
RCRA Metals							
Arsenic	U	13	U	U	U	U	U
Barium	50.3J	214	103	60.0	82.6	48.6	60.0
Cadmium	U	U	U	U	7.9	4.8	7.5
Chromium	45.2	82.5	54.4	54.8	254	74.6	24.4
Lead	U	36.3	7.7	U	U	U	U
Selenium	U	U	U	U	8.6	U	U
Silver	U	U	U	U	U	U	U
Mercury	U	U	U	U	U	U	U

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TRIPLE CITIES METALS FINISHING CORP.
TABLE 2
SOIL DATA SUMMARY
2016 MONITORING WELL BORINGS

Sample Location	SCO Protection of Groundwater mg/kg	MW-5R	MW-5R	MW-5R	MW-5R	MW-5R	MW-8	MW-8
		3/28/2016 2'-6' mg/kg	3/28/2016 6'-10' mg/kg	3/28/2016 10'-14' mg/kg	3/28/2016 14'-18' mg/kg	3/28/2016 20'-27' mg/kg	3/28/2016 10'-14' mg/kg	3/28/2016 14'-18' mg/kg
Parameter	Unit							
Cadmium	7.5	2.6	0.29	U	0.28	0.22	6.3	8.3
Chromium	19	99.2J	10.5J	7.9J	9.8J	9.5J	83.1J	18.8J

Notes: U - Analyte not detected above the Method Detection Limit (MDL); J - Concentration is estimated

October 28, 2015

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

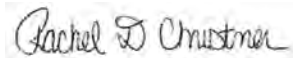
RE: Project: TCMF-Hillcrest
Pace Project No.: 30162926

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2015. 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TCMF-Hillcrest
Pace Project No.: 30162926

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30162926001	TCMF Backfill Source	EPA 8260C	JEW	71	PASI-PA
		Dry Weight	SRA	1	PASI-PA
30162926002	TCMF Backfill Source	EPA 8260C	JEW	71	PASI-PA
		Dry Weight	SRA	1	PASI-PA
30162926003	TCMF Backfill Source	EPA 8081B	CWB	23	PASI-PA
		EPA 8082A	SJG	10	PASI-PA
		EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	KAS	1	PASI-PA
		EPA 8270D	DJL	70	PASI-PA
		Dry Weight	SRA	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest
Pace Project No.: 30162926

Method: EPA 8081B
Description: 8081B GCS Pesticides
Client: GeoLogic NY, Inc.
Date: October 28, 2015

General Information:

1 sample was analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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.

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, where applicable, 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:

Batch Comments:

Retention times shifted during the analytical sequence such that the retention times for several analytes fell outside of their respective retention time windows in the closing CCV associated with this analysis. QC samples and standards were used to aid in analyte identification.

- QC Batch: GCSV / 8771

Analyte Comments:

QC Batch: OEXT/25807

1c: Retention times shifted during the analytical sequence such that the retention times for several analytes fell outside of their respective retention time windows in the closing CCV associated with this analysis. QC samples and standards were used to aid in analyte identification.

- BLANK (Lab ID: 972461)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Method: EPA 8081B

Description: 8081B GCS Pesticides

Client: GeoLogic NY, Inc.

Date: October 28, 2015

Analyte Comments:

QC Batch: OEXT/25807

1c: Retention times shifted during the analytical sequence such that the retention times for several analytes fell outside of their respective retention time windows in the closing CCV associated with this analysis. QC samples and standards were used to aid in analyte identification.

- BLANK (Lab ID: 972461)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
 - Aldrin
 - alpha-BHC
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
 - Toxaphene
- LCS (Lab ID: 972462)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
 - Aldrin
 - alpha-BHC
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Method: EPA 8081B

Description: 8081B GCS Pesticides

Client: GeoLogic NY, Inc.

Date: October 28, 2015

Analyte Comments:

QC Batch: OEXT/25807

1c: Retention times shifted during the analytical sequence such that the retention times for several analytes fell outside of their respective retention time windows in the closing CCV associated with this analysis. QC samples and standards were used to aid in analyte identification.

- LCS (Lab ID: 972462)
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
- MS (Lab ID: 972463)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
 - Aldrin
 - alpha-BHC
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
- MSD (Lab ID: 972464)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
 - Aldrin
 - alpha-BHC
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Method: EPA 8081B

Description: 8081B GCS Pesticides

Client: GeoLogic NY, Inc.

Date: October 28, 2015

Analyte Comments:

QC Batch: OEXT/25807

1c: Retention times shifted during the analytical sequence such that the retention times for several analytes fell outside of their respective retention time windows in the closing CCV associated with this analysis. QC samples and standards were used to aid in analyte identification.

- MSD (Lab ID: 972464)
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
- TCMF Backfill Source (Lab ID: 30162926003)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
 - Aldrin
 - alpha-BHC
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
 - Toxaphene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Method: EPA 8082A

Description: 8082A GCS PCB

Client: GeoLogic NY, Inc.

Date: October 28, 2015

General Information:

1 sample was analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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.

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, where applicable, 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Method: EPA 6010C

Description: 6010C MET ICP

Client: GeoLogic NY, Inc.

Date: October 28, 2015

General Information:

1 sample was analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 3050B 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Method: EPA 7471B

Description: 7471B Mercury

Client: GeoLogic NY, Inc.

Date: October 28, 2015

General Information:

1 sample was analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 7471B 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest
Pace Project No.: 30162926

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: GeoLogic NY, Inc.
Date: October 28, 2015

General Information:

1 sample was analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/25810

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 972474)
 - 1,4-Dichlorobenzene
 - 2,4,6-Trichlorophenol
 - 2,4-Dinitrotoluene
 - 2-Chlorophenol
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Benzo(a)anthracene
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene
 - Benzo(k)fluoranthene
 - Chrysene
 - Fluoranthene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest
Pace Project No.: 30162926

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: GeoLogic NY, Inc.
Date: October 28, 2015

QC Batch: OEXT/25810

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- Fluorene
- Hexachlorocyclopentadiene
- Pentachlorophenol
- Phenanthrene
- Phenol
- Pyrene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/25810

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30162843002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 972475)
 - 2,4-Dinitrotoluene
 - 3,3'-Dichlorobenzidine
 - Anthracene
 - Benzo(a)anthracene
 - Benzo(a)pyrene
 - Chrysene
 - Fluoranthene
 - Fluorene
 - Hexachlorocyclopentadiene
 - Phenol
- MSD (Lab ID: 972476)
 - 2,4-Dinitrotoluene
 - 3,3'-Dichlorobenzidine
 - Anthracene
 - Benzo(a)pyrene
 - Chrysene
 - Fluoranthene
 - Hexachlorocyclopentadiene

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 972475)
 - 4,6-Dinitro-2-methylphenol
 - Di-n-butylphthalate
- MSD (Lab ID: 972476)
 - 4,6-Dinitro-2-methylphenol
 - Di-n-butylphthalate

R1: RPD value was outside control limits.

- MSD (Lab ID: 972476)
 - 4-Chloroaniline

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Method: EPA 8270D

Description: 8270D MSSV Microwave

Client: GeoLogic NY, Inc.

Date: October 28, 2015

Additional Comments:

Analyte Comments:

QC Batch: OEXT/25810

2c: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Results unaffected by high bias.

- BLANK (Lab ID: 972473)
 - 2,4,6-Tribromophenol (S)
- LCS (Lab ID: 972474)
 - 2,4,6-Tribromophenol (S)
 - 2,4-Dinitrophenol
 - 4,6-Dinitro-2-methylphenol
- MS (Lab ID: 972475)
 - 2,4,6-Tribromophenol (S)
 - 2,4-Dinitrophenol
 - Pentachlorophenol
- MSD (Lab ID: 972476)
 - 2,4,6-Tribromophenol (S)
 - 2,4-Dinitrophenol
 - Pentachlorophenol
- TCMF Backfill Source (Lab ID: 30162926003)
 - 2,4,6-Tribromophenol (S)

3c: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Results unaffected by low bias.

- LCS (Lab ID: 972474)
 - 3-Nitroaniline
 - 4-Chloroaniline
- MS (Lab ID: 972475)
 - 3-Nitroaniline
 - 4-Chloroaniline
- MSD (Lab ID: 972476)
 - 3-Nitroaniline
 - 4-Chloroaniline

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 972475)
 - Phenol
- MSD (Lab ID: 972476)
 - Phenol

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PROJECT NARRATIVE

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Method: EPA 8260C

Description: 8260C MSV 5030 Low Level

Client: GeoLogic NY, Inc.

Date: October 28, 2015

General Information:

2 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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, where applicable, 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/25400

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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ANALYTICAL RESULTS

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Sample: TCMF Backfill Source **Lab ID: 30162926001** Collected: 10/22/15 08:35 Received: 10/23/15 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5030 Low Level		Analytical Method: EPA 8260C						
Acetone	ND	ug/kg	9.7	1		10/26/15 17:38	67-64-1	M5
Benzene	ND	ug/kg	4.8	1		10/26/15 17:38	71-43-2	M5
Bromobenzene	ND	ug/kg	4.8	1		10/26/15 17:38	108-86-1	M5
Bromochloromethane	ND	ug/kg	4.8	1		10/26/15 17:38	74-97-5	M5
Bromodichloromethane	ND	ug/kg	4.8	1		10/26/15 17:38	75-27-4	M5
Bromoform	ND	ug/kg	4.8	1		10/26/15 17:38	75-25-2	M5
Bromomethane	ND	ug/kg	4.8	1		10/26/15 17:38	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	9.7	1		10/26/15 17:38	78-93-3	M5
n-Butylbenzene	ND	ug/kg	4.8	1		10/26/15 17:38	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	4.8	1		10/26/15 17:38	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	4.8	1		10/26/15 17:38	98-06-6	M5
Carbon disulfide	ND	ug/kg	4.8	1		10/26/15 17:38	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	4.8	1		10/26/15 17:38	56-23-5	M5
Chlorobenzene	ND	ug/kg	4.8	1		10/26/15 17:38	108-90-7	M5
Chloroethane	ND	ug/kg	4.8	1		10/26/15 17:38	75-00-3	M5
2-Chloroethylvinyl ether	ND	ug/kg	9.7	1		10/26/15 17:38	110-75-8	M5
Chloroform	ND	ug/kg	4.8	1		10/26/15 17:38	67-66-3	M5
Chloromethane	ND	ug/kg	4.8	1		10/26/15 17:38	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	4.8	1		10/26/15 17:38	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	4.8	1		10/26/15 17:38	106-43-4	M5
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/26/15 17:38	96-12-8	M5
Dibromochloromethane	ND	ug/kg	4.8	1		10/26/15 17:38	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/26/15 17:38	106-93-4	M5
Dibromomethane	ND	ug/kg	4.8	1		10/26/15 17:38	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/26/15 17:38	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/26/15 17:38	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/26/15 17:38	106-46-7	M5
Dichlorodifluoromethane	ND	ug/kg	4.8	1		10/26/15 17:38	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/26/15 17:38	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/26/15 17:38	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/26/15 17:38	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/26/15 17:38	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/26/15 17:38	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/26/15 17:38	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/26/15 17:38	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/26/15 17:38	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/26/15 17:38	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/26/15 17:38	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/26/15 17:38	10061-02-6	M5
Ethylbenzene	ND	ug/kg	4.8	1		10/26/15 17:38	100-41-4	M5
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/26/15 17:38	87-68-3	M5
2-Hexanone	ND	ug/kg	9.7	1		10/26/15 17:38	591-78-6	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/26/15 17:38	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/26/15 17:38	99-87-6	M5
Methylene Chloride	7.1	ug/kg	4.8	1		10/26/15 17:38	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	1		10/26/15 17:38	108-10-1	M5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Sample: TCMF Backfill Source **Lab ID: 30162926001** Collected: 10/22/15 08:35 Received: 10/23/15 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5030 Low Level		Analytical Method: EPA 8260C						
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/26/15 17:38	1634-04-4	M5
Naphthalene	ND	ug/kg	4.8	1		10/26/15 17:38	91-20-3	M5
n-Propylbenzene	ND	ug/kg	4.8	1		10/26/15 17:38	103-65-1	M5
Styrene	ND	ug/kg	4.8	1		10/26/15 17:38	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/26/15 17:38	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/26/15 17:38	79-34-5	M5
Tetrachloroethene	ND	ug/kg	4.8	1		10/26/15 17:38	127-18-4	M5
Toluene	ND	ug/kg	4.8	1		10/26/15 17:38	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/26/15 17:38	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/26/15 17:38	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/26/15 17:38	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/26/15 17:38	79-00-5	M5
Trichloroethene	ND	ug/kg	4.8	1		10/26/15 17:38	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/26/15 17:38	75-69-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/26/15 17:38	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/26/15 17:38	108-67-8	M5
Vinyl acetate	ND	ug/kg	48.5	1		10/26/15 17:38	108-05-4	M5
Vinyl chloride	ND	ug/kg	4.8	1		10/26/15 17:38	75-01-4	M5
Xylene (Total)	ND	ug/kg	14.5	1		10/26/15 17:38	1330-20-7	M5
m&p-Xylene	ND	ug/kg	9.7	1		10/26/15 17:38	179601-23-1	M5
o-Xylene	ND	ug/kg	4.8	1		10/26/15 17:38	95-47-6	M5
Surrogates								
Toluene-d8 (S)	106	%	68-135	1		10/26/15 17:38	2037-26-5	M5
4-Bromofluorobenzene (S)	110	%	65-146	1		10/26/15 17:38	460-00-4	M5
1,2-Dichloroethane-d4 (S)	88	%	69-137	1		10/26/15 17:38	17060-07-0	M5
Dibromofluoromethane (S)	87	%	70-130	1		10/26/15 17:38	1868-53-7	M5
Percent Moisture		Analytical Method: Dry Weight						
Percent Moisture	3.3	%	0.10	1		10/27/15 15:53		

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ANALYTICAL RESULTS

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Sample: TCMF Backfill Source **Lab ID: 30162926002** Collected: 10/22/15 08:36 Received: 10/23/15 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5030 Low Level		Analytical Method: EPA 8260C						
Acetone	ND	ug/kg	9.7	1		10/26/15 18:00	67-64-1	M5
Benzene	ND	ug/kg	4.9	1		10/26/15 18:00	71-43-2	M5
Bromobenzene	ND	ug/kg	4.9	1		10/26/15 18:00	108-86-1	M5
Bromochloromethane	ND	ug/kg	4.9	1		10/26/15 18:00	74-97-5	M5
Bromodichloromethane	ND	ug/kg	4.9	1		10/26/15 18:00	75-27-4	M5
Bromoform	ND	ug/kg	4.9	1		10/26/15 18:00	75-25-2	M5
Bromomethane	ND	ug/kg	4.9	1		10/26/15 18:00	74-83-9	M5
2-Butanone (MEK)	ND	ug/kg	9.7	1		10/26/15 18:00	78-93-3	M5
n-Butylbenzene	ND	ug/kg	4.9	1		10/26/15 18:00	104-51-8	M5
sec-Butylbenzene	ND	ug/kg	4.9	1		10/26/15 18:00	135-98-8	M5
tert-Butylbenzene	ND	ug/kg	4.9	1		10/26/15 18:00	98-06-6	M5
Carbon disulfide	ND	ug/kg	4.9	1		10/26/15 18:00	75-15-0	M5
Carbon tetrachloride	ND	ug/kg	4.9	1		10/26/15 18:00	56-23-5	M5
Chlorobenzene	ND	ug/kg	4.9	1		10/26/15 18:00	108-90-7	M5
Chloroethane	ND	ug/kg	4.9	1		10/26/15 18:00	75-00-3	M5
2-Chloroethylvinyl ether	ND	ug/kg	9.7	1		10/26/15 18:00	110-75-8	M5
Chloroform	ND	ug/kg	4.9	1		10/26/15 18:00	67-66-3	M5
Chloromethane	ND	ug/kg	4.9	1		10/26/15 18:00	74-87-3	M5
2-Chlorotoluene	ND	ug/kg	4.9	1		10/26/15 18:00	95-49-8	M5
4-Chlorotoluene	ND	ug/kg	4.9	1		10/26/15 18:00	106-43-4	M5
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		10/26/15 18:00	96-12-8	M5
Dibromochloromethane	ND	ug/kg	4.9	1		10/26/15 18:00	124-48-1	M5
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		10/26/15 18:00	106-93-4	M5
Dibromomethane	ND	ug/kg	4.9	1		10/26/15 18:00	74-95-3	M5
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		10/26/15 18:00	95-50-1	M5
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		10/26/15 18:00	541-73-1	M5
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		10/26/15 18:00	106-46-7	M5
Dichlorodifluoromethane	ND	ug/kg	4.9	1		10/26/15 18:00	75-71-8	M5
1,1-Dichloroethane	ND	ug/kg	4.9	1		10/26/15 18:00	75-34-3	M5
1,2-Dichloroethane	ND	ug/kg	4.9	1		10/26/15 18:00	107-06-2	M5
1,1-Dichloroethene	ND	ug/kg	4.9	1		10/26/15 18:00	75-35-4	M5
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/26/15 18:00	156-59-2	M5
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/26/15 18:00	156-60-5	M5
1,2-Dichloropropane	ND	ug/kg	4.9	1		10/26/15 18:00	78-87-5	M5
1,3-Dichloropropane	ND	ug/kg	4.9	1		10/26/15 18:00	142-28-9	M5
2,2-Dichloropropane	ND	ug/kg	4.9	1		10/26/15 18:00	594-20-7	M5
1,1-Dichloropropene	ND	ug/kg	4.9	1		10/26/15 18:00	563-58-6	M5
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/26/15 18:00	10061-01-5	M5
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/26/15 18:00	10061-02-6	M5
Ethylbenzene	ND	ug/kg	4.9	1		10/26/15 18:00	100-41-4	M5
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		10/26/15 18:00	87-68-3	M5
2-Hexanone	ND	ug/kg	9.7	1		10/26/15 18:00	591-78-6	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		10/26/15 18:00	98-82-8	M5
p-Isopropyltoluene	ND	ug/kg	4.9	1		10/26/15 18:00	99-87-6	M5
Methylene Chloride	5.9	ug/kg	4.9	1		10/26/15 18:00	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	1		10/26/15 18:00	108-10-1	M5

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ANALYTICAL RESULTS

Project: TCMF-Hillcrest
Pace Project No.: 30162926

Sample: TCMF Backfill Source **Lab ID: 30162926002** Collected: 10/22/15 08:36 Received: 10/23/15 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5030 Low Level		Analytical Method: EPA 8260C						
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		10/26/15 18:00	1634-04-4	M5
Naphthalene	ND	ug/kg	4.9	1		10/26/15 18:00	91-20-3	M5
n-Propylbenzene	ND	ug/kg	4.9	1		10/26/15 18:00	103-65-1	M5
Styrene	ND	ug/kg	4.9	1		10/26/15 18:00	100-42-5	M5
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/26/15 18:00	630-20-6	M5
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/26/15 18:00	79-34-5	M5
Tetrachloroethene	ND	ug/kg	4.9	1		10/26/15 18:00	127-18-4	M5
Toluene	ND	ug/kg	4.9	1		10/26/15 18:00	108-88-3	M5
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		10/26/15 18:00	87-61-6	M5
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		10/26/15 18:00	120-82-1	M5
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		10/26/15 18:00	71-55-6	M5
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		10/26/15 18:00	79-00-5	M5
Trichloroethene	ND	ug/kg	4.9	1		10/26/15 18:00	79-01-6	M5
Trichlorofluoromethane	ND	ug/kg	4.9	1		10/26/15 18:00	75-69-4	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		10/26/15 18:00	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		10/26/15 18:00	108-67-8	M5
Vinyl acetate	ND	ug/kg	48.6	1		10/26/15 18:00	108-05-4	M5
Vinyl chloride	ND	ug/kg	4.9	1		10/26/15 18:00	75-01-4	M5
Xylene (Total)	ND	ug/kg	14.6	1		10/26/15 18:00	1330-20-7	M5
m&p-Xylene	ND	ug/kg	9.7	1		10/26/15 18:00	179601-23-1	M5
o-Xylene	ND	ug/kg	4.9	1		10/26/15 18:00	95-47-6	M5
Surrogates								
Toluene-d8 (S)	104	%	68-135	1		10/26/15 18:00	2037-26-5	M5
4-Bromofluorobenzene (S)	106	%	65-146	1		10/26/15 18:00	460-00-4	M5
1,2-Dichloroethane-d4 (S)	89	%	69-137	1		10/26/15 18:00	17060-07-0	M5
Dibromofluoromethane (S)	86	%	70-130	1		10/26/15 18:00	1868-53-7	M5
Percent Moisture		Analytical Method: Dry Weight						
Percent Moisture	3.2	%	0.10	1		10/27/15 15:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Sample: TCMF Backfill Source **Lab ID: 30162926003** Collected: 10/22/15 08:40 Received: 10/23/15 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides		Analytical Method: EPA 8081B Preparation Method: EPA 3546						
Aldrin	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	309-00-2	1c
alpha-BHC	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	319-84-6	1c,CH
beta-BHC	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	319-85-7	1c,CH
delta-BHC	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	319-86-8	1c,CH
gamma-BHC (Lindane)	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	58-89-9	1c,CH
alpha-Chlordane	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	5103-71-9	1c
gamma-Chlordane	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	5103-74-2	1c,CH
4,4'-DDD	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	72-54-8	1c,CH
4,4'-DDE	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	72-55-9	1c,CH
4,4'-DDT	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	50-29-3	1c,CH
Dieldrin	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	60-57-1	1c,CH
Endosulfan I	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	959-98-8	1c,CH
Endosulfan II	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	33213-65-9	1c,CH
Endosulfan sulfate	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	1031-07-8	1c,CH
Endrin	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	72-20-8	1c,CH
Endrin aldehyde	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	7421-93-4	1c,CH
Endrin ketone	ND	ug/kg	3.4	1	10/26/15 09:00	10/27/15 21:04	53494-70-5	1c,CH
Heptachlor	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	76-44-8	1c
Heptachlor epoxide	ND	ug/kg	1.7	1	10/26/15 09:00	10/27/15 21:04	1024-57-3	1c,CH
Methoxychlor	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 21:04	72-43-5	1c
Toxaphene	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 21:04	8001-35-2	1c
Surrogates								
Tetrachloro-m-xylene (S)	54	%	37-113	1	10/26/15 09:00	10/27/15 21:04	877-09-8	1c
Decachlorobiphenyl (S)	58	%	39-122	1	10/26/15 09:00	10/27/15 21:04	2051-24-3	1c
8082A GCS PCB		Analytical Method: EPA 8082A Preparation Method: EPA 3546						
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 19:57	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 19:57	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 19:57	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 19:57	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 19:57	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 19:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.1	1	10/26/15 09:00	10/27/15 19:57	11096-82-5	
PCB, Total	ND	ug/kg	120	1	10/26/15 09:00	10/27/15 19:57	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	66	%	30-107	1	10/26/15 09:00	10/27/15 19:57	877-09-8	
Decachlorobiphenyl (S)	48	%	10-115	1	10/26/15 09:00	10/27/15 19:57	2051-24-3	
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	3.8	mg/kg	0.39	1	10/26/15 10:35	10/27/15 10:07	7440-38-2	
Barium	50.8	mg/kg	1.6	1	10/26/15 10:35	10/27/15 10:07	7440-39-3	
Cadmium	ND	mg/kg	0.24	1	10/26/15 10:35	10/27/15 10:07	7440-43-9	
Chromium	8.9	mg/kg	0.39	1	10/26/15 10:35	10/27/15 10:07	7440-47-3	
Lead	6.8	mg/kg	0.39	1	10/26/15 10:35	10/27/15 10:07	7439-92-1	
Selenium	ND	mg/kg	0.63	1	10/26/15 10:35	10/27/15 10:07	7782-49-2	
Silver	ND	mg/kg	0.47	1	10/26/15 10:35	10/27/15 10:07	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Hillcrest
Pace Project No.: 30162926

Sample: TCMF Backfill Source **Lab ID: 30162926003** Collected: 10/22/15 08:40 Received: 10/23/15 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.10	1	10/26/15 15:04	10/27/15 16:19	7439-97-6	
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	83-32-9	L3
Acenaphthylene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	208-96-8	L3
Anthracene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	120-12-7	L3
Benzo(a)anthracene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	56-55-3	L3
Benzo(a)pyrene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	50-32-8	L3
Benzo(b)fluoranthene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	205-99-2	L3
Benzo(g,h,i)perylene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	207-08-9	L3
4-Bromophenylphenyl ether	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	101-55-3	
Butylbenzylphthalate	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	85-68-7	
Carbazole	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	59-50-7	
4-Chloroaniline	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	108-60-1	
2-Chloronaphthalene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	91-58-7	
2-Chlorophenol	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	95-57-8	L3
4-Chlorophenylphenyl ether	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	7005-72-3	
Chrysene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	218-01-9	L3
Dibenz(a,h)anthracene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	53-70-3	
Dibenzofuran	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	106-46-7	L3
3,3'-Dichlorobenzidine	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	120-83-2	
Diethylphthalate	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	105-67-9	
Dimethylphthalate	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	131-11-3	
Di-n-butylphthalate	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	845	1	10/26/15 10:00	10/26/15 16:59	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	845	1	10/26/15 10:00	10/26/15 16:59	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	121-14-2	L3
2,6-Dinitrotoluene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	606-20-2	
Di-n-octylphthalate	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	117-81-7	
Fluoranthene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	206-44-0	L3
Fluorene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	86-73-7	L3
Hexachloro-1,3-butadiene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	87-68-3	
Hexachlorobenzene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	77-47-4	L3
Hexachloroethane	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	67-72-1	

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ANALYTICAL RESULTS

Project: TCMF-Hillcrest

Pace Project No.: 30162926

Sample: TCMF Backfill Source **Lab ID: 30162926003** Collected: 10/22/15 08:40 Received: 10/23/15 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546						
Indeno(1,2,3-cd)pyrene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	193-39-5	
Isophorone	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	78-59-1	
2-Methylnaphthalene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	676	1	10/26/15 10:00	10/26/15 16:59		
Naphthalene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	91-20-3	
2-Nitroaniline	ND	ug/kg	845	1	10/26/15 10:00	10/26/15 16:59	88-74-4	
3-Nitroaniline	ND	ug/kg	845	1	10/26/15 10:00	10/26/15 16:59	99-09-2	
4-Nitroaniline	ND	ug/kg	845	1	10/26/15 10:00	10/26/15 16:59	100-01-6	
Nitrobenzene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	98-95-3	
2-Nitrophenol	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	88-75-5	
4-Nitrophenol	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	86-30-6	
Pentachlorophenol	ND	ug/kg	845	1	10/26/15 10:00	10/26/15 16:59	87-86-5	L3
Phenanthrene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	85-01-8	L3
Phenol	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	108-95-2	L3
Pyrene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	129-00-0	L3
1,2,4-Trichlorobenzene	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	845	1	10/26/15 10:00	10/26/15 16:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	338	1	10/26/15 10:00	10/26/15 16:59	88-06-2	L3
Surrogates								
Nitrobenzene-d5 (S)	83	%	40-117	1	10/26/15 10:00	10/26/15 16:59	4165-60-0	
2-Fluorobiphenyl (S)	86	%	50-112	1	10/26/15 10:00	10/26/15 16:59	321-60-8	
Terphenyl-d14 (S)	89	%	52-130	1	10/26/15 10:00	10/26/15 16:59	1718-51-0	
Phenol-d6 (S)	80	%	53-115	1	10/26/15 10:00	10/26/15 16:59	13127-88-3	
2-Fluorophenol (S)	85	%	38-124	1	10/26/15 10:00	10/26/15 16:59	367-12-4	
2,4,6-Tribromophenol (S)	102	%	21-133	1	10/26/15 10:00	10/26/15 16:59	118-79-6	2c

Percent Moisture

Analytical Method: Dry Weight

Percent Moisture	3.6	%	0.10	1	10/27/15 15:55			
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest

Pace Project No.: 30162926

QC Batch:	MERP/7047	Analysis Method:	EPA 7471B
QC Batch Method:	EPA 7471B	Analysis Description:	7471B Mercury
Associated Lab Samples:	30162926003		

METHOD BLANK: 972902 Matrix: Solid
Associated Lab Samples: 30162926003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	10/27/15 16:16	

LABORATORY CONTROL SAMPLE: 972903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.042	.042J	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 972904 972905

Parameter	Units	30162926003		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/kg	ND		.1	.1	0.12	0.11	100	100	80-120	2			

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

QC Batch: MPRP/16732 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010C MET
Associated Lab Samples: 30162926003

METHOD BLANK: 972889 Matrix: Solid
Associated Lab Samples: 30162926003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	10/27/15 10:03	
Barium	mg/kg	ND	2.0	10/27/15 10:03	
Cadmium	mg/kg	ND	0.30	10/27/15 10:03	
Chromium	mg/kg	ND	0.50	10/27/15 10:03	
Lead	mg/kg	ND	0.50	10/27/15 10:03	
Selenium	mg/kg	ND	0.80	10/27/15 10:03	
Silver	mg/kg	ND	0.60	10/27/15 10:03	

LABORATORY CONTROL SAMPLE: 972890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	47.4	95	80-120	
Barium	mg/kg	50	50.7	101	80-120	
Cadmium	mg/kg	50	48.6	97	80-120	
Chromium	mg/kg	50	51.1	102	80-120	
Lead	mg/kg	50	46.5	93	80-120	
Selenium	mg/kg	50	46.6	93	80-120	
Silver	mg/kg	25	23.2	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 972891 972892

Parameter	30162926003		MS		MSD		MS		MSD		% Rec	
	Units	Result	Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Qual
Arsenic	mg/kg	3.8	44	37.5	37.5	44.0	37.9	92	91	91	91	75-125 15
Barium	mg/kg	50.8	44	37.5	37.5	90.7	81.2	91	81	81	81	75-125 11
Cadmium	mg/kg	ND	44	37.5	37.5	41.3	36.0	94	95	95	95	75-125 14
Chromium	mg/kg	8.9	44	37.5	37.5	49.5	43.1	93	91	91	91	75-125 14
Lead	mg/kg	6.8	44	37.5	37.5	46.7	40.4	91	89	89	89	75-125 15
Selenium	mg/kg	ND	44	37.5	37.5	39.6	34.6	89	91	91	91	75-125 14
Silver	mg/kg	ND	22	18.8	18.8	20.6	17.8	93	94	94	94	75-125 14

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

QC Batch: MSV/25400 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV 5035 Low
Associated Lab Samples: 30162926001, 30162926002

METHOD BLANK: 972637 Matrix: Solid
Associated Lab Samples: 30162926001, 30162926002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,1-Dichloroethane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,1-Dichloroethene	ug/kg	ND	5.0	10/26/15 10:55	M5
1,1-Dichloropropene	ug/kg	ND	5.0	10/26/15 10:55	M5
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/26/15 10:55	M5
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
1,2-Dichloroethane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,2-Dichloropropane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
1,3-Dichloropropane	ug/kg	ND	5.0	10/26/15 10:55	M5
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
2,2-Dichloropropane	ug/kg	ND	5.0	10/26/15 10:55	M5
2-Butanone (MEK)	ug/kg	ND	10.0	10/26/15 10:55	M5
2-Chloroethylvinyl ether	ug/kg	ND	10.0	10/26/15 10:55	M5
2-Chlorotoluene	ug/kg	ND	5.0	10/26/15 10:55	M5
2-Hexanone	ug/kg	ND	10.0	10/26/15 10:55	M5
4-Chlorotoluene	ug/kg	ND	5.0	10/26/15 10:55	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/26/15 10:55	M5
Acetone	ug/kg	ND	10.0	10/26/15 10:55	M5
Benzene	ug/kg	ND	5.0	10/26/15 10:55	M5
Bromobenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
Bromochloromethane	ug/kg	ND	5.0	10/26/15 10:55	M5
Bromodichloromethane	ug/kg	ND	5.0	10/26/15 10:55	M5
Bromoform	ug/kg	ND	5.0	10/26/15 10:55	M5
Bromomethane	ug/kg	ND	5.0	10/26/15 10:55	M5
Carbon disulfide	ug/kg	ND	5.0	10/26/15 10:55	M5
Carbon tetrachloride	ug/kg	ND	5.0	10/26/15 10:55	M5
Chlorobenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
Chloroethane	ug/kg	ND	5.0	10/26/15 10:55	M5
Chloroform	ug/kg	ND	5.0	10/26/15 10:55	M5
Chloromethane	ug/kg	ND	5.0	10/26/15 10:55	M5
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/26/15 10:55	M5
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/26/15 10:55	M5

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest

Pace Project No.: 30162926

METHOD BLANK: 972637

Matrix: Solid

Associated Lab Samples: 30162926001, 30162926002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	10/26/15 10:55	M5
Dibromomethane	ug/kg	ND	5.0	10/26/15 10:55	M5
Dichlorodifluoromethane	ug/kg	ND	5.0	10/26/15 10:55	M5
Ethylbenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/26/15 10:55	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/26/15 10:55	M5
m&p-Xylene	ug/kg	ND	10.0	10/26/15 10:55	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/26/15 10:55	M5
Methylene Chloride	ug/kg	ND	5.0	10/26/15 10:55	M5
n-Butylbenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
n-Propylbenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
Naphthalene	ug/kg	ND	5.0	10/26/15 10:55	M5
o-Xylene	ug/kg	ND	5.0	10/26/15 10:55	M5
p-Isopropyltoluene	ug/kg	ND	5.0	10/26/15 10:55	M5
sec-Butylbenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
Styrene	ug/kg	ND	5.0	10/26/15 10:55	M5
tert-Butylbenzene	ug/kg	ND	5.0	10/26/15 10:55	M5
Tetrachloroethene	ug/kg	ND	5.0	10/26/15 10:55	M5
Toluene	ug/kg	ND	5.0	10/26/15 10:55	M5
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/26/15 10:55	M5
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/26/15 10:55	M5
Trichloroethene	ug/kg	ND	5.0	10/26/15 10:55	M5
Trichlorofluoromethane	ug/kg	ND	5.0	10/26/15 10:55	M5
Vinyl acetate	ug/kg	ND	50.0	10/26/15 10:55	M5
Vinyl chloride	ug/kg	ND	5.0	10/26/15 10:55	M5
Xylene (Total)	ug/kg	ND	15.0	10/26/15 10:55	M5
1,2-Dichloroethane-d4 (S)	%	90	69-137	10/26/15 10:55	M5
4-Bromofluorobenzene (S)	%	106	65-146	10/26/15 10:55	M5
Dibromofluoromethane (S)	%	87	70-130	10/26/15 10:55	M5
Toluene-d8 (S)	%	104	68-135	10/26/15 10:55	M5

LABORATORY CONTROL SAMPLE: 972638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	18.1	90	59-126	M5
1,1,1-Trichloroethane	ug/kg	20	17.6	88	71-130	M5
1,1,2,2-Tetrachloroethane	ug/kg	20	20.7	103	66-123	M5
1,1,2-Trichloroethane	ug/kg	20	18.7	93	75-115	M5
1,1-Dichloroethane	ug/kg	20	18.9	94	65-126	M5
1,1-Dichloroethene	ug/kg	20	22.1	111	62-137	M5
1,1-Dichloropropene	ug/kg	20	21.2	106	50-144	M5
1,2,3-Trichlorobenzene	ug/kg	20	20.7	103	65-135	M5
1,2,4-Trichlorobenzene	ug/kg	20	21.3	106	78-137	M5
1,2,4-Trimethylbenzene	ug/kg	20	20.9	105	79-125	M5

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

LABORATORY CONTROL SAMPLE: 972638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	20	23.0	115	21-150	M5
1,2-Dibromoethane (EDB)	ug/kg	20	19.4	97	74-118	M5
1,2-Dichlorobenzene	ug/kg	20	19.8	99	82-121	M5
1,2-Dichloroethane	ug/kg	20	16.3	81	67-116	M5
1,2-Dichloropropane	ug/kg	20	19.0	95	67-119	M5
1,3,5-Trimethylbenzene	ug/kg	20	20.3	101	74-129	M5
1,3-Dichlorobenzene	ug/kg	20	19.9	100	80-124	M5
1,3-Dichloropropane	ug/kg	20	19.6	98	65-121	M5
1,4-Dichlorobenzene	ug/kg	20	20.1	100	80-126	M5
2,2-Dichloropropane	ug/kg	20	19.3	96	32-155	M5
2-Butanone (MEK)	ug/kg	20	10.6	53	42-116	M5
2-Chloroethylvinyl ether	ug/kg	20	18.0	90	16-145	M5
2-Chlorotoluene	ug/kg	20	20.1	101	62-131	M5
2-Hexanone	ug/kg	20	15.7	78	54-121	M5
4-Chlorotoluene	ug/kg	20	20.4	102	58-131	M5
4-Methyl-2-pentanone (MIBK)	ug/kg	20	13.9	70	52-119	M5
Acetone	ug/kg	20	10.0	50	32-113	M5
Benzene	ug/kg	20	22.2	111	71-137	M5
Bromobenzene	ug/kg	20	20.6	103	52-135	M5
Bromochloromethane	ug/kg	20	18.5	92	63-127	M5
Bromodichloromethane	ug/kg	20	18.1	91	67-121	M5
Bromoform	ug/kg	20	21.1	105	58-122	M5
Bromomethane	ug/kg	20	15.2	76	27-164	M5
Carbon disulfide	ug/kg	20	23.3	116	60-172	M5
Carbon tetrachloride	ug/kg	20	18.6	93	66-132	M5
Chlorobenzene	ug/kg	20	18.0	90	80-119	M5
Chloroethane	ug/kg	20	15.4	77	53-149	M5
Chloroform	ug/kg	20	16.8	84	70-120	M5
Chloromethane	ug/kg	20	16.7	83	47-147	M5
cis-1,2-Dichloroethene	ug/kg	20	18.6	93	64-120	M5
cis-1,3-Dichloropropene	ug/kg	20	20.2	101	67-123	M5
Dibromochloromethane	ug/kg	20	19.0	95	67-120	M5
Dibromomethane	ug/kg	20	18.8	94	54-123	M5
Dichlorodifluoromethane	ug/kg	20	18.5	93	10-175	M5
Ethylbenzene	ug/kg	20	19.0	95	78-126	M5
Hexachloro-1,3-butadiene	ug/kg	20	20.2	101	52-156	M5
Isopropylbenzene (Cumene)	ug/kg	20	22.8	114	78-133	M5
m&p-Xylene	ug/kg	40	39.6	99	77-129	M5
Methyl-tert-butyl ether	ug/kg	20	18.6	93	77-141	M5
Methylene Chloride	ug/kg	20	16.2	81	50-125	M5
n-Butylbenzene	ug/kg	20	22.7	113	74-140	M5
n-Propylbenzene	ug/kg	20	21.5	107	70-140	M5
Naphthalene	ug/kg	20	19.3	97	81-126	M5
o-Xylene	ug/kg	20	19.5	98	80-125	M5
p-Isopropyltoluene	ug/kg	20	21.9	109	74-136	M5
sec-Butylbenzene	ug/kg	20	21.9	109	81-132	M5
Styrene	ug/kg	20	20.0	100	79-130	M5

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest

Pace Project No.: 30162926

LABORATORY CONTROL SAMPLE: 972638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	20	20.8	104	77-129	M5
Tetrachloroethene	ug/kg	20	19.0	95	73-135	M5
Toluene	ug/kg	20	20.8	104	72-127	M5
trans-1,2-Dichloroethene	ug/kg	20	19.3	96	64-131	M5
trans-1,3-Dichloropropene	ug/kg	20	18.6	93	66-116	M5
Trichloroethene	ug/kg	20	18.1	91	73-125	M5
Trichlorofluoromethane	ug/kg	20	14.1	70	39-192	M5
Vinyl acetate	ug/kg		ND			M5
Vinyl chloride	ug/kg	20	15.1	75	46-138	M5
Xylene (Total)	ug/kg	60	59.1	98	80-124	M5
1,2-Dichloroethane-d4 (S)	%			89	69-137	M5
4-Bromofluorobenzene (S)	%			106	65-146	M5
Dibromofluoromethane (S)	%			90	70-130	M5
Toluene-d8 (S)	%			105	68-135	M5

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

QC Batch: OEXT/25807 Analysis Method: EPA 8081B
QC Batch Method: EPA 3546 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 30162926003

METHOD BLANK: 972461 Matrix: Solid
Associated Lab Samples: 30162926003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/kg	ND	3.3	10/27/15 20:09	1c
4,4'-DDE	ug/kg	ND	3.3	10/27/15 20:09	1c
4,4'-DDT	ug/kg	ND	3.3	10/27/15 20:09	1c
Aldrin	ug/kg	ND	1.7	10/27/15 20:09	1c
alpha-BHC	ug/kg	ND	1.7	10/27/15 20:09	1c
alpha-Chlordane	ug/kg	ND	1.7	10/27/15 20:09	1c
beta-BHC	ug/kg	ND	1.7	10/27/15 20:09	1c
delta-BHC	ug/kg	ND	1.7	10/27/15 20:09	1c
Dieldrin	ug/kg	ND	3.3	10/27/15 20:09	1c
Endosulfan I	ug/kg	ND	1.7	10/27/15 20:09	1c
Endosulfan II	ug/kg	ND	3.3	10/27/15 20:09	1c
Endosulfan sulfate	ug/kg	ND	3.3	10/27/15 20:09	1c
Endrin	ug/kg	ND	3.3	10/27/15 20:09	1c
Endrin aldehyde	ug/kg	ND	3.3	10/27/15 20:09	1c
Endrin ketone	ug/kg	ND	3.3	10/27/15 20:09	1c
gamma-BHC (Lindane)	ug/kg	ND	1.7	10/27/15 20:09	1c
gamma-Chlordane	ug/kg	ND	1.7	10/27/15 20:09	1c
Heptachlor	ug/kg	ND	1.7	10/27/15 20:09	1c
Heptachlor epoxide	ug/kg	ND	1.7	10/27/15 20:09	1c
Methoxychlor	ug/kg	ND	16.7	10/27/15 20:09	1c
Toxaphene	ug/kg	ND	16.7	10/27/15 20:09	1c
Decachlorobiphenyl (S)	%	59	39-122	10/27/15 20:09	1c
Tetrachloro-m-xylene (S)	%	54	37-113	10/27/15 20:09	1c

LABORATORY CONTROL SAMPLE: 972462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	26.7	23.6	88	64-119	1c,CH
4,4'-DDE	ug/kg	26.7	24.6	92	50-114	1c,CH
4,4'-DDT	ug/kg	26.7	24.6	92	68-118	1c,CH
Aldrin	ug/kg	13.3	11.5	86	50-98	1c
alpha-BHC	ug/kg	13.3	11.3	85	50-105	1c,CH
alpha-Chlordane	ug/kg	13.3	11.2	84	51-104	1c
beta-BHC	ug/kg	13.3	11.2	84	49-104	1c,CH
delta-BHC	ug/kg	13.3	11.5	86	48-113	1c,CH
Dieldrin	ug/kg	26.7	23.9	89	63-112	1c,CH
Endosulfan I	ug/kg	13.3	11.0	82	60-108	1c,CH
Endosulfan II	ug/kg	26.7	23.5	88	51-112	1c,CH
Endosulfan sulfate	ug/kg	26.7	23.5	88	54-112	1c,CH
Endrin	ug/kg	26.7	23.4	88	65-114	1c,CH

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

LABORATORY CONTROL SAMPLE: 972462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin aldehyde	ug/kg	26.7	22.4	84	53-145	1c,CH
Endrin ketone	ug/kg	26.7	22.5	84	57-123	1c,CH
gamma-BHC (Lindane)	ug/kg	13.3	11.3	85	55-112	1c,CH
gamma-Chlordane	ug/kg	13.3	11.3	85	53-102	1c,CH
Heptachlor	ug/kg	13.3	11.5	86	59-108	1c
Heptachlor epoxide	ug/kg	13.3	11.5	86	51-105	1c,CH
Methoxychlor	ug/kg	133	116	87	64-116	1c
Decachlorobiphenyl (S)	%			57	39-122	1c
Tetrachloro-m-xylene (S)	%			52	37-113	1c

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 972463 972464

Parameter	30162926003		MS	MSD	MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
4,4'-DDD	ug/kg	ND	26.9	26.9	24.3	25.3	90	94	64-119	4	1c,CH
4,4'-DDE	ug/kg	ND	26.9	26.9	24.9	26.3	92	98	50-114	6	1c,CH
4,4'-DDT	ug/kg	ND	26.9	26.9	24.4	26.3	91	98	68-118	8	1c,CH
Aldrin	ug/kg	ND	13.5	13.5	11.4	12.0	85	89	50-98	5	1c
alpha-BHC	ug/kg	ND	13.5	13.5	11.3	12.0	84	90	50-105	6	1c,CH
alpha-Chlordane	ug/kg	ND	13.5	13.5	11.4	12.0	84	90	51-104	6	1c
beta-BHC	ug/kg	ND	13.5	13.5	11.4	12.0	85	89	49-104	5	1c,CH
delta-BHC	ug/kg	ND	13.5	13.5	12.1	12.8	90	95	48-113	6	1c,CH
Dieldrin	ug/kg	ND	26.9	26.9	23.8	25.3	89	94	63-112	6	1c,CH
Endosulfan I	ug/kg	ND	13.5	13.5	11.2	11.7	83	87	60-108	5	1c,CH
Endosulfan II	ug/kg	ND	26.9	26.9	24.1	25.1	89	93	51-112	4	1c,CH
Endosulfan sulfate	ug/kg	ND	26.9	26.9	24.9	26.4	93	98	54-112	6	1c,CH
Endrin	ug/kg	ND	26.9	26.9	23.6	24.9	88	93	65-114	5	1c,CH
Endrin aldehyde	ug/kg	ND	26.9	26.9	23.9	25.3	86	91	53-145	6	1c,CH
Endrin ketone	ug/kg	ND	26.9	26.9	27.7	29.7	103	110	57-123	7	1c,CH
gamma-BHC (Lindane)	ug/kg	ND	13.5	13.5	11.3	12.0	84	89	55-112	6	1c,CH
gamma-Chlordane	ug/kg	ND	13.5	13.5	11.3	12.0	84	89	53-102	6	1c,CH
Heptachlor	ug/kg	ND	13.5	13.5	11.6	12.1	86	90	59-108	4	1c
Heptachlor epoxide	ug/kg	ND	13.5	13.5	11.5	12.0	86	89	51-105	4	1c,CH
Methoxychlor	ug/kg	ND	135	135	119	126	87	92	64-116	5	1c
Decachlorobiphenyl (S)	%						57	60	39-122		1c
Tetrachloro-m-xylene (S)	%						50	54	37-113		1c

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

QC Batch: OEXT/25806 Analysis Method: EPA 8082A
QC Batch Method: EPA 3546 Analysis Description: 8082A GCS PCB
Associated Lab Samples: 30162926003

METHOD BLANK: 972457 Matrix: Solid
Associated Lab Samples: 30162926003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	10/27/15 19:24	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	10/27/15 19:24	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	10/27/15 19:24	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	10/27/15 19:24	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	10/27/15 19:24	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	10/27/15 19:24	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	10/27/15 19:24	
Decachlorobiphenyl (S)	%	54	10-115	10/27/15 19:24	
Tetrachloro-m-xylene (S)	%	75	30-107	10/27/15 19:24	

LABORATORY CONTROL SAMPLE: 972458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	110	66	40-100	
PCB-1260 (Aroclor 1260)	ug/kg	167	108	65	41-109	
Decachlorobiphenyl (S)	%			54	10-115	
Tetrachloro-m-xylene (S)	%			71	30-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 972459 972460

Parameter	Units	30162926003		972460		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result					
PCB-1016 (Aroclor 1016)	ug/kg	ND	170	169	118	124	69	74	40-100	5
PCB-1260 (Aroclor 1260)	ug/kg	ND	170	169	98.3	106	58	63	41-109	7
Decachlorobiphenyl (S)	%						49	49	10-115	
Tetrachloro-m-xylene (S)	%						65	68	30-107	

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

QC Batch: OEXT/25810 Analysis Method: EPA 8270D
QC Batch Method: EPA 3546 Analysis Description: 8270D Solid MSSV Microwave
Associated Lab Samples: 30162926003

METHOD BLANK: 972473 Matrix: Solid
Associated Lab Samples: 30162926003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	333	10/26/15 16:38	
1,2-Dichlorobenzene	ug/kg	ND	333	10/26/15 16:38	
1,3-Dichlorobenzene	ug/kg	ND	333	10/26/15 16:38	
1,4-Dichlorobenzene	ug/kg	ND	333	10/26/15 16:38	
2,4,5-Trichlorophenol	ug/kg	ND	833	10/26/15 16:38	
2,4,6-Trichlorophenol	ug/kg	ND	333	10/26/15 16:38	
2,4-Dichlorophenol	ug/kg	ND	333	10/26/15 16:38	
2,4-Dimethylphenol	ug/kg	ND	333	10/26/15 16:38	
2,4-Dinitrophenol	ug/kg	ND	833	10/26/15 16:38	
2,4-Dinitrotoluene	ug/kg	ND	333	10/26/15 16:38	
2,6-Dinitrotoluene	ug/kg	ND	333	10/26/15 16:38	
2-Chloronaphthalene	ug/kg	ND	333	10/26/15 16:38	
2-Chlorophenol	ug/kg	ND	333	10/26/15 16:38	
2-Methylnaphthalene	ug/kg	ND	333	10/26/15 16:38	
2-Methylphenol(o-Cresol)	ug/kg	ND	333	10/26/15 16:38	
2-Nitroaniline	ug/kg	ND	833	10/26/15 16:38	
2-Nitrophenol	ug/kg	ND	333	10/26/15 16:38	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	666	10/26/15 16:38	
3,3'-Dichlorobenzidine	ug/kg	ND	333	10/26/15 16:38	
3-Nitroaniline	ug/kg	ND	833	10/26/15 16:38	
4,6-Dinitro-2-methylphenol	ug/kg	ND	833	10/26/15 16:38	
4-Bromophenylphenyl ether	ug/kg	ND	333	10/26/15 16:38	
4-Chloro-3-methylphenol	ug/kg	ND	333	10/26/15 16:38	
4-Chloroaniline	ug/kg	ND	333	10/26/15 16:38	
4-Chlorophenylphenyl ether	ug/kg	ND	333	10/26/15 16:38	
4-Nitroaniline	ug/kg	ND	833	10/26/15 16:38	
4-Nitrophenol	ug/kg	ND	333	10/26/15 16:38	
Acenaphthene	ug/kg	ND	333	10/26/15 16:38	
Acenaphthylene	ug/kg	ND	333	10/26/15 16:38	
Anthracene	ug/kg	ND	333	10/26/15 16:38	
Benzo(a)anthracene	ug/kg	ND	333	10/26/15 16:38	
Benzo(a)pyrene	ug/kg	ND	333	10/26/15 16:38	
Benzo(b)fluoranthene	ug/kg	ND	333	10/26/15 16:38	
Benzo(g,h,i)perylene	ug/kg	ND	333	10/26/15 16:38	
Benzo(k)fluoranthene	ug/kg	ND	333	10/26/15 16:38	
bis(2-Chloroethoxy)methane	ug/kg	ND	333	10/26/15 16:38	
bis(2-Chloroethyl) ether	ug/kg	ND	333	10/26/15 16:38	
bis(2-Chloroisopropyl) ether	ug/kg	ND	333	10/26/15 16:38	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	333	10/26/15 16:38	
Butylbenzylphthalate	ug/kg	ND	333	10/26/15 16:38	
Carbazole	ug/kg	ND	333	10/26/15 16:38	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest

Pace Project No.: 30162926

METHOD BLANK: 972473

Matrix: Solid

Associated Lab Samples: 30162926003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	ug/kg	ND	333	10/26/15 16:38	
Di-n-butylphthalate	ug/kg	ND	333	10/26/15 16:38	
Di-n-octylphthalate	ug/kg	ND	333	10/26/15 16:38	
Dibenz(a,h)anthracene	ug/kg	ND	333	10/26/15 16:38	
Dibenzofuran	ug/kg	ND	333	10/26/15 16:38	
Diethylphthalate	ug/kg	ND	333	10/26/15 16:38	
Dimethylphthalate	ug/kg	ND	333	10/26/15 16:38	
Fluoranthene	ug/kg	ND	333	10/26/15 16:38	
Fluorene	ug/kg	ND	333	10/26/15 16:38	
Hexachloro-1,3-butadiene	ug/kg	ND	333	10/26/15 16:38	
Hexachlorobenzene	ug/kg	ND	333	10/26/15 16:38	
Hexachlorocyclopentadiene	ug/kg	ND	333	10/26/15 16:38	
Hexachloroethane	ug/kg	ND	333	10/26/15 16:38	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	333	10/26/15 16:38	
Isophorone	ug/kg	ND	333	10/26/15 16:38	
N-Nitroso-di-n-propylamine	ug/kg	ND	333	10/26/15 16:38	
N-Nitrosodiphenylamine	ug/kg	ND	333	10/26/15 16:38	
Naphthalene	ug/kg	ND	333	10/26/15 16:38	
Nitrobenzene	ug/kg	ND	333	10/26/15 16:38	
Pentachlorophenol	ug/kg	ND	833	10/26/15 16:38	
Phenanthrene	ug/kg	ND	333	10/26/15 16:38	
Phenol	ug/kg	ND	333	10/26/15 16:38	
Pyrene	ug/kg	ND	333	10/26/15 16:38	
2,4,6-Tribromophenol (S)	%	106	21-133	10/26/15 16:38	2c
2-Fluorobiphenyl (S)	%	90	50-112	10/26/15 16:38	
2-Fluorophenol (S)	%	90	38-124	10/26/15 16:38	
Nitrobenzene-d5 (S)	%	87	40-117	10/26/15 16:38	
Phenol-d6 (S)	%	85	53-115	10/26/15 16:38	
Terphenyl-d14 (S)	%	94	52-130	10/26/15 16:38	

LABORATORY CONTROL SAMPLE: 972474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3330	2970	89	53-107	
1,2-Dichlorobenzene	ug/kg	3330	3780	113	50-127	
1,3-Dichlorobenzene	ug/kg	3330	3510	105	48-125	
1,4-Dichlorobenzene	ug/kg	3330	3590	108	61-105	L0
2,4,5-Trichlorophenol	ug/kg	3330	3850	116	67-136	
2,4,6-Trichlorophenol	ug/kg	3330	5540	166	67-135	L0
2,4-Dichlorophenol	ug/kg	3330	3220	97	37-133	
2,4-Dimethylphenol	ug/kg	3330	2930	88	33-137	
2,4-Dinitrophenol	ug/kg	3330	4960	149	10-160	2c
2,4-Dinitrotoluene	ug/kg	3330	4070	122	73-119	L0
2,6-Dinitrotoluene	ug/kg	3330	4710	141	23-169	

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest

Pace Project No.: 30162926

LABORATORY CONTROL SAMPLE: 972474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloronaphthalene	ug/kg	3330	4060	122	63-124	
2-Chlorophenol	ug/kg	3330	4020	121	70-110	L0
2-Methylnaphthalene	ug/kg	3330	2840	85	55-111	
2-Methylphenol(o-Cresol)	ug/kg	3330	4090	123	61-129	
2-Nitroaniline	ug/kg	3330	4170	125	75-136	
2-Nitrophenol	ug/kg	3330	3390	102	32-134	
3&4-Methylphenol(m&p Cresol)	ug/kg	3330	3970	119	49-142	
3-Nitroaniline	ug/kg	3330	3770	113	58-161	3c
4,6-Dinitro-2-methylphenol	ug/kg	3330	5150	155	45-157	2c
4-Bromophenylphenyl ether	ug/kg	3330	4170	125	68-133	
4-Chloro-3-methylphenol	ug/kg	3330	3080	92	58-115	
4-Chloroaniline	ug/kg	3330	2510	75	12-147	3c
4-Chlorophenylphenyl ether	ug/kg	3330	4120	124	69-127	
4-Nitroaniline	ug/kg	3330	4080	122	25-195	
4-Nitrophenol	ug/kg	3330	4370	131	56-145	
Acenaphthene	ug/kg	3330	4190	126	74-109	L0
Acenaphthylene	ug/kg	3330	4100	123	77-110	L0
Anthracene	ug/kg	3330	3840	115	85-109	L0
Benzo(a)anthracene	ug/kg	3330	4270	128	82-111	L0
Benzo(a)pyrene	ug/kg	3330	4110	123	85-110	L0
Benzo(b)fluoranthene	ug/kg	3330	4410	132	76-124	L0
Benzo(g,h,i)perylene	ug/kg	3330	4420	132	30-156	
Benzo(k)fluoranthene	ug/kg	3330	4290	129	74-125	L0
bis(2-Chloroethoxy)methane	ug/kg	3330	2950	89	35-133	
bis(2-Chloroethyl) ether	ug/kg	3330	3440	103	50-125	
bis(2-Chloroisopropyl) ether	ug/kg	3330	3690	111	52-131	
bis(2-Ethylhexyl)phthalate	ug/kg	3330	4360	131	68-145	
Butylbenzylphthalate	ug/kg	3330	4460	134	64-152	
Carbazole	ug/kg	3330	4410	132	56-172	
Chrysene	ug/kg	3330	3940	118	83-114	L0
Di-n-butylphthalate	ug/kg	3330	3980	119	73-127	
Di-n-octylphthalate	ug/kg	3330	4310	129	66-146	
Dibenz(a,h)anthracene	ug/kg	3330	4080	122	44-146	
Dibenzofuran	ug/kg	3330	4020	121	70-130	
Diethylphthalate	ug/kg	3330	4060	122	70-128	
Dimethylphthalate	ug/kg	3330	4120	124	67-126	
Fluoranthene	ug/kg	3330	4080	123	82-115	L0
Fluorene	ug/kg	3330	4200	126	79-112	L0
Hexachloro-1,3-butadiene	ug/kg	3330	3270	98	34-138	
Hexachlorobenzene	ug/kg	3330	4190	126	72-128	
Hexachlorocyclopentadiene	ug/kg	3330	4170	125	32-116	L0
Hexachloroethane	ug/kg	3330	3860	116	51-123	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	4060	122	42-146	
Isophorone	ug/kg	3330	2690	81	40-122	
N-Nitroso-di-n-propylamine	ug/kg	3330	3830	115	66-117	
N-Nitrosodiphenylamine	ug/kg	3330	4130	124	70-137	
Naphthalene	ug/kg	3330	2940	88	53-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

LABORATORY CONTROL SAMPLE: 972474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrobenzene	ug/kg	3330	2720	82	31-131	
Pentachlorophenol	ug/kg	3330	5820	175	18-150	CH,L0
Phenanthrene	ug/kg	3330	4350	131	84-109	L0
Phenol	ug/kg	3330	3960	119	68-111	L0
Pyrene	ug/kg	3330	4440	133	68-126	L0
2,4,6-Tribromophenol (S)	%			130	21-133	2c
2-Fluorobiphenyl (S)	%			106	50-112	
2-Fluorophenol (S)	%			104	38-124	
Nitrobenzene-d5 (S)	%			76	40-117	
Phenol-d6 (S)	%			100	53-115	
Terphenyl-d14 (S)	%			120	52-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 972475 972476

Parameter	30162843002		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.							
1,2,4-Trichlorobenzene	ug/kg	ND	9650	9600	6320	6620	65	69	53-107	5	
1,2-Dichlorobenzene	ug/kg	ND	9650	9600	7130	7660	74	80	50-127	7	
1,3-Dichlorobenzene	ug/kg	ND	9650	9600	6740	7240	70	75	48-125	7	
1,4-Dichlorobenzene	ug/kg	ND	9650	9600	6820	7310	71	76	61-105	7	
2,4,5-Trichlorophenol	ug/kg	ND	9650	9600	6740	6650	70	69	67-136	1	
2,4,6-Trichlorophenol	ug/kg	ND	9650	9600	11200	11900	116	125	67-135	7	
2,4-Dichlorophenol	ug/kg	ND	9650	9600	6580	6840	68	71	37-133	4	
2,4-Dimethylphenol	ug/kg	ND	9650	9600	6160	6350	64	66	33-137	3	
2,4-Dinitrophenol	ug/kg	ND	9650	9600	2290J	2460	24	26	10-160		2c
2,4-Dinitrotoluene	ug/kg	ND	9650	9600	6540	6600	68	69	73-119	1	M0
2,6-Dinitrotoluene	ug/kg	ND	9650	9600	6770	7440	70	78	23-169	9	
2-Chloronaphthalene	ug/kg	ND	9650	9600	7280	7770	75	81	63-124	7	
2-Chlorophenol	ug/kg	ND	9650	9600	7620	8210	79	86	70-110	7	
2-Methylnaphthalene	ug/kg	ND	9650	9600	6000	6270	62	65	55-111	4	
2-Methylphenol(o-Cresol)	ug/kg	ND	9650	9600	7580	8060	79	84	61-129	6	
2-Nitroaniline	ug/kg	ND	9650	9600	9440	10200	98	106	75-136	8	
2-Nitrophenol	ug/kg	ND	9650	9600	5270	5240	55	55	32-134	1	
3&4-Methylphenol(m&p Cresol)	ug/kg	2300	9650	9600	10600	11800	86	99	49-142	10	
3,3'-Dichlorobenzidine	ug/kg	ND	9650	9600	ND	ND	0	0	10-175		M0
3-Nitroaniline	ug/kg	ND	9650	9600	6070	6780	63	71	58-161	11	3c
4,6-Dinitro-2-methylphenol	ug/kg	ND	9650	9600	2960	3010	31	31	45-157	1	CH,M1
4-Bromophenylphenyl ether	ug/kg	ND	9650	9600	7400	7490	77	78	68-133	1	
4-Chloro-3-methylphenol	ug/kg	ND	9650	9600	6410	6720	66	70	58-115	5	
4-Chloroaniline	ug/kg	ND	9650	9600	2950	3810	31	40	12-147	26	3c,R1
4-Chlorophenylphenyl ether	ug/kg	ND	9650	9600	7190	7570	75	79	69-127	5	
4-Nitroaniline	ug/kg	ND	9650	9600	8610	8360	89	87	25-195	3	
4-Nitrophenol	ug/kg	ND	9650	9600	7250	8100	75	84	56-145	11	
Acenaphthene	ug/kg	ND	9650	9600	7680	8070	80	84	74-109	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

Parameter	30162843002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Acenaphthylene	ug/kg	ND	9650	9600	7450	7740	77	81	77-110	4				
Anthracene	ug/kg	ND	9650	9600	5700	5890	59	61	85-109	3	M0			
Benzo(a)anthracene	ug/kg	ND	9650	9600	6980	7830	72	82	82-111	11	M0			
Benzo(a)pyrene	ug/kg	ND	9650	9600	7100	7430	74	77	85-110	5	M0			
Benzo(b)fluoranthene	ug/kg	ND	9650	9600	7800	7990	80	83	76-124	2				
Benzo(g,h,i)perylene	ug/kg	ND	9650	9600	4580	4390	47	46	30-156	4				
Benzo(k)fluoranthene	ug/kg	ND	9650	9600	7650	8420	79	87	74-125	10				
bis(2-Chloroethoxy)methane	ug/kg	ND	9650	9600	6220	6460	64	67	35-133	4				
bis(2-Chloroethyl) ether	ug/kg	ND	9650	9600	6600	7100	68	74	50-125	7				
bis(2-Chloroisopropyl) ether	ug/kg	ND	9650	9600	7120	7750	74	81	52-131	9				
bis(2-Ethylhexyl)phthalate	ug/kg	3320	9650	9600	10400	11500	73	86	68-145	10				
Butylbenzylphthalate	ug/kg	ND	9650	9600	7420	8490	77	88	64-152	13				
Carbazole	ug/kg	ND	9650	9600	7260	7320	75	76	56-172	1				
Chrysene	ug/kg	ND	9650	9600	7200	7520	75	78	83-114	4	M0			
Di-n-butylphthalate	ug/kg	ND	9650	9600	5870	5850	61	61	73-127	0	M1			
Di-n-octylphthalate	ug/kg	ND	9650	9600	8050	8070	83	84	66-146	0				
Dibenz(a,h)anthracene	ug/kg	ND	9650	9600	5090	4920	53	51	44-146	3				
Dibenzofuran	ug/kg	ND	9650	9600	7020	7400	73	77	70-130	5				
Diethylphthalate	ug/kg	ND	9650	9600	7460	7760	77	81	70-128	4				
Dimethylphthalate	ug/kg	ND	9650	9600	7650	7880	79	82	67-126	3				
Fluoranthene	ug/kg	ND	9650	9600	6980	7060	72	74	82-115	1	M0			
Fluorene	ug/kg	ND	9650	9600	7440	7760	77	81	79-112	4	M0			
Hexachloro-1,3-butadiene	ug/kg	ND	9650	9600	7200	7500	75	78	34-138	4				
Hexachlorobenzene	ug/kg	ND	9650	9600	7610	7860	79	82	72-128	3				
Hexachlorocyclopentadiene	ug/kg	ND	9650	9600	ND	ND	0	0	32-116		M0			
Hexachloroethane	ug/kg	ND	9650	9600	5020	4940	52	51	51-123	2				
Indeno(1,2,3-cd)pyrene	ug/kg	ND	9650	9600	4980	4840	52	50	42-146	3				
Isophorone	ug/kg	ND	9650	9600	5740	6010	59	63	40-122	5				
N-Nitroso-di-n-propylamine	ug/kg	ND	9650	9600	7410	7930	77	83	66-117	7				
N-Nitrosodiphenylamine	ug/kg	ND	9650	9600	7340	7640	76	80	70-137	4				
Naphthalene	ug/kg	ND	9650	9600	6180	6520	64	68	53-112	5				
Nitrobenzene	ug/kg	ND	9650	9600	5830	6070	60	63	31-131	4				
Pentachlorophenol	ug/kg	ND	9650	9600	10700	11000	105	109	18-150	3	2c			
Phenanthrene	ug/kg	ND	9650	9600	8930	9130	93	95	84-109	2				
Phenol	ug/kg	24200	9650	9600	29100	31000	50	70	68-111	6	E,M0			
Pyrene	ug/kg	ND	9650	9600	7630	8160	79	85	68-126	7				
2,4,6-Tribromophenol (S)	%						83	87	21-133		2c			
2-Fluorobiphenyl (S)	%						64	70	50-112					
2-Fluorophenol (S)	%						66	72	38-124					
Nitrobenzene-d5 (S)	%						54	57	40-117					
Phenol-d6 (S)	%						59	64	53-115					
Terphenyl-d14 (S)	%						57	65	52-130					

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QUALITY CONTROL DATA

Project: TCMF-Hillcrest
Pace Project No.: 30162926

QC Batch: PMST/5705 Analysis Method: Dry Weight
QC Batch Method: Dry Weight Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30162926001, 30162926002, 30162926003

SAMPLE DUPLICATE: 973269

Parameter	Units	30162644001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.5	10.8	52	D6

SAMPLE DUPLICATE: 973270

Parameter	Units	30162645001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	7.5	10.3	32	D6

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QUALIFIERS

Project: TCMF-Hillcrest
Pace Project No.: 30162926

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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/25400

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: GCSV/8771

[1] Retention times shifted during the analytical sequence such that the retention times for several analytes fell outside of their respective retention time windows in the closing CCV associated with this analysis. QC samples and standards were used to aid in analyte identification.

ANALYTE QUALIFIERS

1c Retention times shifted during the analytical sequence such that the retention times for several analytes fell outside of their respective retention time windows in the closing CCV associated with this analysis. QC samples and standards were used to aid in analyte identification.

2c The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Results unaffected by high bias.

3c The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Results unaffected by low bias.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: TCMF-Hillcrest

Pace Project No.: 30162926

ANALYTE QUALIFIERS

- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- M5 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
- R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TCMF-Hillcrest
Pace Project No.: 30162926

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30162926003	TCMF Backfill Source	EPA 3546	OEXT/25807	EPA 8081B	GCSV/8771
30162926003	TCMF Backfill Source	EPA 3546	OEXT/25806	EPA 8082A	GCSV/8774
30162926003	TCMF Backfill Source	EPA 3050B	MPRP/16732	EPA 6010C	ICP/15898
30162926003	TCMF Backfill Source	EPA 7471B	MERP/7047	EPA 7471B	MERC/6735
30162926003	TCMF Backfill Source	EPA 3546	OEXT/25810	EPA 8270D	MSSV/8360
30162926001	TCMF Backfill Source	EPA 8260C	MSV/25400		
30162926002	TCMF Backfill Source	EPA 8260C	MSV/25400		
30162926001	TCMF Backfill Source	Dry Weight	PMST/5705		
30162926002	TCMF Backfill Source	Dry Weight	PMST/5705		
30162926003	TCMF Backfill Source	Dry Weight	PMST/5705		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information: Company: <u>Geologic NY Inc.</u> Address: <u>Po Box 350</u> Haver, NY Email To: <u>geologicny@geologic.net</u> Phone: <u>607-849-5000</u> Fax: _____ Requested Due Date/TAT: <u>10-28-15</u>		Section B Required Project Information: Report To: <u>Geologic NY Inc</u> Copy To: <u>Susan Cummins</u> Purchase Order No.: <u>99011A</u> Project Name: <u>TCHF - Hillcrest</u> Project Number: <u>99011A</u>		Section C Invoice Information: Attention: <u>Same</u> Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager: _____ Pace Profile #: _____	
Regulatory Agency: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		Site Location: STATE: <u>NY</u>		Page: <u>1</u> of <u>1</u> 1880875	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		PRESERVATIVES	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB				
					DATE	TIME				
1	TCHF Backfill Source	DW	SL G	G	10-22-15	835	Unpreserved	Y		0162926
2	TCHF Backfill Source	WT	SL G	G	10-22-15	836	HCl	Y		002
3	TCHF Backfill Source	WW	SL C	C	10-22-15	840	HNO ₃	Y		003
4		P					H ₂ SO ₄			004
5		SL					NaOH			
6		OL					Na ₂ O ₃			
7		WP					HCl			
8		AR					HNO ₃			
9		TS					H ₂ SO ₄			
10		OT					Other			
11										
12										

ADDITIONAL COMMENTS <u>Dusan Cummins</u> <u>Jenny Pace</u>		RELINQUISHED BY / AFFILIATION <u>Dusan Cummins</u> <u>Jenny Pace</u>	DATE <u>10-22-15</u> <u>10-22-15</u>	TIME <u>16:53</u> <u>10:00</u>	ACCEPTED BY / AFFILIATION <u>Same</u> <u>RP</u>	DATE <u>10-22-15</u> <u>10-23-15</u>	TIME <u>16:53</u> <u>0930</u>	SAMPLE CONDITIONS Received on Ice (Y/N) <u>Y</u> Custody Sealed Cooler (Y/N) <u>Y</u> Samples Intact (Y/N) <u>Y</u>
--	--	--	--	--------------------------------------	---	--	-------------------------------------	--

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Susan Cummins
 SIGNATURE OF SAMPLER: Dusan Cummins
 DATE Signed (MM/DD/YY): 10-22-15



Sample Condition Upon Receipt

RB

Client Name: GeoLogic

Project # 30162926

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Tracking #: 7748 0595 3242

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap _____ Bubble Bags _____ None _____ Other Bag

Thermometer Used _____ Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 4.8 °C Correction Factor: +0.4 °C Final Temp: 5.2 °C

Date and initials of person examining contents: 10/23/15 RB

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>10/23/15 RB</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 10/23/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Project Number: 30162926

Client Name: Geologic

Item No	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil Kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radichem Nalgene (125 / 250 / 500 / 1L)	Radichem Nalgene (1/2 gal. / 1 gal.L)	Cubtainer (500 ml / 4L)	Ziploc	Other	Other
100	SL	→																						
002	→																							
003	→																							

October 28, 2015

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

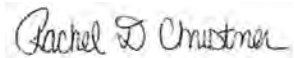
RE: Project: 99011A TCMF
Pace Project No.: 30163288

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2015. 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 99011A TCMF

Pace Project No.: 30163288

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF

Pace Project No.: 30163288

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30161737008	Composite	EPA 8082A	SJG	10	PASI-PA
		EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 8270D	DJL	18	PASI-PA
		EPA 8260C	RES	13	PASI-PA
		Dry Weight	TAW	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163288

Sample: Composite **Lab ID: 30161737008** Collected: 10/09/15 10:55 Received: 10/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Composite of Samples WC-1 0-8', WC-1 8'-12', WC-1 16'-20', WC2/WC-3 4'-8', WC-2 8'-12', and WC-2 12'-16'.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.9	1	10/22/15 11:40	10/23/15 17:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.9	1	10/22/15 11:40	10/23/15 17:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.9	1	10/22/15 11:40	10/23/15 17:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.9	1	10/22/15 11:40	10/23/15 17:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.9	1	10/22/15 11:40	10/23/15 17:41	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	17.9	1	10/22/15 11:40	10/23/15 17:41	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.9	1	10/22/15 11:40	10/23/15 17:41	11096-82-5	
PCB, Total	ND	ug/kg	126	1	10/22/15 11:40	10/23/15 17:41	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	70	%	30-107	1	10/22/15 11:40	10/23/15 17:41	877-09-8	
Decachlorobiphenyl (S)	76	%	10-115	1	10/22/15 11:40	10/23/15 17:41	2051-24-3	
6010C MET ICP, TCLP Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.050	1	10/22/15 13:44	10/23/15 09:08	7440-38-2	
Barium	ND	mg/L	1.0	1	10/22/15 13:44	10/23/15 09:08	7440-39-3	
Cadmium	0.50	mg/L	0.050	1	10/22/15 13:44	10/23/15 09:08	7440-43-9	
Chromium	ND	mg/L	0.050	1	10/22/15 13:44	10/23/15 09:08	7440-47-3	
Lead	ND	mg/L	0.10	2	10/22/15 13:44	10/23/15 09:32	7439-92-1	
Selenium	ND	mg/L	0.10	1	10/22/15 13:44	10/23/15 09:08	7782-49-2	
Silver	ND	mg/L	0.050	1	10/22/15 13:44	10/23/15 09:08	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 10/21/15 14:00 Initial pH: 7.95; Final pH: 6.58								
Mercury	ND	ug/L	1.0	1	10/22/15 12:26	10/22/15 16:04	7439-97-6	
8270D MSSV TCLP Sep Funnel Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
1,4-Dichlorobenzene	ND	ug/L	500	1	10/25/15 10:55	10/26/15 10:09	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	10/25/15 10:55	10/26/15 10:09	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	10/25/15 10:55	10/26/15 10:09	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	10/25/15 10:55	10/26/15 10:09	118-74-1	
Hexachloroethane	ND	ug/L	500	1	10/25/15 10:55	10/26/15 10:09	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	10/25/15 10:55	10/26/15 10:09	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	10/25/15 10:55	10/26/15 10:09		
Nitrobenzene	ND	ug/L	100	1	10/25/15 10:55	10/26/15 10:09	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	10/25/15 10:55	10/26/15 10:09	87-86-5	
Pyridine	ND	ug/L	500	1	10/25/15 10:55	10/26/15 10:09	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	10/25/15 10:55	10/26/15 10:09	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	10/25/15 10:55	10/26/15 10:09	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	75	%	22-128	1	10/25/15 10:55	10/26/15 10:09	4165-60-0	
2-Fluorobiphenyl (S)	77	%	34-113	1	10/25/15 10:55	10/26/15 10:09	321-60-8	
Terphenyl-d14 (S)	83	%	35-150	1	10/25/15 10:55	10/26/15 10:09	1718-51-0	
Phenol-d6 (S)	31	%	14-49	1	10/25/15 10:55	10/26/15 10:09	13127-88-3	
2-Fluorophenol (S)	49	%	19-70	1	10/25/15 10:55	10/26/15 10:09	367-12-4	
2,4,6-Tribromophenol (S)	95	%	34-134	1	10/25/15 10:55	10/26/15 10:09	118-79-6	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163288

Sample: Composite **Lab ID: 30161737008** Collected: 10/09/15 10:55 Received: 10/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Composite of Samples WC-1 0-8', WC-1 8'-12', WC-1 16'-20', WC2/WC-3 4'-8', WC-2 8'-12', and WC-2 12'-16'.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV TCLP		Analytical Method: EPA 8260C						
Benzene	ND	ug/L	50.0	1		10/22/15 19:53	71-43-2	1c
2-Butanone (MEK)	ND	ug/L	5000	1		10/22/15 19:53	78-93-3	1c
Carbon tetrachloride	ND	ug/L	50.0	1		10/22/15 19:53	56-23-5	1c
Chlorobenzene	ND	ug/L	1000	1		10/22/15 19:53	108-90-7	1c
Chloroform	ND	ug/L	500	1		10/22/15 19:53	67-66-3	1c
1,2-Dichloroethane	ND	ug/L	50.0	1		10/22/15 19:53	107-06-2	1c
1,1-Dichloroethene	ND	ug/L	50.0	1		10/22/15 19:53	75-35-4	1c
Tetrachloroethene	ND	ug/L	50.0	1		10/22/15 19:53	127-18-4	1c
Trichloroethene	ND	ug/L	50.0	1		10/22/15 19:53	79-01-6	1c
Vinyl chloride	ND	ug/L	50.0	1		10/22/15 19:53	75-01-4	1c
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	84-124	1		10/22/15 19:53	17060-07-0	1c
Toluene-d8 (S)	100	%	79-118	1		10/22/15 19:53	2037-26-5	1c
4-Bromofluorobenzene (S)	98	%	84-113	1		10/22/15 19:53	460-00-4	1c
Percent Moisture		Analytical Method: Dry Weight						
Percent Moisture	7.7	%	0.10	1		10/22/15 16:37		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163288

QC Batch:	MERP/7034	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury TCLP
Associated Lab Samples:	30161737008		

METHOD BLANK: 970981 Matrix: Water
Associated Lab Samples: 30161737008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	1.0	10/22/15 15:58	

LABORATORY CONTROL SAMPLE: 970982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	101	85-115	

MATRIX SPIKE SAMPLE: 970984

Parameter	Units	30161737008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.4	98	80-120	

SAMPLE DUPLICATE: 970983

Parameter	Units	30161737008 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: 99011A TCMF
Pace Project No.: 30163288

QC Batch: MPRP/16707 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET TCLP
Associated Lab Samples: 30161737008

METHOD BLANK: 971061 Matrix: Water
Associated Lab Samples: 30161737008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	10/23/15 08:53	
Barium	mg/L	ND	1.0	10/23/15 08:53	
Cadmium	mg/L	ND	0.050	10/23/15 08:53	
Chromium	mg/L	ND	0.050	10/23/15 08:53	
Lead	mg/L	ND	0.050	10/23/15 08:53	
Selenium	mg/L	ND	0.10	10/23/15 08:53	
Silver	mg/L	ND	0.050	10/23/15 08:53	

LABORATORY CONTROL SAMPLE: 971062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.48	96	80-120	
Barium	mg/L	.5	.51J	101	80-120	
Cadmium	mg/L	.5	0.51	101	80-120	
Chromium	mg/L	.5	0.52	105	80-120	
Lead	mg/L	.5	0.48	95	80-120	
Selenium	mg/L	.5	0.49	98	80-120	
Silver	mg/L	.25	0.25	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 971064 971065

Parameter	30161737008		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
Arsenic	mg/L	ND	.5	.5	0.55	0.58	111	115	75-125	4	
Barium	mg/L	ND	.5	.5	.98J	.96J	106	104	75-125		
Cadmium	mg/L	0.50	.5	.5	1.1	1.1	116	123	75-125	3	
Chromium	mg/L	ND	.5	.5	0.53	0.52	104	104	75-125	0	
Lead	mg/L	ND	.5	.5	0.50	0.50	100	101	75-125	1	
Selenium	mg/L	ND	.5	.5	0.56	0.58	111	117	75-125	5	
Silver	mg/L	ND	.25	.25	0.30	0.30	121	121	75-125	0	

SAMPLE DUPLICATE: 971063

Parameter	Units	30161737008 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	ND	ND		
Barium	mg/L	ND	.46J		
Cadmium	mg/L	0.50	0.52	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163288

SAMPLE DUPLICATE: 971063

Parameter	Units	30161737008 Result	Dup Result	RPD	Qualifiers
Chromium	mg/L	ND	.0042J		
Lead	mg/L	ND	ND		
Selenium	mg/L	ND	ND		
Silver	mg/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163288

QC Batch: MSV/25375

Analysis Method: EPA 8260C

QC Batch Method: EPA 8260C

Analysis Description: 8260C MSV TCLP

Associated Lab Samples: 30161737008

METHOD BLANK: 971221

Matrix: Water

Associated Lab Samples: 30161737008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	10/22/15 17:01	1c
1,2-Dichloroethane	ug/L	ND	50.0	10/22/15 17:01	1c
2-Butanone (MEK)	ug/L	ND	5000	10/22/15 17:01	1c
Benzene	ug/L	ND	50.0	10/22/15 17:01	1c
Carbon tetrachloride	ug/L	ND	50.0	10/22/15 17:01	1c
Chlorobenzene	ug/L	ND	1000	10/22/15 17:01	1c
Chloroform	ug/L	ND	500	10/22/15 17:01	1c
Tetrachloroethene	ug/L	ND	50.0	10/22/15 17:01	1c
Trichloroethene	ug/L	ND	50.0	10/22/15 17:01	1c
Vinyl chloride	ug/L	ND	50.0	10/22/15 17:01	1c
1,2-Dichloroethane-d4 (S)	%	96	77-126	10/22/15 17:01	1c
4-Bromofluorobenzene (S)	%	100	81-119	10/22/15 17:01	1c
Toluene-d8 (S)	%	100	84-115	10/22/15 17:01	1c

LABORATORY CONTROL SAMPLE: 971222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	208	104	59-133	1c
1,2-Dichloroethane	ug/L	200	187	93	66-123	1c
2-Butanone (MEK)	ug/L	200	138J	69	57-126	1c
Benzene	ug/L	200	214	107	69-115	1c
Carbon tetrachloride	ug/L	200	196	98	65-138	1c
Chlorobenzene	ug/L	200	202J	101	69-120	1c
Chloroform	ug/L	200	195J	98	67-123	1c
Tetrachloroethene	ug/L	200	204	102	62-122	1c
Trichloroethene	ug/L	200	197	99	61-126	1c
Vinyl chloride	ug/L	200	221	111	58-127	1c
1,2-Dichloroethane-d4 (S)	%			94	77-126	1c
4-Bromofluorobenzene (S)	%			101	81-119	1c
Toluene-d8 (S)	%			99	84-115	1c

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163288

QC Batch: OEXT/25772

Analysis Method: EPA 8082A

QC Batch Method: EPA 3546

Analysis Description: 8082A GCS PCB

Associated Lab Samples: 30161737008

METHOD BLANK: 970793

Matrix: Solid

Associated Lab Samples: 30161737008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	10/23/15 17:25	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	10/23/15 17:25	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	10/23/15 17:25	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	10/23/15 17:25	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	10/23/15 17:25	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	10/23/15 17:25	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	10/23/15 17:25	
Decachlorobiphenyl (S)	%	56	10-115	10/23/15 17:25	
Tetrachloro-m-xylene (S)	%	62	30-107	10/23/15 17:25	

LABORATORY CONTROL SAMPLE: 970794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	94.4	57	40-100	
PCB-1260 (Aroclor 1260)	ug/kg	167	98.3	59	41-109	
Decachlorobiphenyl (S)	%			58	10-115	
Tetrachloro-m-xylene (S)	%			63	30-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 970795

970796

Parameter	Units	30161737008		970796		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result					
PCB-1016 (Aroclor 1016)	ug/kg	ND	179	178	100	114	56	64	40-100	13
PCB-1260 (Aroclor 1260)	ug/kg	ND	179	178	95.5	109	47	55	41-109	13
Decachlorobiphenyl (S)	%						59	69	10-115	
Tetrachloro-m-xylene (S)	%						61	67	30-107	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163288

QC Batch: OEXT/25801

Analysis Method: EPA 8270D

QC Batch Method: EPA 3510C

Analysis Description: 8270D TCLP MSSV

Associated Lab Samples: 30161737008

METHOD BLANK: 971739

Matrix: Water

Associated Lab Samples: 30161737008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	10/26/15 09:49	
2,4,5-Trichlorophenol	ug/L	ND	5000	10/26/15 09:49	
2,4,6-Trichlorophenol	ug/L	ND	100	10/26/15 09:49	
2,4-Dinitrotoluene	ug/L	ND	100	10/26/15 09:49	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	10/26/15 09:49	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	10/26/15 09:49	
Hexachloro-1,3-butadiene	ug/L	ND	100	10/26/15 09:49	
Hexachlorobenzene	ug/L	ND	100	10/26/15 09:49	
Hexachloroethane	ug/L	ND	500	10/26/15 09:49	
Nitrobenzene	ug/L	ND	100	10/26/15 09:49	
Pentachlorophenol	ug/L	ND	5000	10/26/15 09:49	
Pyridine	ug/L	ND	500	10/26/15 09:49	
2,4,6-Tribromophenol (S)	%	92	34-134	10/26/15 09:49	2c
2-Fluorobiphenyl (S)	%	76	34-113	10/26/15 09:49	
2-Fluorophenol (S)	%	49	19-70	10/26/15 09:49	
Nitrobenzene-d5 (S)	%	72	22-128	10/26/15 09:49	
Phenol-d6 (S)	%	31	14-49	10/26/15 09:49	
Terphenyl-d14 (S)	%	80	35-150	10/26/15 09:49	

LABORATORY CONTROL SAMPLE: 971740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	347J	69	34-91	
2,4,5-Trichlorophenol	ug/L	500	504J	101	23-160	
2,4,6-Trichlorophenol	ug/L	500	509	102	51-127	
2,4-Dinitrotoluene	ug/L	500	402	80	46-107	
2-Methylphenol(o-Cresol)	ug/L	500	339J	68	32-116	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	652J	65	30-103	
Hexachloro-1,3-butadiene	ug/L	500	378	76	36-117	
Hexachlorobenzene	ug/L	500	413	83	53-128	
Hexachloroethane	ug/L	500	350J	70	26-110	
Nitrobenzene	ug/L	500	383	77	26-130	
Pentachlorophenol	ug/L	500	588J	118	28-131	2c
Pyridine	ug/L	500	264J	53	10-175	
2,4,6-Tribromophenol (S)	%			98	34-134	2c
2-Fluorobiphenyl (S)	%			77	34-113	
2-Fluorophenol (S)	%			48	19-70	
Nitrobenzene-d5 (S)	%			75	22-128	
Phenol-d6 (S)	%			31	14-49	
Terphenyl-d14 (S)	%			81	35-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163288

Parameter	30162644001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
1,4-Dichlorobenzene	ug/L	500 U	500	500	355J	387J	71	77	34-91					
2,4,5-Trichlorophenol	ug/L	5000 U	500	500	515J	546J	103	109	23-160					
2,4,6-Trichlorophenol	ug/L	100 U	500	500	520	542	104	108	51-127		4			
2,4-Dinitrotoluene	ug/L	100 U	500	500	400	425	80	85	46-107		6			
2-Methylphenol(o-Cresol)	ug/L	2000 U	500	500	349J	367J	70	73	32-116					
3&4-Methylphenol(m&p Cresol)	ug/L	2000 U	1000	1000	676J	710J	68	71	30-103					
Hexachloro-1,3-butadiene	ug/L	100 U	500	500	382	413	76	83	36-117		8			
Hexachlorobenzene	ug/L	100 U	500	500	419	439	84	88	53-128		5			
Hexachloroethane	ug/L	500 U	500	500	354J	384J	71	77	26-110					
Nitrobenzene	ug/L	100 U	500	500	385	411	77	82	26-130		7			
Pentachlorophenol	ug/L	5000 U	500	500	567J	598J	113	120	28-131		2c			
Pyridine	ug/L	500 U	500	500	265J	276J	53	55	10-175					
2,4,6-Tribromophenol (S)	%						102	103	34-134		2c			
2-Fluorobiphenyl (S)	%						82	84	34-113					
2-Fluorophenol (S)	%						51	53	19-70					
Nitrobenzene-d5 (S)	%						79	82	22-128					
Phenol-d6 (S)	%						33	34	14-49					
Terphenyl-d14 (S)	%						88	88	35-150					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163288

QC Batch: PMST/5695

Analysis Method: Dry Weight

QC Batch Method: Dry Weight

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 30161737008

SAMPLE DUPLICATE: 971149

Parameter	Units	30161765001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	0.12	ND		

SAMPLE DUPLICATE: 971150

Parameter	Units	30161765002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	0.54	0.58	8	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 99011A TCMF
Pace Project No.: 30163288

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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/25375

[1] A matrix spike/matrix spike duplicate was not performed for this batch.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch.

2c The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Results unaffected by high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF

Pace Project No.: 30163288

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30161737008	Composite	EPA 3546	OEXT/25772	EPA 8082A	GCSV/8760
30161737008	Composite	EPA 3005A	MPRP/16707	EPA 6010C	ICP/15872
30161737008	Composite	EPA 7470A	MERP/7034	EPA 7470A	MERC/6722
30161737008	Composite	EPA 3510C	OEXT/25801	EPA 8270D	MSSV/8355
30161737008	Composite	EPA 8260C	MSV/25375		
30161737008	Composite	Dry Weight	PMST/5695		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company: Geologic NY Inc
Address: PO Box 330
Homer NY
Email To: geologicny@geologic.net
Phone: 607-744-5204
Requested Due Date/TAT: _____

Section B
Required Project Information:

Report To: Geologic
Copy To: Susan Cummins
Purchase Order No.: 99011A
Project Name: TCHF
Project Number: 99011A

Section C
Invoice Information:

Attention: Same
Company Name: _____
Address: _____
Pace Quote Reference: _____
Pace Project Manager: _____
Pace Profile #: _____

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location STATE: NY

ITEM #	Sample ID (A-Z, 0-9 / -)	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP) (see veld codes to left)	# OF CONTAINERS	PRESERVATIVES								Analysis Test ↑	Requested Analysis Filtered (Y/N)	Residue Monitoring (Y/N)	Pace Project No./ Lab I.D.	
			COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME					DATE
1	WC-1 0-8'	SL			SL	2	X										301603288 POC 10/28/15		
2	WC-1 8-12'	SL			SL	2	X										30161737		
3	WC-1 12'-16'	SL			SL	2	X												
4	WC-1 16'-20'	SL			SL	2	X												
5	WC-2/WC-3 4'-8'	SL			SL	2	X												
6	WC-2 8'-12'	SL			SL	2	X												
7	WC-2 12'-16'	SL			SL	2	X												
8																			
9																			
10																			
11																			
12																			
ADDITIONAL COMMENTS												ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
HOLD FOR Susan Cummins												APPLY PACE		10/9/15		17:00			
TCLP CD												APPLY PACE		10/9/15		18:00		30 Y U Y	
RESULTS																			

ORIGINAL

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: Susan Cummins DATE Signed (MM/DD/YYYY): 10-9-2015
 SIGNATURE of SAMPLER: [Signature]

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Sample Condition Upon Receipt

Client Name: Geologic

Project # 30161737
30163288
10/28/15

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 774709055081

Custody Seal on Cooler/Box Present: Yes no Seals Intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 7 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 3.8 °C Correction Factor: 0.2 °C Final Temp: 3.6 °C

Date and initials of person examining contents: dlc
10/28/15

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>SL</u>			
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Initial when completed <u>dlc</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: H Westrick

Date: 10/28/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

30163288 #0128/15
~~30161737~~

page 2

Project Number:

Client Name: Geologic NY



Item No.	Matrix Code	Glass Jar (20 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem NaIgene (125 / 250 / 500 / 1L)	Radchem NaIgene (1/2 gal. / 1 galL)	Cubliner (500 ml / 4L)	Ziploc	Other	Other
001	SL	3																						
007	SL	3																						

November 09, 2015

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

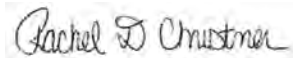
RE: Project: 99011A TCMF
Pace Project No.: 30163605

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on October 30, 2015. 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 99011A TCMF

Pace Project No.: 30163605

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF
Pace Project No.: 30163605

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30163605001	MW-2	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 8260C	JAS	71	PASI-PA
30163605002	MW-3	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 8260C	JAS	71	PASI-PA
30163605003	MW-4	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 8260C	JAS	71	PASI-PA
30163605004	MW-6	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 8260C	JAS	71	PASI-PA
30163605005	NW-07	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 8260C	JAS	71	PASI-PA
30163605006	NW-07 Duplicate	EPA 8260C	JAS	71	PASI-PA
30163605007	MW-4 Duplicate	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF
Pace Project No.: 30163605

Method: EPA 6010B
Description: 6010 MET ICP
Client: GeoLogic NY, Inc.
Date: November 09, 2015

General Information:

6 samples were analyzed for EPA 6010B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 3005A 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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: MPRP/16808

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30163680002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 977136)
 - Barium
- MSD (Lab ID: 977137)
 - Barium

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30163605

Method: EPA 7470A

Description: 7470 Mercury

Client: GeoLogic NY, Inc.

Date: November 09, 2015

General Information:

6 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 7470A 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30163605

Method: EPA 8260C

Description: 8260C MSV

Client: GeoLogic NY, Inc.

Date: November 09, 2015

General Information:

6 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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/25557

S0: Surrogate recovery outside laboratory control limits.

- MW-6 (Lab ID: 30163605004)
- Toluene-d8 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/25557

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 979575)
- Acetone

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/25557

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30163611001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 979951)
 - Acetone
- MSD (Lab ID: 979952)
 - Acetone

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30163605

Method: EPA 8260C

Description: 8260C MSV

Client: GeoLogic NY, Inc.

Date: November 09, 2015

QC Batch: MSV/25557

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30163611001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 979951)
 - 2-Chloroethylvinyl ether
- MSD (Lab ID: 979952)
 - 2-Chloroethylvinyl ether

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF
Pace Project No.: 30163605

Sample: MW-2	Lab ID: 30163605001	Collected: 10/29/15 10:35	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:33	7440-38-2	
Barium	63.7	ug/L	10.0	1	11/03/15 10:12	11/05/15 12:33	7440-39-3	
Cadmium	35.6	ug/L	3.0	1	11/03/15 10:12	11/05/15 12:33	7440-43-9	
Chromium	363	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:33	7440-47-3	
Lead	6.5	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:33	7439-92-1	
Selenium	ND	ug/L	8.0	1	11/03/15 10:12	11/05/15 12:33	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/15 10:12	11/05/15 12:33	7440-22-4	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	1	11/03/15 12:33	11/04/15 09:26	7439-97-6	
8260C MSV								
Analytical Method: EPA 8260C								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 17:19	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 17:19	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 17:19	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 17:19	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 17:19	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 17:19	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/06/15 17:19	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/15 17:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/06/15 17:19	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 17:19	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/06/15 17:19	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/15 17:19	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 17:19	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 17:19	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 17:19	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 17:19	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 17:19	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/06/15 17:19	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 17:19	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 17:19	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/15 17:19	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		11/06/15 17:19	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 17:19	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		11/06/15 17:19	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 17:19	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/15 17:19	108-10-1	
Acetone	ND	ug/L	10.0	1		11/06/15 17:19	67-64-1	L3
Benzene	ND	ug/L	1.0	1		11/06/15 17:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/06/15 17:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/06/15 17:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 17:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/15 17:19	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/15 17:19	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 17:19	75-15-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: MW-2	Lab ID: 30163605001	Collected: 10/29/15 10:35	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 17:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 17:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/15 17:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/15 17:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/15 17:19	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 17:19	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		11/06/15 17:19	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/06/15 17:19	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 17:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/06/15 17:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/15 17:19	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/15 17:19	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		11/06/15 17:19	75-09-2	
Naphthalene	ND	ug/L	2.0	1		11/06/15 17:19	91-20-3	
Styrene	ND	ug/L	1.0	1		11/06/15 17:19	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 17:19	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/15 17:19	108-88-3	
Trichloroethene	1.1	ug/L	1.0	1		11/06/15 17:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 17:19	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		11/06/15 17:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 17:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/15 17:19	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 17:19	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 17:19	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 17:19	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/15 17:19	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/15 17:19	103-65-1	
o-Xylene	ND	ug/L	1.0	1		11/06/15 17:19	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/15 17:19	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/15 17:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/06/15 17:19	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 17:19	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 17:19	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	81-119	1		11/06/15 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	77-126	1		11/06/15 17:19	17060-07-0	
Toluene-d8 (S)	86	%	84-115	1		11/06/15 17:19	2037-26-5	
Dibromofluoromethane (S)	115	%	70-130	1		11/06/15 17:19	1868-53-7	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: MW-3	Lab ID: 30163605002	Collected: 10/29/15 11:15	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010B Preparation Method: EPA 3005A								
Arsenic	9.6	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:36	7440-38-2	
Barium	113	ug/L	10.0	1	11/03/15 10:12	11/05/15 12:36	7440-39-3	
Cadmium	27.5	ug/L	3.0	1	11/03/15 10:12	11/05/15 12:36	7440-43-9	
Chromium	253	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:36	7440-47-3	
Lead	26.9	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:36	7439-92-1	
Selenium	ND	ug/L	8.0	1	11/03/15 10:12	11/05/15 12:36	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/15 10:12	11/05/15 12:36	7440-22-4	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	1	11/03/15 12:33	11/04/15 09:31	7439-97-6	
8260C MSV								
Analytical Method: EPA 8260C								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 17:45	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 17:45	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 17:45	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 17:45	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 17:45	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 17:45	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/06/15 17:45	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/15 17:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/06/15 17:45	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 17:45	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/06/15 17:45	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/15 17:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 17:45	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 17:45	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 17:45	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 17:45	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 17:45	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/06/15 17:45	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 17:45	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 17:45	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/15 17:45	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		11/06/15 17:45	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 17:45	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		11/06/15 17:45	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 17:45	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/15 17:45	108-10-1	
Acetone	ND	ug/L	10.0	1		11/06/15 17:45	67-64-1	L3
Benzene	ND	ug/L	1.0	1		11/06/15 17:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/06/15 17:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/06/15 17:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 17:45	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/15 17:45	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/15 17:45	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 17:45	75-15-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: MW-3	Lab ID: 30163605002	Collected: 10/29/15 11:15	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 17:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 17:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/15 17:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/15 17:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/15 17:45	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 17:45	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		11/06/15 17:45	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/06/15 17:45	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 17:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/06/15 17:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/15 17:45	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/15 17:45	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		11/06/15 17:45	75-09-2	
Naphthalene	ND	ug/L	2.0	1		11/06/15 17:45	91-20-3	
Styrene	ND	ug/L	1.0	1		11/06/15 17:45	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 17:45	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/15 17:45	108-88-3	
Trichloroethene	1.1	ug/L	1.0	1		11/06/15 17:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 17:45	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		11/06/15 17:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 17:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/15 17:45	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 17:45	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 17:45	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 17:45	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/15 17:45	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/15 17:45	103-65-1	
o-Xylene	ND	ug/L	1.0	1		11/06/15 17:45	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/15 17:45	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/15 17:45	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/06/15 17:45	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 17:45	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 17:45	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	81-119	1		11/06/15 17:45	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	77-126	1		11/06/15 17:45	17060-07-0	
Toluene-d8 (S)	86	%	84-115	1		11/06/15 17:45	2037-26-5	
Dibromofluoromethane (S)	115	%	70-130	1		11/06/15 17:45	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF
Pace Project No.: 30163605

Sample: MW-4	Lab ID: 30163605003	Collected: 10/29/15 15:20	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:38	7440-38-2	
Barium	63.5	ug/L	10.0	1	11/03/15 10:12	11/05/15 12:38	7440-39-3	
Cadmium	ND	ug/L	3.0	1	11/03/15 10:12	11/05/15 12:38	7440-43-9	
Chromium	13.6	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:38	7440-47-3	
Lead	ND	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:38	7439-92-1	
Selenium	9.1	ug/L	8.0	1	11/03/15 10:12	11/05/15 12:38	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/15 10:12	11/05/15 12:38	7440-22-4	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	1	11/03/15 12:33	11/04/15 09:32	7439-97-6	
8260C MSV Analytical Method: EPA 8260C								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 18:10	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 18:10	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 18:10	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 18:10	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 18:10	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 18:10	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/06/15 18:10	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/15 18:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/06/15 18:10	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 18:10	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/06/15 18:10	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/15 18:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 18:10	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 18:10	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 18:10	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 18:10	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 18:10	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/06/15 18:10	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 18:10	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 18:10	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/15 18:10	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		11/06/15 18:10	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 18:10	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		11/06/15 18:10	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 18:10	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/15 18:10	108-10-1	
Acetone	ND	ug/L	10.0	1		11/06/15 18:10	67-64-1	L3
Benzene	ND	ug/L	1.0	1		11/06/15 18:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/06/15 18:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/06/15 18:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 18:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/15 18:10	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/15 18:10	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 18:10	75-15-0	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: MW-4	Lab ID: 30163605003	Collected: 10/29/15 15:20	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 18:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 18:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/15 18:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/15 18:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/15 18:10	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 18:10	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		11/06/15 18:10	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/06/15 18:10	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 18:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/06/15 18:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/15 18:10	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/15 18:10	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		11/06/15 18:10	75-09-2	
Naphthalene	ND	ug/L	2.0	1		11/06/15 18:10	91-20-3	
Styrene	ND	ug/L	1.0	1		11/06/15 18:10	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 18:10	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/15 18:10	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		11/06/15 18:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 18:10	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		11/06/15 18:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 18:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/15 18:10	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 18:10	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 18:10	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 18:10	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/15 18:10	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/15 18:10	103-65-1	
o-Xylene	ND	ug/L	1.0	1		11/06/15 18:10	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/15 18:10	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/15 18:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/06/15 18:10	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 18:10	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 18:10	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	81-119	1		11/06/15 18:10	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	77-126	1		11/06/15 18:10	17060-07-0	
Toluene-d8 (S)	86	%	84-115	1		11/06/15 18:10	2037-26-5	
Dibromofluoromethane (S)	115	%	70-130	1		11/06/15 18:10	1868-53-7	

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ANALYTICAL RESULTS

Project: 99011A TCMF
Pace Project No.: 30163605

Sample: MW-6	Lab ID: 30163605004	Collected: 10/29/15 13:00	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010B Preparation Method: EPA 3005A								
Arsenic	11.6	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:52	7440-38-2	
Barium	171	ug/L	10.0	1	11/03/15 10:12	11/05/15 12:52	7440-39-3	
Cadmium	80.0	ug/L	3.0	1	11/03/15 10:12	11/05/15 12:52	7440-43-9	
Chromium	65.2	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:52	7440-47-3	
Lead	29.2	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:52	7439-92-1	
Selenium	9.6	ug/L	8.0	1	11/03/15 10:12	11/05/15 12:52	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/15 10:12	11/05/15 12:52	7440-22-4	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	1	11/03/15 12:33	11/04/15 09:34	7439-97-6	
8260C MSV Analytical Method: EPA 8260C								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 18:36	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 18:36	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 18:36	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 18:36	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 18:36	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 18:36	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/06/15 18:36	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/15 18:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/06/15 18:36	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 18:36	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/06/15 18:36	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/15 18:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 18:36	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 18:36	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 18:36	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 18:36	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 18:36	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/06/15 18:36	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 18:36	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 18:36	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/15 18:36	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		11/06/15 18:36	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 18:36	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		11/06/15 18:36	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 18:36	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/15 18:36	108-10-1	
Acetone	ND	ug/L	10.0	1		11/06/15 18:36	67-64-1	L3
Benzene	ND	ug/L	1.0	1		11/06/15 18:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/06/15 18:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/06/15 18:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 18:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/15 18:36	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/15 18:36	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 18:36	75-15-0	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: MW-6	Lab ID: 30163605004	Collected: 10/29/15 13:00	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 18:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 18:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/15 18:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/15 18:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/15 18:36	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 18:36	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		11/06/15 18:36	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/06/15 18:36	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 18:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/06/15 18:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/15 18:36	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/15 18:36	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		11/06/15 18:36	75-09-2	
Naphthalene	ND	ug/L	2.0	1		11/06/15 18:36	91-20-3	
Styrene	ND	ug/L	1.0	1		11/06/15 18:36	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 18:36	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/15 18:36	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		11/06/15 18:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 18:36	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		11/06/15 18:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 18:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/15 18:36	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 18:36	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 18:36	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 18:36	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/15 18:36	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/15 18:36	103-65-1	
o-Xylene	ND	ug/L	1.0	1		11/06/15 18:36	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/15 18:36	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/15 18:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/06/15 18:36	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 18:36	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 18:36	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	81-119	1		11/06/15 18:36	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	77-126	1		11/06/15 18:36	17060-07-0	
Toluene-d8 (S)	83	%	84-115	1		11/06/15 18:36	2037-26-5	S0
Dibromofluoromethane (S)	113	%	70-130	1		11/06/15 18:36	1868-53-7	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: NW-07		Lab ID: 30163605005	Collected: 10/29/15 12:30	Received: 10/30/15 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:55	7440-38-2	
Barium	50.3	ug/L	10.0	1	11/03/15 10:12	11/05/15 12:55	7440-39-3	
Cadmium	ND	ug/L	3.0	1	11/03/15 10:12	11/05/15 12:55	7440-43-9	
Chromium	45.2	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:55	7440-47-3	
Lead	ND	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:55	7439-92-1	
Selenium	ND	ug/L	8.0	1	11/03/15 10:12	11/05/15 12:55	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/15 10:12	11/05/15 12:55	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	11/03/15 12:33	11/04/15 09:36	7439-97-6	
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 19:02	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 19:02	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 19:02	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 19:02	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 19:02	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 19:02	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/06/15 19:02	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/15 19:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/06/15 19:02	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 19:02	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/06/15 19:02	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/15 19:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 19:02	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 19:02	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 19:02	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 19:02	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 19:02	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/06/15 19:02	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 19:02	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 19:02	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/15 19:02	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		11/06/15 19:02	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 19:02	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		11/06/15 19:02	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 19:02	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/15 19:02	108-10-1	
Acetone	ND	ug/L	10.0	1		11/06/15 19:02	67-64-1	L3
Benzene	ND	ug/L	1.0	1		11/06/15 19:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/06/15 19:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/06/15 19:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 19:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/15 19:02	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/15 19:02	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 19:02	75-15-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: NW-07	Lab ID: 30163605005	Collected: 10/29/15 12:30	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 19:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 19:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/15 19:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/15 19:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/15 19:02	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 19:02	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		11/06/15 19:02	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/06/15 19:02	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 19:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/06/15 19:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/15 19:02	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/15 19:02	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		11/06/15 19:02	75-09-2	
Naphthalene	ND	ug/L	2.0	1		11/06/15 19:02	91-20-3	
Styrene	ND	ug/L	1.0	1		11/06/15 19:02	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 19:02	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/15 19:02	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		11/06/15 19:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 19:02	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		11/06/15 19:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 19:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/15 19:02	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 19:02	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 19:02	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 19:02	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/15 19:02	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/15 19:02	103-65-1	
o-Xylene	ND	ug/L	1.0	1		11/06/15 19:02	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/15 19:02	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/15 19:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/06/15 19:02	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 19:02	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 19:02	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	81-119	1		11/06/15 19:02	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	77-126	1		11/06/15 19:02	17060-07-0	
Toluene-d8 (S)	87	%	84-115	1		11/06/15 19:02	2037-26-5	
Dibromofluoromethane (S)	117	%	70-130	1		11/06/15 19:02	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: NW-07 Duplicate	Lab ID: 30163605006	Collected: 10/29/15 12:30	Received: 10/30/15 09:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 19:27	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 19:27	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 19:27	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 19:27	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 19:27	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 19:27	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/06/15 19:27	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/15 19:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/06/15 19:27	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 19:27	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/06/15 19:27	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/15 19:27	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 19:27	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 19:27	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 19:27	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/15 19:27	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 19:27	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/06/15 19:27	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/06/15 19:27	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 19:27	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/15 19:27	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		11/06/15 19:27	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 19:27	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		11/06/15 19:27	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		11/06/15 19:27	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/15 19:27	108-10-1	
Acetone	ND	ug/L	10.0	1		11/06/15 19:27	67-64-1	L3
Benzene	ND	ug/L	1.0	1		11/06/15 19:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/06/15 19:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/06/15 19:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 19:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/15 19:27	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/15 19:27	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 19:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 19:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 19:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/15 19:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/15 19:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/15 19:27	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 19:27	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		11/06/15 19:27	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/06/15 19:27	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 19:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/06/15 19:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/15 19:27	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/15 19:27	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		11/06/15 19:27	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: NW-07 Duplicate		Lab ID: 30163605006		Collected: 10/29/15 12:30	Received: 10/30/15 09:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Naphthalene	ND	ug/L	2.0	1		11/06/15 19:27	91-20-3	
Styrene	ND	ug/L	1.0	1		11/06/15 19:27	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 19:27	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/15 19:27	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		11/06/15 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 19:27	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		11/06/15 19:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 19:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/15 19:27	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 19:27	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 19:27	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 19:27	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/15 19:27	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/15 19:27	103-65-1	
o-Xylene	ND	ug/L	1.0	1		11/06/15 19:27	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/15 19:27	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/15 19:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/06/15 19:27	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 19:27	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 19:27	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	81-119	1		11/06/15 19:27	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	77-126	1		11/06/15 19:27	17060-07-0	
Toluene-d8 (S)	90	%	84-115	1		11/06/15 19:27	2037-26-5	
Dibromofluoromethane (S)	114	%	70-130	1		11/06/15 19:27	1868-53-7	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30163605

Sample: MW-4 Duplicate		Lab ID: 30163605007	Collected: 10/29/15 15:20	Received: 10/30/15 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:57	7440-38-2	
Barium	67.2	ug/L	10.0	1	11/03/15 10:12	11/05/15 12:57	7440-39-3	
Cadmium	ND	ug/L	3.0	1	11/03/15 10:12	11/05/15 12:57	7440-43-9	
Chromium	13.8	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:57	7440-47-3	
Lead	5.9	ug/L	5.0	1	11/03/15 10:12	11/05/15 12:57	7439-92-1	
Selenium	ND	ug/L	8.0	1	11/03/15 10:12	11/05/15 12:57	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/15 10:12	11/05/15 12:57	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	11/03/15 12:33	11/04/15 09:37	7439-97-6	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163605

QC Batch: MERP/7073

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 30163605001, 30163605002, 30163605003, 30163605004, 30163605005, 30163605007

METHOD BLANK: 977273

Matrix: Water

Associated Lab Samples: 30163605001, 30163605002, 30163605003, 30163605004, 30163605005, 30163605007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/04/15 09:19	

LABORATORY CONTROL SAMPLE: 977274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	100	85-115	

MATRIX SPIKE SAMPLE: 977276

Parameter	Units	30163605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.6	102	80-120	

SAMPLE DUPLICATE: 977275

Parameter	Units	30163605001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 99011A TCMF
Pace Project No.: 30163605

QC Batch: MPRP/16808 Analysis Method: EPA 6010B
QC Batch Method: EPA 3005A Analysis Description: 6010 MET
Associated Lab Samples: 30163605001, 30163605002, 30163605003, 30163605004, 30163605005, 30163605007

METHOD BLANK: 977133 Matrix: Water
Associated Lab Samples: 30163605001, 30163605002, 30163605003, 30163605004, 30163605005, 30163605007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	11/05/15 12:16	
Barium	ug/L	ND	10.0	11/05/15 12:16	
Cadmium	ug/L	ND	3.0	11/05/15 12:16	
Chromium	ug/L	ND	5.0	11/05/15 12:16	
Lead	ug/L	ND	5.0	11/05/15 12:16	
Selenium	ug/L	ND	8.0	11/05/15 12:16	
Silver	ug/L	ND	6.0	11/05/15 12:16	

LABORATORY CONTROL SAMPLE: 977134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	477	95	80-120	
Barium	ug/L	500	490	98	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	466	93	80-120	
Lead	ug/L	500	476	95	80-120	
Selenium	ug/L	500	508	102	80-120	
Silver	ug/L	250	235	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 977136 977137

Parameter	Units	30163680002		MSD		MS		MSD		% Rec		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec	Limits	RPD		
Arsenic	ug/L	ND	500	500	528	531	106	106	75-125	0		
Barium	ug/L	2000	500	500	2360	2350	72	70	75-125	0	M1	
Cadmium	ug/L	ND	500	500	573	573	114	114	75-125	0		
Chromium	ug/L	ND	500	500	448	444	89	88	75-125	1		
Lead	ug/L	ND	500	500	488	488	97	97	75-125	0		
Selenium	ug/L	ND	500	500	536	536	106	106	75-125	0		
Silver	ug/L	ND	250	250	308	306	122	121	75-125	0		

SAMPLE DUPLICATE: 977135

Parameter	Units	30163680002 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND	ND		
Barium	ug/L	2000	1860	7	
Cadmium	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163605

SAMPLE DUPLICATE: 977135

Parameter	Units	30163680002 Result	Dup Result	RPD	Qualifiers
Chromium	ug/L	ND	2.8J		
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	2.6J		

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QUALITY CONTROL DATA

Project: 99011A TCMF
Pace Project No.: 30163605

QC Batch: MSV/25557 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV
Associated Lab Samples: 30163605001, 30163605002, 30163605003, 30163605004, 30163605005, 30163605006

METHOD BLANK: 979574 Matrix: Water
Associated Lab Samples: 30163605001, 30163605002, 30163605003, 30163605004, 30163605005, 30163605006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/06/15 12:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/06/15 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/06/15 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/06/15 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	11/06/15 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	11/06/15 12:11	
1,1-Dichloropropene	ug/L	ND	1.0	11/06/15 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/15 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/06/15 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/06/15 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/06/15 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/06/15 12:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/06/15 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	11/06/15 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	11/06/15 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/06/15 12:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/06/15 12:11	
1,3-Dichloropropane	ug/L	ND	1.0	11/06/15 12:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/06/15 12:11	
2,2-Dichloropropane	ug/L	ND	1.0	11/06/15 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	11/06/15 12:11	
2-Chloroethylvinyl ether	ug/L	ND	2.0	11/06/15 12:11	
2-Chlorotoluene	ug/L	ND	1.0	11/06/15 12:11	
2-Hexanone	ug/L	ND	10.0	11/06/15 12:11	
4-Chlorotoluene	ug/L	ND	1.0	11/06/15 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/06/15 12:11	
Acetone	ug/L	ND	10.0	11/06/15 12:11	
Benzene	ug/L	ND	1.0	11/06/15 12:11	
Bromobenzene	ug/L	ND	1.0	11/06/15 12:11	
Bromochloromethane	ug/L	ND	1.0	11/06/15 12:11	
Bromodichloromethane	ug/L	ND	1.0	11/06/15 12:11	
Bromoform	ug/L	ND	1.0	11/06/15 12:11	
Bromomethane	ug/L	ND	1.0	11/06/15 12:11	
Carbon disulfide	ug/L	ND	1.0	11/06/15 12:11	
Carbon tetrachloride	ug/L	ND	1.0	11/06/15 12:11	
Chlorobenzene	ug/L	ND	1.0	11/06/15 12:11	
Chloroethane	ug/L	ND	1.0	11/06/15 12:11	
Chloroform	ug/L	ND	1.0	11/06/15 12:11	
Chloromethane	ug/L	ND	1.0	11/06/15 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/06/15 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/06/15 12:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Project No.: 30163605

METHOD BLANK: 979574

Matrix: Water

Associated Lab Samples: 30163605001, 30163605002, 30163605003, 30163605004, 30163605005, 30163605006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	11/06/15 12:11	
Dibromomethane	ug/L	ND	1.0	11/06/15 12:11	
Dichlorodifluoromethane	ug/L	ND	1.0	11/06/15 12:11	
Ethylbenzene	ug/L	ND	1.0	11/06/15 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/06/15 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/06/15 12:11	
m&p-Xylene	ug/L	ND	2.0	11/06/15 12:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/06/15 12:11	
Methylene Chloride	ug/L	ND	1.0	11/06/15 12:11	
n-Butylbenzene	ug/L	ND	1.0	11/06/15 12:11	
n-Propylbenzene	ug/L	ND	1.0	11/06/15 12:11	
Naphthalene	ug/L	ND	2.0	11/06/15 12:11	
o-Xylene	ug/L	ND	1.0	11/06/15 12:11	
p-Isopropyltoluene	ug/L	ND	1.0	11/06/15 12:11	
sec-Butylbenzene	ug/L	ND	1.0	11/06/15 12:11	
Styrene	ug/L	ND	1.0	11/06/15 12:11	
tert-Butylbenzene	ug/L	ND	1.0	11/06/15 12:11	
Tetrachloroethene	ug/L	ND	1.0	11/06/15 12:11	
Toluene	ug/L	ND	1.0	11/06/15 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/06/15 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/06/15 12:11	
Trichloroethene	ug/L	ND	1.0	11/06/15 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/15 12:11	
Vinyl acetate	ug/L	ND	10.0	11/06/15 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/15 12:11	
Xylene (Total)	ug/L	ND	3.0	11/06/15 12:11	
1,2-Dichloroethane-d4 (S)	%	103	77-126	11/06/15 12:11	
4-Bromofluorobenzene (S)	%	102	81-119	11/06/15 12:11	
Dibromofluoromethane (S)	%	107	70-130	11/06/15 12:11	
Toluene-d8 (S)	%	91	84-115	11/06/15 12:11	

LABORATORY CONTROL SAMPLE: 979575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.9	99	64-124	
1,1,1-Trichloroethane	ug/L	20	21.4	107	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	90	58-128	
1,1,2-Trichloroethane	ug/L	20	19.0	95	69-120	
1,1-Dichloroethane	ug/L	20	21.4	107	66-129	
1,1-Dichloroethene	ug/L	20	21.0	105	59-133	
1,1-Dichloropropene	ug/L	20	22.2	111	66-124	
1,2,3-Trichlorobenzene	ug/L	20	19.6	98	50-156	
1,2,4-Trichlorobenzene	ug/L	20	18.4	92	32-159	
1,2,4-Trimethylbenzene	ug/L	20	18.8	94	75-128	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163605

LABORATORY CONTROL SAMPLE: 979575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	20	19.2	96	41-136	
1,2-Dibromoethane (EDB)	ug/L	20	19.6	98	66-124	
1,2-Dichlorobenzene	ug/L	20	17.5	88	67-128	
1,2-Dichloroethane	ug/L	20	20.8	104	66-123	
1,2-Dichloropropane	ug/L	20	18.2	91	69-121	
1,3,5-Trimethylbenzene	ug/L	20	18.6	93	74-125	
1,3-Dichlorobenzene	ug/L	20	17.5	88	68-121	
1,3-Dichloropropane	ug/L	20	20.2	101	73-119	
1,4-Dichlorobenzene	ug/L	20	17.6	88	70-117	
2,2-Dichloropropane	ug/L	20	22.8	114	25-144	
2-Butanone (MEK)	ug/L	20	19.7	99	57-126	
2-Chloroethylvinyl ether	ug/L	20	19.3	96	10-160	
2-Chlorotoluene	ug/L	20	18.2	91	69-119	
2-Hexanone	ug/L	20	18.4	92	57-129	
4-Chlorotoluene	ug/L	20	18.6	93	70-118	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.0	100	65-119	
Acetone	ug/L	20	24.6	123	35-113 L0	
Benzene	ug/L	20	19.8	99	69-115	
Bromobenzene	ug/L	20	17.9	90	66-122	
Bromochloromethane	ug/L	20	22.0	110	62-125	
Bromodichloromethane	ug/L	20	20.6	103	69-132	
Bromoform	ug/L	20	18.6	93	52-142	
Bromomethane	ug/L	20	16.0	80	14-151	
Carbon disulfide	ug/L	20	19.0	95	53-156	
Carbon tetrachloride	ug/L	20	21.5	108	65-138	
Chlorobenzene	ug/L	20	19.1	95	69-120	
Chloroethane	ug/L	20	21.0	105	62-134	
Chloroform	ug/L	20	20.7	103	67-123	
Chloromethane	ug/L	20	21.4	107	54-143	
cis-1,2-Dichloroethene	ug/L	20	21.9	110	66-122	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	64-125	
Dibromochloromethane	ug/L	20	19.5	97	61-135	
Dibromomethane	ug/L	20	18.8	94	61-131	
Dichlorodifluoromethane	ug/L	20	15.7	78	26-173	
Ethylbenzene	ug/L	20	19.8	99	71-116	
Hexachloro-1,3-butadiene	ug/L	20	18.9	95	44-155	
Isopropylbenzene (Cumene)	ug/L	20	18.8	94	79-121	
m&p-Xylene	ug/L	40	39.3	98	74-118	
Methyl-tert-butyl ether	ug/L	20	18.9	94	83-140	
Methylene Chloride	ug/L	20	24.5	122	56-130	
n-Butylbenzene	ug/L	20	19.1	95	64-128	
n-Propylbenzene	ug/L	20	18.6	93	70-123	
Naphthalene	ug/L	20	18.8	94	64-140	
o-Xylene	ug/L	20	20.0	100	71-119	
p-Isopropyltoluene	ug/L	20	19.6	98	68-129	
sec-Butylbenzene	ug/L	20	19.0	95	70-126	
Styrene	ug/L	20	22.0	110	71-129	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163605

LABORATORY CONTROL SAMPLE: 979575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	18.8	94	72-123	
Tetrachloroethene	ug/L	20	20.1	101	62-122	
Toluene	ug/L	20	19.5	98	70-115	
trans-1,2-Dichloroethene	ug/L	20	22.0	110	63-130	
trans-1,3-Dichloropropene	ug/L	20	19.7	98	62-122	
Trichloroethene	ug/L	20	18.8	94	61-126	
Trichlorofluoromethane	ug/L	20	20.3	101	64-133	
Vinyl acetate	ug/L		ND			
Vinyl chloride	ug/L	20	19.2	96	58-127	
Xylene (Total)	ug/L	60	59.3	99	73-118	
1,2-Dichloroethane-d4 (S)	%			104	77-126	
4-Bromofluorobenzene (S)	%			103	81-119	
Dibromofluoromethane (S)	%			107	70-130	
Toluene-d8 (S)	%			93	84-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 979951 979952

Parameter	30163611001		MS	MSD	MS		MSD	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.5	17.6	93	88	52-120	5	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.0	23.0	110	115	54-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.8	14.3	74	72	54-124	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.5	17.8	88	89	58-120	2	
1,1-Dichloroethane	ug/L	ND	20	20	22.2	22.0	111	110	55-133	1	
1,1-Dichloroethene	ug/L	ND	20	20	22.3	21.7	111	109	48-141	2	
1,1-Dichloropropene	ug/L	ND	20	20	23.6	23.2	118	116	56-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	13.9	15.0	70	75	40-123	7	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	14.4	14.2	72	71	33-130	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	14.9	15.2	74	76	69-121	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.2	14.6	81	73	23-126	10	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.9	17.8	89	89	58-115	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	14.3	14.3	71	71	57-124	0	
1,2-Dichloroethane	ug/L	ND	20	20	21.8	21.0	109	105	58-123	4	
1,2-Dichloropropane	ug/L	ND	20	20	16.8	17.1	84	85	55-125	1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	15.4	15.1	77	76	68-118	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	14.5	14.3	73	71	62-113	2	
1,3-Dichloropropane	ug/L	ND	20	20	18.0	17.9	90	90	59-120	0	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.9	14.6	75	73	61-111	3	
2,2-Dichloropropane	ug/L	ND	20	20	23.4	21.8	117	109	32-137	7	
2-Butanone (MEK)	ug/L	ND	20	20	20.0	20.5	100	103	43-128	2	
2-Chloroethylvinyl ether	ug/L	ND	20	20	ND	ND	0	0	10-175		M1
2-Chlorotoluene	ug/L	ND	20	20	15.4	15.2	77	76	58-114	1	
2-Hexanone	ug/L	ND	20	20	16.5	16.7	83	84	43-135	1	
4-Chlorotoluene	ug/L	ND	20	20	15.2	15.2	76	76	58-113	0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.3	18.8	97	94	47-123	3	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30163605

Parameter	30163611001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
Acetone	ug/L	ND	20	20	31.7	33.4	159	167	10-150	5	M0			
Benzene	ug/L	ND	20	20	17.8	18.0	89	90	63-123	1				
Bromobenzene	ug/L	ND	20	20	15.2	14.4	76	72	57-116	5				
Bromochloromethane	ug/L	ND	20	20	23.8	23.5	119	117	42-149	1				
Bromodichloromethane	ug/L	ND	20	20	18.2	18.0	91	90	55-127	1				
Bromoform	ug/L	ND	20	20	16.3	16.9	81	85	44-131	4				
Bromomethane	ug/L	ND	20	20	15.6	20.9	78	105	10-149	29				
Carbon disulfide	ug/L	ND	20	20	25.4	21.6	127	108	47-158	16				
Carbon tetrachloride	ug/L	ND	20	20	22.9	22.1	114	111	44-155	3				
Chlorobenzene	ug/L	ND	20	20	17.4	17.2	87	86	57-121	1				
Chloroethane	ug/L	ND	20	20	21.6	23.3	108	116	57-156	8				
Chloroform	ug/L	ND	20	20	21.2	21.5	106	107	56-132	1				
Chloromethane	ug/L	ND	20	20	20.4	20.9	102	104	42-163	2				
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.4	22.2	107	111	46-139	4				
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.1	17.8	85	89	55-119	4				
Dibromochloromethane	ug/L	ND	20	20	17.5	17.5	88	87	52-129	0				
Dibromomethane	ug/L	ND	20	20	17.5	17.6	87	88	52-120	1				
Dichlorodifluoromethane	ug/L	ND	20	20	14.5	16.5	73	82	10-175	13				
Ethylbenzene	ug/L	ND	20	20	18.2	18.6	91	93	70-120	2				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	11.9	13.0	60	65	29-131	9				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	15.5	15.7	77	78	71-129	1				
m&p-Xylene	ug/L	ND	40	40	36.2	36.6	91	92	70-123	1				
Methyl-tert-butyl ether	ug/L	ND	20	20	20.4	17.6	102	88	63-143	15				
Methylene Chloride	ug/L	ND	20	20	22.2	23.0	111	115	38-134	3				
n-Butylbenzene	ug/L	ND	20	20	14.8	14.6	74	73	52-123	1				
n-Propylbenzene	ug/L	ND	20	20	15.6	15.4	78	77	59-123	1				
Naphthalene	ug/L	ND	20	20	14.4	14.8	72	74	55-122	2				
o-Xylene	ug/L	ND	20	20	18.3	18.5	92	93	68-122	1				
p-Isopropyltoluene	ug/L	ND	20	20	15.3	15.7	76	78	56-125	2				
sec-Butylbenzene	ug/L	ND	20	20	15.1	15.6	75	78	57-124	3				
Styrene	ug/L	ND	20	20	20.2	20.1	101	100	49-135	1				
tert-Butylbenzene	ug/L	ND	20	20	15.2	15.1	76	76	59-121	0				
Tetrachloroethene	ug/L	ND	20	20	18.5	18.8	93	94	53-125	1				
Toluene	ug/L	ND	20	20	18.3	18.3	91	91	66-124	0				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	22.1	107	111	52-136	3				
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.4	16.9	87	84	54-118	3				
Trichloroethene	ug/L	ND	20	20	17.5	17.1	88	86	50-127	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.4	21.8	102	109	63-167	6				
Vinyl acetate	ug/L	ND			ND	ND								
Vinyl chloride	ug/L	ND	20	20	19.9	20.6	99	103	54-149	4				
Xylene (Total)	ug/L	ND	60	60	54.5	55.1	91	92	68-123	1				
1,2-Dichloroethane-d4 (S)	%						109	103	77-126					
4-Bromofluorobenzene (S)	%						95	93	81-119					
Dibromofluoromethane (S)	%						113	113	70-130					
Toluene-d8 (S)	%						90	91	84-115					

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QUALIFIERS

Project: 99011A TCMF

Pace Project No.: 30163605

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

c2 Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF
Pace Project No.: 30163605

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30163605001	MW-2	EPA 3005A	MPRP/16808	EPA 6010B	ICP/15965
30163605002	MW-3	EPA 3005A	MPRP/16808	EPA 6010B	ICP/15965
30163605003	MW-4	EPA 3005A	MPRP/16808	EPA 6010B	ICP/15965
30163605004	MW-6	EPA 3005A	MPRP/16808	EPA 6010B	ICP/15965
30163605005	NW-07	EPA 3005A	MPRP/16808	EPA 6010B	ICP/15965
30163605007	MW-4 Duplicate	EPA 3005A	MPRP/16808	EPA 6010B	ICP/15965
30163605001	MW-2	EPA 7470A	MERP/7073	EPA 7470A	MERC/6761
30163605002	MW-3	EPA 7470A	MERP/7073	EPA 7470A	MERC/6761
30163605003	MW-4	EPA 7470A	MERP/7073	EPA 7470A	MERC/6761
30163605004	MW-6	EPA 7470A	MERP/7073	EPA 7470A	MERC/6761
30163605005	NW-07	EPA 7470A	MERP/7073	EPA 7470A	MERC/6761
30163605007	MW-4 Duplicate	EPA 7470A	MERP/7073	EPA 7470A	MERC/6761
30163605001	MW-2	EPA 8260C	MSV/25557		
30163605002	MW-3	EPA 8260C	MSV/25557		
30163605003	MW-4	EPA 8260C	MSV/25557		
30163605004	MW-6	EPA 8260C	MSV/25557		
30163605005	NW-07	EPA 8260C	MSV/25557		
30163605006	NW-07 Duplicate	EPA 8260C	MSV/25557		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: <u>Geologic NY, Inc.</u>	Report To: <u>Geologic</u>	Attention: <u>Same</u>
Address: <u>PO Box 350</u>	Copy To: <u>Susan Cummins</u>	Company Name:
<u>Homer NY 13071</u>	Purchase Order No.: <u>99011A</u>	Address:
Email To: <u>geologicny@geologicny.net</u>	Project Name: <u>TCMF</u>	Pace Quote Reference:
Phone: <u>607-749-5100</u>	Project Number: <u>99011A</u>	Pace Project Manager:
Requested Due Date/TAT:		Pace Profile #:
		REGULATORY AGENCY
		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
		<input type="checkbox"/> UST <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER
		Site Location
		STATE: <u>NY</u>

Page: (of)

1880877

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	SAMPLE CONDITIONS		
					COMPOSITE START	COMPOSITE END/GRAB											
1	SAMPLE ID (A-Z, 0-9 / -)	Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	WT			DATE	TIME		Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₃ Methanol Other								
2	MW-2		WT		10-29-15	10:35	4	X			10-29-15	11:05	10-29-15	16:05			
3	MW-3		WT		10-29-15	11:15	4	X			10-29-15	17:00	10-29-15	17:00			
4	MW-4		WT		10-29-15	13:00	4	X			10-29-15	18:30	10-30-15	09:05	Y	Y	Y
5	MW-5		WT		10-29-15	12:30	4	X			10-29-15	15:20	10-30-15	09:05	Y	Y	Y
6	NW-07 Duplicate		WT		10-29-15	18:30	3	X			10-29-15	15:20	10-30-15	09:05	Y	Y	Y
7	MW-4 Duplicate		WT		10-29-15	15:20	1	X			10-29-15	15:20	10-30-15	09:05	Y	Y	Y
8																	
9																	
10																	
11																	
12																	

30163605

Pace Project No./ Lab I.D.

Residual Chlorine (Y/N)

Requested Analysis Filtered (Y/N)

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Susan Cummins
 SIGNATURE of SAMPLER: Susan Cummins
 DATE Signed (MM/DD/YY): 10-29-15

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Sample Condition Upon Receipt

RTB

Client Name: Geologic NY

Project # 30163605

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 774860422287

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap Bubble Bags _____ None _____ Other _____

Thermometer Used 8 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 2.3 °C Correction Factor: +0.2 °C Final Temp: 25 °C

Date and Initials of person examining contents: 10-30-15 NTV

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>(VOA)</u> coliform, TOC, O&G, Phenols	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No ^{NTV 10-30-15}	Initial when completed <u>NTV</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 11/2/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Project Number: 30163605

Client Name: Geologic NY



Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil Kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y	N	O & G (1L)	TPH (1L)	VOA (40 ml / 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem NaIgene (125 / 250 / 500 / 1L)	Radchem NaIgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT									←															
005	WT									←															
006	WT									←															
007																									

November 10, 2015

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

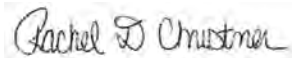
RE: Project: TCMF-99011A
Pace Project No.: 30164015

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2015. 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TCMF-99011A
Pace Project No.: 30164015

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE ANALYTE COUNT

Project: TCMF-99011A

Pace Project No.: 30164015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30164015001	Outfall 003-Tank	EPA 8260C	JEW	13	PASI-PA
30164015002	Outfall 003-Tank	EPA 8082A	SJG	10	PASI-PA
		EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 8270D	DJL	18	PASI-PA
		Dry Weight	TAW	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-99011A

Pace Project No.: 30164015

Sample: Outfall 003-Tank **Lab ID: 30164015001** Collected: 11/03/15 11:30 Received: 11/04/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV TCLP		Analytical Method: EPA 8260C						
Benzene	ND	ug/L	50.0	1		11/09/15 15:53	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		11/09/15 15:53	78-93-3	M1
Carbon tetrachloride	ND	ug/L	50.0	1		11/09/15 15:53	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		11/09/15 15:53	108-90-7	
Chloroform	ND	ug/L	500	1		11/09/15 15:53	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		11/09/15 15:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		11/09/15 15:53	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		11/09/15 15:53	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		11/09/15 15:53	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		11/09/15 15:53	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	77-126	1		11/09/15 15:53	17060-07-0	
Toluene-d8 (S)	95	%	84-115	1		11/09/15 15:53	2037-26-5	
4-Bromofluorobenzene (S)	97	%	81-119	1		11/09/15 15:53	460-00-4	

Sample: Outfall 003-Tank **Lab ID: 30164015002** Collected: 11/03/15 11:30 Received: 11/04/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB		Analytical Method: EPA 8082A Preparation Method: EPA 3546						
PCB-1016 (Aroclor 1016)	ND	ug/kg	1500	5	11/05/15 11:00	11/09/15 15:32	12674-11-2	CH
PCB-1221 (Aroclor 1221)	ND	ug/kg	1500	5	11/05/15 11:00	11/09/15 15:32	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1500	5	11/05/15 11:00	11/09/15 15:32	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1500	5	11/05/15 11:00	11/09/15 15:32	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1500	5	11/05/15 11:00	11/09/15 15:32	12672-29-6	
PCB-1254 (Aroclor 1254)	1640	ug/kg	1500	5	11/05/15 11:00	11/09/15 15:32	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1500	5	11/05/15 11:00	11/09/15 15:32	11096-82-5	M1,R1
PCB, Total	ND	ug/kg	10500	5	11/05/15 11:00	11/09/15 15:32	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	59	%	30-107	5	11/05/15 11:00	11/09/15 15:32	877-09-8	
Decachlorobiphenyl (S)	71	%	10-115	5	11/05/15 11:00	11/09/15 15:32	2051-24-3	CL

6010C MET ICP, TCLP Analytical Method: EPA 6010C Preparation Method: EPA 3005A

Arsenic	ND	mg/L	0.050	1	11/08/15 19:26	11/09/15 10:15	7440-38-2	
Barium	ND	mg/L	1.0	1	11/08/15 19:26	11/09/15 10:15	7440-39-3	
Cadmium	0.15	mg/L	0.050	1	11/08/15 19:26	11/09/15 10:15	7440-43-9	
Chromium	ND	mg/L	0.050	1	11/08/15 19:26	11/09/15 10:15	7440-47-3	
Lead	ND	mg/L	0.050	1	11/08/15 19:26	11/09/15 10:15	7439-92-1	
Selenium	ND	mg/L	0.10	1	11/08/15 19:26	11/09/15 10:15	7782-49-2	
Silver	ND	mg/L	0.050	1	11/08/15 19:26	11/09/15 10:15	7440-22-4	

7470 Mercury, TCLP Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Leachate Method/Date: EPA 1311; 11/06/15 14:05 Initial pH: 8.45; Final pH: 5.44

Mercury	ND	ug/L	1.0	1	11/08/15 21:56	11/09/15 13:06	7439-97-6	
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-99011A

Pace Project No.: 30164015

Sample: Outfall 003-Tank **Lab ID: 30164015002** Collected: 11/03/15 11:30 Received: 11/04/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV TCLP Sep Funnel		Analytical Method: EPA 8270D Preparation Method: EPA 3510C						
1,4-Dichlorobenzene	ND	ug/L	500	1	11/08/15 14:00	11/09/15 01:41	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	11/08/15 14:00	11/09/15 01:41	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	11/08/15 14:00	11/09/15 01:41	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	11/08/15 14:00	11/09/15 01:41	118-74-1	
Hexachloroethane	ND	ug/L	500	1	11/08/15 14:00	11/09/15 01:41	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	11/08/15 14:00	11/09/15 01:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	11/08/15 14:00	11/09/15 01:41		
Nitrobenzene	ND	ug/L	100	1	11/08/15 14:00	11/09/15 01:41	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	11/08/15 14:00	11/09/15 01:41	87-86-5	
Pyridine	ND	ug/L	500	1	11/08/15 14:00	11/09/15 01:41	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	11/08/15 14:00	11/09/15 01:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	11/08/15 14:00	11/09/15 01:41	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	65	%	22-128	1	11/08/15 14:00	11/09/15 01:41	4165-60-0	
2-Fluorobiphenyl (S)	74	%	34-113	1	11/08/15 14:00	11/09/15 01:41	321-60-8	
Terphenyl-d14 (S)	111	%	35-150	1	11/08/15 14:00	11/09/15 01:41	1718-51-0	
Phenol-d6 (S)	30	%	14-49	1	11/08/15 14:00	11/09/15 01:41	13127-88-3	
2-Fluorophenol (S)	47	%	19-70	1	11/08/15 14:00	11/09/15 01:41	367-12-4	
2,4,6-Tribromophenol (S)	63	%	34-134	1	11/08/15 14:00	11/09/15 01:41	118-79-6	
Percent Moisture		Analytical Method: Dry Weight						
Percent Moisture	84.3	%	0.10	1		11/06/15 10:45		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-99011A
Pace Project No.: 30164015

QC Batch: MERP/7100 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 30164015002

METHOD BLANK: 980491 Matrix: Water
Associated Lab Samples: 30164015002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	1.0	11/09/15 12:48	

LABORATORY CONTROL SAMPLE: 980492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	.97J	97	85-115	

MATRIX SPIKE SAMPLE: 980494

Parameter	Units	30163978001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.3	91	80-120	

SAMPLE DUPLICATE: 980493

Parameter	Units	30163978001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-99011A
Pace Project No.: 30164015

QC Batch: MPRP/16875 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET TCLP
Associated Lab Samples: 30164015002

METHOD BLANK: 980454 Matrix: Water
Associated Lab Samples: 30164015002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	11/09/15 09:52	
Barium	mg/L	ND	1.0	11/09/15 09:52	
Cadmium	mg/L	ND	0.050	11/09/15 09:52	
Chromium	mg/L	ND	0.050	11/09/15 09:52	
Lead	mg/L	ND	0.050	11/09/15 09:52	
Selenium	mg/L	ND	0.10	11/09/15 09:52	
Silver	mg/L	ND	0.050	11/09/15 09:52	

LABORATORY CONTROL SAMPLE: 980455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.49	97	80-120	
Barium	mg/L	.5	.52J	104	80-120	
Cadmium	mg/L	.5	0.51	102	80-120	
Chromium	mg/L	.5	0.50	100	80-120	
Lead	mg/L	.5	0.49	99	80-120	
Selenium	mg/L	.5	0.50	101	80-120	
Silver	mg/L	.25	0.25	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 980457 980458

Parameter	Units	30163902001		MSD		MS		MSD		% Rec		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec	Limits	RPD		
Arsenic	mg/L	ND	.5	.5	0.54	0.53	106	104	75-125	2		
Barium	mg/L	ND	.5	.5	.58J	.57J	91	88	75-125			
Cadmium	mg/L	ND	.5	.5	0.53	0.52	106	104	75-125	2		
Chromium	mg/L	ND	.5	.5	0.51	0.48	100	96	75-125	4		
Lead	mg/L	ND	.5	.5	0.49	0.48	98	96	75-125	2		
Selenium	mg/L	ND	.5	.5	0.56	0.55	110	109	75-125	1		
Silver	mg/L	ND	.25	.25	0.28	0.27	111	109	75-125	2		

SAMPLE DUPLICATE: 980456

Parameter	Units	30163902001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	ND	.004J		
Barium	mg/L	ND	.13J		
Cadmium	mg/L	ND	.0034J		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-99011A

Pace Project No.: 30164015

SAMPLE DUPLICATE: 980456

Parameter	Units	30163902001 Result	Dup Result	RPD	Qualifiers
Chromium	mg/L	ND	.0043J		
Lead	mg/L	ND	ND		
Selenium	mg/L	ND	.007J		
Silver	mg/L	ND	ND		

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QUALITY CONTROL DATA

Project: TCMF-99011A
Pace Project No.: 30164015

QC Batch: MSV/25588 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV TCLP
Associated Lab Samples: 30164015001

METHOD BLANK: 980393 Matrix: Water
Associated Lab Samples: 30164015001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	11/09/15 10:33	
1,2-Dichloroethane	ug/L	ND	50.0	11/09/15 10:33	
2-Butanone (MEK)	ug/L	ND	5000	11/09/15 10:33	
Benzene	ug/L	ND	50.0	11/09/15 10:33	
Carbon tetrachloride	ug/L	ND	50.0	11/09/15 10:33	
Chlorobenzene	ug/L	ND	1000	11/09/15 10:33	
Chloroform	ug/L	ND	500	11/09/15 10:33	
Tetrachloroethene	ug/L	ND	50.0	11/09/15 10:33	
Trichloroethene	ug/L	ND	50.0	11/09/15 10:33	
Vinyl chloride	ug/L	ND	50.0	11/09/15 10:33	
1,2-Dichloroethane-d4 (S)	%	93	77-126	11/09/15 10:33	
4-Bromofluorobenzene (S)	%	99	81-119	11/09/15 10:33	
Toluene-d8 (S)	%	96	84-115	11/09/15 10:33	

LABORATORY CONTROL SAMPLE: 980394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	230	115	59-133	
1,2-Dichloroethane	ug/L	200	186	93	66-123	
2-Butanone (MEK)	ug/L	200	224J	112	57-126	
Benzene	ug/L	200	214	107	69-115	
Carbon tetrachloride	ug/L	200	205	103	65-138	
Chlorobenzene	ug/L	200	195J	98	69-120	
Chloroform	ug/L	200	199J	99	67-123	
Tetrachloroethene	ug/L	200	202	101	62-122	
Trichloroethene	ug/L	200	203	102	61-126	
Vinyl chloride	ug/L	200	153	76	58-127	
1,2-Dichloroethane-d4 (S)	%			89	77-126	
4-Bromofluorobenzene (S)	%			97	81-119	
Toluene-d8 (S)	%			97	84-115	

MATRIX SPIKE SAMPLE: 980395

Parameter	Units	30164015001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	200	167	83	48-141	
1,2-Dichloroethane	ug/L	ND	200	150	75	58-123	
2-Butanone (MEK)	ug/L	ND	200	802J	-225	43-128 M1	
Benzene	ug/L	ND	200	168	84	63-123	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-99011A

Pace Project No.: 30164015

MATRIX SPIKE SAMPLE:		980395					
Parameter	Units	30164015001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	ND	200	133	66	44-155	
Chlorobenzene	ug/L	ND	200	154J	59	57-121	
Chloroform	ug/L	ND	200	146J	73	56-132	
Tetrachloroethene	ug/L	ND	200	114	55	53-125	
Trichloroethene	ug/L	ND	200	157	68	50-127	
Vinyl chloride	ug/L	ND	200	149	75	54-149	
1,2-Dichloroethane-d4 (S)	%				95	77-126	
4-Bromofluorobenzene (S)	%				94	81-119	
Toluene-d8 (S)	%				99	84-115	

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QUALITY CONTROL DATA

Project: TCMF-99011A
Pace Project No.: 30164015

QC Batch: OEXT/25959 Analysis Method: EPA 8082A
QC Batch Method: EPA 3546 Analysis Description: 8082A GCS PCB
Associated Lab Samples: 30164015002

METHOD BLANK: 978498 Matrix: Solid
Associated Lab Samples: 30164015002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	11/09/15 14:59	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	11/09/15 14:59	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	11/09/15 14:59	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	11/09/15 14:59	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	11/09/15 14:59	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	11/09/15 14:59	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	11/09/15 14:59	
Decachlorobiphenyl (S)	%	61	10-115	11/09/15 14:59	CL
Tetrachloro-m-xylene (S)	%	69	30-107	11/09/15 14:59	

LABORATORY CONTROL SAMPLE: 978499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	93.4	56	40-100	CH
PCB-1260 (Aroclor 1260)	ug/kg	167	87.6	53	41-109	
Decachlorobiphenyl (S)	%			57	10-115	CL
Tetrachloro-m-xylene (S)	%			63	30-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 978500 978501

Parameter	Units	30164015002		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MSD Result	MS % Rec	MSD % Rec				
PCB-1016 (Aroclor 1016)	ug/kg	ND	3040	3090	2620	2510	86	81	40-100	4	CH	
PCB-1260 (Aroclor 1260)	ug/kg	ND	3040	3090	5060	3380	167	109	41-109	40	M1,R1	
Decachlorobiphenyl (S)	%						72	76	10-115		CL	
Tetrachloro-m-xylene (S)	%						53	68	30-107		CH	

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QUALITY CONTROL DATA

Project: TCMF-99011A
Pace Project No.: 30164015

QC Batch: OEXT/25999 Analysis Method: EPA 8270D
QC Batch Method: EPA 3510C Analysis Description: 8270D TCLP MSSV
Associated Lab Samples: 30164015002

METHOD BLANK: 980403 Matrix: Water
Associated Lab Samples: 30164015002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	11/08/15 23:59	
2,4,5-Trichlorophenol	ug/L	ND	5000	11/08/15 23:59	
2,4,6-Trichlorophenol	ug/L	ND	100	11/08/15 23:59	
2,4-Dinitrotoluene	ug/L	ND	100	11/08/15 23:59	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	11/08/15 23:59	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	11/08/15 23:59	
Hexachloro-1,3-butadiene	ug/L	ND	100	11/08/15 23:59	
Hexachlorobenzene	ug/L	ND	100	11/08/15 23:59	
Hexachloroethane	ug/L	ND	500	11/08/15 23:59	
Nitrobenzene	ug/L	ND	100	11/08/15 23:59	
Pentachlorophenol	ug/L	ND	5000	11/08/15 23:59	
Pyridine	ug/L	ND	500	11/08/15 23:59	
2,4,6-Tribromophenol (S)	%	69	34-134	11/08/15 23:59	
2-Fluorobiphenyl (S)	%	68	34-113	11/08/15 23:59	
2-Fluorophenol (S)	%	61	19-70	11/08/15 23:59	
Nitrobenzene-d5 (S)	%	66	22-128	11/08/15 23:59	
Phenol-d6 (S)	%	32	14-49	11/08/15 23:59	
Terphenyl-d14 (S)	%	101	35-150	11/08/15 23:59	

LABORATORY CONTROL SAMPLE: 980404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	333J	67	34-91	
2,4,5-Trichlorophenol	ug/L	500	380J	76	23-160	
2,4,6-Trichlorophenol	ug/L	500	352	70	51-127	
2,4-Dinitrotoluene	ug/L	500	300	60	46-107	
2-Methylphenol(o-Cresol)	ug/L	500	330J	66	32-116	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	646J	65	30-103	
Hexachloro-1,3-butadiene	ug/L	500	354	71	36-117	
Hexachlorobenzene	ug/L	500	417	83	53-128	
Hexachloroethane	ug/L	500	300J	60	26-110	
Nitrobenzene	ug/L	500	356	71	26-130	
Pentachlorophenol	ug/L	500	300J	60	28-131	
Pyridine	ug/L	500	279J	56	10-175	
2,4,6-Tribromophenol (S)	%			70	34-134	
2-Fluorobiphenyl (S)	%			78	34-113	
2-Fluorophenol (S)	%			62	19-70	
Nitrobenzene-d5 (S)	%			69	22-128	
Phenol-d6 (S)	%			32	14-49	
Terphenyl-d14 (S)	%			95	35-150	

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QUALITY CONTROL DATA

Project: TCMF-99011A

Pace Project No.: 30164015

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 980405			980406			MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	30164015002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
1,4-Dichlorobenzene	ug/L	ND	500	500	303J	327J	61	65	34-91		
2,4,5-Trichlorophenol	ug/L	ND	500	500	396J	390J	79	78	23-160		
2,4,6-Trichlorophenol	ug/L	ND	500	500	352	375	70	75	51-127	7	
2,4-Dinitrotoluene	ug/L	ND	500	500	311	341	62	68	46-107	9	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	268J	342J	54	68	32-116		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	1000	530J	664J	53	66	30-103		
Hexachloro-1,3-butadiene	ug/L	ND	500	500	314	338	63	68	36-117	7	
Hexachlorobenzene	ug/L	ND	500	500	419	444	84	89	53-128	6	
Hexachloroethane	ug/L	ND	500	500	224J	288J	45	58	26-110		
Nitrobenzene	ug/L	ND	500	500	359	402	72	80	26-130	11	
Pentachlorophenol	ug/L	ND	500	500	279J	300J	56	60	28-131		
Pyridine	ug/L	ND	500	500	244J	303J	49	61	10-175		
2,4,6-Tribromophenol (S)	%						75	78	34-134		
2-Fluorobiphenyl (S)	%						77	79	34-113		
2-Fluorophenol (S)	%						49	58	19-70		
Nitrobenzene-d5 (S)	%						70	73	22-128		
Phenol-d6 (S)	%						34	37	14-49		
Terphenyl-d14 (S)	%						96	113	35-150		

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QUALITY CONTROL DATA

Project: TCMF-99011A

Pace Project No.: 30164015

QC Batch: PMST/5734

Analysis Method: Dry Weight

QC Batch Method: Dry Weight

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 30164015002

SAMPLE DUPLICATE: 979355

Parameter	Units	30163198001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	7.2	8.2	14	

SAMPLE DUPLICATE: 979356

Parameter	Units	30163899001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.3	21.3	5	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: TCMF-99011A
Pace Project No.: 30164015

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TCMF-99011A

Pace Project No.: 30164015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30164015002	Outfall 003-Tank	EPA 3546	OEXT/25959	EPA 8082A	GCSV/8819
30164015002	Outfall 003-Tank	EPA 3005A	MPRP/16875	EPA 6010C	ICP/16020
30164015002	Outfall 003-Tank	EPA 7470A	MERP/7100	EPA 7470A	MERC/6785
30164015002	Outfall 003-Tank	EPA 3510C	OEXT/25999	EPA 8270D	MSSV/8431
30164015001	Outfall 003-Tank	EPA 8260C	MSV/25588		
30164015002	Outfall 003-Tank	Dry Weight	PMST/5734		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information:

Company: Geologic NY Inc
 Address: PO Box 330
Homer NY
 Email To: geologicny@geologic.net
 Phone: 607-749-8000 Fax:
 Requested Due Date/TAT: _____

Section B Required Project Information:

Report To: SAMX
 Copy To: Susan Cummins
 Purchase Order No.: 99011A
 Project Name: TOMF-99011A
 Project Number: 99011A

Section C Invoice Information:

Attention: SAMX
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location: _____
 STATE: NY

Page: 1 of 1
1882008

ITEM #	Section D Required Client Information		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives	ACCEPTED BY / AFFILIATION	RELINQUISHED BY / AFFILIATION		ADDITIONAL COMMENTS		Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.	
	Matrix Codes MATRIX / CODE	MATRIX / CODE	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME	DATE	TIME			DATE	TIME	DATE	TIME	DATE	TIME	Temp In °C	Received on Ice (Y/N)			Custody Sealed Cooler (Y/N)
1	Drinking Water	DW			11-3-15	1130			Unpreserved	<u>Analysis Test ↑</u>											
2	Waste Water	WW			11-3-15	1130			H ₂ SO ₄												
3	Product	P							HCl												
4	Soil/Solid	SL							NaOH												
5	Oil	OL							Na ₂ S ₂ O ₃												
6	Wipe	WP							Methanol												
7	Air	AR							Other												
8	Tissue	TS																			
9	Other	OT																			
10																					
11																					
12																					

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Susan Cummins
 SIGNATURE of SAMPLER: *Susan Cummins*

DATE Signed (MM/DD/YY): 11-3-15
 DATE Signed (MM/DD/YY): 11-3-15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days



Sample Condition Upon Receipt

RTB

Client Name: Geologic NY

Project # 30164015

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 774891804211

Custody Seal on Cooler/Box Present: yes no ¹¹⁻⁴⁻¹⁵ Seals intact: yes no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap _____ Bubble Bags None _____ Other _____

Thermometer Used 7 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 0.6 °C Correction Factor: +0.4 °C Final Temp: 1.0 °C

Date and Initials of person examining contents: 11-4-15
MSV

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>MSV</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 11/5/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Project Number: 30164015

Client Name: Biologic NY



Item No.	Matrix Code	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y	N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubtainer (500 ml / 4L)	Ziploc	Other	Other
100	75																							
200	75	2																						

November 20, 2015

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

RE: Project: TCMF 99011A
Pace Project No.: 30164016

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2015. 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,



Samantha Bayura for
Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TCMF 99011A

Pace Project No.: 30164016

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TCMF 99011A

Pace Project No.: 30164016

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30164016001	Outfall 003-Tank	EPA 8082A	SJG	10	PASI-PA
		EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 8270D	DJL	18	PASI-PA
		EPA 8260C	MAK	14	PASI-PA
		Dry Weight	TAW	1	PASI-PA
		EPA 1010	BMS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF 99011A
Pace Project No.: 30164016

Sample: Outfall 003-Tank **Lab ID: 30164016001** Collected: 11/03/15 11:30 Received: 11/04/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB								
Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	2660	10	11/13/15 15:42	11/14/15 21:05	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND	ug/kg	2660	10	11/13/15 15:42	11/14/15 21:05	11104-28-2	D3
PCB-1232 (Aroclor 1232)	ND	ug/kg	2660	10	11/13/15 15:42	11/14/15 21:05	11141-16-5	D3
PCB-1242 (Aroclor 1242)	ND	ug/kg	2660	10	11/13/15 15:42	11/14/15 21:05	53469-21-9	D3
PCB-1248 (Aroclor 1248)	ND	ug/kg	2660	10	11/13/15 15:42	11/14/15 21:05	12672-29-6	D3
PCB-1254 (Aroclor 1254)	ND	ug/kg	2660	10	11/13/15 15:42	11/14/15 21:05	11097-69-1	D3
PCB-1260 (Aroclor 1260)	ND	ug/kg	2660	10	11/13/15 15:42	11/14/15 21:05	11096-82-5	D3
PCB, Total	ND	ug/kg	18600	10	11/13/15 15:42	11/14/15 21:05	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	57	%	30-107	10	11/13/15 15:42	11/14/15 21:05	877-09-8	
Decachlorobiphenyl (S)	53	%	10-115	10	11/13/15 15:42	11/14/15 21:05	2051-24-3	
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.050	1	11/12/15 13:00	11/13/15 12:11	7440-38-2	
Barium	1.1	mg/L	1.0	1	11/12/15 13:00	11/13/15 09:30	7440-39-3	
Cadmium	ND	mg/L	0.050	1	11/12/15 13:00	11/13/15 09:30	7440-43-9	
Chromium	ND	mg/L	0.050	1	11/12/15 13:00	11/13/15 09:30	7440-47-3	
Lead	ND	mg/L	0.10	2	11/12/15 13:00	11/13/15 10:26	7439-92-1	
Selenium	ND	mg/L	0.10	1	11/12/15 13:00	11/13/15 09:30	7782-49-2	
Silver	ND	mg/L	0.050	1	11/12/15 13:00	11/13/15 09:30	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 11/11/15 14:30 Initial pH: 7.65; Final pH: 6.33								
Mercury	ND	ug/L	1.0	1	11/12/15 13:02	11/13/15 11:08	7439-97-6	
8270D MSSV TCLP Sep Funnel								
Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
1,4-Dichlorobenzene	ND	ug/L	500	1	11/13/15 09:20	11/16/15 14:27	106-46-7	L3,L5
2,4-Dinitrotoluene	ND	ug/L	100	1	11/13/15 09:20	11/16/15 14:27	121-14-2	L3,L5
Hexachloro-1,3-butadiene	ND	ug/L	100	1	11/13/15 09:20	11/16/15 14:27	87-68-3	L3,L5
Hexachlorobenzene	ND	ug/L	100	1	11/13/15 09:20	11/16/15 14:27	118-74-1	
Hexachloroethane	ND	ug/L	500	1	11/13/15 09:20	11/16/15 14:27	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	11/13/15 09:20	11/16/15 14:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	11/13/15 09:20	11/16/15 14:27		L3,L5
Nitrobenzene	ND	ug/L	100	1	11/13/15 09:20	11/16/15 14:27	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	11/13/15 09:20	11/16/15 14:27	87-86-5	
Pyridine	ND	ug/L	500	1	11/13/15 09:20	11/16/15 14:27	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	11/13/15 09:20	11/16/15 14:27	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	11/13/15 09:20	11/16/15 14:27	88-06-2	L3,L5
Surrogates								
Nitrobenzene-d5 (S)	85	%	22-128	1	11/13/15 09:20	11/16/15 14:27	4165-60-0	
2-Fluorobiphenyl (S)	85	%	34-113	1	11/13/15 09:20	11/16/15 14:27	321-60-8	
Terphenyl-d14 (S)	100	%	35-150	1	11/13/15 09:20	11/16/15 14:27	1718-51-0	
Phenol-d6 (S)	34	%	14-49	1	11/13/15 09:20	11/16/15 14:27	13127-88-3	
2-Fluorophenol (S)	52	%	19-70	1	11/13/15 09:20	11/16/15 14:27	367-12-4	
2,4,6-Tribromophenol (S)	95	%	34-134	1	11/13/15 09:20	11/16/15 14:27	118-79-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF 99011A

Pace Project No.: 30164016

Sample: Outfall 003-Tank **Lab ID: 30164016001** Collected: 11/03/15 11:30 Received: 11/04/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV TCLP		Analytical Method: EPA 8260C						
Benzene	ND	ug/L	50.0	10		11/15/15 14:45	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	10		11/15/15 14:45	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	10		11/15/15 14:45	56-23-5	
Chlorobenzene	ND	ug/L	1000	10		11/15/15 14:45	108-90-7	
Chloroform	ND	ug/L	500	10		11/15/15 14:45	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	10		11/15/15 14:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		11/15/15 14:45	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	10		11/15/15 14:45	127-18-4	
Trichloroethene	ND	ug/L	50.0	10		11/15/15 14:45	79-01-6	
Vinyl chloride	ND	ug/L	50.0	10		11/15/15 14:45	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	77-126	10		11/15/15 14:45	17060-07-0	
Toluene-d8 (S)	97	%	84-115	10		11/15/15 14:45	2037-26-5	
4-Bromofluorobenzene (S)	96	%	81-119	10		11/15/15 14:45	460-00-4	
Dibromofluoromethane (S)	95	%	70-130	10		11/15/15 14:45	1868-53-7	
Percent Moisture		Analytical Method: Dry Weight						
Percent Moisture	81.9	%	0.10	1		11/20/15 07:51		
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200	deg F	60.0	1		11/13/15 17:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A

Pace Project No.: 30164016

QC Batch:	MERP/7113	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury TCLP
Associated Lab Samples:	30164016001		

METHOD BLANK: 982662 Matrix: Water
Associated Lab Samples: 30164016001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	1.0	11/13/15 09:28	

LABORATORY CONTROL SAMPLE: 982663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.1	114	85-115	

MATRIX SPIKE SAMPLE: 982665

Parameter	Units	30164758001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1.0 U	2.5	2.9	115	80-120	

MATRIX SPIKE SAMPLE: 982667

Parameter	Units	30164534005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.7	108	80-120	

SAMPLE DUPLICATE: 982664

Parameter	Units	30164758001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	1.0 U	ND		

SAMPLE DUPLICATE: 982666

Parameter	Units	30164534005 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A

Pace Project No.: 30164016

QC Batch: MPRP/16912

Analysis Method: EPA 6010C

QC Batch Method: EPA 3005A

Analysis Description: 6010C MET TCLP

Associated Lab Samples: 30164016001

METHOD BLANK: 982712

Matrix: Water

Associated Lab Samples: 30164016001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	11/13/15 12:02	
Barium	mg/L	ND	1.0	11/13/15 09:21	
Cadmium	mg/L	ND	0.050	11/13/15 09:21	
Chromium	mg/L	ND	0.050	11/13/15 09:21	
Lead	mg/L	ND	0.050	11/13/15 09:21	
Selenium	mg/L	ND	0.10	11/13/15 09:21	
Silver	mg/L	ND	0.050	11/13/15 09:21	

LABORATORY CONTROL SAMPLE: 982713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.48	96	80-120	
Barium	mg/L	.5	.47J	94	80-120	
Cadmium	mg/L	.5	0.48	96	80-120	
Chromium	mg/L	.5	0.47	94	80-120	
Lead	mg/L	.5	0.46	92	80-120	
Selenium	mg/L	.5	0.48	96	80-120	
Silver	mg/L	.25	0.23	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 982715

982716

Parameter	30164016001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
Arsenic	mg/L	ND	.5	.5	0.57	0.56	112	112	75-125	0	
Barium	mg/L	1.1	.5	.5	1.6	1.7	99	107	75-125	2	
Cadmium	mg/L	ND	.5	.5	0.56	0.56	110	111	75-125	1	
Chromium	mg/L	ND	.5	.5	0.50	0.50	97	98	75-125	0	
Lead	mg/L	ND	.5	.5	0.50	0.50	100	101	75-125	1	
Selenium	mg/L	ND	.5	.5	0.57	0.57	113	114	75-125	1	
Silver	mg/L	ND	.25	.25	0.29	0.28	115	113	75-125	2	

SAMPLE DUPLICATE: 982714

Parameter	Units	30164016001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	ND	ND		
Barium	mg/L	1.1	1.1	0	
Cadmium	mg/L	ND	.0069J		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A

Pace Project No.: 30164016

SAMPLE DUPLICATE: 982714

Parameter	Units	30164016001 Result	Dup Result	RPD	Qualifiers
Chromium	mg/L	ND	.013J		
Lead	mg/L	ND	ND		
Selenium	mg/L	ND	ND		
Silver	mg/L	ND	ND		

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QUALITY CONTROL DATA

Project: TCMF 99011A
Pace Project No.: 30164016

QC Batch: MSV/25670 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV TCLP
Associated Lab Samples: 30164016001

METHOD BLANK: 984231 Matrix: Water
Associated Lab Samples: 30164016001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	11/15/15 11:46	
1,2-Dichloroethane	ug/L	ND	50.0	11/15/15 11:46	
2-Butanone (MEK)	ug/L	ND	5000	11/15/15 11:46	
Benzene	ug/L	ND	50.0	11/15/15 11:46	
Carbon tetrachloride	ug/L	ND	50.0	11/15/15 11:46	
Chlorobenzene	ug/L	ND	1000	11/15/15 11:46	
Chloroform	ug/L	ND	500	11/15/15 11:46	
Tetrachloroethene	ug/L	ND	50.0	11/15/15 11:46	
Trichloroethene	ug/L	ND	50.0	11/15/15 11:46	
Vinyl chloride	ug/L	ND	50.0	11/15/15 11:46	
1,2-Dichloroethane-d4 (S)	%	99	77-126	11/15/15 11:46	
4-Bromofluorobenzene (S)	%	96	81-119	11/15/15 11:46	
Dibromofluoromethane (S)	%	96	70-130	11/15/15 11:46	
Toluene-d8 (S)	%	94	84-115	11/15/15 11:46	

LABORATORY CONTROL SAMPLE: 984234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	221	111	59-133	
1,2-Dichloroethane	ug/L	200	202	101	66-123	
2-Butanone (MEK)	ug/L	200	214J	107	57-126	
Benzene	ug/L	200	204	102	69-115	
Carbon tetrachloride	ug/L	200	201	101	65-138	
Chlorobenzene	ug/L	200	178J	89	69-120	
Chloroform	ug/L	200	195J	97	67-123	
Tetrachloroethene	ug/L	200	169	84	62-122	
Trichloroethene	ug/L	200	186	93	61-126	
Vinyl chloride	ug/L	200	172	86	58-127	
1,2-Dichloroethane-d4 (S)	%			108	77-126	
4-Bromofluorobenzene (S)	%			97	81-119	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			100	84-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 984232 984233

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		30164016001 Result	Spike Conc.	Spike Conc.	MS Result					
1,1-Dichloroethene	ug/L	ND	200	200	213	193	107	96	48-141	10

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QUALITY CONTROL DATA

Project: TCMF 99011A

Pace Project No.: 30164016

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 984232		MS		MSD		984233		% Rec	% Rec	Limits	RPD	Qual
	30164016001	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,2-Dichloroethane	ug/L	ND	200	200	185	193	93	96	58-123		4		
2-Butanone (MEK)	ug/L	ND	200	200	313J	309J	78	76	43-128				
Benzene	ug/L	ND	200	200	173	180	87	90	63-123		3		
Carbon tetrachloride	ug/L	ND	200	200	139	140	70	70	44-155		1		
Chlorobenzene	ug/L	ND	200	200	105J	125J	44	54	57-121				
Chloroform	ug/L	ND	200	200	179J	188J	89	94	56-132				
Tetrachloroethene	ug/L	ND	200	200	74.0	85.1	37	43	53-125		14		
Trichloroethene	ug/L	ND	200	200	141	145	70	72	50-127		3		
Vinyl chloride	ug/L	ND	200	200	176	162	88	81	54-149		8		
1,2-Dichloroethane-d4 (S)	%						101	97	77-126				
4-Bromofluorobenzene (S)	%						97	98	81-119				
Dibromofluoromethane (S)	%						97	96	70-130				
Toluene-d8 (S)	%						95	96	84-115				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A

Pace Project No.: 30164016

QC Batch: OEXT/26094

Analysis Method: EPA 8082A

QC Batch Method: EPA 3546

Analysis Description: 8082A GCS PCB

Associated Lab Samples: 30164016001

METHOD BLANK: 983138

Matrix: Solid

Associated Lab Samples: 30164016001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	11/14/15 20:49	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	11/14/15 20:49	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	11/14/15 20:49	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	11/14/15 20:49	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	11/14/15 20:49	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	11/14/15 20:49	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	11/14/15 20:49	
Decachlorobiphenyl (S)	%	50	10-115	11/14/15 20:49	
Tetrachloro-m-xylene (S)	%	69	30-107	11/14/15 20:49	

LABORATORY CONTROL SAMPLE: 983139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	92.2	55	40-100	
PCB-1260 (Aroclor 1260)	ug/kg	167	81.7	49	41-109	
Decachlorobiphenyl (S)	%			54	10-115	
Tetrachloro-m-xylene (S)	%			64	30-107	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A

Pace Project No.: 30164016

QC Batch: OEXT/26092

Analysis Method: EPA 8270D

QC Batch Method: EPA 3510C

Analysis Description: 8270D TCLP MSSV

Associated Lab Samples: 30164016001

METHOD BLANK: 983129

Matrix: Water

Associated Lab Samples: 30164016001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	11/16/15 13:47	
2,4,5-Trichlorophenol	ug/L	ND	5000	11/16/15 13:47	
2,4,6-Trichlorophenol	ug/L	ND	100	11/16/15 13:47	
2,4-Dinitrotoluene	ug/L	ND	100	11/16/15 13:47	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	11/16/15 13:47	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	11/16/15 13:47	
Hexachloro-1,3-butadiene	ug/L	ND	100	11/16/15 13:47	
Hexachlorobenzene	ug/L	ND	100	11/16/15 13:47	
Hexachloroethane	ug/L	ND	500	11/16/15 13:47	
Nitrobenzene	ug/L	ND	100	11/16/15 13:47	
Pentachlorophenol	ug/L	ND	5000	11/16/15 13:47	
Pyridine	ug/L	ND	500	11/16/15 13:47	
2,4,6-Tribromophenol (S)	%	97	34-134	11/16/15 13:47	
2-Fluorobiphenyl (S)	%	82	34-113	11/16/15 13:47	
2-Fluorophenol (S)	%	49	19-70	11/16/15 13:47	
Nitrobenzene-d5 (S)	%	82	22-128	11/16/15 13:47	
Phenol-d6 (S)	%	32	14-49	11/16/15 13:47	
Terphenyl-d14 (S)	%	92	35-150	11/16/15 13:47	

LABORATORY CONTROL SAMPLE: 983130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	493J	99	34-91	L0
2,4,5-Trichlorophenol	ug/L	500	685J	137	23-160	
2,4,6-Trichlorophenol	ug/L	500	728	146	51-127	L0
2,4-Dinitrotoluene	ug/L	500	637	127	46-107	L0
2-Methylphenol(o-Cresol)	ug/L	500	528J	106	32-116	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	1070J	107	30-103	L0
Hexachloro-1,3-butadiene	ug/L	500	596	119	36-117	L0
Hexachlorobenzene	ug/L	500	606	121	53-128	
Hexachloroethane	ug/L	500	424J	85	26-110	
Nitrobenzene	ug/L	500	590	118	26-130	
Pentachlorophenol	ug/L	500	614J	123	28-131	
Pyridine	ug/L	500	425J	85	10-175	
2,4,6-Tribromophenol (S)	%			125	34-134	
2-Fluorobiphenyl (S)	%			112	34-113	
2-Fluorophenol (S)	%			80	19-70	S0
Nitrobenzene-d5 (S)	%			111	22-128	
Phenol-d6 (S)	%			54	14-49	S0
Terphenyl-d14 (S)	%			132	35-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A

Pace Project No.: 30164016

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 983131			983132			MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	30164016001 Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
1,4-Dichlorobenzene	ug/L	ND	500	500	364J	344J	73	69	34-91		
2,4,5-Trichlorophenol	ug/L	ND	500	500	503J	493J	101	99	23-160		
2,4,6-Trichlorophenol	ug/L	ND	500	500	504	498	101	100	51-127	1	
2,4-Dinitrotoluene	ug/L	ND	500	500	450	464	90	93	46-107	3	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	358J	369J	72	74	32-116		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	1000	698J	717J	70	72	30-103		
Hexachloro-1,3-butadiene	ug/L	ND	500	500	415	406	83	81	36-117	2	
Hexachlorobenzene	ug/L	ND	500	500	438	441	88	88	53-128	1	
Hexachloroethane	ug/L	ND	500	500	291J	287J	58	57	26-110		
Nitrobenzene	ug/L	ND	500	500	419	413	84	83	26-130	1	
Pentachlorophenol	ug/L	ND	500	500	454J	463J	91	93	28-131		
Pyridine	ug/L	ND	500	500	138J	306J	28	61	10-175		
2,4,6-Tribromophenol (S)	%						93	91	34-134		
2-Fluorobiphenyl (S)	%						79	79	34-113		
2-Fluorophenol (S)	%						47	48	19-70		
Nitrobenzene-d5 (S)	%						77	77	22-128		
Phenol-d6 (S)	%						30	34	14-49		
Terphenyl-d14 (S)	%						102	102	35-150		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A

Pace Project No.: 30164016

QC Batch: PMST/5775

Analysis Method: Dry Weight

QC Batch Method: Dry Weight

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 30164016001

SAMPLE DUPLICATE: 987068

Parameter	Units	30164016001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	81.9	83.7	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A
Pace Project No.: 30164016

QC Batch: WET/30939	Analysis Method: EPA 1010
QC Batch Method: EPA 1010	Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 30164016001	

METHOD BLANK: 983526
Associated Lab Samples: 30164016001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Flashpoint	deg F	>200	60.0	11/13/15 17:00	

SAMPLE DUPLICATE: 983527

Parameter	Units	10327068002 Result	Dup Result	RPD	Qualifiers
Flashpoint	deg F	>200	>200		H1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: TCMF 99011A
Pace Project No.: 30164016

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H1 Analysis conducted outside the EPA method holding time.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

L5 LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TCMF 99011A

Pace Project No.: 30164016

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30164016001	Outfall 003-Tank	EPA 3546	OEXT/26094	EPA 8082A	GCSV/8849
30164016001	Outfall 003-Tank	EPA 3005A	MPRP/16912	EPA 6010C	ICP/16058
30164016001	Outfall 003-Tank	EPA 7470A	MERP/7113	EPA 7470A	MERC/6798
30164016001	Outfall 003-Tank	EPA 3510C	OEXT/26092	EPA 8270D	MSSV/8471
30164016001	Outfall 003-Tank	EPA 8260C	MSV/25670		
30164016001	Outfall 003-Tank	Dry Weight	PMST/5775		
30164016001	Outfall 003-Tank	EPA 1010	WET/30939		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information: Company: <u>Geologic NY Inc</u> Address: <u>PO Box 300</u> <u>Homar NY</u> Email To: <u>geologicny@geologic.net</u> Phone: <u>607-749-5000</u> (Fax) Requested Due Date/TAT: _____		Section B Required Project Information: Report To: <u>Same</u> Copy To: <u>Susan Cummins</u> Purchase Order No.: <u>99011A</u> Project Name: <u>TCMF 99011A</u> Project Number: <u>99011A</u>		Section C Invoice Information: Attention: <u>same</u> Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager: _____ Pace Profile #: _____	
REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER _____		Site Location STATE: <u>NY</u>		Page: <u>1</u> of <u>1</u> 1882009	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX I CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB															
1	Buffall 003-Tank	DW				3	Unpreserved	<i>[Signature]</i>	11/15/15	1337	11/15/15	1337	<i>[Signature]</i>	11/15/15	1337				30164016
2		WT																	
3		WW																	
4		P																	
5		SL																	
6		OL																	
7		WP																	
8		AR																	
9		TS																	
10		OT																	
11		Other																	
12																			

Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)		Y Y Y Y	Y Y Y Y
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Susan Cummins</u> SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YYYY): <u>11-3-15</u>		SAMPLE CONDITIONS Y Y Y Y	

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

RTB

Sample Condition Upon Receipt

30164016



Client Name: Geologic NY

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 774891804211

Custody Seal on Cooler/Box Present: yes ho ¹¹⁻⁴⁻¹⁵ Seals intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap _____ Bubble Bags None _____ Other _____

Thermometer Used 7 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 0.6 °C Correction Factor: +0.4 °C Final Temp: 1.0 °C

Date and initials of person examining contents: 11-4-15 ADN

Temp should be above freezing to 6°C		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>ADN</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 11/4/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

30164016

page 2

Project Number:

Client Name:

Geologic NY



Item No.	Matrix Code	Glass Jar (120) 250 / 500 / 1L	Soil Kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other	
100	75	3																							

December 01, 2015

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

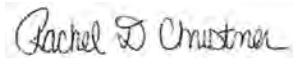
RE: Project: 99011A-TCMF
Pace Project No.: 30166390

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 2015. 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Geologic NY Inc	Report To: Geologic NY Inc	Attention: Same
Address: PO Box 350	Copy To: Susan Cummins	Company Name:
City: Homer NY	Project Name: 99011A - TCMF	Address:
Phone: 607-749-5055	Purchase Order No.: 99011A	REGULATORY AGENCY
Requested Due Date/TAT: Nov 30, 2015	Project Number: 99011A	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER
		<input type="checkbox"/> UST <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER
		Site Location STATE: NY

Page: **1** of **1**
1880879
 Pace Project No./ Lab I.D.: **30160390**
1511H29 001

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N ↑	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	SAMPLE CONDITIONS
				COMPOSITE START	COMPOSITE END/GRAB					DATE	TIME	DATE	TIME		
1	Drywell waste	DW WT WW P SL OL WP AR TS OT	S/C	1-19-15	1455	11-20-15	4	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other	X	X	X	X	X	X	
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
ADDITIONAL COMMENTS: To Office Releg RELINQUISHED BY / AFFILIATION: Susan Cummins DATE: 11-20-15 TIME: 9:15 ACCEPTED BY / AFFILIATION: [Signature] DATE: 11/20/15 TIME: 9:15 SAMPLE CONDITIONS: 11/20/15 10:30 AM															

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **Susan Cummins**
 SIGNATURE of SAMPLER: **[Signature]** DATE Signed (MM/DD/YY): **11-20-15**

Temp in °C _____
 Received on _____
 Custody (Sealed Cooler) (Y/N) _____
 Samples Intact (Y/N) _____

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt



Client Name: Geologic NY

Project # 301662390

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional:

Proj. Due Date:

Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature NA

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: _____

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis	Matrix: _____	
All containers needing preservation have been checked:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed _____
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

RDC
11/25/15

Client Notification/Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Samples were delivered directly to subcontracting laboratory. No sample received at Pace Pgh to check condition of receipt.

Project Manager Review:

Rachel Schuster

Date:

11/25/15



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 11/19/2015 2:55:00 PM

Received : 11/21/2015 10:50:00 AM

Collected By : SC99

Lab No. : 1511H29-001

Client Sample ID: DRYWELL WASTE

Sample Information:

Type : Soil

Origin:

Analytical Method: SW1311/8270D :

Prep Method: 3510C

Prep Date: 11/25/2015 5:20:50 PM

Analyst: GMV

Prep Comments: ambient room temperature exceeded range

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dichlorobenzene	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
2,4,5-Trichlorophenol	< 0.0250		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
2,4,6-Trichlorophenol	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
2,4-Dinitrotoluene	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
2-Methylphenol	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
3-Methylphenol/4-Methylphenol	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
Hexachlorobenzene	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
Hexachlorobutadiene	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
Hexachloroethane	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
Nitrobenzene	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
Pentachlorophenol	< 0.0250		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
Pyridine	< 0.0100		1	mg/L	11/25/2015 10:36 PM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	44.4		1	%REC Limit 16-110	11/25/2015 10:36 PM	Container-01 of 02
Surr: 2,4,6-Tribromophenol	77.1		1	%REC Limit 10-123	11/25/2015 10:36 PM	Container-01 of 02
Surr: 2-Chlorophenol-d4	42.0		1	%REC Limit 33-110	11/25/2015 10:36 PM	Container-01 of 02
Surr: 2-Fluorobiphenyl	49.1		1	%REC Limit 43-116	11/25/2015 10:36 PM	Container-01 of 02
Surr: 2-Fluorophenol	21.7		1	%REC Limit 21-110	11/25/2015 10:36 PM	Container-01 of 02
Surr: 4-Terphenyl-d14	109		1	%REC Limit 33-141	11/25/2015 10:36 PM	Container-01 of 02
Surr: Nitrobenzene-d5	49.1		1	%REC Limit 35-114	11/25/2015 10:36 PM	Container-01 of 02
Surr: Phenol-d5	12.5		1	%REC Limit 10-110	11/25/2015 10:36 PM	Container-01 of 02

Analytical Method: SW1311/7470A :

Prep Method: SW7470

Prep Date: 11/30/2015 12:00:00 PM

Analyst: BC

Prep Comments: ambient room temperature exceeded range

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Mercury	< 0.200		1	ug/L	11/30/2015 3:32 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported : 11/30/2015

Caitlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 11/19/2015 2:55:00 PM

Received : 11/21/2015 10:50:00 AM

Collected By : SC99

Lab No. : 1511H29-001
Client Sample ID: DRYWELL WASTE

Sample Information:

Type : Soil

Origin:

Analytical Method: SW1311/6010C : Prep Method: SW3005A Prep Date: 11/25/2015 7:30:00 AM Analyst: CGZ

Prep Comments: ambient room temperature exceeded range

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Arsenic	< 1.00		1	mg/L	11/26/2015 1:09 AM	Container-01 of 02
Barium	< 10.0		1	mg/L	11/26/2015 1:09 AM	Container-01 of 02
Cadmium	1.92		1	mg/L	11/26/2015 1:09 AM	Container-01 of 02
Chromium	1.21		1	mg/L	11/26/2015 1:09 AM	Container-01 of 02
Lead	< 1.00		1	mg/L	11/26/2015 1:09 AM	Container-01 of 02
Selenium	< 0.100		1	mg/L	11/26/2015 1:09 AM	Container-01 of 02
Silver	< 1.00		1	mg/L	11/26/2015 1:09 AM	Container-01 of 02

Analytical Method: SW1311/8260C : Prep Date: 11/24/2015 4:55:07 PM Analyst: GKB

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
1,1-Dichloroethene	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
1,2-Dichloroethane	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
1,4-Dichlorobenzene	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
2-Butanone	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
Benzene	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
Carbon tetrachloride	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
Chlorobenzene	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
Chloroform	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
Tetrachloroethene	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
Trichloroethene	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
Vinyl chloride	< 0.010		1	mg/L	11/25/2015 9:57 PM	Container-01 of 02	
Surr: 1,2-dichloroethane-d4	119		1	%REC	Limit 53-183	11/25/2015 9:57 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	104		1	%REC	Limit 63-140	11/25/2015 9:57 PM	Container-01 of 02
Surr: Toluene-d8	101		1	%REC	Limit 60-135	11/25/2015 9:57 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported : 11/30/2015

Caitlin Panzarella

Project Manager

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LABORATORY RESULTS

Results for the samples and analytes requested

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 11/19/2015 2:55:00 PM

Received : 11/21/2015 10:50:00 AM

Collected By : SC99

Sample Information:

Type : Soil

Origin:

Lab No. : 1511H29-001

Client Sample ID: DRYWELL WASTE

<u>Analytical Method:</u> SW8082A :		<u>Prep Method:</u> SW3545A		<u>Prep Date:</u> 11/30/2015 11:10:41 AM		<u>Analyst:</u> JS	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
Aroclor 1016	< 66		1	µg/Kg-dry	11/30/2015 2:10 PM	Container-01 of 02	
Aroclor 1221	< 130		1	µg/Kg-dry	11/30/2015 2:10 PM	Container-01 of 02	
Aroclor 1232	< 66		1	µg/Kg-dry	11/30/2015 2:10 PM	Container-01 of 02	
Aroclor 1242	< 66		1	µg/Kg-dry	11/30/2015 2:10 PM	Container-01 of 02	
Aroclor 1248	< 66		1	µg/Kg-dry	11/30/2015 2:10 PM	Container-01 of 02	
Aroclor 1254	< 66		1	µg/Kg-dry	11/30/2015 2:10 PM	Container-01 of 02	
Aroclor 1260	< 66		1	µg/Kg-dry	11/30/2015 2:10 PM	Container-01 of 02	
Surr: Decachlorobiphenyl	13.1	S	1	%REC Limit 30-150	11/30/2015 2:10 PM	Container-01 of 02	
Surr: Tetrachloro-m-xylene	6.03	S	1	%REC Limit 30-150	11/30/2015 2:10 PM	Container-01 of 02	

<u>Analytical Method:</u> D2216 :						<u>Analyst:</u> JL	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
Percent Moisture	50.0		1	wt%	11/23/2015 3:41 PM	Container-01 of 02	

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 c = Calibration acceptability criteria exceeded for this analyte
 R = Reporting limit below calibration range. Value estimated.
 J = Estimated value - below calibration range
 S = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound

Date Reported : 11/30/2015

Caitlin Panzarella

Project Manager

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QC SUMMARY REPORT

WO#: 1511H29
 30-Nov-15

Client: Pace Analytical Services, Inc

Project: BatchID: 53195

Sample ID: MB-53195	SampType: MBLK	TestCode: 1311_M	Units: mg/L	Prep Date: 11/25/2015	RunNo: 87955						
Client ID: PBW	Batch ID: 53195	TestNo: SW1311/6010 SW3010A		Analysis Date: 11/26/2015	SeqNo: 1906157						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 1.00	1.00									
Barium	< 10.0	10.0									
Cadmium	< 0.100	0.100									
Chromium	< 1.00	1.00									
Lead	< 1.00	1.00									
Selenium	< 0.100	0.100									
Silver	< 1.00	1.00									

Sample ID: LCS-53195	SampType: LCS	TestCode: 1311_M	Units: mg/L	Prep Date: 11/25/2015	RunNo: 87955						
Client ID: LCSW	Batch ID: 53195	TestNo: SW1311/6010 SW3010A		Analysis Date: 11/26/2015	SeqNo: 1906160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 1.00	1.00	0.5000	0	111	80	120				
Barium	< 10.0	10.0	2.500	0	102	80	120				
Cadmium	2.73	0.100	2.500	0	109	80	120				
Chromium	2.44	1.00	2.500	0	97.6	80	120				
Lead	< 1.00	1.00	0.5000	0	95.0	80	120				
Selenium	0.503	0.100	0.5000	0	101	80	120				
Silver	< 1.00	1.00	1.000	0	98.9	80	120				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				



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QC SUMMARY REPORT

WO#: 1511H29
 30-Nov-15

Client: Pace Analytical Services, Inc

Project: BatchID: 53205

Sample ID:	MB-53205	SampType:	MBLK	TestCode:	1311_B	Units:	mg/L	Prep Date:	11/25/2015	RunNo:	87969
Client ID:	PBW	Batch ID:	53205	TestNo:	SW131/18270	SW3520C		Analysis Date:	11/25/2015	SeqNo:	1906398
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	< 0.0100	0.0100									
1,4-Dichlorobenzene	< 0.0100	0.0100									
2-Methylphenol	< 0.0100	0.0100									
3-Methylphenol/4-Methylphenol	< 0.0100	0.0100									
Hexachloroethane	< 0.0100	0.0100									
Nitrobenzene	< 0.0100	0.0100									
Hexachlorobutadiene	< 0.0100	0.0100									
2,4,6-Trichlorophenol	< 0.0100	0.0100									
2,4,5-Trichlorophenol	< 0.0250	0.0250									
2,4-Dinitrotoluene	< 0.0100	0.0100									
Hexachlorobenzene	< 0.0100	0.0100									
Pentachlorophenol	< 0.0250	0.0250									
Surr: 2-Fluorophenol	0.0163		0.07500		21.7	21	110				
Surr: Nitrobenzene-d5	0.0289		0.05000		57.9	35	114				
Surr: Phenol-d5	0.00985		0.07500		13.1	10	110				
Surr: 2,4,6-Tribromophenol	0.0599		0.07500		79.9	10	123				
Surr: 2-Fluorobiphenyl	0.0273		0.05000		54.7	43	116				
Surr: 4-Terphenyl-d14	0.0466		0.05000		93.1	33	141				
Surr: 2-Chlorophenol-d4	0.0359		0.07500		47.9	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0239		0.05000		47.8	16	110				

Sample ID:	LFB-53205	SampType:	LFB	TestCode:	1311_B	Units:	mg/L	Prep Date:	11/25/2015	RunNo:	87969
Client ID:	ZZZZZZ	Batch ID:	53205	TestNo:	SW131/18270	SW3520C		Analysis Date:	11/25/2015	SeqNo:	1906399
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				



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QC SUMMARY REPORT

WO#: 1511H29
 30-Nov-15

Client: Pace Analytical Services, Inc

Project:

BatchID: 53205

Sample ID:	LFB-53205	Sample Type:	LFB	Test Code:	1311_B	Units:	mg/L	Prep Date:	11/25/2015	Run No:	87969
Client ID:	ZZZZZZ	Batch ID:	53205	Test No:	SW1311/8270	SW3520C		Analysis Date:	11/25/2015	Seq No:	1906399
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	0.0144	0.0100	0.05000	0	28.8	12	81.6				
1,4-Dichlorobenzene	0.0282	0.0100	0.05000	0	56.4	38	116				
2-Methylphenol	0.0224	0.0100	0.05000	0	44.8	27	141				
3-Methylphenol/4-Methylphenol	0.0348	0.0100	0.1000	0	34.8	15	141				
Hexachloroethane	0.0249	0.0100	0.05000	0	49.9	39	111				
Nitrobenzene	0.0342	0.0100	0.05000	0	68.3	39	129				
Hexachlorobutadiene	0.0254	0.0100	0.05000	0	50.8	49	115				
2,4,6-Trichlorophenol	0.0378	0.0100	0.05000	0	75.6	37	133				
2,4,5-Trichlorophenol	0.0432	0.0250	0.05000	0	86.5	16	148				
2,4-Dinitrotoluene	0.0422	0.0100	0.05000	0	84.3	46	118				
Hexachlorobenzene	0.0447	0.0100	0.05000	0	89.4	55	127				
Pentachlorophenol	0.0514	0.0250	0.05000	0	103	13	123				
Surr: 2-Fluorophenol	0.0165		0.07500		22.1	21	110				
Surr: Nitrobenzene-d5	0.0306		0.05000		61.2	35	114				
Surr: Phenol-d5	0.00909		0.07500		12.1	10	110				
Surr: 2,4,6-Tribromophenol	0.0584		0.07500		77.8	10	123				
Surr: 2-Fluorobiphenyl	0.0335		0.05000		66.9	43	116				
Surr: 4-Terphenyl-d14	0.0485		0.05000		97.0	33	141				
Surr: 2-Chlorophenol-d4	0.0356		0.07500		47.4	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0258		0.05000		51.7	16	110				

Qualifiers: * Value exceeds Maximum Contaminant Level
 H Holding times for preparation or analysis exceeded
 O RSD is greater than RSDlimit
 S Spike Recovery outside accepted recovery limits

D Dilution was required.
 M Manual Integration used to determine area response
 P Second column confirmation exceeds

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1511H29
 30-Nov-15

Client: Pace Analytical Services, Inc
Project:

BatchID: 53218

Sample ID:	mb-53218	SampType:	mbik	TestCode:	8082_s	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	87965
Client ID:	PBS	Batch ID:	53218	TestNo:	SW8082	SW3545		Analysis Date:	11/30/2015	SeqNo:	1906482
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	< 33	33									
Aroclor 1221	< 67	67									
Aroclor 1232	< 33	33									
Aroclor 1242	< 33	33									
Aroclor 1248	< 33	33									
Aroclor 1254	< 33	33									
Aroclor 1260	< 33	33									
Surr: Tetrachloro-m-xylene	7.9	13.33			59.4	30	150				
Surr: Decachlorobiphenyl	9.3	13.33			69.4	30	150				

Sample ID:	lfb-53218	SampType:	lfb	TestCode:	8082_s	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	87965
Client ID:	ZZZZZZ	Batch ID:	53218	TestNo:	SW8082	SW3545		Analysis Date:	11/30/2015	SeqNo:	1906483
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	100	33	166.7	0	60.5	50	136				
Aroclor 1260	120	33	166.7	0	71.0	45	154				
Surr: Tetrachloro-m-xylene	7.0		13.33		52.2	30	150				
Surr: Decachlorobiphenyl	9.0		13.33		67.8	30	150				

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1511H29
 30-Nov-15

Client: Pace Analytical Services, Inc

Project: BatchID: 53224

Sample ID: MB1-53161-53224	SampType: MBLK	TestCode: 1311_HG	Units: ug/L	Prep Date: 11/30/2015	RunNo: 87985						
Client ID: PBW	Batch ID: 53224	TestNo: SW1311/7470	SW7470	Analysis Date: 11/30/2015	SeqNo: 1906739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.200	0.200									

Sample ID: LCS-53224	SampType: LCS	TestCode: 1311_HG	Units: ug/L	Prep Date: 11/30/2015	RunNo: 87985						
Client ID: LCSW	Batch ID: 53224	TestNo: SW1311/7470	SW7470	Analysis Date: 11/30/2015	SeqNo: 1906740						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.987	0.200	1.000	0	98.7	80	120				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				



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QC SUMMARY REPORT

WO#: 1511H29
 30-Nov-15

Client: Pace Analytical Services, Inc

Project: BatchID: R87927

Sample ID: VBLK112515 SampType: MBLK TestCode: 1311_V Units: mg/L RunNo: 87927
 Client ID: PBW Batch ID: R87927 TestNo: SW1311/8260 Analysis Date: 11/25/2015 SeqNo: 1905445

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	< 0.010	0.010									
1,1-Dichloroethene	< 0.010	0.010									
2-Butanone	< 0.010	0.010									
Chloroform	< 0.010	0.010									
1,2-Dichloroethane	< 0.010	0.010									
Carbon tetrachloride	< 0.010	0.010									
Benzene	< 0.010	0.010									
Trichloroethene	< 0.010	0.010									
Tetrachloroethene	< 0.010	0.010									
Chlorobenzene	< 0.010	0.010									
1,4-Dichlorobenzene	< 0.010	0.010									
Surr: 1,2-dichloroethane-d4	0.053		0.05000		106			53		183	
Surr: 4-Bromofluorobenzene	0.052		0.05000		104			63		140	
Surr: Toluene-d8	0.051		0.05000		101			60		135	

Sample ID: LFB112515 SampType: LFB TestCode: 1311_V Units: mg/L RunNo: 87927
 Client ID: ZZZZZZ Batch ID: R87927 TestNo: SW1311/8260 Analysis Date: 11/25/2015 SeqNo: 1905446

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.014	0.010	0.02000	0	68.6			14		152	
1,1-Dichloroethene	0.015	0.010	0.02000	0	73.8			58		112	
2-Butanone	0.026	0.010	0.02000	0	129			14		166	
Chloroform	0.022	0.010	0.02000	0	112			75		119	
1,2-Dichloroethane	0.025	0.010	0.02000	0	125			52		133	
Carbon tetrachloride	0.017	0.010	0.02000	0	84.8			64		126	

Qualifiers: * Value exceeds Maximum Contaminant Level D Dilution was required. E Value above quantitation range
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response ND Not Detected at the Reporting Limit
 O RSD is greater than RSDlimit P Second column confirmation exceeds R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



PACE ANALYTICAL
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: 1511H29
 30-Nov-15

Client: Pace Analytical Services, Inc
Project:

BatchID: R87927

Sample ID:	LFB112515	SampType:	LFB	TestCode:	1311_V	Units:	mg/L	Prep Date:	RunNo:	87927	
Client ID:	ZZZZZZ	Batch ID:	R87927	TestNo:	SW1311/8260			Analysis Date:	SeqNo:	1905446	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.020	0.010	0.02000	0	101	50	127				
Trichloroethene	0.020	0.010	0.02000	0	100	57	115				
Tetrachloroethene	0.018	0.010	0.02000	0	91.7	59	133				
Chlorobenzene	0.023	0.010	0.02000	0	116	72	124				
1,4-Dichlorobenzene	0.025	0.010	0.02000	0	125	60	140				
Surr: 1,2-dichloroethane-d4	0.053		0.05000		106	53	183				
Surr: 4-Bromofluorobenzene	0.054		0.05000		107	63	140				
Surr: Toluene-d8	0.053		0.05000		105	60	135				

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits

D Dilution was required.

M Manual Integration used to determine area response

P Second column confirmation exceeds

E Value above quantitation range

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits



Sample Receipt Checklist

Client Name: **PACE-PA**

Date and Time Received: **11/21/2015 10:50:00 AM**

Work Order Number: **1511H29**

RcptNo: **1**

Received by: **Jaclyn Kuri**

Completed by: *Jaclyn Kuri*

Reviewed by: *Caitlin Panzarella*

Completed Date: 11/21/2015 2:21:09 PM

Reviewed Date: 11/24/2015 4:34:58 PM

Carrier name: FedEx

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No To 0.1°
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bill Sticker Not Present

Airbill No: 7750 3040 1946

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No NA Person Contacted:
 Contact Mode: Phone: Fax: Email: In Person:
 Client Instructions:
 Date Contacted: Contacted By:
 Regarding:
 Comments:
 CorrectiveAction:

WorkOrder :
1511H29

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

Chain of Custody



Workorder: 30166390 Workorder Name: 99011A-TCMF Owner Received Date: 11/21/2015 Results Requested By: 11/30/2015

Report To:
 Rachel Christher
 Pace Analytical Services, Inc.
 1638 Roseytown Road
 Greensburg, PA 15601
 Phone (724)850-5600
 Fax (999)999-9999

Subcontract To:
 Pace Analytical Melville
 575 Broad Hollow Road
 Melville, NY 11747
 Phone (631)694-3040

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Requested Analysis
						INCS	Unpreserved	
1	Drywell Waste	PS	11/19/2015 14:55	30166390001	Solid	1	2	TCLP VOCs - 8260 TCLP SVOCs - 8270 TCLP RCRA 8 Metals - 6010/7470 PCBs - 8082
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time	Cooler Temperature on Receipt °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N
2								
3								

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

February 25, 2016

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

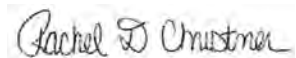
RE: Project: 99011A TCMF
Pace Project No.: 30173990

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2016. 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 99011A TCMF

Pace Project No.: 30173990

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF
Pace Project No.: 30173990

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30173990001	Backfill Source #1	EPA 8260C	JEW	71	PASI-PA
		Dry Weight	SRA	1	PASI-PA
30173990002	Backfill Source #2	EPA 8260C	JEW	71	PASI-PA
		Dry Weight	SRA	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30173990

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: February 25, 2016

General Information:

2 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 5035A 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, where applicable, 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/27170

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: MSV/27170

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Backfill Source #1 (Lab ID: 30173990001)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30173990

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: February 25, 2016

Analyte Comments:

QC Batch: MSV/27170

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Backfill Source #1 (Lab ID: 30173990001)

- 1,1,2-Trichloroethane
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dichloroethane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichloropropane
- 1,2,4-Trimethylbenzene
- 1,2,3-Trichlorobenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 2-Chloroethylvinyl ether
- 2-Hexanone
- 4-Chlorotoluene
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromobenzene
- Bromodichloromethane
- Bromomethane
- Bromoform
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane
- Dibromomethane
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30173990

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: February 25, 2016

Analyte Comments:

QC Batch: MSV/27170

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Backfill Source #1 (Lab ID: 30173990001)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride
- Backfill Source #2 (Lab ID: 30173990002)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2,2-Dichloropropane
 - 2-Butanone (MEK)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30173990

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: February 25, 2016

Analyte Comments:

QC Batch: MSV/27170

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

• Backfill Source #2 (Lab ID: 30173990002)

- 2-Chlorotoluene
- 2-Chloroethylvinyl ether
- 2-Hexanone
- 4-Chlorotoluene
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromobenzene
- Bromodichloromethane
- Bromomethane
- Bromoform
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane
- Dibromomethane
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methylene Chloride
- Methyl-tert-butyl ether
- 4-Methyl-2-pentanone (MIBK)
- m&p-Xylene
- Naphthalene
- n-Butylbenzene
- n-Propylbenzene
- o-Xylene
- p-Isopropyltoluene
- sec-Butylbenzene
- Styrene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- Tetrachloroethene
- Toluene
- Trichloroethene
- Trichlorofluoromethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30173990

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: February 25, 2016

Analyte Comments:

QC Batch: MSV/27170

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Backfill Source #2 (Lab ID: 30173990002)
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30173990

Sample: Backfill Source #1 **Lab ID: 30173990001** Collected: 02/17/16 14:10 Received: 02/20/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	10.4	1	02/23/16 12:00	02/23/16 13:12	67-64-1	1c
Benzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	71-43-2	1c
Bromobenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	108-86-1	1c
Bromochloromethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	74-97-5	1c
Bromodichloromethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-27-4	1c
Bromoform	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-25-2	1c
Bromomethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	74-83-9	1c
2-Butanone (MEK)	ND	ug/kg	10.4	1	02/23/16 12:00	02/23/16 13:12	78-93-3	1c
n-Butylbenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	98-06-6	1c
Carbon disulfide	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	56-23-5	1c
Chlorobenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	108-90-7	1c
Chloroethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	10.4	1	02/23/16 12:00	02/23/16 13:12	110-75-8	1c
Chloroform	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	67-66-3	1c
Chloromethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	96-12-8	1c
Dibromochloromethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	106-93-4	1c
Dibromomethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	87-68-3	1c
2-Hexanone	ND	ug/kg	10.4	1	02/23/16 12:00	02/23/16 13:12	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	99-87-6	1c
Methylene Chloride	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.4	1	02/23/16 12:00	02/23/16 13:12	108-10-1	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30173990

Sample: Backfill Source #1 **Lab ID: 30173990001** Collected: 02/17/16 14:10 Received: 02/20/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Methyl-tert-butyl ether	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	1634-04-4	1c
Naphthalene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	91-20-3	1c
n-Propylbenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	103-65-1	1c
Styrene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	79-34-5	1c
Tetrachloroethene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	127-18-4	1c
Toluene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	79-00-5	1c
Trichloroethene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	108-67-8	1c
Vinyl acetate	ND	ug/kg	52.2	1	02/23/16 12:00	02/23/16 13:12	108-05-4	1c
Vinyl chloride	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	75-01-4	1c
Xylene (Total)	ND	ug/kg	15.6	1	02/23/16 12:00	02/23/16 13:12	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	1	02/23/16 12:00	02/23/16 13:12	179601-23-1	1c
o-Xylene	ND	ug/kg	5.2	1	02/23/16 12:00	02/23/16 13:12	95-47-6	1c
Surrogates								
Toluene-d8 (S)	99	%	68-135	1	02/23/16 12:00	02/23/16 13:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	65-146	1	02/23/16 12:00	02/23/16 13:12	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	69-137	1	02/23/16 12:00	02/23/16 13:12	17060-07-0	
Dibromofluoromethane (S)	95	%	70-130	1	02/23/16 12:00	02/23/16 13:12	1868-53-7	
Percent Moisture Analytical Method: Dry Weight								
Percent Moisture	4.1	%	0.10	1		02/24/16 14:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30173990

Sample: Backfill Source #2 **Lab ID: 30173990002** Collected: 02/18/16 09:50 Received: 02/20/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	10	1	02/23/16 12:00	02/23/16 13:38	67-64-1	1c
Benzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	71-43-2	1c
Bromobenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	108-86-1	1c
Bromochloromethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	74-97-5	1c
Bromodichloromethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-27-4	1c
Bromoform	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-25-2	1c
Bromomethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	74-83-9	1c
2-Butanone (MEK)	ND	ug/kg	10	1	02/23/16 12:00	02/23/16 13:38	78-93-3	1c
n-Butylbenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	98-06-6	1c
Carbon disulfide	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	56-23-5	1c
Chlorobenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	108-90-7	1c
Chloroethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	10	1	02/23/16 12:00	02/23/16 13:38	110-75-8	1c
Chloroform	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	67-66-3	1c
Chloromethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	96-12-8	1c
Dibromochloromethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	106-93-4	1c
Dibromomethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	87-68-3	1c
2-Hexanone	ND	ug/kg	10	1	02/23/16 12:00	02/23/16 13:38	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	99-87-6	1c
Methylene Chloride	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10	1	02/23/16 12:00	02/23/16 13:38	108-10-1	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF
Pace Project No.: 30173990

Sample: Backfill Source #2 **Lab ID: 30173990002** Collected: 02/18/16 09:50 Received: 02/20/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Methyl-tert-butyl ether	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	1634-04-4	1c
Naphthalene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	91-20-3	1c
n-Propylbenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	103-65-1	1c
Styrene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	79-34-5	1c
Tetrachloroethene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	127-18-4	1c
Toluene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	79-00-5	1c
Trichloroethene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	108-67-8	1c
Vinyl acetate	ND	ug/kg	50.0	1	02/23/16 12:00	02/23/16 13:38	108-05-4	1c
Vinyl chloride	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	75-01-4	1c
Xylene (Total)	ND	ug/kg	15.0	1	02/23/16 12:00	02/23/16 13:38	1330-20-7	
m&p-Xylene	ND	ug/kg	10	1	02/23/16 12:00	02/23/16 13:38	179601-23-1	1c
o-Xylene	ND	ug/kg	5.0	1	02/23/16 12:00	02/23/16 13:38	95-47-6	1c
Surrogates								
Toluene-d8 (S)	97	%	68-135	1	02/23/16 12:00	02/23/16 13:38	2037-26-5	
4-Bromofluorobenzene (S)	99	%	65-146	1	02/23/16 12:00	02/23/16 13:38	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	69-137	1	02/23/16 12:00	02/23/16 13:38	17060-07-0	
Dibromofluoromethane (S)	96	%	70-130	1	02/23/16 12:00	02/23/16 13:38	1868-53-7	
Percent Moisture Analytical Method: Dry Weight								
Percent Moisture	5.7	%	0.10	1		02/24/16 14:38		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30173990

QC Batch: MSV/27170

Analysis Method: EPA 8260C

QC Batch Method: EPA 5035A

Analysis Description: 8260C MSV 5035 Low

Associated Lab Samples: 30173990001, 30173990002

METHOD BLANK: 1029221

Matrix: Solid

Associated Lab Samples: 30173990001, 30173990002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	02/23/16 11:25	
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/23/16 11:25	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	02/23/16 11:25	
1,1,2-Trichloroethane	ug/kg	ND	5.0	02/23/16 11:25	
1,1-Dichloroethane	ug/kg	ND	5.0	02/23/16 11:25	
1,1-Dichloroethene	ug/kg	ND	5.0	02/23/16 11:25	
1,1-Dichloropropene	ug/kg	ND	5.0	02/23/16 11:25	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	02/23/16 11:25	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	02/23/16 11:25	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/23/16 11:25	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	02/23/16 11:25	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	02/23/16 11:25	
1,2-Dichlorobenzene	ug/kg	ND	5.0	02/23/16 11:25	
1,2-Dichloroethane	ug/kg	ND	5.0	02/23/16 11:25	
1,2-Dichloropropane	ug/kg	ND	5.0	02/23/16 11:25	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/23/16 11:25	
1,3-Dichlorobenzene	ug/kg	ND	5.0	02/23/16 11:25	
1,3-Dichloropropane	ug/kg	ND	5.0	02/23/16 11:25	
1,4-Dichlorobenzene	ug/kg	ND	5.0	02/23/16 11:25	
2,2-Dichloropropane	ug/kg	ND	5.0	02/23/16 11:25	
2-Butanone (MEK)	ug/kg	ND	10.0	02/23/16 11:25	
2-Chloroethylvinyl ether	ug/kg	ND	10.0	02/23/16 11:25	
2-Chlorotoluene	ug/kg	ND	5.0	02/23/16 11:25	
2-Hexanone	ug/kg	ND	10.0	02/23/16 11:25	
4-Chlorotoluene	ug/kg	ND	5.0	02/23/16 11:25	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	02/23/16 11:25	
Acetone	ug/kg	ND	10.0	02/23/16 11:25	
Benzene	ug/kg	ND	5.0	02/23/16 11:25	
Bromobenzene	ug/kg	ND	5.0	02/23/16 11:25	
Bromochloromethane	ug/kg	ND	5.0	02/23/16 11:25	
Bromodichloromethane	ug/kg	ND	5.0	02/23/16 11:25	
Bromoform	ug/kg	ND	5.0	02/23/16 11:25	
Bromomethane	ug/kg	ND	5.0	02/23/16 11:25	
Carbon disulfide	ug/kg	ND	5.0	02/23/16 11:25	
Carbon tetrachloride	ug/kg	ND	5.0	02/23/16 11:25	
Chlorobenzene	ug/kg	ND	5.0	02/23/16 11:25	
Chloroethane	ug/kg	ND	5.0	02/23/16 11:25	
Chloroform	ug/kg	ND	5.0	02/23/16 11:25	
Chloromethane	ug/kg	ND	5.0	02/23/16 11:25	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/23/16 11:25	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	02/23/16 11:25	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30173990

METHOD BLANK: 1029221

Matrix: Solid

Associated Lab Samples: 30173990001, 30173990002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	02/23/16 11:25	
Dibromomethane	ug/kg	ND	5.0	02/23/16 11:25	
Dichlorodifluoromethane	ug/kg	ND	5.0	02/23/16 11:25	
Ethylbenzene	ug/kg	ND	5.0	02/23/16 11:25	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	02/23/16 11:25	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/23/16 11:25	
m&p-Xylene	ug/kg	ND	10.0	02/23/16 11:25	
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/23/16 11:25	
Methylene Chloride	ug/kg	ND	5.0	02/23/16 11:25	
n-Butylbenzene	ug/kg	ND	5.0	02/23/16 11:25	
n-Propylbenzene	ug/kg	ND	5.0	02/23/16 11:25	
Naphthalene	ug/kg	ND	5.0	02/23/16 11:25	
o-Xylene	ug/kg	ND	5.0	02/23/16 11:25	
p-Isopropyltoluene	ug/kg	ND	5.0	02/23/16 11:25	
sec-Butylbenzene	ug/kg	ND	5.0	02/23/16 11:25	
Styrene	ug/kg	ND	5.0	02/23/16 11:25	
tert-Butylbenzene	ug/kg	ND	5.0	02/23/16 11:25	
Tetrachloroethene	ug/kg	ND	5.0	02/23/16 11:25	
Toluene	ug/kg	ND	5.0	02/23/16 11:25	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/23/16 11:25	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	02/23/16 11:25	
Trichloroethene	ug/kg	ND	5.0	02/23/16 11:25	
Trichlorofluoromethane	ug/kg	ND	5.0	02/23/16 11:25	
Vinyl acetate	ug/kg	ND	50.0	02/23/16 11:25	
Vinyl chloride	ug/kg	ND	5.0	02/23/16 11:25	
Xylene (Total)	ug/kg	ND	15.0	02/23/16 11:25	
1,2-Dichloroethane-d4 (S)	%	97	69-137	02/23/16 11:25	
4-Bromofluorobenzene (S)	%	98	65-146	02/23/16 11:25	
Dibromofluoromethane (S)	%	95	70-130	02/23/16 11:25	
Toluene-d8 (S)	%	96	68-135	02/23/16 11:25	

LABORATORY CONTROL SAMPLE: 1029222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	16.7	84	59-126	
1,1,1-Trichloroethane	ug/kg	20	15.2	76	71-130	
1,1,2,2-Tetrachloroethane	ug/kg	20	15.7	79	66-123	
1,1,2-Trichloroethane	ug/kg	20	16.0	80	75-115	
1,1-Dichloroethane	ug/kg	20	15.6	78	65-126	
1,1-Dichloroethene	ug/kg	20	14.9	75	62-137	
1,1-Dichloropropene	ug/kg	20	16.1	80	50-144	
1,2,3-Trichlorobenzene	ug/kg	20	19.0	95	65-135	
1,2,4-Trichlorobenzene	ug/kg	20	18.0	90	78-137	
1,2,4-Trimethylbenzene	ug/kg	20	16.7	84	79-125	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30173990

LABORATORY CONTROL SAMPLE: 1029222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	20	15.7	79	21-150	
1,2-Dibromoethane (EDB)	ug/kg	20	17.3	86	74-118	
1,2-Dichlorobenzene	ug/kg	20	17.4	87	82-121	
1,2-Dichloroethane	ug/kg	20	14.9	75	67-116	
1,2-Dichloropropane	ug/kg	20	14.7	74	67-119	
1,3,5-Trimethylbenzene	ug/kg	20	16.7	83	74-129	
1,3-Dichlorobenzene	ug/kg	20	17.0	85	80-124	
1,3-Dichloropropane	ug/kg	20	16.7	83	65-121	
1,4-Dichlorobenzene	ug/kg	20	17.1	85	80-126	
2,2-Dichloropropane	ug/kg	20	16.4	82	32-155	
2-Butanone (MEK)	ug/kg	20	14.0	70	42-116	
2-Chloroethylvinyl ether	ug/kg	20	15.8	79	16-145	
2-Chlorotoluene	ug/kg	20	17.2	86	62-131	
2-Hexanone	ug/kg	20	14.9	75	54-121	
4-Chlorotoluene	ug/kg	20	17.1	85	58-131	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	17.1	86	52-119	
Acetone	ug/kg	20	16.2	81	32-113	
Benzene	ug/kg	20	17.1	85	71-137	
Bromobenzene	ug/kg	20	16.1	81	52-135	
Bromochloromethane	ug/kg	20	17.2	86	63-127	
Bromodichloromethane	ug/kg	20	16.1	81	67-121	
Bromoform	ug/kg	20	13.8	69	58-122	
Bromomethane	ug/kg	20	30.8	154	27-164	
Carbon disulfide	ug/kg	20	17.3	86	60-172	
Carbon tetrachloride	ug/kg	20	15.5	78	66-132	
Chlorobenzene	ug/kg	20	16.9	85	80-119	
Chloroethane	ug/kg	20	14.5	72	53-149	
Chloroform	ug/kg	20	15.3	76	70-120	
Chloromethane	ug/kg	20	16.5	83	47-147	
cis-1,2-Dichloroethene	ug/kg	20	15.5	78	64-120	
cis-1,3-Dichloropropene	ug/kg	20	15.0	75	67-123	
Dibromochloromethane	ug/kg	20	15.6	78	67-120	
Dibromomethane	ug/kg	20	17.2	86	54-123	
Dichlorodifluoromethane	ug/kg	20	15.1	76	10-175	
Ethylbenzene	ug/kg	20	17.2	86	78-126	
Hexachloro-1,3-butadiene	ug/kg	20	17.7	89	52-156	
Isopropylbenzene (Cumene)	ug/kg	20	16.3	82	78-133	
m&p-Xylene	ug/kg	40	34.4	86	77-129	
Methyl-tert-butyl ether	ug/kg	20	15.5	77	77-141	
Methylene Chloride	ug/kg	20	14.1	71	50-125	
n-Butylbenzene	ug/kg	20	16.7	84	74-140	
n-Propylbenzene	ug/kg	20	16.6	83	70-140	
Naphthalene	ug/kg	20	16.7	84	81-126	
o-Xylene	ug/kg	20	17.3	86	80-125	
p-Isopropyltoluene	ug/kg	20	17.4	87	74-136	
sec-Butylbenzene	ug/kg	20	17.4	87	81-132	
Styrene	ug/kg	20	16.5	82	79-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30173990

LABORATORY CONTROL SAMPLE: 1029222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	20	17.1	85	77-129	
Tetrachloroethene	ug/kg	20	16.7	84	73-135	
Toluene	ug/kg	20	16.5	83	72-127	
trans-1,2-Dichloroethene	ug/kg	20	14.6	73	64-131	
trans-1,3-Dichloropropene	ug/kg	20	15.1	75	66-116	
Trichloroethene	ug/kg	20	15.7	78	73-125	
Trichlorofluoromethane	ug/kg	20	14.5	73	39-192	
Vinyl acetate	ug/kg		ND			
Vinyl chloride	ug/kg	20	15.5	78	46-138	
Xylene (Total)	ug/kg	60	51.7	86	80-124	
1,2-Dichloroethane-d4 (S)	%			94	69-137	
4-Bromofluorobenzene (S)	%			96	65-146	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			98	68-135	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30173990

QC Batch: PMST/5949	Analysis Method: Dry Weight
QC Batch Method: Dry Weight	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30173990001, 30173990002	

SAMPLE DUPLICATE: 1030086

Parameter	Units	30173554001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	15.9	16.5	4	

SAMPLE DUPLICATE: 1030087

Parameter	Units	30174017001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.5	17.9	3	

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QUALIFIERS

Project: 99011A TCMF

Pace Project No.: 30173990

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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/27170

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF

Pace Project No.: 30173990

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30173990001	Backfill Source #1	EPA 5035A	MSV/27170	EPA 8260C	MSV/27183
30173990002	Backfill Source #2	EPA 5035A	MSV/27170	EPA 8260C	MSV/27183
30173990001	Backfill Source #1	Dry Weight	PMST/5949		
30173990002	Backfill Source #2	Dry Weight	PMST/5949		

REPORT OF LABORATORY ANALYSIS

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Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: <u>Geologic NY Inc</u>	Report To: <u>Geologic</u>	Attention: <u>Same</u>
Address: <u>PO Box 350</u>	Copy To: <u>Susan Cummins</u>	Company Name:
<u>Homer, NY</u>	Purchase Order No.: <u>99011A</u>	Address:
Email To: <u>geologicny@geologic.net</u>	Project Name: <u>TUMF</u>	Pace Quote Reference: <u>NY</u>
Phone: <u>607-749-5800</u>	Project Number: <u>99011A</u>	Pace Project Manager:
Requested Due Date/TAT: <u>STANDARD</u>		Pace Profile #:
		REGULATORY AGENCY
		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
		<input type="checkbox"/> UST <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER
		Site Location
		STATE: <u>NY</u>

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives			Analysis Test ↑	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE				
1	Backfill Source #1	DW WT WW P SL OL WP AR TS OT				1 X							001
2	Backfill Source #2					1 X							002
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		<u>Susan Cummins</u>	<u>2/19/16</u>	<u>800</u>	<u>PAE Fm / PAE</u>	<u>2/19/16</u>	<u>800</u>	Received on Ice (Y/N) <u>Y</u>
		<u>PAE Fm / PAE</u>	<u>2/19/16</u>	<u>1700</u>	<u>[Signature]</u>	<u>2/20/16</u>	<u>1000 2:00</u>	Custody Sealed Cooler (Y/N) <u>Y</u>
								Temp in °C
								Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Susan Cummins Susan Cummins
 SIGNATURE of SAMPLER: [Signature] Susan Cummins
 DATE Signed (MM/DD/YY): 2-18-16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Sample Condition Upon Receipt

30173990

Client Name: Geologic M

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 775689022920

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap _____ Bubble Bags _____ None _____ Other _____

Thermometer Used 8 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 2.6 °C Correction Factor: 0.0 °C Final Temp: 2.6 °C

Date and initials of person examining contents: SLU 2/20/16

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
		<u>SLU</u>	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachael R. [Signature]

Date: 2/20/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

30173990

page 2

Project Number:

Client Name: Geologic NY



Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
100	X	1																						
102	X	1																						

March 21, 2016

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

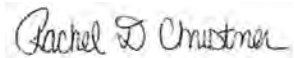
RE: Project: 99011A TCMF
Pace Project No.: 30176181

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2016. 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 99011A TCMF

Pace Project No.: 30176181

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF
Pace Project No.: 30176181

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30176181001	Outfall 002B 8'-12'	EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	KAS	1	PASI-PA
		EPA 8260C	JEW	71	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
30176181002	Outfall 002A 8'-16'	EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	KAS	1	PASI-PA
		EPA 8260C	JEW	71	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
30176181003	Outfall 002A 18'-22'	EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	KAS	1	PASI-PA
		EPA 8260C	JEW	71	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
30176181004	Outfall 003 8'-16' West	EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	KAS	1	PASI-PA
		EPA 8260C	JEW	71	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
30176181005	Outfall 003 8'-16' East	EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	KAS	1	PASI-PA
		EPA 8260C	JEW	71	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
30176181006	Outfall 003 18'-22'	EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	KAS	1	PASI-PA
		EPA 8260C	JEW	71	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 6010C

Description: 6010C MET ICP

Client: GeoLogic NY, Inc.

Date: March 21, 2016

General Information:

6 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 3050B 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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: MPRP/17841

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30176181001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1042817)

- Barium
- Cadmium
- Chromium

- MSD (Lab ID: 1042818)

- Barium
- Cadmium
- Chromium

R1: RPD value was outside control limits.

- MSD (Lab ID: 1042818)

- Selenium
- Silver

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 7471B

Description: 7471B Mercury

Client: GeoLogic NY, Inc.

Date: March 21, 2016

General Information:

6 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 7471B 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

General Information:

6 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 5035A 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/27580

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1044523)
 - Acetone
 - Bromomethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/27580

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

• Outfall 002A 18'-22' (Lab ID: 30176181003)

- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,1-Dichloropropene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dichloroethane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichloropropane
- 1,2,4-Trimethylbenzene
- 1,2,3-Trichlorobenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 2-Chloroethylvinyl ether
- 2-Hexanone
- 4-Chlorotoluene
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromobenzene
- Bromodichloromethane
- Bromomethane
- Bromoform
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Outfall 002A 18'-22' (Lab ID: 30176181003)
 - Dibromomethane
 - Ethylbenzene
 - Hexachloro-1,3-butadiene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride
- Outfall 002A 8'-16' (Lab ID: 30176181002)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

• Outfall 002A 8'-16' (Lab ID: 30176181002)

- 1,3,5-Trimethylbenzene
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 2-Chloroethylvinyl ether
- 2-Hexanone
- 4-Chlorotoluene
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromobenzene
- Bromodichloromethane
- Bromomethane
- Bromoform
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane
- Dibromomethane
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methylene Chloride
- Methyl-tert-butyl ether
- 4-Methyl-2-pentanone (MIBK)
- m&p-Xylene
- Naphthalene
- n-Butylbenzene
- n-Propylbenzene
- o-Xylene
- p-Isopropyltoluene
- sec-Butylbenzene
- Styrene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Outfall 002A 8'-16' (Lab ID: 30176181002)
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride
- Outfall 002B 8'-12' (Lab ID: 30176181001)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2,2-Dichloropropane
 - 2-Butanone (MEK)
 - 2-Chlorotoluene
 - 2-Chloroethylvinyl ether
 - 2-Hexanone
 - 4-Chlorotoluene
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromobenzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

• Outfall 002B 8'-12' (Lab ID: 30176181001)

- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane
- Dibromomethane
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methylene Chloride
- Methyl-tert-butyl ether
- 4-Methyl-2-pentanone (MIBK)
- m&p-Xylene
- Naphthalene
- n-Butylbenzene
- n-Propylbenzene
- o-Xylene
- p-Isopropyltoluene
- sec-Butylbenzene
- Styrene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- Tetrachloroethene
- Toluene
- Trichloroethene
- Trichlorofluoromethane
- tert-Butylbenzene
- Vinyl acetate
- Vinyl chloride

• Outfall 003 18'-22' (Lab ID: 30176181006)

- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,1-Dichloropropene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

• Outfall 003 18'-22' (Lab ID: 30176181006)

- 1,2-Dibromo-3-chloropropane
- 1,2-Dichloroethane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichloropropane
- 1,2,4-Trimethylbenzene
- 1,2,3-Trichlorobenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 2-Chloroethylvinyl ether
- 2-Hexanone
- 4-Chlorotoluene
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromobenzene
- Bromodichloromethane
- Bromomethane
- Bromoform
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane
- Dibromomethane
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methylene Chloride
- Methyl-tert-butyl ether
- 4-Methyl-2-pentanone (MIBK)
- m&p-Xylene
- Naphthalene

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Outfall 003 18'-22' (Lab ID: 30176181006)
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride
- Outfall 003 8'-16' East (Lab ID: 30176181005)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2,2-Dichloropropane
 - 2-Butanone (MEK)
 - 2-Chlorotoluene
 - 2-Chloroethylvinyl ether
 - 2-Hexanone
 - 4-Chlorotoluene
 - Carbon disulfide

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Outfall 003 8'-16' East (Lab ID: 30176181005)
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromobenzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Dichlorodifluoromethane
 - Dibromomethane
 - Ethylbenzene
 - Hexachloro-1,3-butadiene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride
- Outfall 003 8'-16' West (Lab ID: 30176181004)
 - 1,1-Dichloroethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF
Pace Project No.: 30176181

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, Inc.
Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Outfall 003 8'-16' West (Lab ID: 30176181004)

- 1,1-Dichloroethene
- 1,1-Dichloropropene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dichloroethane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichloropropane
- 1,2,4-Trimethylbenzene
- 1,2,3-Trichlorobenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 2-Chloroethylvinyl ether
- 2-Hexanone
- 4-Chlorotoluene
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromobenzene
- Bromodichloromethane
- Bromomethane
- Bromoform
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane
- Dibromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30176181

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: March 21, 2016

Analyte Comments:

QC Batch: MSV/27580

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

• Outfall 003 8'-16' West (Lab ID: 30176181004)

- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methylene Chloride
- Methyl-tert-butyl ether
- 4-Methyl-2-pentanone (MIBK)
- m&p-Xylene
- Naphthalene
- n-Butylbenzene
- n-Propylbenzene
- o-Xylene
- p-Isopropyltoluene
- sec-Butylbenzene
- Styrene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- Tetrachloroethene
- Toluene
- Trichloroethene
- Trichlorofluoromethane
- tert-Butylbenzene
- Vinyl acetate
- Vinyl chloride

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 002B 8'-12' **Lab ID: 30176181001** Collected: 03/10/16 10:35 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	3.7	mg/kg	0.41	1	03/17/16 11:45	03/21/16 09:01	7440-38-2	
Barium	28.2	mg/kg	1.7	1	03/17/16 11:45	03/21/16 09:01	7440-39-3	M1
Cadmium	42.0	mg/kg	0.25	1	03/17/16 11:45	03/21/16 09:01	7440-43-9	M1
Chromium	29.8	mg/kg	0.41	1	03/17/16 11:45	03/21/16 09:01	7440-47-3	M1
Lead	5.5	mg/kg	0.41	1	03/17/16 11:45	03/21/16 09:01	7439-92-1	
Selenium	ND	mg/kg	0.66	1	03/17/16 11:45	03/21/16 09:01	7782-49-2	R1
Silver	1.2	mg/kg	0.50	1	03/17/16 11:45	03/21/16 09:01	7440-22-4	R1
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.11	1	03/17/16 13:25	03/18/16 12:47	7439-97-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	13.1	ug/kg	9.1	1	03/18/16 11:11	03/20/16 17:41	67-64-1	1c,L1
Benzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	71-43-2	1c
Bromobenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	108-86-1	1c
Bromochloromethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	74-97-5	1c
Bromodichloromethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-27-4	1c
Bromoform	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-25-2	1c
Bromomethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	74-83-9	1c,L3
2-Butanone (MEK)	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 17:41	78-93-3	1c
n-Butylbenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	98-06-6	1c
Carbon disulfide	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	56-23-5	1c
Chlorobenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	108-90-7	1c
Chloroethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 17:41	110-75-8	1c
Chloroform	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	67-66-3	1c
Chloromethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	96-12-8	1c
Dibromochloromethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	106-93-4	1c
Dibromomethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	156-60-5	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 002B 8'-12' **Lab ID: 30176181001** Collected: 03/10/16 10:35 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
1,2-Dichloropropane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	87-68-3	1c
2-Hexanone	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 17:41	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	99-87-6	1c
Methylene Chloride	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 17:41	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	1634-04-4	1c
Naphthalene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	91-20-3	1c
n-Propylbenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	103-65-1	1c
Styrene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	127-18-4	1c
Toluene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	79-00-5	1c
Trichloroethene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	108-67-8	1c
Vinyl acetate	ND	ug/kg	45.6	1	03/18/16 11:11	03/20/16 17:41	108-05-4	1c
Vinyl chloride	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	75-01-4	1c
Xylene (Total)	ND	ug/kg	13.7	1	03/18/16 11:11	03/20/16 17:41	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 17:41	179601-23-1	1c
o-Xylene	ND	ug/kg	4.6	1	03/18/16 11:11	03/20/16 17:41	95-47-6	1c
Surrogates								
Toluene-d8 (S)	97	%	68-135	1	03/18/16 11:11	03/20/16 17:41	2037-26-5	
4-Bromofluorobenzene (S)	95	%	65-146	1	03/18/16 11:11	03/20/16 17:41	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	69-137	1	03/18/16 11:11	03/20/16 17:41	17060-07-0	
Dibromofluoromethane (S)	94	%	70-130	1	03/18/16 11:11	03/20/16 17:41	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	7.2	%	0.10	1	03/19/16 12:58
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 002A 8'-16' **Lab ID: 30176181002** Collected: 03/10/16 13:50 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	8.8	mg/kg	0.51	1	03/17/16 11:45	03/21/16 09:08	7440-38-2	
Barium	61.2	mg/kg	2.0	1	03/17/16 11:45	03/21/16 09:08	7440-39-3	
Cadmium	19.8	mg/kg	0.31	1	03/17/16 11:45	03/21/16 09:08	7440-43-9	
Chromium	895	mg/kg	0.51	1	03/17/16 11:45	03/21/16 09:08	7440-47-3	
Lead	38.8	mg/kg	0.51	1	03/17/16 11:45	03/21/16 09:08	7439-92-1	
Selenium	ND	mg/kg	0.81	1	03/17/16 11:45	03/21/16 09:08	7782-49-2	
Silver	2.9	mg/kg	0.61	1	03/17/16 11:45	03/21/16 09:08	7440-22-4	
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.10	1	03/17/16 13:25	03/18/16 12:52	7439-97-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	10.7	1	03/18/16 11:11	03/20/16 18:07	67-64-1	1c,L3
Benzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	71-43-2	1c
Bromobenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	108-86-1	1c
Bromochloromethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	74-97-5	1c
Bromodichloromethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-27-4	1c
Bromoform	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-25-2	1c
Bromomethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	74-83-9	1c,L3
2-Butanone (MEK)	ND	ug/kg	10.7	1	03/18/16 11:11	03/20/16 18:07	78-93-3	1c
n-Butylbenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	98-06-6	1c
Carbon disulfide	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	56-23-5	1c
Chlorobenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	108-90-7	1c
Chloroethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	10.7	1	03/18/16 11:11	03/20/16 18:07	110-75-8	1c
Chloroform	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	67-66-3	1c
Chloromethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	96-12-8	1c
Dibromochloromethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	106-93-4	1c
Dibromomethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	156-60-5	1c

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 002A 8'-16' **Lab ID: 30176181002** Collected: 03/10/16 13:50 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
1,2-Dichloropropane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	87-68-3	1c
2-Hexanone	ND	ug/kg	10.7	1	03/18/16 11:11	03/20/16 18:07	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	99-87-6	1c
Methylene Chloride	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.7	1	03/18/16 11:11	03/20/16 18:07	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	1634-04-4	1c
Naphthalene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	91-20-3	1c
n-Propylbenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	103-65-1	1c
Styrene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	79-34-5	1c
Tetrachloroethene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	127-18-4	1c
Toluene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	79-00-5	1c
Trichloroethene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	108-67-8	1c
Vinyl acetate	ND	ug/kg	53.3	1	03/18/16 11:11	03/20/16 18:07	108-05-4	1c
Vinyl chloride	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	75-01-4	1c
Xylene (Total)	ND	ug/kg	16.0	1	03/18/16 11:11	03/20/16 18:07	1330-20-7	
m&p-Xylene	ND	ug/kg	10.7	1	03/18/16 11:11	03/20/16 18:07	179601-23-1	1c
o-Xylene	ND	ug/kg	5.3	1	03/18/16 11:11	03/20/16 18:07	95-47-6	1c
Surrogates								
Toluene-d8 (S)	96	%	68-135	1	03/18/16 11:11	03/20/16 18:07	2037-26-5	
4-Bromofluorobenzene (S)	97	%	65-146	1	03/18/16 11:11	03/20/16 18:07	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	69-137	1	03/18/16 11:11	03/20/16 18:07	17060-07-0	
Dibromofluoromethane (S)	93	%	70-130	1	03/18/16 11:11	03/20/16 18:07	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	9.0	%	0.10	1	03/19/16 12:59
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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 002A 18'-22' **Lab ID: 30176181003** Collected: 03/10/16 14:25 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	5.0	mg/kg	0.52	1	03/17/16 11:45	03/21/16 09:10	7440-38-2	
Barium	61.3	mg/kg	2.1	1	03/17/16 11:45	03/21/16 09:10	7440-39-3	
Cadmium	45.3	mg/kg	0.31	1	03/17/16 11:45	03/21/16 09:10	7440-43-9	
Chromium	246	mg/kg	0.52	1	03/17/16 11:45	03/21/16 09:10	7440-47-3	
Lead	15.4	mg/kg	1.0	2	03/17/16 11:45	03/21/16 09:30	7439-92-1	
Selenium	ND	mg/kg	0.83	1	03/17/16 11:45	03/21/16 09:10	7782-49-2	
Silver	ND	mg/kg	0.63	1	03/17/16 11:45	03/21/16 09:10	7440-22-4	
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.10	1	03/17/16 13:25	03/18/16 12:53	7439-97-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	28.3	ug/kg	9.1	1	03/18/16 11:11	03/20/16 18:32	67-64-1	1c,L1
Benzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	71-43-2	1c
Bromobenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	108-86-1	1c
Bromochloromethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	74-97-5	1c
Bromodichloromethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-27-4	1c
Bromoform	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-25-2	1c
Bromomethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	74-83-9	1c,L3
2-Butanone (MEK)	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 18:32	78-93-3	1c
n-Butylbenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	98-06-6	1c
Carbon disulfide	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	56-23-5	1c
Chlorobenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	108-90-7	1c
Chloroethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 18:32	110-75-8	1c
Chloroform	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	67-66-3	1c
Chloromethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	96-12-8	1c
Dibromochloromethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	106-93-4	1c
Dibromomethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	156-60-5	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 002A 18'-22' **Lab ID: 30176181003** Collected: 03/10/16 14:25 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
1,2-Dichloropropane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	87-68-3	1c
2-Hexanone	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 18:32	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	99-87-6	1c
Methylene Chloride	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 18:32	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	1634-04-4	1c
Naphthalene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	91-20-3	1c
n-Propylbenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	103-65-1	1c
Styrene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	127-18-4	1c
Toluene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	79-00-5	1c
Trichloroethene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	108-67-8	1c
Vinyl acetate	ND	ug/kg	45.5	1	03/18/16 11:11	03/20/16 18:32	108-05-4	1c
Vinyl chloride	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	75-01-4	1c
Xylene (Total)	ND	ug/kg	13.6	1	03/18/16 11:11	03/20/16 18:32	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1	03/18/16 11:11	03/20/16 18:32	179601-23-1	1c
o-Xylene	ND	ug/kg	4.5	1	03/18/16 11:11	03/20/16 18:32	95-47-6	1c
Surrogates								
Toluene-d8 (S)	96	%	68-135	1	03/18/16 11:11	03/20/16 18:32	2037-26-5	
4-Bromofluorobenzene (S)	98	%	65-146	1	03/18/16 11:11	03/20/16 18:32	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	69-137	1	03/18/16 11:11	03/20/16 18:32	17060-07-0	
Dibromofluoromethane (S)	91	%	70-130	1	03/18/16 11:11	03/20/16 18:32	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	7.8	%	0.10	1	03/19/16 13:00
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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 003 8'-16' West **Lab ID: 30176181004** Collected: 03/10/16 11:05 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	3.8	mg/kg	0.53	1	03/17/16 11:45	03/21/16 09:12	7440-38-2	
Barium	39.8	mg/kg	2.1	1	03/17/16 11:45	03/21/16 09:12	7440-39-3	
Cadmium	59.2	mg/kg	0.32	1	03/17/16 11:45	03/21/16 09:12	7440-43-9	
Chromium	77.6	mg/kg	0.53	1	03/17/16 11:45	03/21/16 09:12	7440-47-3	
Lead	6.2	mg/kg	0.53	1	03/17/16 11:45	03/21/16 09:12	7439-92-1	
Selenium	ND	mg/kg	0.85	1	03/17/16 11:45	03/21/16 09:12	7782-49-2	
Silver	ND	mg/kg	0.63	1	03/17/16 11:45	03/21/16 09:12	7440-22-4	
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.13	1	03/17/16 13:25	03/18/16 12:55	7439-97-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	10.4	1	03/18/16 11:11	03/20/16 18:58	67-64-1	1c,L1
Benzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	71-43-2	1c
Bromobenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	108-86-1	1c
Bromochloromethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	74-97-5	1c
Bromodichloromethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-27-4	1c
Bromoform	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-25-2	1c
Bromomethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	74-83-9	1c,L3
2-Butanone (MEK)	ND	ug/kg	10.4	1	03/18/16 11:11	03/20/16 18:58	78-93-3	1c
n-Butylbenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	98-06-6	1c
Carbon disulfide	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	56-23-5	1c
Chlorobenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	108-90-7	1c
Chloroethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	10.4	1	03/18/16 11:11	03/20/16 18:58	110-75-8	1c
Chloroform	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	67-66-3	1c
Chloromethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	96-12-8	1c
Dibromochloromethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	106-93-4	1c
Dibromomethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	156-60-5	1c

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 003 8'-16' West **Lab ID: 30176181004** Collected: 03/10/16 11:05 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
1,2-Dichloropropane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	87-68-3	1c
2-Hexanone	ND	ug/kg	10.4	1	03/18/16 11:11	03/20/16 18:58	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	99-87-6	1c
Methylene Chloride	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.4	1	03/18/16 11:11	03/20/16 18:58	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	1634-04-4	1c
Naphthalene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	91-20-3	1c
n-Propylbenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	103-65-1	1c
Styrene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	79-34-5	1c
Tetrachloroethene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	127-18-4	1c
Toluene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	79-00-5	1c
Trichloroethene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	108-67-8	1c
Vinyl acetate	ND	ug/kg	51.9	1	03/18/16 11:11	03/20/16 18:58	108-05-4	1c
Vinyl chloride	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	75-01-4	1c
Xylene (Total)	ND	ug/kg	15.6	1	03/18/16 11:11	03/20/16 18:58	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	1	03/18/16 11:11	03/20/16 18:58	179601-23-1	1c
o-Xylene	ND	ug/kg	5.2	1	03/18/16 11:11	03/20/16 18:58	95-47-6	1c
Surrogates								
Toluene-d8 (S)	95	%	68-135	1	03/18/16 11:11	03/20/16 18:58	2037-26-5	
4-Bromofluorobenzene (S)	96	%	65-146	1	03/18/16 11:11	03/20/16 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	69-137	1	03/18/16 11:11	03/20/16 18:58	17060-07-0	
Dibromofluoromethane (S)	92	%	70-130	1	03/18/16 11:11	03/20/16 18:58	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	23.8	%	0.10	1	03/19/16 13:00
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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 003 8'-16' East **Lab ID: 30176181005** Collected: 03/10/16 11:35 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	3.2	mg/kg	0.50	1	03/17/16 11:45	03/21/16 09:14	7440-38-2	
Barium	30.4	mg/kg	2.0	1	03/17/16 11:45	03/21/16 09:14	7440-39-3	
Cadmium	37.9	mg/kg	0.30	1	03/17/16 11:45	03/21/16 09:14	7440-43-9	
Chromium	24.2	mg/kg	0.50	1	03/17/16 11:45	03/21/16 09:14	7440-47-3	
Lead	4.7	mg/kg	0.50	1	03/17/16 11:45	03/21/16 09:14	7439-92-1	
Selenium	ND	mg/kg	0.80	1	03/17/16 11:45	03/21/16 09:14	7782-49-2	
Silver	0.78	mg/kg	0.60	1	03/17/16 11:45	03/21/16 09:14	7440-22-4	
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.11	1	03/17/16 13:25	03/18/16 12:56	7439-97-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	9.7	ug/kg	8.9	1	03/18/16 11:11	03/20/16 19:24	67-64-1	1c,L1
Benzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	71-43-2	1c
Bromobenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	108-86-1	1c
Bromochloromethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	74-97-5	1c
Bromodichloromethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-27-4	1c
Bromoform	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-25-2	1c
Bromomethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	74-83-9	1c,L3
2-Butanone (MEK)	ND	ug/kg	8.9	1	03/18/16 11:11	03/20/16 19:24	78-93-3	1c
n-Butylbenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	98-06-6	1c
Carbon disulfide	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	56-23-5	1c
Chlorobenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	108-90-7	1c
Chloroethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	8.9	1	03/18/16 11:11	03/20/16 19:24	110-75-8	1c
Chloroform	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	67-66-3	1c
Chloromethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	96-12-8	1c
Dibromochloromethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	106-93-4	1c
Dibromomethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	156-60-5	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF
Pace Project No.: 30176181

Sample: Outfall 003 8'-16' East **Lab ID: 30176181005** Collected: 03/10/16 11:35 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
1,2-Dichloropropane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	87-68-3	1c
2-Hexanone	ND	ug/kg	8.9	1	03/18/16 11:11	03/20/16 19:24	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	99-87-6	1c
Methylene Chloride	5.2	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	1	03/18/16 11:11	03/20/16 19:24	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	1634-04-4	1c
Naphthalene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	91-20-3	1c
n-Propylbenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	103-65-1	1c
Styrene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	127-18-4	1c
Toluene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	79-00-5	1c
Trichloroethene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	108-67-8	1c
Vinyl acetate	ND	ug/kg	44.4	1	03/18/16 11:11	03/20/16 19:24	108-05-4	1c
Vinyl chloride	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	75-01-4	1c
Xylene (Total)	ND	ug/kg	13.3	1	03/18/16 11:11	03/20/16 19:24	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1	03/18/16 11:11	03/20/16 19:24	179601-23-1	1c
o-Xylene	ND	ug/kg	4.4	1	03/18/16 11:11	03/20/16 19:24	95-47-6	1c
Surrogates								
Toluene-d8 (S)	95	%	68-135	1	03/18/16 11:11	03/20/16 19:24	2037-26-5	
4-Bromofluorobenzene (S)	96	%	65-146	1	03/18/16 11:11	03/20/16 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	69-137	1	03/18/16 11:11	03/20/16 19:24	17060-07-0	
Dibromofluoromethane (S)	91	%	70-130	1	03/18/16 11:11	03/20/16 19:24	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	7.3	%	0.10	1	03/19/16 13:01
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ANALYTICAL RESULTS

Project: 99011A TCMF
Pace Project No.: 30176181

Sample: Outfall 003 18'-22' **Lab ID: 30176181006** Collected: 03/10/16 12:10 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	4.6	mg/kg	0.49	1	03/17/16 11:45	03/21/16 09:17	7440-38-2	
Barium	42.2	mg/kg	2.0	1	03/17/16 11:45	03/21/16 09:17	7440-39-3	
Cadmium	24.5	mg/kg	0.29	1	03/17/16 11:45	03/21/16 09:17	7440-43-9	
Chromium	21.8	mg/kg	0.49	1	03/17/16 11:45	03/21/16 09:17	7440-47-3	
Lead	10	mg/kg	0.49	1	03/17/16 11:45	03/21/16 09:17	7439-92-1	
Selenium	ND	mg/kg	0.78	1	03/17/16 11:45	03/21/16 09:17	7782-49-2	
Silver	ND	mg/kg	0.59	1	03/17/16 11:45	03/21/16 09:17	7440-22-4	
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.10	1	03/17/16 13:25	03/18/16 12:58	7439-97-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	10.4	ug/kg	9.6	1	03/18/16 11:11	03/20/16 19:49	67-64-1	1c,L1
Benzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	71-43-2	1c
Bromobenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	108-86-1	1c
Bromochloromethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	74-97-5	1c
Bromodichloromethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-27-4	1c
Bromoform	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-25-2	1c
Bromomethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	74-83-9	1c,L3
2-Butanone (MEK)	ND	ug/kg	9.6	1	03/18/16 11:11	03/20/16 19:49	78-93-3	1c
n-Butylbenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	98-06-6	1c
Carbon disulfide	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	56-23-5	1c
Chlorobenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	108-90-7	1c
Chloroethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	9.6	1	03/18/16 11:11	03/20/16 19:49	110-75-8	1c
Chloroform	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	67-66-3	1c
Chloromethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	96-12-8	1c
Dibromochloromethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	106-93-4	1c
Dibromomethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	156-60-5	1c

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30176181

Sample: Outfall 003 18'-22' **Lab ID: 30176181006** Collected: 03/10/16 12:10 Received: 03/12/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
1,2-Dichloropropane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	87-68-3	1c
2-Hexanone	ND	ug/kg	9.6	1	03/18/16 11:11	03/20/16 19:49	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	99-87-6	1c
Methylene Chloride	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.6	1	03/18/16 11:11	03/20/16 19:49	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	1634-04-4	1c
Naphthalene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	91-20-3	1c
n-Propylbenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	103-65-1	1c
Styrene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	127-18-4	1c
Toluene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	79-00-5	1c
Trichloroethene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	108-67-8	1c
Vinyl acetate	ND	ug/kg	47.8	1	03/18/16 11:11	03/20/16 19:49	108-05-4	1c
Vinyl chloride	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	75-01-4	1c
Xylene (Total)	ND	ug/kg	14.3	1	03/18/16 11:11	03/20/16 19:49	1330-20-7	
m&p-Xylene	ND	ug/kg	9.6	1	03/18/16 11:11	03/20/16 19:49	179601-23-1	1c
o-Xylene	ND	ug/kg	4.8	1	03/18/16 11:11	03/20/16 19:49	95-47-6	1c
Surrogates								
Toluene-d8 (S)	95	%	68-135	1	03/18/16 11:11	03/20/16 19:49	2037-26-5	
4-Bromofluorobenzene (S)	96	%	65-146	1	03/18/16 11:11	03/20/16 19:49	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	69-137	1	03/18/16 11:11	03/20/16 19:49	17060-07-0	
Dibromofluoromethane (S)	92	%	70-130	1	03/18/16 11:11	03/20/16 19:49	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	5.3	%	0.10	1	03/19/16 13:01
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QUALITY CONTROL DATA

Project: 99011A TCMF
Pace Project No.: 30176181

QC Batch: MERP/7489 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury
Associated Lab Samples: 30176181001, 30176181002, 30176181003, 30176181004, 30176181005, 30176181006

METHOD BLANK: 1042832 Matrix: Solid
Associated Lab Samples: 30176181001, 30176181002, 30176181003, 30176181004, 30176181005, 30176181006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	03/18/16 12:43	

LABORATORY CONTROL SAMPLE: 1042833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.042	.042J	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1042834 1042835

Parameter	Units	30176181001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Mercury	mg/kg	ND	.11	.11	0.12	0.11	100	96	80-120	8		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30176181

QC Batch: MPRP/17841 Analysis Method: EPA 6010C
 QC Batch Method: EPA 3050B Analysis Description: 6010C MET
 Associated Lab Samples: 30176181001, 30176181002, 30176181003, 30176181004, 30176181005, 30176181006

METHOD BLANK: 1042815 Matrix: Solid
 Associated Lab Samples: 30176181001, 30176181002, 30176181003, 30176181004, 30176181005, 30176181006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	03/21/16 09:27	
Barium	mg/kg	ND	2.0	03/21/16 09:27	
Cadmium	mg/kg	ND	0.30	03/21/16 09:27	
Chromium	mg/kg	ND	0.50	03/21/16 09:27	
Lead	mg/kg	ND	0.50	03/21/16 09:27	
Selenium	mg/kg	ND	0.80	03/21/16 09:27	
Silver	mg/kg	ND	0.60	03/21/16 09:27	

LABORATORY CONTROL SAMPLE: 1042816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	46.8	94	80-120	
Barium	mg/kg	50	47.9	96	80-120	
Cadmium	mg/kg	50	49.0	98	80-120	
Chromium	mg/kg	50	52.5	105	80-120	
Lead	mg/kg	50	47.3	95	80-120	
Selenium	mg/kg	50	46.2	92	80-120	
Silver	mg/kg	25	24.0	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1042817 1042818

Parameter	30176181001		MS		MSD		MS		MSD		% Rec	
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS Rec Limits	MSD Rec Limits	RPD	Qual
Arsenic	mg/kg	3.7	35	44.9	35.9	44.1	92	90	75-125	20		
Barium	mg/kg	28.2	35	44.9	89.7	90.3	176	138	75-125	1	M1	
Cadmium	mg/kg	42.0	35	44.9	164	165	350	274	75-125	0	M1	
Chromium	mg/kg	29.8	35	44.9	90.0	95.5	172	146	75-125	6	M1	
Lead	mg/kg	5.5	35	44.9	44.2	52.4	111	105	75-125	17		
Selenium	mg/kg	ND	35	44.9	28.8	37.2	82	83	75-125	26	R1	
Silver	mg/kg	1.2	17.5	22.4	17.8	22.8	95	96	75-125	25	R1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF
Pace Project No.: 30176181

QC Batch: MSV/27580 Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A Analysis Description: 8260C MSV 5035 Low
Associated Lab Samples: 30176181001, 30176181002, 30176181003, 30176181004, 30176181005, 30176181006

METHOD BLANK: 1044522 Matrix: Solid
Associated Lab Samples: 30176181001, 30176181002, 30176181003, 30176181004, 30176181005, 30176181006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	03/20/16 17:15	
1,1,1-Trichloroethane	ug/kg	ND	5.0	03/20/16 17:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	03/20/16 17:15	
1,1,2-Trichloroethane	ug/kg	ND	5.0	03/20/16 17:15	
1,1-Dichloroethane	ug/kg	ND	5.0	03/20/16 17:15	
1,1-Dichloroethene	ug/kg	ND	5.0	03/20/16 17:15	
1,1-Dichloropropene	ug/kg	ND	5.0	03/20/16 17:15	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	03/20/16 17:15	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	03/20/16 17:15	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	03/20/16 17:15	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	03/20/16 17:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	03/20/16 17:15	
1,2-Dichlorobenzene	ug/kg	ND	5.0	03/20/16 17:15	
1,2-Dichloroethane	ug/kg	ND	5.0	03/20/16 17:15	
1,2-Dichloropropane	ug/kg	ND	5.0	03/20/16 17:15	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	03/20/16 17:15	
1,3-Dichlorobenzene	ug/kg	ND	5.0	03/20/16 17:15	
1,3-Dichloropropane	ug/kg	ND	5.0	03/20/16 17:15	
1,4-Dichlorobenzene	ug/kg	ND	5.0	03/20/16 17:15	
2,2-Dichloropropane	ug/kg	ND	5.0	03/20/16 17:15	
2-Butanone (MEK)	ug/kg	ND	10.0	03/20/16 17:15	
2-Chloroethylvinyl ether	ug/kg	ND	10.0	03/20/16 17:15	
2-Chlorotoluene	ug/kg	ND	5.0	03/20/16 17:15	
2-Hexanone	ug/kg	ND	10.0	03/20/16 17:15	
4-Chlorotoluene	ug/kg	ND	5.0	03/20/16 17:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	03/20/16 17:15	
Acetone	ug/kg	ND	10.0	03/20/16 17:15	
Benzene	ug/kg	ND	5.0	03/20/16 17:15	
Bromobenzene	ug/kg	ND	5.0	03/20/16 17:15	
Bromochloromethane	ug/kg	ND	5.0	03/20/16 17:15	
Bromodichloromethane	ug/kg	ND	5.0	03/20/16 17:15	
Bromoform	ug/kg	ND	5.0	03/20/16 17:15	
Bromomethane	ug/kg	ND	5.0	03/20/16 17:15	
Carbon disulfide	ug/kg	ND	5.0	03/20/16 17:15	
Carbon tetrachloride	ug/kg	ND	5.0	03/20/16 17:15	
Chlorobenzene	ug/kg	ND	5.0	03/20/16 17:15	
Chloroethane	ug/kg	ND	5.0	03/20/16 17:15	
Chloroform	ug/kg	ND	5.0	03/20/16 17:15	
Chloromethane	ug/kg	ND	5.0	03/20/16 17:15	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	03/20/16 17:15	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	03/20/16 17:15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Peace Project No.: 30176181

METHOD BLANK: 1044522

Matrix: Solid

Associated Lab Samples: 30176181001, 30176181002, 30176181003, 30176181004, 30176181005, 30176181006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	03/20/16 17:15	
Dibromomethane	ug/kg	ND	5.0	03/20/16 17:15	
Dichlorodifluoromethane	ug/kg	ND	5.0	03/20/16 17:15	
Ethylbenzene	ug/kg	ND	5.0	03/20/16 17:15	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	03/20/16 17:15	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	03/20/16 17:15	
m&p-Xylene	ug/kg	ND	10.0	03/20/16 17:15	
Methyl-tert-butyl ether	ug/kg	ND	5.0	03/20/16 17:15	
Methylene Chloride	ug/kg	ND	5.0	03/20/16 17:15	
n-Butylbenzene	ug/kg	ND	5.0	03/20/16 17:15	
n-Propylbenzene	ug/kg	ND	5.0	03/20/16 17:15	
Naphthalene	ug/kg	ND	5.0	03/20/16 17:15	
o-Xylene	ug/kg	ND	5.0	03/20/16 17:15	
p-Isopropyltoluene	ug/kg	ND	5.0	03/20/16 17:15	
sec-Butylbenzene	ug/kg	ND	5.0	03/20/16 17:15	
Styrene	ug/kg	ND	5.0	03/20/16 17:15	
tert-Butylbenzene	ug/kg	ND	5.0	03/20/16 17:15	
Tetrachloroethene	ug/kg	ND	5.0	03/20/16 17:15	
Toluene	ug/kg	ND	5.0	03/20/16 17:15	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	03/20/16 17:15	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	03/20/16 17:15	
Trichloroethene	ug/kg	ND	5.0	03/20/16 17:15	
Trichlorofluoromethane	ug/kg	ND	5.0	03/20/16 17:15	
Vinyl acetate	ug/kg	ND	50.0	03/20/16 17:15	
Vinyl chloride	ug/kg	ND	5.0	03/20/16 17:15	
Xylene (Total)	ug/kg	ND	15.0	03/20/16 17:15	
1,2-Dichloroethane-d4 (S)	%	102	69-137	03/20/16 17:15	
4-Bromofluorobenzene (S)	%	96	65-146	03/20/16 17:15	
Dibromofluoromethane (S)	%	93	70-130	03/20/16 17:15	
Toluene-d8 (S)	%	96	68-135	03/20/16 17:15	

LABORATORY CONTROL SAMPLE: 1044523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	17.8	89	59-126	
1,1,1-Trichloroethane	ug/kg	20	19.2	96	71-130	
1,1,2,2-Tetrachloroethane	ug/kg	20	18.7	94	66-123	
1,1,2-Trichloroethane	ug/kg	20	19.2	96	75-115	
1,1-Dichloroethane	ug/kg	20	18.9	94	65-126	
1,1-Dichloroethene	ug/kg	20	18.6	93	62-137	
1,1-Dichloropropene	ug/kg	20	19.6	98	50-144	
1,2,3-Trichlorobenzene	ug/kg	20	21.9	110	65-135	
1,2,4-Trichlorobenzene	ug/kg	20	22.0	110	78-137	
1,2,4-Trimethylbenzene	ug/kg	20	21.2	106	79-125	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30176181

LABORATORY CONTROL SAMPLE: 1044523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	20	16.1	81	21-150	
1,2-Dibromoethane (EDB)	ug/kg	20	20.2	101	74-118	
1,2-Dichlorobenzene	ug/kg	20	20.2	101	82-121	
1,2-Dichloroethane	ug/kg	20	19.7	99	67-116	
1,2-Dichloropropane	ug/kg	20	19.7	99	67-119	
1,3,5-Trimethylbenzene	ug/kg	20	21.0	105	74-129	
1,3-Dichlorobenzene	ug/kg	20	20.0	100	80-124	
1,3-Dichloropropane	ug/kg	20	19.8	99	65-121	
1,4-Dichlorobenzene	ug/kg	20	20.2	101	80-126	
2,2-Dichloropropane	ug/kg	20	21.5	108	32-155	
2-Butanone (MEK)	ug/kg	20	17.7	88	42-116	
2-Chloroethylvinyl ether	ug/kg	20	18.0	90	16-145	
2-Chlorotoluene	ug/kg	20	20.7	104	62-131	
2-Hexanone	ug/kg	20	16.8	84	54-121	
4-Chlorotoluene	ug/kg	20	19.7	98	58-131	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	19.6	98	52-119	
Acetone	ug/kg	20	23.7	119	32-113	L0
Benzene	ug/kg	20	21.0	105	71-137	
Bromobenzene	ug/kg	20	20.3	101	52-135	
Bromochloromethane	ug/kg	20	19.0	95	63-127	
Bromodichloromethane	ug/kg	20	19.2	96	67-121	
Bromoform	ug/kg	20	14.7	73	58-122	
Bromomethane	ug/kg	20	34.4	172	27-164	L0
Carbon disulfide	ug/kg	20	19.2	96	60-172	
Carbon tetrachloride	ug/kg	20	18.4	92	66-132	
Chlorobenzene	ug/kg	20	19.8	99	80-119	
Chloroethane	ug/kg	20	25.4	127	53-149	
Chloroform	ug/kg	20	19.9	99	70-120	
Chloromethane	ug/kg	20	23.2	116	47-147	
cis-1,2-Dichloroethene	ug/kg	20	18.5	92	64-120	
cis-1,3-Dichloropropene	ug/kg	20	19.5	97	67-123	
Dibromochloromethane	ug/kg	20	16.2	81	67-120	
Dibromomethane	ug/kg	20	18.9	95	54-123	
Dichlorodifluoromethane	ug/kg	20	21.5	107	10-175	
Ethylbenzene	ug/kg	20	20.3	102	78-126	
Hexachloro-1,3-butadiene	ug/kg	20	19.2	96	52-156	
Isopropylbenzene (Cumene)	ug/kg	20	20.6	103	78-133	
m&p-Xylene	ug/kg	40	40.5	101	77-129	
Methyl-tert-butyl ether	ug/kg	20	17.6	88	77-141	
Methylene Chloride	ug/kg	20	23.9	119	50-125	
n-Butylbenzene	ug/kg	20	20.7	104	74-140	
n-Propylbenzene	ug/kg	20	20.7	104	70-140	
Naphthalene	ug/kg	20	21.3	107	81-126	
o-Xylene	ug/kg	20	20.6	103	80-125	
p-Isopropyltoluene	ug/kg	20	21.2	106	74-136	
sec-Butylbenzene	ug/kg	20	20.8	104	81-132	
Styrene	ug/kg	20	19.5	98	79-130	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30176181

LABORATORY CONTROL SAMPLE: 1044523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	20	20.7	104	77-129	
Tetrachloroethene	ug/kg	20	20.2	101	73-135	
Toluene	ug/kg	20	19.6	98	72-127	
trans-1,2-Dichloroethene	ug/kg	20	18.7	93	64-131	
trans-1,3-Dichloropropene	ug/kg	20	18.1	91	66-116	
Trichloroethene	ug/kg	20	19.6	98	73-125	
Trichlorofluoromethane	ug/kg	20	20.7	103	39-192	
Vinyl acetate	ug/kg		ND			
Vinyl chloride	ug/kg	20	23.7	119	46-138	
Xylene (Total)	ug/kg	60	61.1	102	80-124	
1,2-Dichloroethane-d4 (S)	%			102	69-137	
4-Bromofluorobenzene (S)	%			97	65-146	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			97	68-135	

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QUALIFIERS

Project: 99011A TCMF
Pace Project No.: 30176181

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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/27580

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF
Pace Project No.: 30176181

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30176181001	Outfall 002B 8'-12'	EPA 3050B	MPRP/17841	EPA 6010C	ICP/16942
30176181002	Outfall 002A 8'-16'	EPA 3050B	MPRP/17841	EPA 6010C	ICP/16942
30176181003	Outfall 002A 18'-22'	EPA 3050B	MPRP/17841	EPA 6010C	ICP/16942
30176181004	Outfall 003 8'-16' West	EPA 3050B	MPRP/17841	EPA 6010C	ICP/16942
30176181005	Outfall 003 8'-16' East	EPA 3050B	MPRP/17841	EPA 6010C	ICP/16942
30176181006	Outfall 003 18'-22'	EPA 3050B	MPRP/17841	EPA 6010C	ICP/16942
30176181001	Outfall 002B 8'-12'	EPA 7471B	MERP/7489	EPA 7471B	MERC/7164
30176181002	Outfall 002A 8'-16'	EPA 7471B	MERP/7489	EPA 7471B	MERC/7164
30176181003	Outfall 002A 18'-22'	EPA 7471B	MERP/7489	EPA 7471B	MERC/7164
30176181004	Outfall 003 8'-16' West	EPA 7471B	MERP/7489	EPA 7471B	MERC/7164
30176181005	Outfall 003 8'-16' East	EPA 7471B	MERP/7489	EPA 7471B	MERC/7164
30176181006	Outfall 003 18'-22'	EPA 7471B	MERP/7489	EPA 7471B	MERC/7164
30176181001	Outfall 002B 8'-12'	EPA 5035A	MSV/27580	EPA 8260C	MSV/27581
30176181002	Outfall 002A 8'-16'	EPA 5035A	MSV/27580	EPA 8260C	MSV/27581
30176181003	Outfall 002A 18'-22'	EPA 5035A	MSV/27580	EPA 8260C	MSV/27581
30176181004	Outfall 003 8'-16' West	EPA 5035A	MSV/27580	EPA 8260C	MSV/27581
30176181005	Outfall 003 8'-16' East	EPA 5035A	MSV/27580	EPA 8260C	MSV/27581
30176181006	Outfall 003 18'-22'	EPA 5035A	MSV/27580	EPA 8260C	MSV/27581
30176181001	Outfall 002B 8'-12'	ASTM D2974-87	PMST/6016		
30176181002	Outfall 002A 8'-16'	ASTM D2974-87	PMST/6016		
30176181003	Outfall 002A 18'-22'	ASTM D2974-87	PMST/6016		
30176181004	Outfall 003 8'-16' West	ASTM D2974-87	PMST/6016		
30176181005	Outfall 003 8'-16' East	ASTM D2974-87	PMST/6016		
30176181006	Outfall 003 18'-22'	ASTM D2974-87	PMST/6016		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A
 Required Client Information:
 Company: Geologic NY Inc.
 Address: PO Box 350
Homer NY
 Email To: geologicny@geologicny.com
 Phone: 607-749-5800
 Requested Due Date/TAT: Standard

Section B
 Required Project Information:
 Report To: Geologic
 Copy To: Susan Cummins
 Purchase Order No.: 99011A
 Project Name: TCHF
 Project Number: 99011A

Section C
 Invoice Information:
 Attention: SAME
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location: NY
 STATE:

Page: 1 of 1
2020868

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				COMPOSITE START	COMPOSITE END/GRAB									
1	Outfall 002B 8'-12'	DW	SLG			1035	2 X	Unpreserved						
2	Outfall 002A 8'-16'	WT	SLG			1350	2 X							
3	Outfall 002A 18'-22'	WW	SLG			1425	2 X							
4	Outfall 003 8'-16' West	P	SLG			1105	2 X							
5	Outfall 003 8'-16' East	SL	SLG			1135	2 X							
6	Outfall 003 18'-22'	OL	SLG			1210	2 X							
7		WP												
8		AR												
9		TS												
10		OT												
11														
12														

Residual Chlorine (Y/N)

30176181

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>Susan Cummins</u>	<u>3-10-16</u>	<u>815</u>	<u>Phil Flay Pace</u>	<u>3/11/16</u>	<u>815</u>	
	<u>Phil Flay Pace</u>	<u>3/11/16</u>	<u>1600</u>		<u>3/11/16</u>	<u>1000</u>	<u>Y</u>

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Susan Cummins
 SIGNATURE of SAMPLER: Susan Cummins
 DATE Signed (MM/DD/YY): 3-10-16



Sample Condition Upon Receipt

30176181

Client Name: Geologic M

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 775854006957

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 8 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 4.6 °C Correction Factor: 0.0 °C Final Temp: 4.6 °C

Date and initials of person examining contents: slm
3/12/16

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>sl</u>	<u>date on all samples 3/10/16</u>
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>slm</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel J. Christie

Date: 3/14/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

30176181

page 2

Project Number:

Client Name: Geologic M



Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Disolved Metals preserved Y	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubtainer (500 ml / 4L)	Ziploc	Other	Other
001	SL	2																						
002	SL	2																						

April 06, 2016

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

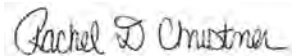
RE: Project: 99011A TCMF
Pace Project No.: 30178100

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on March 31, 2016. 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 99011A TCMF

Pace Project No.: 30178100

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF

Pace Project No.: 30178100

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30178100001	MW-5R 2'-6'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	SRA	1	PASI-PA
30178100002	MW-5R 6'-10'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	SRA	1	PASI-PA
30178100003	MW-5R 10'-14'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	SRA	1	PASI-PA
30178100004	MW-5R 14'-18'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	SRA	1	PASI-PA
30178100005	MW-5R 20'-27'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	SRA	1	PASI-PA
30178100006	MW-8 10'-14'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	SRA	1	PASI-PA
30178100007	MW-8 14'-18'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	SRA	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF
Pace Project No.: 30178100

Method: EPA 6010C
Description: 6010C MET ICP
Client: GeoLogic NY, Inc.
Date: April 06, 2016

General Information:

7 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 3050B 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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: MPRP/17970

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30178100001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1052393)
- Chromium

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF
Pace Project No.: 30178100

Sample: MW-5R 2'-6' **Lab ID: 30178100001** Collected: 03/28/16 09:50 Received: 03/31/16 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	2.6	mg/kg	0.27	1	04/02/16 13:50	04/05/16 14:03	7440-43-9	
Chromium	99.2	mg/kg	0.45	1	04/02/16 13:50	04/05/16 14:03	7440-47-3	M1
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.1	%	0.10	1		04/05/16 14:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30178100

Sample: MW-5R 6'-10' **Lab ID: 30178100002** Collected: 03/28/16 10:10 Received: 03/31/16 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	0.29	mg/kg	0.29	1	04/02/16 13:50	04/05/16 14:10	7440-43-9	
Chromium	10.5	mg/kg	0.48	1	04/02/16 13:50	04/05/16 14:10	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	6.4	%	0.10	1		04/05/16 14:37		

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30178100

Sample: MW-5R 10'-14' **Lab ID: 30178100003** Collected: 03/28/16 10:30 Received: 03/31/16 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	ND	mg/kg	0.25	1	04/02/16 13:50	04/05/16 14:13	7440-43-9	
Chromium	7.9	mg/kg	0.42	1	04/02/16 13:50	04/05/16 14:13	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.9	%	0.10	1		04/05/16 14:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30178100

Sample: MW-5R 14'-18' **Lab ID: 30178100004** Collected: 03/28/16 11:00 Received: 03/31/16 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	0.28	mg/kg	0.26	1	04/02/16 13:50	04/05/16 14:15	7440-43-9	
Chromium	9.8	mg/kg	0.43	1	04/02/16 13:50	04/05/16 14:15	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.0	%	0.10	1		04/05/16 14:39		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30178100

Sample: MW-5R 20'-27' **Lab ID: 30178100005** Collected: 03/29/16 08:45 Received: 03/31/16 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	0.22	mg/kg	0.19	1	04/02/16 13:50	04/05/16 14:18	7440-43-9	
Chromium	9.5	mg/kg	0.32	1	04/02/16 13:50	04/05/16 14:18	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	6.8	%	0.10	1		04/05/16 14:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30178100

Sample: MW-8 10'-14' **Lab ID: 30178100006** Collected: 03/29/16 09:40 Received: 03/31/16 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	6.3	mg/kg	0.23	1	04/02/16 13:50	04/05/16 14:20	7440-43-9	
Chromium	83.1	mg/kg	0.38	1	04/02/16 13:50	04/05/16 14:20	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	7.3	%	0.10	1		04/05/16 14:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30178100

Sample: MW-8 14'-18' **Lab ID: 30178100007** Collected: 03/29/16 10:15 Received: 03/31/16 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	8.3	mg/kg	0.20	1	04/02/16 13:50	04/05/16 14:27	7440-43-9	
Chromium	18.8	mg/kg	0.33	1	04/02/16 13:50	04/05/16 14:27	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	5.4	%	0.10	1		04/05/16 14:42		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30178100

QC Batch: MPRP/17970 Analysis Method: EPA 6010C
 QC Batch Method: EPA 3050B Analysis Description: 6010C MET
 Associated Lab Samples: 30178100001, 30178100002, 30178100003, 30178100004, 30178100005, 30178100006, 30178100007

METHOD BLANK: 1052390 Matrix: Solid
 Associated Lab Samples: 30178100001, 30178100002, 30178100003, 30178100004, 30178100005, 30178100006, 30178100007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.30	04/05/16 13:58	
Chromium	mg/kg	ND	0.50	04/05/16 13:58	

LABORATORY CONTROL SAMPLE: 1052391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	45.1	90	80-120	
Chromium	mg/kg	50	41.3	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1052393 1052392

Parameter	Units	30178100001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Cadmium	mg/kg	2.6	42.1	47.5	43.4	45.1	97	89	75-125	4		
Chromium	mg/kg	99.2	42.1	47.5	173	150	176	106	75-125	15	M1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30178100

QC Batch:	PMST/6059	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	30178100001, 30178100002, 30178100003, 30178100004, 30178100005, 30178100006, 30178100007		

SAMPLE DUPLICATE: 1053343

Parameter	Units	30177604001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	4.1	2.3	56	D6

SAMPLE DUPLICATE: 1053344

Parameter	Units	30177604002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	3.5	3.8	8	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 99011A TCMF

Pace Project No.: 30178100

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF
Pace Project No.: 30178100

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30178100001	MW-5R 2'-6'	EPA 3050B	MPRP/17970	EPA 6010C	ICP/17072
30178100002	MW-5R 6'-10'	EPA 3050B	MPRP/17970	EPA 6010C	ICP/17072
30178100003	MW-5R 10'-14'	EPA 3050B	MPRP/17970	EPA 6010C	ICP/17072
30178100004	MW-5R 14'-18'	EPA 3050B	MPRP/17970	EPA 6010C	ICP/17072
30178100005	MW-5R 20'-27'	EPA 3050B	MPRP/17970	EPA 6010C	ICP/17072
30178100006	MW-8 10'-14'	EPA 3050B	MPRP/17970	EPA 6010C	ICP/17072
30178100007	MW-8 14'-18'	EPA 3050B	MPRP/17970	EPA 6010C	ICP/17072
30178100001	MW-5R 2'-6'	ASTM D2974-87	PMST/6059		
30178100002	MW-5R 6'-10'	ASTM D2974-87	PMST/6059		
30178100003	MW-5R 10'-14'	ASTM D2974-87	PMST/6059		
30178100004	MW-5R 14'-18'	ASTM D2974-87	PMST/6059		
30178100005	MW-5R 20'-27'	ASTM D2974-87	PMST/6059		
30178100006	MW-8 10'-14'	ASTM D2974-87	PMST/6059		
30178100007	MW-8 14'-18'	ASTM D2974-87	PMST/6059		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Project Information:		Section C Invoice Information:	
Company: Geologic NY Inc.	Report To: Geologic	Attention: Same		Page: 1 of 1	REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____
Address: Po Box 350 Homer NY 13077	Copy To: Susan Cummins	Company Name:		1701091	
Email To: geologicny@geologic.net	Purchase Order No.: 99011A	Address:			
Phone: 601-749-5000	Project Name: TCHF	Pace Quote Reference:			
Requested Due Date/TAT: STANDARD	Project Number: 99011A	Pace Project Manager:			
		Pace Profile #:			
		Site Location STATE: NY			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB					DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃				
1	MW-SR 2'-6'	DW WT WW P SL OL WP AR TS OT			SL C			1	X								001		
2	MW-SR 6'-10'				SL C			1	X								002		
3	MW-SR 10'-14'				SL C			1	X								003		
4	MW-SR 14'-18'				SL C			1	X								004		
5	MW-SR 20'-27'				SL C			1	X								005		
6	MW-S 10'-14'				SL C			1	X								006		
7	MW-S 14'-18'				SL C			1	X								007		
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Susan Cummins	3-29-16	1805	OFFICE REFRIG			
	office ETCY	3-30-16	10:35	OFFICE PACE	3/30/16	10:35	
	OFFICE PACE	3/30/16	18:00	Alyssa R. Mackeary	3/31/16	10:35	Y N Y
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Susan Cummins SIGNATURE of SAMPLER: <i>[Signature]</i>							
Temp in °C _____ Received on Ice (Y/N) _____ Custody Sealed Cooler (Y/N) _____ Samples Intact (Y/N) _____							

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Sample Condition Upon Receipt

Client Name: Geologic

Project # 30178100

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 815099182743

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap Bubble Bags _____ None _____ Other _____

Thermometer Used 8 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 0.2 °C Correction Factor: +0.1 °C Final Temp: 0.3 °C

Date and initials of person examining contents: APM 3/31/10

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>APM</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

Patricia D. Christman

Date:

3/31/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

April 22, 2016

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

RE: Project: 99011A TCMF
Pace Project No.: 30179490

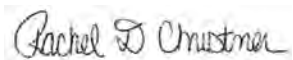
Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2016. 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.

The samples were subcontracted to Pace Analytical Services, Inc., 575 Broad Hollow Road, Melville, NY 11747 for VOC analysis. Results of the analysis are reported on the Pace Analytical, Melville data tables.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 99011A TCMF

Pace Project No.: 30179490

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF
Pace Project No.: 30179490

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30179490001	MW-3	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
30179490002	MW-3HA	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
30179490003	MW-4	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
30179490004	MW-5R	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
30179490005	MW-6	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
30179490007	MW-7R	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
30179490009	MW-8	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
30179490010	MW-8 Duplicate	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
30179490011	MW-9	EPA 6010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF

Pace Project No.: 30179490

Method: EPA 6010B

Description: 6010 MET ICP

Client: GeoLogic NY, Inc.

Date: April 22, 2016

General Information:

9 samples were analyzed for EPA 6010B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 3005A 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF
Pace Project No.: 30179490

Method: EPA 7470A
Description: 7470 Mercury
Client: GeoLogic NY, Inc.
Date: April 22, 2016

General Information:

9 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 7470A 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30179490

Sample: MW-3		Lab ID: 30179490001	Collected: 04/11/16 12:00	Received: 04/13/16 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:08	7440-38-2	
Barium	60.8	ug/L	10.0	1	04/14/16 13:00	04/20/16 11:08	7440-39-3	
Cadmium	10.5	ug/L	3.0	1	04/14/16 13:00	04/20/16 11:08	7440-43-9	
Chromium	161	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:08	7440-47-3	
Lead	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:08	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 11:08	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 11:08	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:03	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30179490

Sample: MW-3HA		Lab ID: 30179490002	Collected: 04/11/16 16:10	Received: 04/13/16 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:11	7440-38-2	
Barium	45.1	ug/L	10.0	1	04/14/16 13:00	04/20/16 11:11	7440-39-3	
Cadmium	7.1	ug/L	3.0	1	04/14/16 13:00	04/20/16 11:11	7440-43-9	
Chromium	19.6	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:11	7440-47-3	
Lead	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:11	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 11:11	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 11:11	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:07	7439-97-6	

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ANALYTICAL RESULTS

Project: 99011A TCMF
Pace Project No.: 30179490

Sample: MW-4		Lab ID: 30179490003		Collected: 04/11/16 11:15	Received: 04/13/16 09:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:13	7440-38-2	
Barium	58.8	ug/L	10.0	1	04/14/16 13:00	04/20/16 11:13	7440-39-3	
Cadmium	ND	ug/L	3.0	1	04/14/16 13:00	04/20/16 11:13	7440-43-9	
Chromium	17.0	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:13	7440-47-3	
Lead	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:13	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 11:13	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 11:13	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:09	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30179490

Sample: MW-5R		Lab ID: 30179490004	Collected: 04/11/16 14:20	Received: 04/13/16 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:16	7440-38-2	
Barium	35.8	ug/L	10.0	1	04/14/16 13:00	04/20/16 11:16	7440-39-3	
Cadmium	ND	ug/L	3.0	1	04/14/16 13:00	04/20/16 11:16	7440-43-9	
Chromium	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:16	7440-47-3	
Lead	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 11:16	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 11:16	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 11:16	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:11	7439-97-6	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30179490

Sample: MW-6		Lab ID: 30179490005	Collected: 04/11/16 13:45	Received: 04/13/16 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 10:58	7440-38-2	
Barium	39.0	ug/L	10.0	1	04/14/16 13:00	04/20/16 10:58	7440-39-3	
Cadmium	ND	ug/L	3.0	1	04/14/16 13:00	04/20/16 10:58	7440-43-9	
Chromium	6.3	ug/L	5.0	1	04/14/16 13:00	04/20/16 10:58	7440-47-3	
Lead	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 10:58	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 10:58	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 10:58	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:12	7439-97-6	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30179490

Sample: MW-7R		Lab ID: 30179490007	Collected: 04/11/16 12:50	Received: 04/13/16 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	13.0	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:34	7440-38-2	
Barium	214	ug/L	10.0	1	04/14/16 13:00	04/20/16 12:34	7440-39-3	
Cadmium	ND	ug/L	3.0	1	04/14/16 13:00	04/20/16 12:34	7440-43-9	
Chromium	82.5	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:34	7440-47-3	
Lead	36.3	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:34	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 12:34	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 12:34	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:14	7439-97-6	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30179490

Sample: MW-8		Lab ID: 30179490009		Collected: 04/11/16 14:45	Received: 04/13/16 09:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:36	7440-38-2	
Barium	60.0	ug/L	10.0	1	04/14/16 13:00	04/20/16 12:36	7440-39-3	
Cadmium	ND	ug/L	3.0	1	04/14/16 13:00	04/20/16 12:36	7440-43-9	
Chromium	54.8	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:36	7440-47-3	
Lead	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:36	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 12:36	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 12:36	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:19	7439-97-6	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30179490

Sample: MW-8 Duplicate		Lab ID: 30179490010		Collected: 04/11/16 14:45	Received: 04/13/16 09:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:39	7440-38-2	
Barium	59.8	ug/L	10.0	1	04/14/16 13:00	04/20/16 12:39	7440-39-3	
Cadmium	ND	ug/L	3.0	1	04/14/16 13:00	04/20/16 12:39	7440-43-9	
Chromium	51.2	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:39	7440-47-3	
Lead	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:39	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 12:39	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 12:39	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:21	7439-97-6	

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ANALYTICAL RESULTS

Project: 99011A TCMF

Pace Project No.: 30179490

Sample: MW-9		Lab ID: 30179490011		Collected: 04/11/16 15:35	Received: 04/13/16 09:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010B Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:41	7440-38-2	
Barium	48.6	ug/L	10.0	1	04/14/16 13:00	04/20/16 12:41	7440-39-3	
Cadmium	4.8	ug/L	3.0	1	04/14/16 13:00	04/20/16 12:41	7440-43-9	
Chromium	74.6	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:41	7440-47-3	
Lead	ND	ug/L	5.0	1	04/14/16 13:00	04/20/16 12:41	7439-92-1	
Selenium	ND	ug/L	8.0	1	04/14/16 13:00	04/20/16 12:41	7782-49-2	
Silver	ND	ug/L	6.0	1	04/14/16 13:00	04/20/16 12:41	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	04/19/16 15:00	04/20/16 08:22	7439-97-6	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30179490

QC Batch: MERP/7606

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 30179490001, 30179490002, 30179490003, 30179490004, 30179490005, 30179490007, 30179490009, 30179490010, 30179490011

METHOD BLANK: 1061300

Matrix: Water

Associated Lab Samples: 30179490001, 30179490002, 30179490003, 30179490004, 30179490005, 30179490007, 30179490009, 30179490010, 30179490011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/20/16 07:59	

LABORATORY CONTROL SAMPLE: 1061301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	103	85-115	

MATRIX SPIKE SAMPLE: 1061303

Parameter	Units	30179490001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.5	100	80-120	

SAMPLE DUPLICATE: 1061302

Parameter	Units	30179490001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF
Pace Project No.: 30179490

QC Batch: MPRP/18051 Analysis Method: EPA 6010B
QC Batch Method: EPA 3005A Analysis Description: 6010 MET
Associated Lab Samples: 30179490001, 30179490002, 30179490003, 30179490004, 30179490005, 30179490007, 30179490009, 30179490010, 30179490011

METHOD BLANK: 1058815 Matrix: Water
Associated Lab Samples: 30179490001, 30179490002, 30179490003, 30179490004, 30179490005, 30179490007, 30179490009, 30179490010, 30179490011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	04/20/16 10:54	
Barium	ug/L	ND	10.0	04/20/16 10:54	
Cadmium	ug/L	ND	3.0	04/20/16 10:54	
Chromium	ug/L	ND	5.0	04/20/16 10:54	
Lead	ug/L	ND	5.0	04/20/16 10:54	
Selenium	ug/L	ND	8.0	04/20/16 10:54	
Silver	ug/L	ND	6.0	04/20/16 10:54	

LABORATORY CONTROL SAMPLE: 1058816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	477	95	80-120	
Barium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	484	97	80-120	
Chromium	ug/L	500	485	97	80-120	
Lead	ug/L	500	471	94	80-120	
Selenium	ug/L	500	490	98	80-120	
Silver	ug/L	250	244	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1058818 1058819

Parameter	Units	30179490005		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Arsenic	ug/L	ND	500	500	501	494	100	98	75-125	1		
Barium	ug/L	39.0	500	500	524	528	97	98	75-125	1		
Cadmium	ug/L	ND	500	500	509	507	102	101	75-125	0		
Chromium	ug/L	6.3	500	500	497	501	98	99	75-125	1		
Lead	ug/L	ND	500	500	494	493	98	98	75-125	0		
Selenium	ug/L	ND	500	500	513	515	103	103	75-125	0		
Silver	ug/L	ND	250	250	253	252	101	101	75-125	0		

MATRIX SPIKE SAMPLE: 1058821

Parameter	Units	30179614001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	498	100	75-125	

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QUALITY CONTROL DATA

Project: 99011A TCMF

Pace Project No.: 30179490

MATRIX SPIKE SAMPLE: 1058821		30179614001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Barium	ug/L	32.0	500	522	98	75-125	
Cadmium	ug/L	ND	500	499	100	75-125	
Chromium	ug/L	ND	500	472	94	75-125	
Lead	ug/L	ND	500	466	93	75-125	
Selenium	ug/L	ND	500	520	104	75-125	
Silver	ug/L	ND	250	248	99	75-125	

SAMPLE DUPLICATE: 1058817

Parameter	Units	30179490005	Dup	RPD	Qualifiers
		Result	Result		
Arsenic	ug/L	ND	ND		
Barium	ug/L	39.0	39.2	0	
Cadmium	ug/L	ND	1.1J		
Chromium	ug/L	6.3	6.5	3	
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		

SAMPLE DUPLICATE: 1058820

Parameter	Units	30179614001	Dup	RPD	Qualifiers
		Result	Result		
Arsenic	ug/L	ND	ND		
Barium	ug/L	32.0	31.8	1	
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 99011A TCMF

Pace Project No.: 30179490

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF

Pace Project No.: 30179490

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30179490001	MW-3	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490002	MW-3HA	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490003	MW-4	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490004	MW-5R	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490005	MW-6	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490007	MW-7R	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490009	MW-8	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490010	MW-8 Duplicate	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490011	MW-9	EPA 3005A	MPRP/18051	EPA 6010B	ICP/17154
30179490001	MW-3	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278
30179490002	MW-3HA	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278
30179490003	MW-4	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278
30179490004	MW-5R	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278
30179490005	MW-6	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278
30179490007	MW-7R	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278
30179490009	MW-8	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278
30179490010	MW-8 Duplicate	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278
30179490011	MW-9	EPA 7470A	MERP/7606	EPA 7470A	MERC/7278

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

WO#: 30179490



Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Geologic NY Inc Address: PO Box 350 Homer NY 13077 Email To: geologicny@geologic.net Phone: 607-744-5600 Requested Due Date/TAT:	Report To: Geologic NY Inc Copy To: Susan Cummins Purchase Order No.: 99011A Project Name: TCHF Project Number: 99011A	Attention: same Company Name: Address: Pace Quote Reference: Pace Project Manager: Pace Profile #:
REGULATORY AGENCY		REGULATORY AGENCY
NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/>		UST <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>
Site Location		STATE: NY
20170400		2020874

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB Q=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Pace Project No./ Lab I.D.				
			COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME		DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ O ₃	Methanol	Other		Analysis Test ↓	Y/N	Residual Chlorine (Y/N)	
1	MW-3	Drinking Water WT			G	WT G	4-11-16	1200	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	001
2	MW-3HA	Water WT			G	WT G	4-11-16	1610	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	002
3	MW-4	Waste Water Product WT			G	WT G	4-11-16	1115	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	003
4	MW-5R	Soil/Solid Oil WT			G	WT G	4-11-16	1420	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	004
5	MW-6	Wipe Air WT			G	WT G	4-11-16	1345	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	005
6	MW-6 H5MSD	Other Tissue WT			G	WT G	4-11-16	1345	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	006
7	MW-7R	Other Air WT			G	WT G	4-11-16	1250	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	007
8	MW-7R Duplicate	Other Air WT			G	WT G	4-11-16	1250	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	008
9	MW-8	Other Air WT			G	WT G	4-11-16	1445	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	009
10	MW-8 Duplicate	Other Air WT			G	WT G	4-11-16	1445	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	010
11	MW-9	Other Air WT			G	WT G	4-11-16	1535	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Susan Cummins	4-11-16	1705	OFFICE REARIG	4-12-16	10:45	
	Susan Cummins	4-12-16	1045	PACE	4-13-16	16:00	
	JPM by PACE	4-12-16	17:00	PACE	4-13-16	16:00	

Temp in °C

Received on

Custody

Sealed Cooler

Samples Intact

DATE Signed (MM/DD/YYYY): 4-11-16

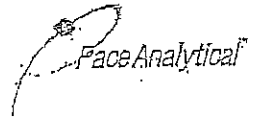
SIGNATURE of SAMPLER: Susan Cummins

PRINT Name of SAMPLER: Susan Cummins

SAMPLER NAME AND SIGNATURE

ORIGINAL

Sample Condition Upon Receipt



Client Name: Geologic NY

Project # 30179490

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 776091314459

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap Bubble Bags _____ None Other _____

Thermometer Used _____ Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 10 °C Correction Factor: 0.0 °C Final Temp.: 10 °C

Date and initials of person examining contents: ARM 4/13/10

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>WT</u>	
All containers needing preservation have been checked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, Phenols	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>ARM</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: Rachel S. [Signature] Date: 4/14/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 4:10:00 PM
Received : 4/15/2016 9:40:00 AM 30179490002
Collected By CLIENT

Lab No. : 1604E49-001

Client Sample ID: MW-3HA

Sample Information:

Type : Groundwater

Origin:

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Analyst: KG</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
2-Butanone	< 10	c	1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
2-Chloroethylvinyl ether	< 2.0	S	1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
2-Hexanone	< 10	c	1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
Acetone	< 10		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
Benzene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 8:18 PM		Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 4:10:00 PM
Received : 4/15/2016 9:40:00 AM 30179490002
Collected By CLIENT

Lab No. : 1604E49-001

Client Sample ID: MW-3HA

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Naphthalene	< 2.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:18 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc
1638 Roseytown Road
Greensburg, PA 15601

Lab No. : 1604E49-001
Client Sample ID: MW-3HA

Sample Information:
 Type : Groundwater

Origin:

Attn To : Penny Westwick
 Collected : 4/11/2016 4:10:00 PM
 Received : 4/15/2016 9:40:00 AM 30179490002
 Collected By CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
trans-1,3-Dichloropropene	< 1.0		1	µg/L		04/19/2016 8:18 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L		04/19/2016 8:18 PM	Container-01 of 03
Trichlorofluoromethane	< 1.0		1	µg/L		04/19/2016 8:18 PM	Container-01 of 03
Vinyl acetate	< 10	c	1	µg/L		04/19/2016 8:18 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L		04/19/2016 8:18 PM	Container-01 of 03
Xylene (total)	< 3.0		1	µg/L		04/19/2016 8:18 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	84.0		1	%Rec	Limit 68-153	04/19/2016 8:18 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	101		1	%Rec	Limit 79-124	04/19/2016 8:18 PM	Container-01 of 03
Surr: Toluene-d8	91.2		1	%Rec	Limit 69-124	04/19/2016 8:18 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated
 H = Received/analyzed outside of analytical holding time
 J = Estimated value - below calibration range
 M-, M+ = Matrix Spike recovery below / above control limit
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 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Date Reported :



LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:00:00 PM
Received : 4/15/2016 9:40:00 AM 30179490001
Collected By CLIENT

Lab No. : 1604E49-002

Client Sample ID: MW-3

Sample Information:

Type : Groundwater

Origin:

<u>Analytical Method:</u> SW8260C :	<u>Prep Method:</u> 5030C			<u>Analyst:</u> KG		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
2-Butanone	< 10	c	1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
2-Chloroethylvinyl ether	< 2.0	S	1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
2-Hexanone	< 10	c	1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Acetone	< 10		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:00:00 PM
Received : 4/15/2016 9:40:00 AM 30179490001
Collected By CLIENT

Lab No. : 1604E49-002

Client Sample ID: MW-3

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Naphthalene	< 2.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:00:00 PM
Received : 4/15/2016 9:40:00 AM 30179490001
Collected By CLIENT

Lab No. : 1604E49-002
Client Sample ID: MW-3

Sample Information:

Type : Groundwater

Origin:

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
trans-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03	
Trichloroethene	1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03	
Trichlorofluoromethane	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03	
Vinyl acetate	< 10	c	1	µg/L	04/19/2016 8:36 PM	Container-01 of 03	
Vinyl chloride	< 1.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03	
Xylene (total)	< 3.0		1	µg/L	04/19/2016 8:36 PM	Container-01 of 03	
Surr: 1,2-Dichloroethane-d4	82.1		1	%Rec	Limit 68-153	04/19/2016 8:36 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	99.9		1	%Rec	Limit 79-124	04/19/2016 8:36 PM	Container-01 of 03
Surr: Toluene-d8	91.7		1	%Rec	Limit 69-124	04/19/2016 8:36 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
c = Calibration acceptability criteria exceeded for this analyte. Value estimated
H = Received/analyzed outside of analytical holding time
J = Estimated value - below calibration range
M-, M+ = Matrix Spike recovery below / above control limit
N = Indicates presumptive evidence of compound
P = Duplicate RPD outside of control limit
r = Reporting limit below calibration range. Value estimated.
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+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 11:15:00 AM
Received : 4/15/2016 9:40:00 AM 30179490003
Collected By CLIENT

Lab No. : 1604E49-003

Client Sample ID: MW-4

Sample Information:

Type : Groundwater

Origin:

<u>Analytical Method:</u> SW8260C :	<u>Prep Method:</u> 5030C			<u>Analyst:</u> KG		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
2-Butanone	< 10	c	1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
2-Chloroethylvinyl ether	NR	S	1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
2-Hexanone	< 10	c	1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Acetone	< 10		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

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r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

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Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 11:15:00 AM
Received : 4/15/2016 9:40:00 AM 30179490003
Collected By CLIENT

Lab No. : 1604E49-003

Client Sample ID: MW-4

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Naphthalene	< 2.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 11:15:00 AM
Received : 4/15/2016 9:40:00 AM 30179490003
Collected By CLIENT

Lab No. : 1604E49-003
Client Sample ID: MW-4

Sample Information:

Type : Groundwater

Origin:

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
trans-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Trichlorofluoromethane	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Vinyl acetate	< 10	c	1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Xylene (total)	< 3.0		1	µg/L	04/19/2016 8:54 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	83.6		1	%Rec	Limit 68-153	04/19/2016 8:54 PM
Surr: 4-Bromofluorobenzene	101		1	%Rec	Limit 79-124	04/19/2016 8:54 PM
Surr: Toluene-d8	90.5		1	%Rec	Limit 69-124	04/19/2016 8:54 PM

NOTES:

NR=Analyte not reportable due to improper sample preservation.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 2:20:00 PM
Received : 4/15/2016 9:40:00 AM 30179490004
Collected By CLIENT

Lab No. : 1604E49-004

Client Sample ID: MW-5R

Sample Information:

Type : Groundwater

Origin:

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
2-Butanone	< 10	c	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
2-Chloroethylvinyl ether	NR	S	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
2-Hexanone	< 10	c	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Acetone	1.5	J	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 2:20:00 PM
Received : 4/15/2016 9:40:00 AM 30179490004
Collected By CLIENT

Lab No. : 1604E49-004

Client Sample ID: MW-5R

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Naphthalene	< 2.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 2:20:00 PM

Received : 4/15/2016 9:40:00 AM 30179490004

Collected By CLIENT

Lab No. : 1604E49-004
Client Sample ID: MW-5R

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
trans-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03	
Trichloroethene	2.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03	
Trichlorofluoromethane	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03	
Vinyl acetate	< 10	c	1	µg/L	04/19/2016 9:12 PM	Container-01 of 03	
Vinyl chloride	< 1.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03	
Xylene (total)	< 3.0		1	µg/L	04/19/2016 9:12 PM	Container-01 of 03	
Surr: 1,2-Dichloroethane-d4	84.0		1	%Rec	Limit 68-153	04/19/2016 9:12 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	101		1	%Rec	Limit 79-124	04/19/2016 9:12 PM	Container-01 of 03
Surr: Toluene-d8	91.0		1	%Rec	Limit 69-124	04/19/2016 9:12 PM	Container-01 of 03

NOTES:

NR=Analyte not reportable due to improper sample preservation.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 1:45:00 PM
Received : 4/15/2016 9:40:00 AM 30179490006
Collected By CLIENT

Lab No. : 1604E49-005

Client Sample ID: MW-6

Sample Information:

Type : Groundwater

Origin:

<u>Analytical Method:</u> SW8260C :	<u>Prep Method:</u> 5030C			<u>Analyst:</u> KG		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
2-Butanone	< 10	c	1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
2-Chloroethylvinyl ether	< 2.0	S	1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
2-Hexanone	< 10	c	1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Acetone	< 10		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Benzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Bromobenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

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H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

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Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 1:45:00 PM
Received : 4/15/2016 9:40:00 AM 30179490006
Collected By CLIENT

Lab No. : 1604E49-005

Client Sample ID: MW-6

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Bromoform	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Bromomethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Chloroethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Chloroform	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Chloromethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Dibromomethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Methylene chloride	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Naphthalene	< 2.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
o-Xylene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Styrene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
Toluene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 9:30 PM	Container-01 of 06

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

Results are only for the samples and analytes requested.
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Pace Analytical Services, Inc
1638 Roseytown Road
Greensburg, PA 15601

Lab No. : 1604E49-005
Client Sample ID: MW-6

Sample Information:

Type : Groundwater

Origin:

Attn To : Penny Westwick
 Collected : 4/11/2016 1:45:00 PM
 Received : 4/15/2016 9:40:00 AM 30179490006
 Collected By CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
trans-1,3-Dichloropropene	< 1.0		1	µg/L		04/19/2016 9:30 PM	Container-01 of 06
Trichloroethene	< 1.0		1	µg/L		04/19/2016 9:30 PM	Container-01 of 06
Trichlorofluoromethane	< 1.0		1	µg/L		04/19/2016 9:30 PM	Container-01 of 06
Vinyl acetate	< 10	c	1	µg/L		04/19/2016 9:30 PM	Container-01 of 06
Vinyl chloride	< 1.0		1	µg/L		04/19/2016 9:30 PM	Container-01 of 06
Xylene (total)	< 3.0		1	µg/L		04/19/2016 9:30 PM	Container-01 of 06
Surr: 1,2-Dichloroethane-d4	83.7		1	%Rec	Limit 68-153	04/19/2016 9:30 PM	Container-01 of 06
Surr: 4-Bromofluorobenzene	101		1	%Rec	Limit 79-124	04/19/2016 9:30 PM	Container-01 of 06
Surr: Toluene-d8	90.9		1	%Rec	Limit 69-124	04/19/2016 9:30 PM	Container-01 of 06

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated
 H = Received/analyzed outside of analytical holding time
 J = Estimated value - below calibration range
 M-, M+ = Matrix Spike recovery below / above control limit
 N = Indicates presumptive evidence of compound
 P = Duplicate RPD outside of control limit
 r = Reporting limit below calibration range. Value estimated.
 S = Recovery outside of control limits for this analyte
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Date Reported :



LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:50:00 PM
Received : 4/15/2016 9:40:00 AM 30179490007
Collected By CLIENT

Lab No. : 1604E49-006

Client Sample ID: MW-7R

Sample Information:

Type : Groundwater

Origin:

<u>Analytical Method:</u> SW8260C :	<u>Prep Method:</u> 5030C			<u>Analyst:</u> KG		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
2-Butanone	< 10	c	1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
2-Chloroethylvinyl ether	< 2.0	S	1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
2-Hexanone	< 10	c	1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Acetone	< 10		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:50:00 PM
Received : 4/15/2016 9:40:00 AM 30179490007
Collected By CLIENT

Lab No. : 1604E49-006

Client Sample ID: MW-7R

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Naphthalene	< 2.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:50:00 PM
Received : 4/15/2016 9:40:00 AM 30179490007
Collected By CLIENT

Lab No. : 1604E49-006

Client Sample ID: MW-7R

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
trans-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Trichlorofluoromethane	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Vinyl acetate	< 10	c	1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Xylene (total)	< 3.0		1	µg/L	04/19/2016 10:42 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	83.4		1	%Rec	Limit 68-153	04/19/2016 10:42 PM Container-01 of 03
Surr: 4-Bromofluorobenzene	99.7		1	%Rec	Limit 79-124	04/19/2016 10:42 PM Container-01 of 03
Surr: Toluene-d8	90.4		1	%Rec	Limit 69-124	04/19/2016 10:42 PM Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

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Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:50:00 PM
Received : 4/15/2016 9:40:00 AM 30179490008
Collected By CLIENT

Lab No. : 1604E49-007
Client Sample ID: MW-7R DUPLICATE

Sample Information:

Type : Groundwater

Origin:

<u>Analytical Method:</u> SW8260C :	<u>Prep Method:</u> 5030C				<u>Analyst:</u> KG	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
2-Butanone	< 10	c	1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
2-Chloroethylvinyl ether	< 2.0	S	1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
2-Hexanone	< 10	c	1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Acetone	< 10		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

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Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:50:00 PM
Received : 4/15/2016 9:40:00 AM 30179490008
Collected By CLIENT

Lab No. : 1604E49-007
Client Sample ID: MW-7R DUPLICATE

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Naphthalene	< 2.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 12:50:00 PM
Received : 4/15/2016 9:40:00 AM 30179490008
Collected By CLIENT

Lab No. : 1604E49-007
Client Sample ID: MW-7R DUPLICATE

Sample Information:

Type : Groundwater

Origin:

<u>Analytical Method:</u> SW8260C :					<u>Prep Method:</u> 5030C	<u>Analyst:</u> KG
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
trans-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Trichlorofluoromethane	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Vinyl acetate	< 10	c	1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Xylene (total)	< 3.0		1	µg/L	04/19/2016 11:00 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	84.2		1	%Rec	Limit 68-153	04/19/2016 11:00 PM
Surr: 4-Bromofluorobenzene	99.6		1	%Rec	Limit 79-124	04/19/2016 11:00 PM
Surr: Toluene-d8	90.6		1	%Rec	Limit 69-124	04/19/2016 11:00 PM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
c = Calibration acceptability criteria exceeded for this analyte. Value estimated
H = Received/analyzed outside of analytical holding time
J = Estimated value - below calibration range
M-, M+ = Matrix Spike recovery below / above control limit
N = Indicates presumptive evidence of compound
P = Duplicate RPD outside of control limit
r = Reporting limit below calibration range. Value estimated.
S = Recovery outside of control limits for this analyte
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 2:45:00 PM
Received : 4/15/2016 9:40:00 AM 30179490009
Collected By CLIENT

Lab No. : 1604E49-008

Client Sample ID: MW-8

Sample Information:

Type : Groundwater

Origin:

<u>Analytical Method:</u> SW8260C :	<u>Prep Method:</u> 5030C			<u>Analyst:</u> KG		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
2-Butanone	< 10	c	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
2-Chloroethylvinyl ether	NR	S	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
2-Hexanone	< 10	c	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Acetone	5.2	J	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 2:45:00 PM
Received : 4/15/2016 9:40:00 AM 30179490009
Collected By CLIENT

Lab No. : 1604E49-008

Client Sample ID: MW-8

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Naphthalene	< 2.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 2:45:00 PM
Received : 4/15/2016 9:40:00 AM 30179490009
Collected By CLIENT

Lab No. : 1604E49-008

Client Sample ID: MW-8

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
trans-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Trichlorofluoromethane	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Vinyl acetate	< 10	c	1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Xylene (total)	< 3.0		1	µg/L	04/19/2016 11:18 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	84.1		1	%Rec	Limit 68-153	04/19/2016 11:18 PM Container-01 of 03
Surr: 4-Bromofluorobenzene	101		1	%Rec	Limit 79-124	04/19/2016 11:18 PM Container-01 of 03
Surr: Toluene-d8	90.9		1	%Rec	Limit 69-124	04/19/2016 11:18 PM Container-01 of 03

NOTES:

NR=Analyte not reportable due to improper sample preservation.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

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**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 3:35:00 PM
Received : 4/15/2016 9:40:00 AM 30179490011
Collected By CLIENT

Lab No. : 1604E49-009

Client Sample ID: MW-9

Sample Information:

Type : Groundwater

Origin:

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
2-Butanone	< 10	c	1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
2-Chloroethylvinyl ether	NR	S	1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
2-Hexanone	< 10	c	1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Acetone	< 10		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

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M-, M+ = Matrix Spike recovery below / above control limit

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Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 3:35:00 PM
Received : 4/15/2016 9:40:00 AM 30179490011
Collected By CLIENT

Lab No. : 1604E49-009

Client Sample ID: MW-9

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Naphthalene	< 2.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/11/2016 3:35:00 PM

Received : 4/15/2016 9:40:00 AM 30179490011

Collected By CLIENT

Lab No. : 1604E49-009
Client Sample ID: MW-9

Sample Information:

Type : Groundwater

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
trans-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Trichlorofluoromethane	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Vinyl acetate	< 10	c	1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Xylene (total)	< 3.0		1	µg/L	04/19/2016 11:37 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	85.0		1	%Rec	Limit 68-153	04/19/2016 11:37 PM Container-01 of 03
Surr: 4-Bromofluorobenzene	102		1	%Rec	Limit 79-124	04/19/2016 11:37 PM Container-01 of 03
Surr: Toluene-d8	91.9		1	%Rec	Limit 69-124	04/19/2016 11:37 PM Container-01 of 03

NOTES:

NR=Analyte not reportable due to improper sample preservation.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

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+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/15/2016

Received : 4/15/2016 9:40:00 AM

Collected By CLIENT

Lab No. : 1604E49-010

Client Sample ID: STORAGE BLANK

Sample Information:

Type : Storage Blank

Origin:

<u>Analytical Method:</u> SW8260C :	<u>Prep Method:</u> 5030C			<u>Analyst:</u> KG		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,1-Dichloroethane	< 1.0	S	1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,1-Dichloroethene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,1-Dichloropropene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 2.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,2-Dibromo-3-chloropropane	< 5.0	c	1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,2-Dibromoethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,2-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,2-Dichloroethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,3-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,3-Dichloropropane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
1,4-Dichlorobenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
2,2-Dichloropropane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
2-Butanone	< 10	c	1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
2-Chloroethylvinyl ether	NR	S	1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
2-Hexanone	< 10	c	1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
4-Isopropyltoluene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
4-Methyl-2-pentanone	< 10		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Acetone	< 10		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Benzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Bromobenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Bromochloromethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

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c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

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r = Reporting limit below calibration range. Value estimated.

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+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc
1638 Roseytown Road
Greensburg, PA 15601

Sample Information:
Type : Storage Blank

Lab No. : 1604E49-010
Client Sample ID: STORAGE BLANK

Origin:

Attn To : Penny Westwick
Collected : 4/15/2016
Received : 4/15/2016 9:40:00 AM
Collected By CLIENT

<u>Analytical Method:</u> SW8260C :				<u>Prep Method:</u> 5030C	<u>Analyst:</u> KG	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Bromoform	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Bromomethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Carbon disulfide	< 1.0	c	1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Carbon tetrachloride	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Chlorobenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Chloroethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Chloroform	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Chloromethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Dibromochloromethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Dibromomethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Dichlorodifluoromethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Ethylbenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Hexachlorobutadiene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Isopropylbenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
m,p-Xylene	< 2.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Methyl tert-butyl ether	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Methylene chloride	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Naphthalene	< 2.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
n-Butylbenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
n-Propylbenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
o-Xylene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
sec-Butylbenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Styrene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
tert-Butylbenzene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Tetrachloroethene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Toluene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
c = Calibration acceptability criteria exceeded for this analyte. Value estimated
H = Received/analyzed outside of analytical holding time
J = Estimated value - below calibration range
M-, M+ = Matrix Spike recovery below / above control limit
N = Indicates presumptive evidence of compound
P = Duplicate RPD outside of control limit
r = Reporting limit below calibration range. Value estimated.
S = Recovery outside of control limits for this analyte
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Caitlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

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Pace Analytical Services, Inc

**1638 Roseytown Road
Greensburg, PA 15601**

Attn To : Penny Westwick

Collected : 4/15/2016

Received : 4/15/2016 9:40:00 AM

Collected By CLIENT

Lab No. : 1604E49-010
Client Sample ID: STORAGE BLANK

Sample Information:

Type : Storage Blank

Origin:

<u>Analytical Method:</u> SW8260C :	<u>Prep Method:</u> 5030C				<u>Analyst:</u> KG	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
trans-1,3-Dichloropropene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Trichloroethene	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Trichlorofluoromethane	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Vinyl acetate	< 10	c	1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Vinyl chloride	< 1.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Xylene (total)	< 3.0		1	µg/L	04/19/2016 5:36 PM	Container-01 of 02
Surr: 1,2-Dichloroethane-d4	85.2		1	%Rec	Limit 68-153	04/19/2016 5:36 PM
Surr: 4-Bromofluorobenzene	101		1	%Rec	Limit 79-124	04/19/2016 5:36 PM
Surr: Toluene-d8	91.1		1	%Rec	Limit 69-124	04/19/2016 5:36 PM

NOTES:

NR=Analyte not reportable due to improper sample preservation.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

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+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported :

Caitlin Panzarella

Project Manager : Caitlin Panzarella

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Sample Receipt Checklist

Client Name **PACE-PA**

Date and Time Received: **4/15/2016 9:40:00 AM**

Work Order Number: **1604E49**

RcptNo: **1**

Received by **Paige Doherty**

Completed by: *Paige Doherty*

Reviewed by: *Caitlin Panzarella*

Completed Date: 4/15/2016 11:51:48 AM

Reviewed Date: 4/19/2016 12:54:09 PM

Carrier name: FedEx

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No To 1.4°
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bil Sticker Not Present
- Airbill No: 6114 7089 5665

Case Number:

SDG:
PACE-PA080

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No NA Person Contacted:
 Contact Mode: Phone: Fax: Email: In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

Client COC states that samples -006 and -012 are the MS/MSD samples. There is not -012 sample set but there is a -005 that corresponds accordingly to the "MW-6" sample ID that is the MS/MSD sample.

Lab ID on the paperwork states 30179490005 for MW-6 and the number is 30179490006 for the MW-6 MS/MSD. Samples were logged for the 30179490006 number.

Bottle count on the chains are incorrect; we received 3 sample vials for each sample.

CorrectiveAction:

WorkOrder :
1604E49

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS E TTS	M-NY026
NE W HAMP S HIRE	2987
RHODE IS LAND	LAO00340
PE NNS YLVANIA	68-00350

Chain of Custody

Pace-PA

PAU-PA080



Workorder: 30179490 Workorder Name: 99011A TCMF Owner Received Date: 4/13/2016 Results Requested By: 4/20/2016

Report To:
 Rachel Christner
 Pace Analytical Pittsburgh
 1638 Roseytown Road
 Suites 2,3,4
 Greensburg, PA 15601
 Phone (724)850-5600

Subcontract To:
 Pace Analytical Melville
 575 Broad Hollow Road
 Melville, NY 11747
 Phone (631)694-3040

Requested Analysis:
 - Site Attached
 Vials - 8260

Geologic

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers			LAB USE ONLY
						Q	H		
1	MW-3	PS	4/11/2016 12:00	30179490001	Water	✓	3		1604549 - 302
2	MW-3HA	PS	4/11/2016 16:10	30179490002	Water	✓	3		-001
3	MW-4	PS	4/11/2016 11:15	30179490003	Water	✓	3		-003
4	MW-3R	PS	4/11/2016 14:20	30179490004	Water	✓	3		-004
5	MW-6	RQS	4/11/2016 13:45	30179490005	Water	✓	3		-005
6	MW-6 MS/MSD	PS	4/11/2016 13:45	30179490006	Water	✓	3		✓ 006
7	MW-7R	PS	4/11/2016 12:50	30179490007	Water	✓	3		-006
8	MW-7R Duplicate	PS	4/11/2016 12:50	30179490008	Water	✓	3		-007
9	MW-8	PS	4/11/2016 14:45	30179490009	Water	✓	3		-008
10	MW-9	PS	4/11/2016 15:35	30179490011	Water	✓	3		-009

Transfers	Released By	Date/Time	Received By	Date/Time	Comments	
					Received on Ice (Y) or N	Samples Intact (Y) or N
1	M. J. ...	4/11/2016 9:40	M. J. ...	4/15/16 9:40	NY CAT B Pkg REQUIRED -	
2	M. J. ...	4/15/16 9:40	M. J. ...	4/15/16 9:40	SAMPLES 006 + 012 ARE	
3	M. J. ...	4/15/16 9:40	M. J. ...	4/15/16 9:40	MS/MSA VIALS LABELED ONLY	
					AS 006 ON CONTAINER.	

Cooler Temperature on Receipt 14 °C Custody Seal (Y) or N Received on Ice (Y) or N Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

TK# 6114-9089-5665

September 30, 2016

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

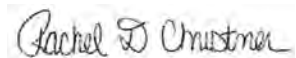
RE: Project: 99011A TCMF-Binghamton
Pace Project No.: 30197050

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197050

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197050

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30197050001	B-002B-1 8'-12'	EPA 6010C	CTS	2	PASI-PA
30197050002	B-002B-1 12'-20'	EPA 6010C	CTS	2	PASI-PA
30197050003	B-002A-1 8'-16'	EPA 6010C	CTS	2	PASI-PA
30197050004	B-002A-1 20-24'	EPA 6010C	CTS	2	PASI-PA
30197050005	B-002A-2 16-24'	EPA 6010C	CTS	2	PASI-PA
30197050006	B-003-1 8-16'	EPA 6010C	CTS	2	PASI-PA
30197050007	B-003-1 16-20'	EPA 6010C	CTS	2	PASI-PA
30197050008	B-003-2 16-20'	EPA 6010C	CTS	2	PASI-PA
30197050009	B-003-2 20-24'	EPA 6010C	CTS	2	PASI-PA
30197050010	B-003-3 8-16'	EPA 6010C	CTS	2	PASI-PA
30197050011	B-003-3 16-20'	EPA 6010C	CTS	2	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197050

Sample: B-002B-1 8'-12' **Lab ID: 30197050001** Collected: 09/21/16 09:15 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 8.04; Final pH: 6.5								
Cadmium	0.082	mg/L	0.050	1	09/29/16 10:23	09/30/16 08:50	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 08:50	7440-47-3	

Sample: B-002B-1 12'-20' **Lab ID: 30197050002** Collected: 09/21/16 09:35 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 8; Final pH: 5.89								
Cadmium	0.14	mg/L	0.050	1	09/29/16 10:23	09/30/16 08:59	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 08:59	7440-47-3	

Sample: B-002A-1 8'-16' **Lab ID: 30197050003** Collected: 09/21/16 10:15 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 8.17; Final pH: 5.72								
Cadmium	0.063	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:02	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:02	7440-47-3	

Sample: B-002A-1 20-24' **Lab ID: 30197050004** Collected: 09/21/16 10:30 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 8.2; Final pH: 5.25								
Cadmium	0.064	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:09	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:09	7440-47-3	

Sample: B-002A-2 16-24' **Lab ID: 30197050005** Collected: 09/21/16 11:15 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 10.32; Final pH: 10.57								
Cadmium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:12	7440-43-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197050

Sample: B-002A-2 16-24' **Lab ID: 30197050005** Collected: 09/21/16 11:15 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 10.32; Final pH: 10.57								
Chromium	0.086	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:12	7440-47-3	

Sample: B-003-1 8-16' **Lab ID: 30197050006** Collected: 09/21/16 12:40 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 8.53; Final pH: 6.43								
Cadmium	1.1	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:14	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:14	7440-47-3	

Sample: B-003-1 16-20' **Lab ID: 30197050007** Collected: 09/21/16 12:50 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 9.08; Final pH: 5.98								
Cadmium	0.74	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:17	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:17	7440-47-3	

Sample: B-003-2 16-20' **Lab ID: 30197050008** Collected: 09/21/16 13:20 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 8.97; Final pH: 6.97								
Cadmium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:19	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:19	7440-47-3	

Sample: B-003-2 20-24' **Lab ID: 30197050009** Collected: 09/21/16 13:25 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 9.56; Final pH: 9.74								
Cadmium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:46	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:46	7440-47-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197050

Sample: B-003-3 8-16' **Lab ID: 30197050010** Collected: 09/21/16 13:50 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 9.12; Final pH: 6.55								
Cadmium	0.15	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:24	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:24	7440-47-3	

Sample: B-003-3 16-20' **Lab ID: 30197050011** Collected: 09/21/16 14:05 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 09/28/16 15:00 Initial pH: 8.73; Final pH: 6.68								
Cadmium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:27	7440-43-9	
Chromium	ND	mg/L	0.050	1	09/29/16 10:23	09/30/16 09:27	7440-47-3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197050

QC Batch: 234873 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET TCLP
Associated Lab Samples: 30197050001, 30197050002, 30197050003, 30197050004, 30197050005, 30197050006, 30197050007, 30197050008, 30197050009, 30197050010, 30197050011

METHOD BLANK: 1152725 Matrix: Water
Associated Lab Samples: 30197050001, 30197050002, 30197050003, 30197050004, 30197050005, 30197050006, 30197050007, 30197050008, 30197050009, 30197050010, 30197050011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	ND	0.050	09/30/16 08:40	
Chromium	mg/L	ND	0.050	09/30/16 08:40	

METHOD BLANK: 1151999 Matrix: Water
Associated Lab Samples: 30197050001, 30197050002, 30197050003, 30197050004, 30197050005, 30197050006, 30197050007, 30197050008, 30197050009, 30197050010, 30197050011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	ND	0.050	09/30/16 08:45	
Chromium	mg/L	ND	0.050	09/30/16 08:45	

METHOD BLANK: 1152000 Matrix: Water
Associated Lab Samples: 30197050001, 30197050002, 30197050003, 30197050004, 30197050005, 30197050006, 30197050007, 30197050008, 30197050009, 30197050010, 30197050011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	ND	0.050	09/30/16 08:47	
Chromium	mg/L	ND	0.050	09/30/16 08:47	

LABORATORY CONTROL SAMPLE: 1152726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	.5	0.52	104	80-120	
Chromium	mg/L	.5	0.53	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1152728 1152729

Parameter	30197050001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
Cadmium	mg/L	0.082	.5	.5	0.64	0.61	112	106	75-125	5	
Chromium	mg/L	ND	.5	.5	0.48	0.45	95	90	75-125	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197050

MATRIX SPIKE SAMPLE: 1152731

Parameter	Units	30197050011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	ND	.5	0.53	106	75-125	
Chromium	mg/L	ND	.5	0.46	90	75-125	

SAMPLE DUPLICATE: 1152727

Parameter	Units	30197050001 Result	Dup Result	RPD	Qualifiers
Cadmium	mg/L	0.082	0.082	0	
Chromium	mg/L	ND	.0031J		

SAMPLE DUPLICATE: 1152730

Parameter	Units	30197050011 Result	Dup Result	RPD	Qualifiers
Cadmium	mg/L	ND	.0018J		
Chromium	mg/L	ND	.0027J		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197050

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197050

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30197050001	B-002B-1 8'-12'	EPA 3005A	234873	EPA 6010C	234991
30197050002	B-002B-1 12'-20'	EPA 3005A	234873	EPA 6010C	234991
30197050003	B-002A-1 8'-16'	EPA 3005A	234873	EPA 6010C	234991
30197050004	B-002A-1 20-24'	EPA 3005A	234873	EPA 6010C	234991
30197050005	B-002A-2 16-24'	EPA 3005A	234873	EPA 6010C	234991
30197050006	B-003-1 8-16'	EPA 3005A	234873	EPA 6010C	234991
30197050007	B-003-1 16-20'	EPA 3005A	234873	EPA 6010C	234991
30197050008	B-003-2 16-20'	EPA 3005A	234873	EPA 6010C	234991
30197050009	B-003-2 20-24'	EPA 3005A	234873	EPA 6010C	234991
30197050010	B-003-3 8-16'	EPA 3005A	234873	EPA 6010C	234991
30197050011	B-003-3 16-20'	EPA 3005A	234873	EPA 6010C	234991

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:
Company: **Geologic NY Inc**
Address: **PO Box 350 Homer NY**
Email To: **geologicny@geologic.net**
Phone: **607-749-5000**
Requested Due Date/TAT: _____

Section B
Required Project Information:
Report To: **Geologic**
Copy To: **Susan Cummins**
Purchase Order No.: **99011A**
Project Name: **TUMF - Binghamton**
Project Number: **99011A**

Section C
Invoice Information:
Attention: **SCMC**
Company Name: _____
Address: _____
Pace Quote Reference: _____
Pace Project Manager: _____
Pace Profile #: _____

Page: **1** of **1**
1882931

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location: **NY** STATE: **NY**

ITEM #	Section D Required Client Information	Matrix Codes MATRIX L CODE	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Pace Project No. / Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB							
		Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other		DATE	TIME			Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other				
1	B-002B-1	DW	8-12'	9-21-16	915	G	SLG	1				801
2	B-002B-1	WT	12-20'	9-21-16	935	G	SLG	1				802
3	B-002A-1	WW	8-16'	9-21-16	1015	G	SLG	1				803
4	B-002A-1	P	20-24'	9-21-16	1030	G	SLG	1				804
5	B-002A-2	SL	16-24'	9-21-16	1115	G	SLG	1				805
6	B-003-1	OL	8-16'	9-21-16	1200	G	SLG	1				806
7	B-003-1	WP	16-20'	9-21-16	1250	G	SLG	1				807
8	B-003-2	AR	16-20'	9-21-16	1320	G	SLG	1				808
9	B-003-2	TS	20-24'	9-21-16	1325	G	SLG	1				809
10	B-003-3	OT	8-16'	9-21-16	1350	G	SLG	1				810
11	B-003-3		16-20'	9-21-16	1405	G	SLG	1				811

WO#: 30197050

30197050

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Susan Cummins</i>	9-23-16	1122	<i>Susan Cummins</i>	9/23/16	1122A	Received on Ice (Y/N) Sealed Cooler (Y/N) Custody (Y/N) Samples Intact (Y/N)
	<i>John B. Ray</i>	9/23/16	1700	<i>John B. Ray</i>	9/23/16	1000	Temp in °C 4.5 Y Y Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **Susan Cummins**
 SIGNATURE of SAMPLER: *Susan Cummins*
 DATE Signed (MM/DD/YY): **9-21-16**

Sample Condition Upon Receipt Pittsburgh

30197050



Client Name: Geologic NY Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 777306637846

Custody Seal on Cooler/Box Present: yes no 9/24/16 Seals Intact: yes no

Thermometer Used M Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 4.9 °C Correction Factor: -0.4 °C Final Temp: 4.5 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MLL 9/24/16

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>SC</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.			X	13.
All containers needing preservation are found to be in compliance with EPA recommendation.			X	
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>MLL</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: _____ Date: _____

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

October 07, 2016

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

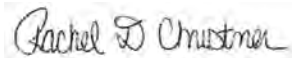
RE: Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30197051001	EAST LAWN-BECKWITH AVE	EPA 8081B	SJG	23	PASI-PA
		EPA 8082A	SJG	10	PASI-PA
		EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	PJD	1	PASI-PA
		EPA 8270D	EAC	70	PASI-PA
		EPA 8260C	JEW	71	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
30197051002	WEST LAWN-BECKWITH AVE	EPA 8081B	SJG	23	PASI-PA
		EPA 8082A	SJG	10	PASI-PA
		EPA 6010C	CTS	7	PASI-PA
		EPA 7471B	PJD	1	PASI-PA
		EPA 8270D	EAC	70	PASI-PA
		EPA 8260C	JEW	71	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 8081B

Description: 8081B GCS Pesticides

Client: GeoLogic NY, Inc.

Date: October 07, 2016

General Information:

2 samples were analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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.

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, where applicable, 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:

Analyte Comments:

QC Batch: 234860

2c: This analyte failed the 30 percent low level calibration standard check. Results may be biased high.

- LCS (Lab ID: 1152659)

- 4,4'-DDD
- alpha-BHC
- delta-BHC

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- EAST LAWN-BECKWITH AVE (Lab ID: 30197051001)

- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Aldrin

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 8081B

Description: 8081B GCS Pesticides

Client: GeoLogic NY, Inc.

Date: October 07, 2016

Analyte Comments:

QC Batch: 234860

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- EAST LAWN-BECKWITH AVE (Lab ID: 30197051001)

- alpha-BHC
- beta-BHC
- delta-BHC
- gamma-BHC (Lindane)
- alpha-Chlordane
- gamma-Chlordane
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endrin aldehyde
- Endrin ketone
- Endrin
- Endosulfan sulfate
- Heptachlor
- Heptachlor epoxide
- Methoxychlor
- Toxaphene

- WEST LAWN-BECKWITH AVE (Lab ID: 30197051002)

- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Aldrin
- alpha-BHC
- beta-BHC
- delta-BHC
- gamma-BHC (Lindane)
- alpha-Chlordane
- gamma-Chlordane
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endrin aldehyde
- Endrin ketone
- Endrin
- Endosulfan sulfate
- Heptachlor
- Heptachlor epoxide
- Methoxychlor
- Toxaphene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Method: EPA 8082A
Description: 8082A GCS PCB
Client: GeoLogic NY, Inc.
Date: October 07, 2016

General Information:

2 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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.

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, where applicable, 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:

Analyte Comments:

QC Batch: 234861

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- EAST LAWN-BECKWITH AVE (Lab ID: 30197051001)
 - PCB-1016 (Aroclor 1016)
 - PCB-1221 (Aroclor 1221)
 - PCB-1232 (Aroclor 1232)
 - PCB-1242 (Aroclor 1242)
 - PCB-1248 (Aroclor 1248)
 - PCB-1254 (Aroclor 1254)
 - PCB-1260 (Aroclor 1260)
- WEST LAWN-BECKWITH AVE (Lab ID: 30197051002)
 - PCB-1016 (Aroclor 1016)
 - PCB-1221 (Aroclor 1221)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 8082A

Description: 8082A GCS PCB

Client: GeoLogic NY, Inc.

Date: October 07, 2016

Analyte Comments:

QC Batch: 234861

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- WEST LAWN-BECKWITH AVE (Lab ID: 30197051002)
 - PCB-1232 (Aroclor 1232)
 - PCB-1242 (Aroclor 1242)
 - PCB-1248 (Aroclor 1248)
 - PCB-1254 (Aroclor 1254)
 - PCB-1260 (Aroclor 1260)

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 6010C

Description: 6010C MET ICP

Client: GeoLogic NY, Inc.

Date: October 07, 2016

General Information:

2 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 3050B 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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:

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Method: EPA 7471B
Description: 7471B Mercury
Client: GeoLogic NY, Inc.
Date: October 07, 2016

General Information:

2 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 7471B 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.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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: 234711

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30196302001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1152143)
 - Mercury
- MSD (Lab ID: 1152144)
 - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 8270D

Description: 8270D MSSV Microwave

Client: GeoLogic NY, Inc.

Date: October 07, 2016

General Information:

2 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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.

QC Batch: 234702

IS: The internal standard response is below criteria. Results may be biased high.

- MS (Lab ID: 1152079)
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(k)fluoranthene
 - Di-n-octylphthalate
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene
 - N-Nitroso-di-n-propylamine
- MSD (Lab ID: 1152080)
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(k)fluoranthene
 - Di-n-octylphthalate
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene

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, where applicable, with any exceptions noted below.

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 8270D

Description: 8270D MSSV Microwave

Client: GeoLogic NY, Inc.

Date: October 07, 2016

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: 234702

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30197049021

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1152079)
 - 2,4,5-Trichlorophenol
 - 2,4,6-Trichlorophenol
 - 2,4-Dichlorophenol
 - 2,4-Dinitrophenol
 - 2-Nitrophenol
 - 4,6-Dinitro-2-methylphenol
 - 4-Nitrophenol
 - Dibenz(a,h)anthracene
 - Hexachlorocyclopentadiene
 - Indeno(1,2,3-cd)pyrene
 - Pentachlorophenol
- MSD (Lab ID: 1152080)
 - 2,4,5-Trichlorophenol
 - 2,4,6-Trichlorophenol
 - 2,4-Dichlorophenol
 - 2,4-Dinitrophenol
 - 2-Nitrophenol
 - 4,6-Dinitro-2-methylphenol
 - 4-Nitrophenol
 - Dibenz(a,h)anthracene
 - Hexachlorocyclopentadiene
 - Indeno(1,2,3-cd)pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1152080)
 - Pentachlorophenol

Additional Comments:

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, Inc.
Date: October 07, 2016

General Information:

2 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 5035A 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, where applicable, 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: 235166

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 235166

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EAST LAWN-BECKWITH AVE (Lab ID: 30197051001)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: October 07, 2016

Analyte Comments:

QC Batch: 235166

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EAST LAWN-BECKWITH AVE (Lab ID: 30197051001)

- 1,1,2-Trichloroethane
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dichloroethane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichloropropane
- 1,2,4-Trimethylbenzene
- 1,2,3-Trichlorobenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 2-Chloroethylvinyl ether
- 2-Hexanone
- 4-Chlorotoluene
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromobenzene
- Bromodichloromethane
- Bromomethane
- Bromoform
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane
- Dibromomethane
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: October 07, 2016

Analyte Comments:

QC Batch: 235166

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EAST LAWN-BECKWITH AVE (Lab ID: 30197051001)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Xylene (Total)
 - Vinyl acetate
 - Vinyl chloride
- WEST LAWN-BECKWITH AVE (Lab ID: 30197051002)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2,2-Dichloropropane

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: GeoLogic NY, Inc.

Date: October 07, 2016

Analyte Comments:

QC Batch: 235166

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- WEST LAWN-BECKWITH AVE (Lab ID: 30197051002)

- 2-Butanone (MEK)
- 2-Chlorotoluene
- 2-Chloroethylvinyl ether
- 2-Hexanone
- 4-Chlorotoluene
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromobenzene
- Bromodichloromethane
- Bromomethane
- Bromoform
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dichlorodifluoromethane
- Dibromomethane
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methylene Chloride
- Methyl-tert-butyl ether
- 4-Methyl-2-pentanone (MIBK)
- m&p-Xylene
- Naphthalene
- n-Butylbenzene
- n-Propylbenzene
- o-Xylene
- p-Isopropyltoluene
- sec-Butylbenzene
- Styrene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- Tetrachloroethene
- Toluene
- Trichloroethene

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PROJECT NARRATIVE

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, Inc.
Date: October 07, 2016

Analyte Comments:

QC Batch: 235166

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- WEST LAWN-BECKWITH AVE (Lab ID: 30197051002)
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Xylene (Total)
 - Vinyl acetate
 - Vinyl chloride

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Sample: EAST LAWN-BECKWITH AVE **Lab ID: 30197051001** Collected: 09/22/16 14:25 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides		Analytical Method: EPA 8081B Preparation Method: EPA 3546						
Aldrin	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	309-00-2	D3
alpha-BHC	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	319-84-6	D3
beta-BHC	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	319-85-7	D3
delta-BHC	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	319-86-8	D3
gamma-BHC (Lindane)	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	58-89-9	D3
alpha-Chlordane	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	5103-71-9	D3
gamma-Chlordane	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	5103-74-2	D3
4,4'-DDD	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	72-54-8	D3
4,4'-DDE	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	72-55-9	D3
4,4'-DDT	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	50-29-3	D3
Dieldrin	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	60-57-1	D3
Endosulfan I	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	959-98-8	D3
Endosulfan II	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	33213-65-9	D3
Endosulfan sulfate	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	1031-07-8	D3
Endrin	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	72-20-8	D3
Endrin aldehyde	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	7421-93-4	D3
Endrin ketone	ND	ug/kg	24.0	5	09/29/16 16:22	10/06/16 04:45	53494-70-5	D3
Heptachlor	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	76-44-8	D3
Heptachlor epoxide	ND	ug/kg	12.0	5	09/29/16 16:22	10/06/16 04:45	1024-57-3	D3
Methoxychlor	ND	ug/kg	120	5	09/29/16 16:22	10/06/16 04:45	72-43-5	D3
Toxaphene	ND	ug/kg	120	5	09/29/16 16:22	10/06/16 04:45	8001-35-2	D3
Surrogates								
Tetrachloro-m-xylene (S)	88	%	37-113	5	09/29/16 16:22	10/06/16 04:45	877-09-8	
Decachlorobiphenyl (S)	68	%	39-122	5	09/29/16 16:22	10/06/16 04:45	2051-24-3	
8082A GCS PCB		Analytical Method: EPA 8082A Preparation Method: EPA 3546						
PCB-1016 (Aroclor 1016)	ND	ug/kg	120	5	09/29/16 16:22	10/01/16 17:18	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND	ug/kg	120	5	09/29/16 16:22	10/01/16 17:18	11104-28-2	D3
PCB-1232 (Aroclor 1232)	ND	ug/kg	120	5	09/29/16 16:22	10/01/16 17:18	11141-16-5	D3
PCB-1242 (Aroclor 1242)	ND	ug/kg	120	5	09/29/16 16:22	10/01/16 17:18	53469-21-9	D3
PCB-1248 (Aroclor 1248)	ND	ug/kg	120	5	09/29/16 16:22	10/01/16 17:18	12672-29-6	D3
PCB-1254 (Aroclor 1254)	ND	ug/kg	120	5	09/29/16 16:22	10/01/16 17:18	11097-69-1	D3
PCB-1260 (Aroclor 1260)	ND	ug/kg	120	5	09/29/16 16:22	10/01/16 17:18	11096-82-5	D3
PCB, Total	ND	ug/kg	839	5	09/29/16 16:22	10/01/16 17:18	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	50	%	30-107	5	09/29/16 16:22	10/01/16 17:18	877-09-8	
Decachlorobiphenyl (S)	45	%	10-115	5	09/29/16 16:22	10/01/16 17:18	2051-24-3	
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	7.5	mg/kg	0.48	1	09/28/16 11:21	10/04/16 08:13	7440-38-2	
Barium	101	mg/kg	1.9	1	09/28/16 11:21	10/03/16 10:02	7440-39-3	
Cadmium	0.36	mg/kg	0.29	1	09/28/16 11:21	10/03/16 10:02	7440-43-9	
Chromium	16.3	mg/kg	0.48	1	09/28/16 11:21	10/03/16 10:02	7440-47-3	
Lead	29.2	mg/kg	0.48	1	09/28/16 11:21	10/03/16 10:02	7439-92-1	
Selenium	ND	mg/kg	0.76	1	09/28/16 11:21	10/03/16 10:02	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Sample: EAST LAWN-BECKWITH AVE **Lab ID: 30197051001** Collected: 09/22/16 14:25 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Silver	ND	mg/kg	0.57	1	09/28/16 11:21	10/03/16 10:02	7440-22-4	
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.14	1	09/28/16 14:46	09/29/16 00:06	7439-97-6	
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	83-32-9	
Acenaphthylene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	208-96-8	
Anthracene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	207-08-9	
4-Bromophenylphenyl ether	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	101-55-3	
Butylbenzylphthalate	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	85-68-7	
Carbazole	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	59-50-7	
4-Chloroaniline	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	108-60-1	
2-Chloronaphthalene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	91-58-7	
2-Chlorophenol	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	7005-72-3	
Chrysene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	53-70-3	
Dibenzofuran	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	120-83-2	
Diethylphthalate	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	105-67-9	
Dimethylphthalate	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	131-11-3	
Di-n-butylphthalate	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	11700	10	09/28/16 15:58	10/05/16 19:29	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	11700	10	09/28/16 15:58	10/05/16 19:29	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	606-20-2	
Di-n-octylphthalate	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	117-81-7	
Fluoranthene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	206-44-0	
Fluorene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	86-73-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Sample: EAST LAWN-BECKWITH AVE **Lab ID: 30197051001** Collected: 09/22/16 14:25 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546						
Hexachloro-1,3-butadiene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	87-68-3	
Hexachlorobenzene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	77-47-4	
Hexachloroethane	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	193-39-5	
Isophorone	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	78-59-1	
2-Methylnaphthalene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	9340	10	09/28/16 15:58	10/05/16 19:29		
Naphthalene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	91-20-3	
2-Nitroaniline	ND	ug/kg	11700	10	09/28/16 15:58	10/05/16 19:29	88-74-4	
3-Nitroaniline	ND	ug/kg	11700	10	09/28/16 15:58	10/05/16 19:29	99-09-2	
4-Nitroaniline	ND	ug/kg	11700	10	09/28/16 15:58	10/05/16 19:29	100-01-6	
Nitrobenzene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	98-95-3	
2-Nitrophenol	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	88-75-5	
4-Nitrophenol	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	86-30-6	
Pentachlorophenol	ND	ug/kg	11700	10	09/28/16 15:58	10/05/16 19:29	87-86-5	
Phenanthrene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	85-01-8	
Phenol	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	108-95-2	
Pyrene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	11700	10	09/28/16 15:58	10/05/16 19:29	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	4670	10	09/28/16 15:58	10/05/16 19:29	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	52	%	33-104	10	09/28/16 15:58	10/05/16 19:29	4165-60-0	
2-Fluorobiphenyl (S)	62	%	38-105	10	09/28/16 15:58	10/05/16 19:29	321-60-8	
Terphenyl-d14 (S)	71	%	33-149	10	09/28/16 15:58	10/05/16 19:29	1718-51-0	
Phenol-d6 (S)	57	%	32-111	10	09/28/16 15:58	10/05/16 19:29	13127-88-3	
2-Fluorophenol (S)	56	%	10-123	10	09/28/16 15:58	10/05/16 19:29	367-12-4	
2,4,6-Tribromophenol (S)	44	%	10-140	10	09/28/16 15:58	10/05/16 19:29	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	12.8	1	10/03/16 07:13	10/03/16 11:02	67-64-1	1c
Benzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	71-43-2	1c
Bromobenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	108-86-1	1c
Bromochloromethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	74-97-5	1c
Bromodichloromethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-27-4	1c
Bromoform	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-25-2	1c
Bromomethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	74-83-9	1c
2-Butanone (MEK)	ND	ug/kg	12.8	1	10/03/16 07:13	10/03/16 11:02	78-93-3	1c
n-Butylbenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	98-06-6	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Sample: EAST LAWN-BECKWITH AVE **Lab ID: 30197051001** Collected: 09/22/16 14:25 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Carbon disulfide	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	56-23-5	1c
Chlorobenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	108-90-7	1c
Chloroethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	12.8	1	10/03/16 07:13	10/03/16 11:02	110-75-8	1c
Chloroform	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	67-66-3	1c
Chloromethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	96-12-8	1c
Dibromochloromethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	106-93-4	1c
Dibromomethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	10061-02-6	1c
Ethylbenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	87-68-3	1c
2-Hexanone	ND	ug/kg	12.8	1	10/03/16 07:13	10/03/16 11:02	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	99-87-6	1c
Methylene Chloride	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.8	1	10/03/16 07:13	10/03/16 11:02	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	1634-04-4	1c
Naphthalene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	91-20-3	1c
n-Propylbenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	103-65-1	1c
Styrene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	79-34-5	1c
Tetrachloroethene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	127-18-4	1c
Toluene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	120-82-1	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Sample: EAST LAWN-BECKWITH AVE **Lab ID:** 30197051001 Collected: 09/22/16 14:25 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
1,1,1-Trichloroethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	79-00-5	1c
Trichloroethene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	108-67-8	1c
Vinyl acetate	ND	ug/kg	63.8	1	10/03/16 07:13	10/03/16 11:02	108-05-4	1c
Vinyl chloride	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	75-01-4	1c
Xylene (Total)	ND	ug/kg	19.1	1	10/03/16 07:13	10/03/16 11:02	1330-20-7	1c
m&p-Xylene	ND	ug/kg	12.8	1	10/03/16 07:13	10/03/16 11:02	179601-23-1	1c
o-Xylene	ND	ug/kg	6.4	1	10/03/16 07:13	10/03/16 11:02	95-47-6	1c
Surrogates								
Toluene-d8 (S)	104	%	68-135	1	10/03/16 07:13	10/03/16 11:02	2037-26-5	
4-Bromofluorobenzene (S)	112	%	65-146	1	10/03/16 07:13	10/03/16 11:02	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	69-137	1	10/03/16 07:13	10/03/16 11:02	17060-07-0	
Dibromofluoromethane (S)	97	%	70-130	1	10/03/16 07:13	10/03/16 11:02	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	30.8	%	0.10	1		09/29/16 13:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Sample: WEST LAWN-BECKWITH AVE **Lab ID:** 30197051002 Collected: 09/22/16 14:35 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides		Analytical Method: EPA 8081B Preparation Method: EPA 3546						
Aldrin	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	309-00-2	D3
alpha-BHC	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	319-84-6	D3
beta-BHC	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	319-85-7	D3
delta-BHC	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	319-86-8	D3
gamma-BHC (Lindane)	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	58-89-9	D3
alpha-Chlordane	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	5103-71-9	D3
gamma-Chlordane	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	5103-74-2	D3
4,4'-DDD	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	72-54-8	D3
4,4'-DDE	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	72-55-9	D3
4,4'-DDT	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	50-29-3	D3
Dieldrin	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	60-57-1	D3
Endosulfan I	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	959-98-8	D3
Endosulfan II	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	33213-65-9	D3
Endosulfan sulfate	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	1031-07-8	D3
Endrin	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	72-20-8	D3
Endrin aldehyde	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	7421-93-4	D3
Endrin ketone	ND	ug/kg	25.2	5	09/29/16 16:22	10/06/16 05:13	53494-70-5	D3
Heptachlor	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	76-44-8	D3
Heptachlor epoxide	ND	ug/kg	12.6	5	09/29/16 16:22	10/06/16 05:13	1024-57-3	D3
Methoxychlor	ND	ug/kg	126	5	09/29/16 16:22	10/06/16 05:13	72-43-5	D3
Toxaphene	ND	ug/kg	126	5	09/29/16 16:22	10/06/16 05:13	8001-35-2	D3
Surrogates								
Tetrachloro-m-xylene (S)	79	%	37-113	5	09/29/16 16:22	10/06/16 05:13	877-09-8	
Decachlorobiphenyl (S)	71	%	39-122	5	09/29/16 16:22	10/06/16 05:13	2051-24-3	
8082A GCS PCB		Analytical Method: EPA 8082A Preparation Method: EPA 3546						
PCB-1016 (Aroclor 1016)	ND	ug/kg	126	5	09/29/16 16:22	10/01/16 18:04	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND	ug/kg	126	5	09/29/16 16:22	10/01/16 18:04	11104-28-2	D3
PCB-1232 (Aroclor 1232)	ND	ug/kg	126	5	09/29/16 16:22	10/01/16 18:04	11141-16-5	D3
PCB-1242 (Aroclor 1242)	ND	ug/kg	126	5	09/29/16 16:22	10/01/16 18:04	53469-21-9	D3
PCB-1248 (Aroclor 1248)	ND	ug/kg	126	5	09/29/16 16:22	10/01/16 18:04	12672-29-6	D3
PCB-1254 (Aroclor 1254)	ND	ug/kg	126	5	09/29/16 16:22	10/01/16 18:04	11097-69-1	D3
PCB-1260 (Aroclor 1260)	ND	ug/kg	126	5	09/29/16 16:22	10/01/16 18:04	11096-82-5	D3
PCB, Total	ND	ug/kg	883	5	09/29/16 16:22	10/01/16 18:04	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	46	%	30-107	5	09/29/16 16:22	10/01/16 18:04	877-09-8	
Decachlorobiphenyl (S)	46	%	10-115	5	09/29/16 16:22	10/01/16 18:04	2051-24-3	
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	7.4	mg/kg	0.67	1	09/28/16 11:21	10/04/16 08:20	7440-38-2	
Barium	114	mg/kg	2.7	1	09/28/16 11:21	10/03/16 09:25	7440-39-3	
Cadmium	0.41	mg/kg	0.40	1	09/28/16 11:21	10/03/16 09:25	7440-43-9	
Chromium	21.6	mg/kg	0.67	1	09/28/16 11:21	10/03/16 09:25	7440-47-3	
Lead	37.8	mg/kg	0.67	1	09/28/16 11:21	10/03/16 09:25	7439-92-1	
Selenium	ND	mg/kg	1.1	1	09/28/16 11:21	10/03/16 09:25	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Sample: WEST LAWN-BECKWITH AVE **Lab ID: 30197051002** Collected: 09/22/16 14:35 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Silver	ND	mg/kg	0.81	1	09/28/16 11:21	10/03/16 09:25	7440-22-4	
7471B Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.15	1	09/28/16 14:46	09/29/16 00:07	7439-97-6	
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	83-32-9	
Acenaphthylene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	208-96-8	
Anthracene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	207-08-9	
4-Bromophenylphenyl ether	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	101-55-3	
Butylbenzylphthalate	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	85-68-7	
Carbazole	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	59-50-7	
4-Chloroaniline	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	108-60-1	
2-Chloronaphthalene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	91-58-7	
2-Chlorophenol	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	7005-72-3	
Chrysene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	53-70-3	
Dibenzofuran	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	120-83-2	
Diethylphthalate	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	105-67-9	
Dimethylphthalate	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	131-11-3	
Di-n-butylphthalate	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	12700	10	09/28/16 15:58	10/05/16 19:49	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	12700	10	09/28/16 15:58	10/05/16 19:49	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	606-20-2	
Di-n-octylphthalate	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	117-81-7	
Fluoranthene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	206-44-0	
Fluorene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	86-73-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Sample: WEST LAWN-BECKWITH AVE **Lab ID: 30197051002** Collected: 09/22/16 14:35 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546						
Hexachloro-1,3-butadiene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	87-68-3	
Hexachlorobenzene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	77-47-4	
Hexachloroethane	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	193-39-5	
Isophorone	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	78-59-1	
2-Methylnaphthalene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	10200	10	09/28/16 15:58	10/05/16 19:49		
Naphthalene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	91-20-3	
2-Nitroaniline	ND	ug/kg	12700	10	09/28/16 15:58	10/05/16 19:49	88-74-4	
3-Nitroaniline	ND	ug/kg	12700	10	09/28/16 15:58	10/05/16 19:49	99-09-2	
4-Nitroaniline	ND	ug/kg	12700	10	09/28/16 15:58	10/05/16 19:49	100-01-6	
Nitrobenzene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	98-95-3	
2-Nitrophenol	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	88-75-5	
4-Nitrophenol	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	86-30-6	
Pentachlorophenol	ND	ug/kg	12700	10	09/28/16 15:58	10/05/16 19:49	87-86-5	
Phenanthrene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	85-01-8	
Phenol	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	108-95-2	
Pyrene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	12700	10	09/28/16 15:58	10/05/16 19:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	5090	10	09/28/16 15:58	10/05/16 19:49	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	33-104	10	09/28/16 15:58	10/05/16 19:49	4165-60-0	
2-Fluorobiphenyl (S)	73	%	38-105	10	09/28/16 15:58	10/05/16 19:49	321-60-8	
Terphenyl-d14 (S)	77	%	33-149	10	09/28/16 15:58	10/05/16 19:49	1718-51-0	
Phenol-d6 (S)	66	%	32-111	10	09/28/16 15:58	10/05/16 19:49	13127-88-3	
2-Fluorophenol (S)	70	%	10-123	10	09/28/16 15:58	10/05/16 19:49	367-12-4	
2,4,6-Tribromophenol (S)	53	%	10-140	10	09/28/16 15:58	10/05/16 19:49	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	14.9	1	10/03/16 07:13	10/03/16 11:27	67-64-1	1c
Benzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	71-43-2	1c
Bromobenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	108-86-1	1c
Bromochloromethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	74-97-5	1c
Bromodichloromethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-27-4	1c
Bromoform	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-25-2	1c
Bromomethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	74-83-9	1c
2-Butanone (MEK)	ND	ug/kg	14.9	1	10/03/16 07:13	10/03/16 11:27	78-93-3	1c
n-Butylbenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	98-06-6	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Sample: WEST LAWN-BECKWITH AVE **Lab ID: 30197051002** Collected: 09/22/16 14:35 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Carbon disulfide	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	56-23-5	1c
Chlorobenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	108-90-7	1c
Chloroethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	14.9	1	10/03/16 07:13	10/03/16 11:27	110-75-8	1c
Chloroform	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	67-66-3	1c
Chloromethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	96-12-8	1c
Dibromochloromethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	106-93-4	1c
Dibromomethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	10061-02-6	1c
Ethylbenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	87-68-3	1c
2-Hexanone	ND	ug/kg	14.9	1	10/03/16 07:13	10/03/16 11:27	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	99-87-6	1c
Methylene Chloride	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	14.9	1	10/03/16 07:13	10/03/16 11:27	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	1634-04-4	1c
Naphthalene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	91-20-3	1c
n-Propylbenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	103-65-1	1c
Styrene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	79-34-5	1c
Tetrachloroethene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	127-18-4	1c
Toluene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	120-82-1	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Sample: WEST LAWN-BECKWITH **Lab ID:** 30197051002 Collected: 09/22/16 14:35 Received: 09/24/16 10:00 Matrix: Solid
AVE

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
1,1,1-Trichloroethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	79-00-5	1c
Trichloroethene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	108-67-8	1c
Vinyl acetate	ND	ug/kg	74.5	1	10/03/16 07:13	10/03/16 11:27	108-05-4	1c
Vinyl chloride	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	75-01-4	1c
Xylene (Total)	ND	ug/kg	22.4	1	10/03/16 07:13	10/03/16 11:27	1330-20-7	1c
m&p-Xylene	ND	ug/kg	14.9	1	10/03/16 07:13	10/03/16 11:27	179601-23-1	1c
o-Xylene	ND	ug/kg	7.5	1	10/03/16 07:13	10/03/16 11:27	95-47-6	1c
Surrogates								
Toluene-d8 (S)	107	%	68-135	1	10/03/16 07:13	10/03/16 11:27	2037-26-5	
4-Bromofluorobenzene (S)	112	%	65-146	1	10/03/16 07:13	10/03/16 11:27	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	69-137	1	10/03/16 07:13	10/03/16 11:27	17060-07-0	
Dibromofluoromethane (S)	96	%	70-130	1	10/03/16 07:13	10/03/16 11:27	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	34.7	%	0.10	1		09/29/16 13:00		
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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

QC Batch: 234711

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: 7471B Mercury

Associated Lab Samples: 30197051001, 30197051002

METHOD BLANK: 1152141

Matrix: Solid

Associated Lab Samples: 30197051001, 30197051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	09/28/16 23:58	

LABORATORY CONTROL SAMPLE: 1152142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.042	.042J	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1152143 1152144

Parameter	Units	30196302001		MS		MSD		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	Limits				
Mercury	mg/kg	ND		.3	.29	0.31	0.29	76	70	80-120	9	M1			

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

QC Batch: 234681 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010C MET
Associated Lab Samples: 30197051001, 30197051002

METHOD BLANK: 1151921 Matrix: Solid
Associated Lab Samples: 30197051001, 30197051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	10/04/16 08:08	
Barium	mg/kg	ND	2.0	10/03/16 09:13	
Cadmium	mg/kg	ND	0.30	10/03/16 09:13	
Chromium	mg/kg	ND	0.50	10/03/16 09:13	
Lead	mg/kg	ND	0.50	10/03/16 09:13	
Selenium	mg/kg	ND	0.80	10/03/16 09:13	
Silver	mg/kg	ND	0.60	10/03/16 09:13	

LABORATORY CONTROL SAMPLE: 1151922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	47.9	96	80-120	
Barium	mg/kg	50	53.5	107	80-120	
Cadmium	mg/kg	50	51.7	103	80-120	
Chromium	mg/kg	50	49.9	100	80-120	
Lead	mg/kg	50	47.2	94	80-120	
Selenium	mg/kg	50	50.6	101	80-120	
Silver	mg/kg	25	24.3	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1151923 1151924

Parameter	30197051001		MS		MSD		MS		MSD		% Rec		Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MSD % Rec	MSD % Rec		
Arsenic	mg/kg	7.5	48.8	46.4	49.8	52.4	87	97	75-125	5			
Barium	mg/kg	101	48.8	46.4	150	141	100	88	75-125	6			
Cadmium	mg/kg	0.36	48.8	46.4	46.6	43.5	95	93	75-125	7			
Chromium	mg/kg	16.3	48.8	46.4	59.4	55.6	88	85	75-125	7			
Lead	mg/kg	29.2	48.8	46.4	72.2	71.1	88	90	75-125	2			
Selenium	mg/kg	ND	48.8	46.4	45.8	41.1	93	88	75-125	11			
Silver	mg/kg	ND	24.4	23.1	22.5	21.0	91	89	75-125	7			

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

QC Batch: 235166

Analysis Method: EPA 8260C

QC Batch Method: EPA 5035A

Analysis Description: 8260C MSV 5035 Low

Associated Lab Samples: 30197051001, 30197051002

METHOD BLANK: 1155145

Matrix: Solid

Associated Lab Samples: 30197051001, 30197051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/03/16 07:37	
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/03/16 07:37	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/03/16 07:37	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/03/16 07:37	
1,1-Dichloroethane	ug/kg	ND	5.0	10/03/16 07:37	
1,1-Dichloroethene	ug/kg	ND	5.0	10/03/16 07:37	
1,1-Dichloropropene	ug/kg	ND	5.0	10/03/16 07:37	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/03/16 07:37	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/03/16 07:37	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/03/16 07:37	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	10/03/16 07:37	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/03/16 07:37	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/03/16 07:37	
1,2-Dichloroethane	ug/kg	ND	5.0	10/03/16 07:37	
1,2-Dichloropropane	ug/kg	ND	5.0	10/03/16 07:37	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/03/16 07:37	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/03/16 07:37	
1,3-Dichloropropane	ug/kg	ND	5.0	10/03/16 07:37	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/03/16 07:37	
2,2-Dichloropropane	ug/kg	ND	5.0	10/03/16 07:37	
2-Butanone (MEK)	ug/kg	ND	10.0	10/03/16 07:37	
2-Chloroethylvinyl ether	ug/kg	ND	10.0	10/03/16 07:37	
2-Chlorotoluene	ug/kg	ND	5.0	10/03/16 07:37	
2-Hexanone	ug/kg	ND	10.0	10/03/16 07:37	
4-Chlorotoluene	ug/kg	ND	5.0	10/03/16 07:37	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/03/16 07:37	
Acetone	ug/kg	ND	10.0	10/03/16 07:37	
Benzene	ug/kg	ND	5.0	10/03/16 07:37	
Bromobenzene	ug/kg	ND	5.0	10/03/16 07:37	
Bromochloromethane	ug/kg	ND	5.0	10/03/16 07:37	
Bromodichloromethane	ug/kg	ND	5.0	10/03/16 07:37	
Bromoform	ug/kg	ND	5.0	10/03/16 07:37	
Bromomethane	ug/kg	ND	5.0	10/03/16 07:37	
Carbon disulfide	ug/kg	ND	5.0	10/03/16 07:37	
Carbon tetrachloride	ug/kg	ND	5.0	10/03/16 07:37	
Chlorobenzene	ug/kg	ND	5.0	10/03/16 07:37	
Chloroethane	ug/kg	ND	5.0	10/03/16 07:37	
Chloroform	ug/kg	ND	5.0	10/03/16 07:37	
Chloromethane	ug/kg	ND	5.0	10/03/16 07:37	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/03/16 07:37	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/03/16 07:37	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

METHOD BLANK: 1155145

Matrix: Solid

Associated Lab Samples: 30197051001, 30197051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	10/03/16 07:37	
Dibromomethane	ug/kg	ND	5.0	10/03/16 07:37	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/03/16 07:37	
Ethylbenzene	ug/kg	ND	5.0	10/03/16 07:37	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/03/16 07:37	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/03/16 07:37	
m&p-Xylene	ug/kg	ND	10.0	10/03/16 07:37	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/03/16 07:37	
Methylene Chloride	ug/kg	ND	5.0	10/03/16 07:37	
n-Butylbenzene	ug/kg	ND	5.0	10/03/16 07:37	
n-Propylbenzene	ug/kg	ND	5.0	10/03/16 07:37	
Naphthalene	ug/kg	ND	5.0	10/03/16 07:37	
o-Xylene	ug/kg	ND	5.0	10/03/16 07:37	
p-Isopropyltoluene	ug/kg	ND	5.0	10/03/16 07:37	
sec-Butylbenzene	ug/kg	ND	5.0	10/03/16 07:37	
Styrene	ug/kg	ND	5.0	10/03/16 07:37	
tert-Butylbenzene	ug/kg	ND	5.0	10/03/16 07:37	
Tetrachloroethene	ug/kg	ND	5.0	10/03/16 07:37	
Toluene	ug/kg	ND	5.0	10/03/16 07:37	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/03/16 07:37	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/03/16 07:37	
Trichloroethene	ug/kg	ND	5.0	10/03/16 07:37	
Trichlorofluoromethane	ug/kg	ND	5.0	10/03/16 07:37	
Vinyl acetate	ug/kg	ND	50.0	10/03/16 07:37	
Vinyl chloride	ug/kg	ND	5.0	10/03/16 07:37	
Xylene (Total)	ug/kg	ND	15.0	10/03/16 07:37	
1,2-Dichloroethane-d4 (S)	%	100	69-137	10/03/16 07:37	
4-Bromofluorobenzene (S)	%	99	65-146	10/03/16 07:37	
Dibromofluoromethane (S)	%	97	70-130	10/03/16 07:37	
Toluene-d8 (S)	%	102	68-135	10/03/16 07:37	

LABORATORY CONTROL SAMPLE: 1155146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	16.9	84	59-126	
1,1,1-Trichloroethane	ug/kg	20	15.6	78	71-130	
1,1,2,2-Tetrachloroethane	ug/kg	20	17.8	89	66-123	
1,1,2-Trichloroethane	ug/kg	20	17.7	89	75-115	
1,1-Dichloroethane	ug/kg	20	15.6	78	65-126	
1,1-Dichloroethene	ug/kg	20	16.5	82	62-137	
1,1-Dichloropropene	ug/kg	20	15.5	77	50-144	
1,2,3-Trichlorobenzene	ug/kg	20	25.0	125	65-135	
1,2,4-Trichlorobenzene	ug/kg	20	19.4	97	78-137	
1,2,4-Trimethylbenzene	ug/kg	20	16.6	83	79-125	

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

LABORATORY CONTROL SAMPLE: 1155146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	20	19.9	99	21-150	
1,2-Dibromoethane (EDB)	ug/kg	20	18.2	91	74-118	
1,2-Dichlorobenzene	ug/kg	20	17.1	85	82-121	
1,2-Dichloroethane	ug/kg	20	17.0	85	67-116	
1,2-Dichloropropane	ug/kg	20	16.1	81	67-119	
1,3,5-Trimethylbenzene	ug/kg	20	16.2	81	74-129	
1,3-Dichlorobenzene	ug/kg	20	17.1	85	80-124	
1,3-Dichloropropane	ug/kg	20	18.5	93	65-121	
1,4-Dichlorobenzene	ug/kg	20	17.0	85	80-126	
2,2-Dichloropropane	ug/kg	20	16.3	82	32-155	
2-Butanone (MEK)	ug/kg	20	17.7	88	42-116	
2-Chloroethylvinyl ether	ug/kg	40	27.7	69	16-145	
2-Chlorotoluene	ug/kg	20	15.6	78	62-131	
2-Hexanone	ug/kg	20	23.3	117	54-121	
4-Chlorotoluene	ug/kg	20	16.5	82	58-131	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	16.3	81	52-119	
Acetone	ug/kg	20	18.9	95	32-113	
Benzene	ug/kg	20	16.7	83	71-137	
Bromobenzene	ug/kg	20	16.3	82	52-135	
Bromochloromethane	ug/kg	20	16.0	80	63-127	
Bromodichloromethane	ug/kg	20	18.6	93	67-121	
Bromoform	ug/kg	20	23.0	115	58-122	
Bromomethane	ug/kg	20	20.0	100	27-164	
Carbon disulfide	ug/kg	20	19.8	99	60-172	
Carbon tetrachloride	ug/kg	20	16.3	81	66-132	
Chlorobenzene	ug/kg	20	16.4	82	80-119	
Chloroethane	ug/kg	20	20.4	102	53-149	
Chloroform	ug/kg	20	16.7	83	70-120	
Chloromethane	ug/kg	20	17.0	85	47-147	
cis-1,2-Dichloroethene	ug/kg	20	16.2	81	64-120	
cis-1,3-Dichloropropene	ug/kg	20	17.0	85	67-123	
Dibromochloromethane	ug/kg	20	18.3	92	67-120	
Dibromomethane	ug/kg	20	17.6	88	54-123	
Dichlorodifluoromethane	ug/kg	20	14.6	73	10-175	
Ethylbenzene	ug/kg	20	16.6	83	78-126	
Hexachloro-1,3-butadiene	ug/kg	20	17.6	88	52-156	
Isopropylbenzene (Cumene)	ug/kg	20	16.6	83	78-133	
m&p-Xylene	ug/kg	40	33.5	84	77-129	
Methyl-tert-butyl ether	ug/kg	20	18.3	91	77-141	
Methylene Chloride	ug/kg	20	10	50	50-125	
n-Butylbenzene	ug/kg	20	17.9	89	74-140	
n-Propylbenzene	ug/kg	20	16.9	85	70-140	
Naphthalene	ug/kg	20	21.8	109	81-126	
o-Xylene	ug/kg	20	17.0	85	80-125	
p-Isopropyltoluene	ug/kg	20	16.9	85	74-136	
sec-Butylbenzene	ug/kg	20	17.3	87	81-132	
Styrene	ug/kg	20	17.4	87	79-130	

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

LABORATORY CONTROL SAMPLE: 1155146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	20	17.2	86	77-129	
Tetrachloroethene	ug/kg	20	16.5	82	73-135	
Toluene	ug/kg	20	17.4	87	72-127	
trans-1,2-Dichloroethene	ug/kg	20	15.9	80	64-131	
trans-1,3-Dichloropropene	ug/kg	20	17.2	86	66-116	
Trichloroethene	ug/kg	20	15.8	79	73-125	
Trichlorofluoromethane	ug/kg	20	18.3	92	39-192	
Vinyl acetate	ug/kg	20	22.6J	113	10-175	
Vinyl chloride	ug/kg	20	16.8	84	46-138	
Xylene (Total)	ug/kg	60	50.6	84	80-124	
1,2-Dichloroethane-d4 (S)	%			102	69-137	
4-Bromofluorobenzene (S)	%			101	65-146	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			103	68-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

QC Batch: 234860 Analysis Method: EPA 8081B
QC Batch Method: EPA 3546 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 30197051001, 30197051002

METHOD BLANK: 1152658 Matrix: Solid

Associated Lab Samples: 30197051001, 30197051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/kg	ND	3.3	10/01/16 05:28	
4,4'-DDE	ug/kg	ND	3.3	10/01/16 05:28	
4,4'-DDT	ug/kg	ND	3.3	10/01/16 05:28	
Aldrin	ug/kg	ND	1.7	10/01/16 05:28	
alpha-BHC	ug/kg	ND	1.7	10/01/16 05:28	
alpha-Chlordane	ug/kg	ND	1.7	10/01/16 05:28	
beta-BHC	ug/kg	ND	1.7	10/01/16 05:28	
delta-BHC	ug/kg	ND	1.7	10/01/16 05:28	
Dieldrin	ug/kg	ND	3.3	10/01/16 05:28	
Endosulfan I	ug/kg	ND	1.7	10/01/16 05:28	
Endosulfan II	ug/kg	ND	3.3	10/01/16 05:28	
Endosulfan sulfate	ug/kg	ND	3.3	10/01/16 05:28	
Endrin	ug/kg	ND	3.3	10/01/16 05:28	
Endrin aldehyde	ug/kg	ND	3.3	10/01/16 05:28	
Endrin ketone	ug/kg	ND	3.3	10/01/16 05:28	
gamma-BHC (Lindane)	ug/kg	ND	1.7	10/01/16 05:28	
gamma-Chlordane	ug/kg	ND	1.7	10/01/16 05:28	
Heptachlor	ug/kg	ND	1.7	10/01/16 05:28	
Heptachlor epoxide	ug/kg	ND	1.7	10/01/16 05:28	
Methoxychlor	ug/kg	ND	16.7	10/01/16 05:28	
Toxaphene	ug/kg	ND	16.7	10/01/16 05:28	
Decachlorobiphenyl (S)	%	73	39-122	10/01/16 05:28	
Tetrachloro-m-xylene (S)	%	71	37-113	10/01/16 05:28	

LABORATORY CONTROL SAMPLE: 1152659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	26.7	21.4	80	64-119	2c,CL
4,4'-DDE	ug/kg	26.7	24.9	94	50-114	
4,4'-DDT	ug/kg	26.7	25.1	94	68-118	
Aldrin	ug/kg	13.3	11.1	84	50-98	
alpha-BHC	ug/kg	13.3	9.7	72	50-105	2c
alpha-Chlordane	ug/kg	13.3	11.4	85	51-104	
beta-BHC	ug/kg	13.3	11.4	86	49-104	
delta-BHC	ug/kg	13.3	12.2	91	48-113	2c
Dieldrin	ug/kg	26.7	25.0	94	63-112	
Endosulfan I	ug/kg	13.3	10	75	60-108	
Endosulfan II	ug/kg	26.7	22.4	84	51-112	
Endosulfan sulfate	ug/kg	26.7	25.2	94	54-112	
Endrin	ug/kg	26.7	24.7	93	65-114	

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

LABORATORY CONTROL SAMPLE: 1152659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin aldehyde	ug/kg	26.7	23.0	86	53-145	
Endrin ketone	ug/kg	26.7	24.6	92	57-123	
gamma-BHC (Lindane)	ug/kg	13.3	12.0	90	55-112	
gamma-Chlordane	ug/kg	13.3	11.0	82	53-102	
Heptachlor	ug/kg	13.3	11.4	86	59-108	
Heptachlor epoxide	ug/kg	13.3	11.4	85	51-105	
Methoxychlor	ug/kg	133	119	90	64-116	
Decachlorobiphenyl (S)	%			74	39-122	
Tetrachloro-m-xylene (S)	%			70	37-113	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1152660 1152661

Parameter	Units	30197120010		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
4,4'-DDD	ug/kg	ND	36.7	36.1	44.0	44.3	83	85	64-119	1	CH	
4,4'-DDE	ug/kg	56.9	36.7	36.1	93.0	91.5	98	96	50-114	2		
4,4'-DDT	ug/kg	40.0	36.7	36.1	73.3	70.5	91	85	68-118	4		
Aldrin	ug/kg	ND	18.3	18.1	14.2	14.4	78	80	50-98	1		
alpha-BHC	ug/kg	ND	18.3	18.1	14.9	14.8	81	82	50-105	1		
alpha-Chlordane	ug/kg	ND	18.3	18.1	13.8	14.2	75	78	51-104	3		
beta-BHC	ug/kg	ND	18.3	18.1	16.1	15.8	88	88	49-104	1		
delta-BHC	ug/kg	ND	18.3	18.1	16.0	15.9	87	88	48-113	1		
Dieldrin	ug/kg	ND	36.7	36.1	29.1	29.3	80	81	63-112	1		
Endosulfan I	ug/kg	ND	18.3	18.1	12.8	12.9	70	71	60-108	0		
Endosulfan II	ug/kg	ND	36.7	36.1	25.4	25.2	69	70	51-112	1		
Endosulfan sulfate	ug/kg	ND	36.7	36.1	28.4	28.1	78	78	54-112	1		
Endrin	ug/kg	ND	36.7	36.1	27.7	27.8	76	77	65-114	0		
Endrin aldehyde	ug/kg	ND	36.7	36.1	27.6	26.3	75	73	53-145	5		
Endrin ketone	ug/kg	ND	36.7	36.1	28.4	28.4	78	78	57-123	0		
gamma-BHC (Lindane)	ug/kg	ND	18.3	18.1	14.7	14.5	80	80	55-112	1		
gamma-Chlordane	ug/kg	ND	18.3	18.1	13.5	14.8	74	82	53-102	9		
Heptachlor	ug/kg	ND	18.3	18.1	15.1	15.4	82	85	59-108	2		
Heptachlor epoxide	ug/kg	ND	18.3	18.1	13.1	14.3	71	79	51-105	9		
Methoxychlor	ug/kg	ND	183	181	177	177	96	98	64-116	0	CH	
Decachlorobiphenyl (S)	%						72	77	39-122			
Tetrachloro-m-xylene (S)	%						73	75	37-113			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

QC Batch: 234861

Analysis Method: EPA 8082A

QC Batch Method: EPA 3546

Analysis Description: 8082A GCS PCB

Associated Lab Samples: 30197051001, 30197051002

METHOD BLANK: 1152662

Matrix: Solid

Associated Lab Samples: 30197051001, 30197051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	10/01/16 16:16	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	10/01/16 16:16	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	10/01/16 16:16	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	10/01/16 16:16	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	10/01/16 16:16	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	10/01/16 16:16	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	10/01/16 16:16	
Decachlorobiphenyl (S)	%	60	10-115	10/01/16 16:16	
Tetrachloro-m-xylene (S)	%	48	30-107	10/01/16 16:16	

LABORATORY CONTROL SAMPLE: 1152663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	100	60	40-100	
PCB-1260 (Aroclor 1260)	ug/kg	167	99.1	59	41-109	
Decachlorobiphenyl (S)	%			68	10-115	
Tetrachloro-m-xylene (S)	%			43	30-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1152664

1152665

Parameter	Units	30197051001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
PCB-1016 (Aroclor 1016)	ug/kg	ND	240	240	153	150	64	63	40-100	2		
PCB-1260 (Aroclor 1260)	ug/kg	ND	240	240	152	158	63	66	41-109	4		
Decachlorobiphenyl (S)	%						51	51	10-115			
Tetrachloro-m-xylene (S)	%						50	43	30-107			

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

QC Batch: 234702

Analysis Method: EPA 8270D

QC Batch Method: EPA 3546

Analysis Description: 8270D Solid MSSV Microwave

Associated Lab Samples: 30197051001, 30197051002

METHOD BLANK: 1152077

Matrix: Solid

Associated Lab Samples: 30197051001, 30197051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	333	10/05/16 15:47	
1,2-Dichlorobenzene	ug/kg	ND	333	10/05/16 15:47	
1,3-Dichlorobenzene	ug/kg	ND	333	10/05/16 15:47	
1,4-Dichlorobenzene	ug/kg	ND	333	10/05/16 15:47	
2,4,5-Trichlorophenol	ug/kg	ND	833	10/05/16 15:47	
2,4,6-Trichlorophenol	ug/kg	ND	333	10/05/16 15:47	
2,4-Dichlorophenol	ug/kg	ND	333	10/05/16 15:47	
2,4-Dimethylphenol	ug/kg	ND	333	10/05/16 15:47	
2,4-Dinitrophenol	ug/kg	ND	833	10/05/16 15:47	
2,4-Dinitrotoluene	ug/kg	ND	333	10/05/16 15:47	
2,6-Dinitrotoluene	ug/kg	ND	333	10/05/16 15:47	
2-Chloronaphthalene	ug/kg	ND	333	10/05/16 15:47	
2-Chlorophenol	ug/kg	ND	333	10/05/16 15:47	
2-Methylnaphthalene	ug/kg	ND	333	10/05/16 15:47	
2-Methylphenol(o-Cresol)	ug/kg	ND	333	10/05/16 15:47	
2-Nitroaniline	ug/kg	ND	833	10/05/16 15:47	
2-Nitrophenol	ug/kg	ND	333	10/05/16 15:47	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	666	10/05/16 15:47	
3,3'-Dichlorobenzidine	ug/kg	ND	333	10/05/16 15:47	
3-Nitroaniline	ug/kg	ND	833	10/05/16 15:47	
4,6-Dinitro-2-methylphenol	ug/kg	ND	833	10/05/16 15:47	
4-Bromophenylphenyl ether	ug/kg	ND	333	10/05/16 15:47	
4-Chloro-3-methylphenol	ug/kg	ND	333	10/05/16 15:47	
4-Chloroaniline	ug/kg	ND	333	10/05/16 15:47	
4-Chlorophenylphenyl ether	ug/kg	ND	333	10/05/16 15:47	
4-Nitroaniline	ug/kg	ND	833	10/05/16 15:47	
4-Nitrophenol	ug/kg	ND	333	10/05/16 15:47	
Acenaphthene	ug/kg	ND	333	10/05/16 15:47	
Acenaphthylene	ug/kg	ND	333	10/05/16 15:47	
Anthracene	ug/kg	ND	333	10/05/16 15:47	
Benzo(a)anthracene	ug/kg	ND	333	10/05/16 15:47	
Benzo(a)pyrene	ug/kg	ND	333	10/05/16 15:47	
Benzo(b)fluoranthene	ug/kg	ND	333	10/05/16 15:47	
Benzo(g,h,i)perylene	ug/kg	ND	333	10/05/16 15:47	
Benzo(k)fluoranthene	ug/kg	ND	333	10/05/16 15:47	
bis(2-Chloroethoxy)methane	ug/kg	ND	333	10/05/16 15:47	
bis(2-Chloroethyl) ether	ug/kg	ND	333	10/05/16 15:47	
bis(2-Chloroisopropyl) ether	ug/kg	ND	333	10/05/16 15:47	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	333	10/05/16 15:47	
Butylbenzylphthalate	ug/kg	ND	333	10/05/16 15:47	
Carbazole	ug/kg	ND	333	10/05/16 15:47	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

METHOD BLANK: 1152077

Matrix: Solid

Associated Lab Samples: 30197051001, 30197051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	ug/kg	ND	333	10/05/16 15:47	
Di-n-butylphthalate	ug/kg	ND	333	10/05/16 15:47	
Di-n-octylphthalate	ug/kg	ND	333	10/05/16 15:47	
Dibenz(a,h)anthracene	ug/kg	ND	333	10/05/16 15:47	
Dibenzofuran	ug/kg	ND	333	10/05/16 15:47	
Diethylphthalate	ug/kg	ND	333	10/05/16 15:47	
Dimethylphthalate	ug/kg	ND	333	10/05/16 15:47	
Fluoranthene	ug/kg	ND	333	10/05/16 15:47	
Fluorene	ug/kg	ND	333	10/05/16 15:47	
Hexachloro-1,3-butadiene	ug/kg	ND	333	10/05/16 15:47	
Hexachlorobenzene	ug/kg	ND	333	10/05/16 15:47	
Hexachlorocyclopentadiene	ug/kg	ND	333	10/05/16 15:47	
Hexachloroethane	ug/kg	ND	333	10/05/16 15:47	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	333	10/05/16 15:47	
Isophorone	ug/kg	ND	333	10/05/16 15:47	
N-Nitroso-di-n-propylamine	ug/kg	ND	333	10/05/16 15:47	
N-Nitrosodiphenylamine	ug/kg	ND	333	10/05/16 15:47	
Naphthalene	ug/kg	ND	333	10/05/16 15:47	
Nitrobenzene	ug/kg	ND	333	10/05/16 15:47	
Pentachlorophenol	ug/kg	ND	833	10/05/16 15:47	
Phenanthrene	ug/kg	ND	333	10/05/16 15:47	
Phenol	ug/kg	ND	333	10/05/16 15:47	
Pyrene	ug/kg	ND	333	10/05/16 15:47	
2,4,6-Tribromophenol (S)	%	51	10-140	10/05/16 15:47	
2-Fluorobiphenyl (S)	%	68	38-105	10/05/16 15:47	
2-Fluorophenol (S)	%	67	10-123	10/05/16 15:47	
Nitrobenzene-d5 (S)	%	63	33-104	10/05/16 15:47	
Phenol-d6 (S)	%	62	32-111	10/05/16 15:47	
Terphenyl-d14 (S)	%	72	33-149	10/05/16 15:47	

LABORATORY CONTROL SAMPLE: 1152078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3330	2030	61	51-92	
1,2-Dichlorobenzene	ug/kg	3330	2570	77	61-115	
1,3-Dichlorobenzene	ug/kg	3330	2480	74	60-113	
1,4-Dichlorobenzene	ug/kg	3330	2560	77	63-110	
2,4,5-Trichlorophenol	ug/kg	3330	2460	74	43-133	
2,4,6-Trichlorophenol	ug/kg	3330	2770	83	38-140	
2,4-Dichlorophenol	ug/kg	3330	1970	59	34-92	
2,4-Dimethylphenol	ug/kg	3330	1860	56	30-89	
2,4-Dinitrophenol	ug/kg	3330	981	29	10-145	
2,4-Dinitrotoluene	ug/kg	3330	2530	76	55-136	
2,6-Dinitrotoluene	ug/kg	3330	2540	76	51-134	

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

LABORATORY CONTROL SAMPLE: 1152078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloronaphthalene	ug/kg	3330	2480	75	41-129	
2-Chlorophenol	ug/kg	3330	2520	76	31-121	
2-Methylnaphthalene	ug/kg	3330	2060	62	35-87	
2-Methylphenol(o-Cresol)	ug/kg	3330	2590	78	32-121	
2-Nitroaniline	ug/kg	3330	2370	71	51-135	
2-Nitrophenol	ug/kg	3330	1950	58	51-92	
3&4-Methylphenol(m&p Cresol)	ug/kg	3330	2420	72	37-121	
3,3'-Dichlorobenzidine	ug/kg	3330	2150	64	42-127	
3-Nitroaniline	ug/kg	3330	2720	82	46-158	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2050	61	47-149	
4-Bromophenylphenyl ether	ug/kg	3330	2720	82	62-139	
4-Chloro-3-methylphenol	ug/kg	3330	2010	60	53-95	
4-Chloroaniline	ug/kg	3330	1570	47	24-82	
4-Chlorophenylphenyl ether	ug/kg	3330	2580	77	69-127	
4-Nitroaniline	ug/kg	3330	2540	76	46-155	
4-Nitrophenol	ug/kg	3330	2010	60	57-142	
Acenaphthene	ug/kg	3330	2700	81	45-127	
Acenaphthylene	ug/kg	3330	2630	79	42-126	
Anthracene	ug/kg	3330	2580	77	56-118	
Benzo(a)anthracene	ug/kg	3330	2720	81	67-121	
Benzo(a)pyrene	ug/kg	3330	2700	81	66-118	
Benzo(b)fluoranthene	ug/kg	3330	2680	80	58-134	
Benzo(g,h,i)perylene	ug/kg	3330	1780	53	23-164	
Benzo(k)fluoranthene	ug/kg	3330	3270	98	64-133	
bis(2-Chloroethoxy)methane	ug/kg	3330	2060	62	36-92	
bis(2-Chloroethyl) ether	ug/kg	3330	2360	71	31-115	
bis(2-Chloroisopropyl) ether	ug/kg	3330	2570	77	31-123	
bis(2-Ethylhexyl)phthalate	ug/kg	3330	2400	72	59-137	
Butylbenzylphthalate	ug/kg	3330	2560	77	65-134	
Carbazole	ug/kg	3330	3360	101	57-124	
Chrysene	ug/kg	3330	2680	81	69-121	
Di-n-butylphthalate	ug/kg	3330	2800	84	64-131	
Di-n-octylphthalate	ug/kg	3330	2690	81	51-147	
Dibenz(a,h)anthracene	ug/kg	3330	2040	61	34-159	
Dibenzofuran	ug/kg	3330	2480	74	70-120	
Diethylphthalate	ug/kg	3330	2660	80	62-124	
Dimethylphthalate	ug/kg		2650			
Fluoranthene	ug/kg	3330	2830	85	63-124	
Fluorene	ug/kg	3330	2590	78	49-124	
Hexachloro-1,3-butadiene	ug/kg	3330	2080	62	27-104	
Hexachlorobenzene	ug/kg	3330	2790	84	49-136	
Hexachlorocyclopentadiene	ug/kg	3330	1670	50	10-121	
Hexachloroethane	ug/kg	3330	2460	74	28-121	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	1980	59	34-159	
Isophorone	ug/kg	3330	2170	65	39-91	
N-Nitroso-di-n-propylamine	ug/kg	3330	2610	78	37-122	
N-Nitrosodiphenylamine	ug/kg	3330	2070	62	36-104	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

LABORATORY CONTROL SAMPLE: 1152078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	3330	2070	62	34-89	
Nitrobenzene	ug/kg	3330	2000	60	36-90	
Pentachlorophenol	ug/kg	3330	2900	87	34-139	
Phenanthrene	ug/kg	3330	2730	82	57-120	
Phenol	ug/kg	3330	2390	72	35-119	
Pyrene	ug/kg	3330	2810	84	64-128	
2,4,6-Tribromophenol (S)	%			69	10-140	
2-Fluorobiphenyl (S)	%			74	38-105	
2-Fluorophenol (S)	%			74	10-123	
Nitrobenzene-d5 (S)	%			56	33-104	
Phenol-d6 (S)	%			68	32-111	
Terphenyl-d14 (S)	%			79	33-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1152079 1152080

Parameter	Units	30197049021		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,2,4-Trichlorobenzene	ug/kg	ND	3790	3790	3790	2290	2280	61	60	51-92	1	
1,2-Dichlorobenzene	ug/kg	ND	3790	3790	3790	2740	2800	72	74	61-115	2	
1,3-Dichlorobenzene	ug/kg	ND	3790	3790	3790	2650	2720	70	72	60-113	3	
1,4-Dichlorobenzene	ug/kg	ND	3790	3790	3790	2700	2770	71	73	63-110	2	
2,4,5-Trichlorophenol	ug/kg	ND	3790	3790	3790	971	964	26	25	43-133	1	M1
2,4,6-Trichlorophenol	ug/kg	ND	3790	3790	3790	1410	1190	37	31	38-140	17	M1
2,4-Dichlorophenol	ug/kg	ND	3790	3790	3790	1050	953	28	25	34-92	10	M1
2,4-Dimethylphenol	ug/kg	ND	3790	3790	3790	2120	2110	56	55	30-89	0	
2,4-Dinitrophenol	ug/kg	ND	3790	3790	3790	ND	ND	9	7	10-145		M1
2,4-Dinitrotoluene	ug/kg	ND	3790	3790	3790	2730	2680	72	71	55-136	2	
2,6-Dinitrotoluene	ug/kg	ND	3790	3790	3790	2660	2690	70	71	51-134	1	
2-Chloronaphthalene	ug/kg	ND	3790	3790	3790	2900	2820	77	74	41-129	3	
2-Chlorophenol	ug/kg	ND	3790	3790	3790	1750	1610	46	42	31-121	8	
2-Methylnaphthalene	ug/kg	ND	3790	3790	3790	2370	2360	62	62	35-87	1	
2-Methylphenol(o-Cresol)	ug/kg	ND	3790	3790	3790	2740	2740	72	72	32-121	0	
2-Nitroaniline	ug/kg	ND	3790	3790	3790	2920	2720	77	72	51-135	7	
2-Nitrophenol	ug/kg	ND	3790	3790	3790	638	529	17	14	51-92	19	M1
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	3790	3790	3790	2750	2780	71	71	37-121	1	
3,3'-Dichlorobenzidine	ug/kg	ND	3790	3790	3790	3350	3220	88	85	42-127	4	
3-Nitroaniline	ug/kg	ND	3790	3790	3790	3930	4330	104	114	46-158	10	
4,6-Dinitro-2-methylphenol	ug/kg	ND	3790	3790	3790	1030	863J	27	23	47-149		M1
4-Bromophenylphenyl ether	ug/kg	ND	3790	3790	3790	2740	2960	72	78	62-139	8	
4-Chloro-3-methylphenol	ug/kg	ND	3790	3790	3790	2230	2450	59	65	53-95	9	
4-Chloroaniline	ug/kg	ND	3790	3790	3790	1650	1660	44	44	24-82	1	
4-Chlorophenylphenyl ether	ug/kg	ND	3790	3790	3790	2870	2930	76	77	69-127	2	
4-Nitroaniline	ug/kg	ND	3790	3790	3790	3480	3300	92	87	46-155	5	
4-Nitrophenol	ug/kg	ND	3790	3790	3790	ND	1010	0	27	57-142		M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

Parameter	1152079			1152080			MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	30197049021 Units	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec					
Acenaphthene	ug/kg	ND	3790	3790	3090	2990	81	78	45-127	3	
Acenaphthylene	ug/kg	ND	3790	3790	3060	2920	80	77	42-126	5	
Anthracene	ug/kg	ND	3790	3790	2490	2310	66	61	56-118	8	
Benzo(a)anthracene	ug/kg	ND	3790	3790	3360	3330	88	87	67-121	1	
Benzo(a)pyrene	ug/kg	ND	3790	3790	3310	3050	87	81	66-118	8 IS	
Benzo(b)fluoranthene	ug/kg	ND	3790	3790	4130	4050	107	105	58-134	2 IS	
Benzo(g,h,i)perylene	ug/kg	ND	3790	3790	1040	981	27	26	23-164	6 IS	
Benzo(k)fluoranthene	ug/kg	ND	3790	3790	4360	4000	114	104	64-133	9 IS	
bis(2-Chloroethoxy)methane	ug/kg	ND	3790	3790	2300	2320	61	61	36-92	1	
bis(2-Chloroethyl) ether	ug/kg	ND	3790	3790	2330	2450	61	65	31-115	5	
bis(2-Chloroisopropyl) ether	ug/kg	ND	3790	3790	2740	2780	72	73	31-123	2	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	3790	3790	2960	2940	74	74	59-137	0	
Butylbenzylphthalate	ug/kg	ND	3790	3790	3470	3350	91	88	65-134	4	
Carbazole	ug/kg	ND	3790	3790	4250	3900	112	103	57-124	9	
Chrysene	ug/kg	ND	3790	3790	3200	3110	82	80	69-121	3	
Di-n-butylphthalate	ug/kg	ND	3790	3790	3170	2860	84	75	64-131	10	
Di-n-octylphthalate	ug/kg	ND	3790	3790	5290	4740	140	125	51-147	11 IS	
Dibenz(a,h)anthracene	ug/kg	ND	3790	3790	1220	1170	32	31	34-159	4 IS,M1	
Dibenzofuran	ug/kg	ND	3790	3790	2940	2840	77	74	70-120	4	
Diethylphthalate	ug/kg	ND	3790	3790	2940	2830	78	75	62-124	4	
Dimethylphthalate	ug/kg	ND			2910	3040				4	
Fluoranthene	ug/kg	ND	3790	3790	3400	2800	87	71	63-124	19	
Fluorene	ug/kg	ND	3790	3790	3100	2960	81	77	49-124	5	
Hexachloro-1,3-butadiene	ug/kg	ND	3790	3790	2350	2350	62	62	27-104	0	
Hexachlorobenzene	ug/kg	ND	3790	3790	3040	2850	80	75	49-136	6	
Hexachlorocyclopentadiene	ug/kg	ND	3790	3790	ND	ND	4	2	10-121	M1	
Hexachloroethane	ug/kg	ND	3790	3790	2530	2560	67	67	28-121	1	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3790	3790	1250	1230	33	32	34-159	2 IS,M1	
Isophorone	ug/kg	ND	3790	3790	2370	2370	62	63	39-91	0	
N-Nitroso-di-n-propylamine	ug/kg	ND	3790	3790	2820	2850	75	75	37-122	1 IS	
N-Nitrosodiphenylamine	ug/kg	1020	3790	3790	3730	3530	72	66	36-104	5	
Naphthalene	ug/kg	ND	3790	3790	2350	2330	62	61	34-89	1	
Nitrobenzene	ug/kg	ND	3790	3790	2210	2230	58	59	36-90	1	
Pentachlorophenol	ug/kg	ND	3790	3790	1160	1650	31	44	34-139	35 M1,R1	
Phenanthrene	ug/kg	ND	3790	3790	3700	3330	93	83	57-120	11	
Phenol	ug/kg	ND	3790	3790	2460	2490	65	66	35-119	1	
Pyrene	ug/kg	ND	3790	3790	3960	3820	101	98	64-128	3	
2,4,6-Tribromophenol (S)	%						30	28	10-140		
2-Fluorobiphenyl (S)	%						75	73	38-105		
2-Fluorophenol (S)	%						41	36	10-123		
Nitrobenzene-d5 (S)	%						56	58	33-104		
Phenol-d6 (S)	%						62	63	32-111		
Terphenyl-d14 (S)	%						94	89	33-149		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

QC Batch: 234885	Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30197051001, 30197051002	

SAMPLE DUPLICATE: 1152760

Parameter	Units	30196582002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	ND	0.61		

SAMPLE DUPLICATE: 1152761

Parameter	Units	30196819001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	1.8	1.8	4	

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QUALIFIERS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197051

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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: 235166

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

2c This analyte failed the 30 percent low level calibration standard check. Results may be biased high.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

IS The internal standard response is below criteria. Results may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197051

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30197051001	EAST LAWN-BECKWITH AVE	EPA 3546	234860	EPA 8081B	235134
30197051002	WEST LAWN-BECKWITH AVE	EPA 3546	234860	EPA 8081B	235134
30197051001	EAST LAWN-BECKWITH AVE	EPA 3546	234861	EPA 8082A	235160
30197051002	WEST LAWN-BECKWITH AVE	EPA 3546	234861	EPA 8082A	235160
30197051001	EAST LAWN-BECKWITH AVE	EPA 3050B	234681	EPA 6010C	234795
30197051002	WEST LAWN-BECKWITH AVE	EPA 3050B	234681	EPA 6010C	234795
30197051001	EAST LAWN-BECKWITH AVE	EPA 7471B	234711	EPA 7471B	234785
30197051002	WEST LAWN-BECKWITH AVE	EPA 7471B	234711	EPA 7471B	234785
30197051001	EAST LAWN-BECKWITH AVE	EPA 3546	234702	EPA 8270D	235362
30197051002	WEST LAWN-BECKWITH AVE	EPA 3546	234702	EPA 8270D	235362
30197051001	EAST LAWN-BECKWITH AVE	EPA 5035A	235166	EPA 8260C	235237
30197051002	WEST LAWN-BECKWITH AVE	EPA 5035A	235166	EPA 8260C	235237
30197051001	EAST LAWN-BECKWITH AVE	ASTM D2974-87	234885		
30197051002	WEST LAWN-BECKWITH AVE	ASTM D2974-87	234885		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A
 Required Client Information:
 Company: Geologic NY Inc
 Address: Po Box 350
Homer NY
 Email To: geologic.ny@geologic.net
 Phone: 516-749-5100
 Requested Due Date/TAT: Standard

Section B
 Required Project Information:
 Report To: Geologic
 Copy To: Susan Cummins
 Purchase Order No.: 99011A
 Project Name: T-CME - Binghamton
 Project Number: 99011A

Section C
 Invoice Information:
 Attention: Same
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location STATE: NY

Requested Analysis: EW/MS/VA/
WO#: 30197051



ITEM #	Section D Required Client Information		COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES					Y/N	Requested Analysis	Pace Project No./ Lab I.D.
	Matrix Codes MATRIX / CODE	Drinking Water Water Waste Water Product Soil/Solid	COMPOSITE START	COMPOSITE END/GRAB				DATE	TIME	DATE	TIME	DATE			
1	EAST LAWN - BELKWITH AVE SLG	DW					5	X					X	EPA 8270 TCL	001
2	WEST LAWN - BELKWITH AVE SLG	WT					5	X					X	EPA 8270 TCL	002
3		WW											X	PCB	
4		P											X	8 RCRA Metals	
5		SL											X	EPA 8081-Pesticides	
6		OL													
7		WP													
8		AR													
9		TS													
10		OT													
11		Other													
12															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
	<u>Susan Cummins</u>	<u>9-23-14</u>	<u>112A</u>	<u>Paul Gandy</u>	<u>9/23/14</u>	<u>1122</u>	Received on	Sealed Cooler	(Y/N)	Samples Intact	(Y/N)		
	<u>The P. RA</u>	<u>9/23/16</u>	<u>1700</u>	<u>Paul Gandy</u>	<u>9/23/16</u>	<u>1000</u>	Temp In °C	Ice (Y/N)				<u>4.5</u>	<u>Y</u>

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Susan Cummins
 SIGNATURE of SAMPLER: Susan Cummins

DATE Signed 9-22-14
 (MM/DD/YYYY)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt Pittsburgh



Client Name: Geologic NY

Project # 30197051

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 777306637846

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used 7 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 4.9 °C Correction Factor: -0.4 °C Final Temp: 4.5 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: all 9/29/16

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>3C</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.			X	13.
All containers needing preservation are found to be in compliance with EPA recommendation.			X	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>all</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

October 04, 2016

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

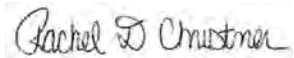
RE: Project: 99011A TCMF-Binghamton
Pace Project No.: 30197052

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197052

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197052

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30197052001	B-002B-1 8'-20'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052002	B-002B-1 12-20'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052003	B-002A-1 8-16'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052004	B-002A-1 20-24'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052005	B-002A-2 16-24'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052006	B-003-1 8-16'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052007	B-003-1 16-20'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052008	B-003-2 16-20'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052009	B-003-2 20-24'	EPA 6010C	CTS	2	PASI-PA
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA
30197052010	B-003-3 8-16'	EPA 6010C	CTS	2	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197052

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	TAW	1	PASI-PA
		EPA 7196A	CS1	1	PASI-PA
		Trivalent Chromium Calculation	BKH	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197052

Sample: B-002B-1 8'-20' **Lab ID: 30197052001** Collected: 09/21/16 09:15 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	80.3	mg/kg	0.20	1	09/28/16 11:21	10/03/16 09:27	7440-43-9	
Chromium	36.1	mg/kg	0.33	1	09/28/16 11:21	10/03/16 09:27	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	8.9	%	0.10	1		09/29/16 13:00		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 7196A						
Chromium, Hexavalent	1.4	mg/kg	1.1	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation		Analytical Method: Trivalent Chromium Calculation						
Chromium, Trivalent	34.7	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

Sample: B-002B-1 12-20' **Lab ID: 30197052002** Collected: 09/21/16 09:35 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	9.5	mg/kg	0.19	1	09/28/16 11:21	10/03/16 09:29	7440-43-9	
Chromium	49.3	mg/kg	0.32	1	09/28/16 11:21	10/03/16 09:29	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	8.0	%	0.10	1		09/29/16 13:01		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 7196A						
Chromium, Hexavalent	ND	mg/kg	1.1	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation		Analytical Method: Trivalent Chromium Calculation						
Chromium, Trivalent	49.3	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

Sample: B-002A-1 8-16' **Lab ID: 30197052003** Collected: 09/21/16 10:15 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	18.7	mg/kg	0.22	1	09/28/16 11:21	10/03/16 09:32	7440-43-9	
Chromium	605	mg/kg	0.36	1	09/28/16 11:21	10/03/16 09:32	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	10.4	%	0.10	1		09/29/16 13:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197052

Sample: B-002A-1 8-16' **Lab ID: 30197052003** Collected: 09/21/16 10:15 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent Analytical Method: EPA 7196A Preparation Method: EPA 7196A								
Chromium, Hexavalent	7.3	mg/kg	1.1	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	598	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

Sample: B-002A-1 20-24' **Lab ID: 30197052004** Collected: 09/21/16 10:30 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	16.0	mg/kg	0.27	1	09/28/16 11:21	10/03/16 09:34	7440-43-9	
Chromium	797	mg/kg	0.46	1	09/28/16 11:21	10/03/16 09:34	7440-47-3	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	18.5	%	0.10	1		09/29/16 13:01		
7196 Chromium, Hexavalent Analytical Method: EPA 7196A Preparation Method: EPA 7196A								
Chromium, Hexavalent	22.1	mg/kg	1.2	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	775	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

Sample: B-002A-2 16-24' **Lab ID: 30197052005** Collected: 09/21/16 11:15 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	31.2	mg/kg	0.20	1	09/28/16 11:21	10/03/16 09:47	7440-43-9	
Chromium	294	mg/kg	0.34	1	09/28/16 11:21	10/03/16 09:47	7440-47-3	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	5.8	%	0.10	1		09/29/16 13:01		
7196 Chromium, Hexavalent Analytical Method: EPA 7196A Preparation Method: EPA 7196A								
Chromium, Hexavalent	ND	mg/kg	1.0	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	294	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197052

Sample: B-003-1 8-16' **Lab ID: 30197052006** Collected: 09/21/16 12:40 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	621	mg/kg	0.19	1	09/28/16 11:21	10/03/16 09:49	7440-43-9	
Chromium	58.2	mg/kg	0.32	1	09/28/16 11:21	10/03/16 09:49	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	5.0	%	0.10	1		09/29/16 13:01		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 7196A						
Chromium, Hexavalent	2.0	mg/kg	1.0	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation		Analytical Method: Trivalent Chromium Calculation						
Chromium, Trivalent	56.2	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

Sample: B-003-1 16-20' **Lab ID: 30197052007** Collected: 09/21/16 12:50 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	166	mg/kg	0.20	1	09/28/16 11:21	10/03/16 09:52	7440-43-9	
Chromium	24.8	mg/kg	0.33	1	09/28/16 11:21	10/03/16 09:52	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	3.1	%	0.10	1		09/29/16 13:01		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Preparation Method: EPA 7196A						
Chromium, Hexavalent	4.0	mg/kg	1.0	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation		Analytical Method: Trivalent Chromium Calculation						
Chromium, Trivalent	20.8	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

Sample: B-003-2 16-20' **Lab ID: 30197052008** Collected: 09/21/16 13:20 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Cadmium	2.9	mg/kg	0.22	1	09/28/16 11:21	10/03/16 09:54	7440-43-9	
Chromium	39.7	mg/kg	0.37	1	09/28/16 11:21	10/03/16 09:54	7440-47-3	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	5.2	%	0.10	1		09/29/16 13:01		

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ANALYTICAL RESULTS

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197052

Sample: B-003-2 16-20' Lab ID: 30197052008 Collected: 09/21/16 13:20 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent Analytical Method: EPA 7196A Preparation Method: EPA 7196A								
Chromium, Hexavalent	1.2	mg/kg	1.1	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	38.5	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

Sample: B-003-2 20-24' Lab ID: 30197052009 Collected: 09/21/16 13:25 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	35.3	mg/kg	0.21	1	09/28/16 11:21	10/03/16 09:57	7440-43-9	
Chromium	6.7	mg/kg	0.36	1	09/28/16 11:21	10/03/16 09:57	7440-47-3	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	13.4	%	0.10	1		09/29/16 13:01		
7196 Chromium, Hexavalent Analytical Method: EPA 7196A Preparation Method: EPA 7196A								
Chromium, Hexavalent	ND	mg/kg	1.1	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	6.7	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

Sample: B-003-3 8-16' Lab ID: 30197052010 Collected: 09/21/16 13:35 Received: 09/24/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	18.5	mg/kg	0.18	1	09/28/16 11:21	10/03/16 09:59	7440-43-9	
Chromium	14.7	mg/kg	0.30	1	09/28/16 11:21	10/03/16 09:59	7440-47-3	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	7.5	%	0.10	1		09/29/16 13:01		
7196 Chromium, Hexavalent Analytical Method: EPA 7196A Preparation Method: EPA 7196A								
Chromium, Hexavalent	1.2	mg/kg	1.1	1	09/28/16 11:25	09/29/16 14:15	18540-29-9	
Trivalent Chromium Calculation Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	13.5	mg/kg	1.0	1		10/04/16 09:44	16065-83-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197052

QC Batch: 234681 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010C MET
Associated Lab Samples: 30197052001, 30197052002, 30197052003, 30197052004, 30197052005, 30197052006, 30197052007, 30197052008, 30197052009, 30197052010

METHOD BLANK: 1151921 Matrix: Solid
Associated Lab Samples: 30197052001, 30197052002, 30197052003, 30197052004, 30197052005, 30197052006, 30197052007, 30197052008, 30197052009, 30197052010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.30	10/03/16 09:13	
Chromium	mg/kg	ND	0.50	10/03/16 09:13	

LABORATORY CONTROL SAMPLE: 1151922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	51.7	103	80-120	
Chromium	mg/kg	50	49.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1151923 1151924

Parameter	Units	30197051001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Cadmium	mg/kg	0.36	48.8	46.4	46.6	43.5	95	93	75-125	7		
Chromium	mg/kg	16.3	48.8	46.4	59.4	55.6	88	85	75-125	7		

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197052

QC Batch:	234885	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	30197052001, 30197052002, 30197052003, 30197052004, 30197052005, 30197052006, 30197052007, 30197052008, 30197052009, 30197052010		

SAMPLE DUPLICATE: 1152760

Parameter	Units	30196582002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	ND	0.61		

SAMPLE DUPLICATE: 1152761

Parameter	Units	30196819001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	1.8	1.8	4	

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QUALITY CONTROL DATA

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197052

QC Batch: 234686 Analysis Method: EPA 7196A
QC Batch Method: EPA 7196A Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 30197052001, 30197052002, 30197052003, 30197052004, 30197052005, 30197052006, 30197052007, 30197052008, 30197052009, 30197052010

METHOD BLANK: 1151970 Matrix: Solid
Associated Lab Samples: 30197052001, 30197052002, 30197052003, 30197052004, 30197052005, 30197052006, 30197052007, 30197052008, 30197052009, 30197052010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	0.98	09/29/16 14:15	

LABORATORY CONTROL SAMPLE: 1151971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	19.9	20.7	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1151975 1151976

Parameter	30197052007		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.							
Chromium, Hexavalent	mg/kg	4.0	20.4	20.2	24.7	23.7	101	97	75-125	4	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 99011A TCMF-Binghamton

Pace Project No.: 30197052

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 99011A TCMF-Binghamton
Pace Project No.: 30197052

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30197052001	B-002B-1 8'-20'	EPA 3050B	234681	EPA 6010C	234795
30197052002	B-002B-1 12-20'	EPA 3050B	234681	EPA 6010C	234795
30197052003	B-002A-1 8-16'	EPA 3050B	234681	EPA 6010C	234795
30197052004	B-002A-1 20-24'	EPA 3050B	234681	EPA 6010C	234795
30197052005	B-002A-2 16-24'	EPA 3050B	234681	EPA 6010C	234795
30197052006	B-003-1 8-16'	EPA 3050B	234681	EPA 6010C	234795
30197052007	B-003-1 16-20'	EPA 3050B	234681	EPA 6010C	234795
30197052008	B-003-2 16-20'	EPA 3050B	234681	EPA 6010C	234795
30197052009	B-003-2 20-24'	EPA 3050B	234681	EPA 6010C	234795
30197052010	B-003-3 8-16'	EPA 3050B	234681	EPA 6010C	234795
30197052001	B-002B-1 8'-20'	ASTM D2974-87	234885		
30197052002	B-002B-1 12-20'	ASTM D2974-87	234885		
30197052003	B-002A-1 8-16'	ASTM D2974-87	234885		
30197052004	B-002A-1 20-24'	ASTM D2974-87	234885		
30197052005	B-002A-2 16-24'	ASTM D2974-87	234885		
30197052006	B-003-1 8-16'	ASTM D2974-87	234885		
30197052007	B-003-1 16-20'	ASTM D2974-87	234885		
30197052008	B-003-2 16-20'	ASTM D2974-87	234885		
30197052009	B-003-2 20-24'	ASTM D2974-87	234885		
30197052010	B-003-3 8-16'	ASTM D2974-87	234885		
30197052001	B-002B-1 8'-20'	EPA 7196A	234686	EPA 7196A	234690
30197052002	B-002B-1 12-20'	EPA 7196A	234686	EPA 7196A	234690
30197052003	B-002A-1 8-16'	EPA 7196A	234686	EPA 7196A	234690
30197052004	B-002A-1 20-24'	EPA 7196A	234686	EPA 7196A	234690
30197052005	B-002A-2 16-24'	EPA 7196A	234686	EPA 7196A	234690
30197052006	B-003-1 8-16'	EPA 7196A	234686	EPA 7196A	234690
30197052007	B-003-1 16-20'	EPA 7196A	234686	EPA 7196A	234690
30197052008	B-003-2 16-20'	EPA 7196A	234686	EPA 7196A	234690
30197052009	B-003-2 20-24'	EPA 7196A	234686	EPA 7196A	234690
30197052010	B-003-3 8-16'	EPA 7196A	234686	EPA 7196A	234690
30197052001	B-002B-1 8'-20'	Trivalent Chromium Calculation	235374		
30197052002	B-002B-1 12-20'	Trivalent Chromium Calculation	235374		
30197052003	B-002A-1 8-16'	Trivalent Chromium Calculation	235374		
30197052004	B-002A-1 20-24'	Trivalent Chromium Calculation	235374		
30197052005	B-002A-2 16-24'	Trivalent Chromium Calculation	235374		
30197052006	B-003-1 8-16'	Trivalent Chromium Calculation	235374		
30197052007	B-003-1 16-20'	Trivalent Chromium Calculation	235374		
30197052008	B-003-2 16-20'	Trivalent Chromium Calculation	235374		
30197052009	B-003-2 20-24'	Trivalent Chromium Calculation	235374		
30197052010	B-003-3 8-16'	Trivalent Chromium Calculation	235374		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Geologic NY Inc.	Report To:	Geologic	Attention:	Same
Address:	PO Box 350 Homer NY	Copy To:	Susan Cummins	Company Name:	
Email To:	geologicny@geologic.net	Purchase Order No.:	99011A	Address:	
Phone:	607-744-3500	Project Name:	TMF - Binghamton	Pace Quote Reference:	
Requested Due Date/TAT:	Standard	Project Number:	99011A	Pace Project Manager:	
				Pace Profile #:	

Page: 1 of 1
1882932

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location: NY STATE: NY

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Analysis Test	Pace Project No. / Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ O ₃	Methanol			
1	B-002B-1 8'-12'	DW WT	SLG	9-21-16	9:15	1	1										001
2	B-002B-1 12'-20'	Water WW	SLG	9-21-16	9:35	1	1										002
3	B-002A-1 8'-16'	Product SL	SLG	9-21-16	10:15	1	1										003
4	B-002A-1 20'-24'	Soil/Solid OL	SLG	9-21-16	10:30	1	1										004
5	B-002A-2 16'-24'	Oil WP	SLG	9-21-16	11:15	1	1										005
6	B-003-1 8'-16'	Wipe AR	SLG	9-21-16	12:40	1	1										006
7	B-003-1 16'-20'	Air TS	SLG	9-21-16	12:50	1	1										007
8	B-003-2 16'-20'	Tissue OT	SLG	9-21-16	13:20	1	1										008
9	B-003-2 20'-24'	Other	SLG	9-21-16	13:25	1	1										009
10	B-003-3 8'-16'		SLG	9-21-16	13:55	1	1										010

WO#: 30197052

21107052

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Susan Cummins	9-23-16	11:22	John P. King	9/23/16	11:22	Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
	John P. King	9/23/16	17:00	Susan Cummins	9/23/16	10:00	Y Y Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Susan Cummins
 SIGNATURE of SAMPLER: *Susan Cummins*
 DATE Signed (MM/DD/YYYY): 9-21-16

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt Pittsburgh



Client Name: Geologic NY

Project # 30197052

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 7773016637846

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used 7 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 4.9 °C Correction Factor: 0.4 °C Final Temp: 4.5 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ALL 9/24/16

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>SL</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.			X	13.
All containers needing preservation are found to be in compliance with EPA recommendation.			X	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>ALL</u> Date/time of preservation: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: _____ Date: _____

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

November 04, 2016

GeoLogic NY, Inc.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

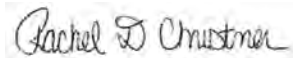
RE: Project: TCMF-Binghamton
Pace Project No.: 30200654

Dear GeoLogic NY, Inc.:

Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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 Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TCMF-Binghamton

Pace Project No.: 30200654

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30200654001	MW-3	EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	PJD	1	PASI-PA
		EPA 8260C	RES	71	PASI-PA
30200654002	MW-3HA	EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	PJD	1	PASI-PA
		EPA 8260C	RES	71	PASI-PA
30200654003	MW-5R	EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	PJD	1	PASI-PA
		EPA 8260C	RES	71	PASI-PA
30200654004	MW-4	EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	PJD	1	PASI-PA
		EPA 8260C	RES	71	PASI-PA
30200654006	MW-6	EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	PJD	1	PASI-PA
		EPA 8260C	RES	71	PASI-PA
30200654007	MW-7R	EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	PJD	1	PASI-PA
		EPA 8260C	RES	71	PASI-PA
30200654008	MW-8	EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	PJD	1	PASI-PA
		EPA 8260C	RES	71	PASI-PA
30200654009	MW-9	EPA 6010C	CTS	7	PASI-PA
		EPA 7470A	PJD	1	PASI-PA
		EPA 8260C	RES	71	PASI-PA
30200654010	MW-9 Duplicate	EPA 8260C	RES	71	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-3	Lab ID: 30200654001	Collected: 10/25/16 14:35	Received: 10/27/16 09:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:17	7440-38-2	
Barium	97.5	ug/L	20.0	1	11/03/16 14:14	11/04/16 08:17	7440-39-3	
Cadmium	18.9	ug/L	6.0	1	11/03/16 14:14	11/04/16 08:17	7440-43-9	
Chromium	279	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:17	7440-47-3	
Lead	ND	ug/L	10.0	1	11/03/16 14:14	11/04/16 09:54	7439-92-1	
Selenium	ND	ug/L	16.0	1	11/03/16 14:14	11/04/16 08:17	7782-49-2	
Silver	ND	ug/L	12.0	1	11/03/16 14:14	11/04/16 08:17	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	11/03/16 12:45	11/04/16 01:02	7439-97-6	
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 16:39	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 16:39	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 16:39	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 16:39	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 16:39	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 16:39	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 16:39	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 16:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 16:39	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 16:39	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 16:39	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 16:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 16:39	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 16:39	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 16:39	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 16:39	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 16:39	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 16:39	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 16:39	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 16:39	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 16:39	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 16:39	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 16:39	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 16:39	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 16:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 16:39	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 16:39	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 16:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 16:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 16:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 16:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/31/16 16:39	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 16:39	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 16:39	75-15-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-3		Lab ID: 30200654001	Collected: 10/25/16 14:35	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 16:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 16:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/16 16:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 16:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/16 16:39	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 16:39	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/31/16 16:39	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 16:39	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 16:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 16:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 16:39	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 16:39	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 16:39	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 16:39	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 16:39	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 16:39	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 16:39	108-88-3	
Trichloroethene	1.2	ug/L	1.0	1		10/31/16 16:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 16:39	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 16:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 16:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 16:39	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 16:39	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 16:39	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 16:39	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 16:39	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 16:39	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 16:39	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 16:39	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 16:39	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 16:39	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 16:39	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 16:39	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	81-119	1		10/31/16 16:39	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	77-126	1		10/31/16 16:39	17060-07-0	
Toluene-d8 (S)	96	%	84-115	1		10/31/16 16:39	2037-26-5	
Dibromofluoromethane (S)	95	%	70-130	1		10/31/16 16:39	1868-53-7	

Sample: MW-3HA		Lab ID: 30200654002	Collected: 10/25/16 13:50	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Arsenic	7.2	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:19	7440-38-2	
Barium	73.0	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:19	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-3HA		Lab ID: 30200654002	Collected: 10/25/16 13:50	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Cadmium	18.8	ug/L	3.0	1	11/03/16 14:14	11/04/16 08:19	7440-43-9	
Chromium	57.8	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:19	7440-47-3	
Lead	5.2	ug/L	5.0	1	11/03/16 14:14	11/04/16 09:57	7439-92-1	
Selenium	ND	ug/L	8.0	1	11/03/16 14:14	11/04/16 08:19	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/16 14:14	11/04/16 08:19	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	11/03/16 12:45	11/04/16 01:03	7439-97-6	
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 17:05	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 17:05	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 17:05	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 17:05	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 17:05	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:05	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:05	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 17:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:05	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 17:05	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 17:05	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 17:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:05	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 17:05	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:05	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 17:05	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:05	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:05	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:05	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:05	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 17:05	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 17:05	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 17:05	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 17:05	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 17:05	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 17:05	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 17:05	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 17:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 17:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 17:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 17:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/31/16 17:05	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 17:05	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 17:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 17:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 17:05	108-90-7	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-3HA		Lab ID: 30200654002	Collected: 10/25/16 13:50	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Chloroethane	ND	ug/L	1.0	1		10/31/16 17:05	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 17:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/16 17:05	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 17:05	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/31/16 17:05	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 17:05	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 17:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 17:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 17:05	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 17:05	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 17:05	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 17:05	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 17:05	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 17:05	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 17:05	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/31/16 17:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 17:05	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 17:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 17:05	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 17:05	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:05	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:05	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 17:05	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:05	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 17:05	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 17:05	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 17:05	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:05	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:05	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:05	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:05	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	81-119	1		10/31/16 17:05	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	77-126	1		10/31/16 17:05	17060-07-0	
Toluene-d8 (S)	97	%	84-115	1		10/31/16 17:05	2037-26-5	
Dibromofluoromethane (S)	97	%	70-130	1		10/31/16 17:05	1868-53-7	

Sample: MW-5R		Lab ID: 30200654003	Collected: 10/25/16 11:40	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:34	7440-38-2	
Barium	64.5	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:34	7440-39-3	
Cadmium	ND	ug/L	3.0	1	11/03/16 14:14	11/04/16 08:34	7440-43-9	
Chromium	5.2	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:34	7440-47-3	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-5R	Lab ID: 30200654003	Collected: 10/25/16 11:40	Received: 10/27/16 09:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Lead	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 10:09	7439-92-1	
Selenium	ND	ug/L	8.0	1	11/03/16 14:14	11/04/16 08:34	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/16 14:14	11/04/16 08:34	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	11/03/16 12:45	11/04/16 01:05	7439-97-6	
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 17:32	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 17:32	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 17:32	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 17:32	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 17:32	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:32	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:32	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 17:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:32	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 17:32	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 17:32	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 17:32	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:32	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 17:32	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:32	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 17:32	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:32	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:32	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:32	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:32	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 17:32	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 17:32	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 17:32	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 17:32	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 17:32	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 17:32	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 17:32	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 17:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 17:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 17:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 17:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/31/16 17:32	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 17:32	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 17:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 17:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 17:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/16 17:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 17:32	67-66-3	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-5R	Lab ID: 30200654003	Collected: 10/25/16 11:40	Received: 10/27/16 09:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Chloromethane	ND	ug/L	1.0	1		10/31/16 17:32	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 17:32	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/31/16 17:32	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 17:32	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 17:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 17:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 17:32	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 17:32	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 17:32	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 17:32	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 17:32	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 17:32	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 17:32	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/31/16 17:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 17:32	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 17:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 17:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 17:32	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:32	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:32	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 17:32	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:32	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 17:32	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 17:32	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 17:32	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:32	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:32	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:32	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:32	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	81-119	1		10/31/16 17:32	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	77-126	1		10/31/16 17:32	17060-07-0	
Toluene-d8 (S)	94	%	84-115	1		10/31/16 17:32	2037-26-5	
Dibromofluoromethane (S)	96	%	70-130	1		10/31/16 17:32	1868-53-7	

Sample: MW-4 Lab ID: 30200654004 Collected: 10/25/16 15:20 Received: 10/27/16 09:55 Matrix: Water
Comments: • Client sample ID on container did not match COC; client was notified.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Arsenic	6.1	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:36	7440-38-2	
Barium	64.6	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:36	7440-39-3	
Cadmium	ND	ug/L	3.0	1	11/03/16 14:14	11/04/16 08:36	7440-43-9	
Chromium	12.9	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:36	7440-47-3	
Lead	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 10:12	7439-92-1	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-4 **Lab ID: 30200654004** Collected: 10/25/16 15:20 Received: 10/27/16 09:55 Matrix: Water

Comments: • Client sample ID on container did not match COC; client was notified.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Selenium	ND	ug/L	8.0	1	11/03/16 14:14	11/04/16 08:36	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/16 14:14	11/04/16 08:36	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	11/03/16 12:45	11/04/16 01:10	7439-97-6	
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 16:05	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 16:05	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 16:05	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 16:05	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 16:05	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 16:05	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 16:05	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 16:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 16:05	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 16:05	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 16:05	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 16:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 16:05	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 16:05	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 16:05	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 16:05	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 16:05	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 16:05	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 16:05	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 16:05	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 16:05	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 16:05	110-75-8	M0,c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 16:05	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 16:05	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 16:05	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 16:05	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 16:05	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 16:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 16:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 16:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 16:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/31/16 16:05	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 16:05	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 16:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 16:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 16:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/16 16:05	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 16:05	67-66-3	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-4 **Lab ID: 30200654004** Collected: 10/25/16 15:20 Received: 10/27/16 09:55 Matrix: Water

Comments: • Client sample ID on container did not match COC; client was notified.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Chloromethane	ND	ug/L	1.0	1		10/31/16 16:05	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 16:05	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/31/16 16:05	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 16:05	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 16:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 16:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 16:05	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 16:05	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 16:05	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 16:05	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 16:05	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 16:05	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 16:05	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/31/16 16:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 16:05	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 16:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 16:05	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 16:05	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 16:05	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 16:05	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 16:05	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 16:05	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 16:05	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 16:05	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 16:05	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 16:05	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 16:05	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 16:05	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 16:05	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	81-119	1		10/31/16 16:05	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-126	1		10/31/16 16:05	17060-07-0	
Toluene-d8 (S)	100	%	84-115	1		10/31/16 16:05	2037-26-5	
Dibromofluoromethane (S)	98	%	70-130	1		10/31/16 16:05	1868-53-7	

Sample: MW-6 **Lab ID: 30200654006** Collected: 10/25/16 10:55 Received: 10/27/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:38	7440-38-2	
Barium	56.6	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:38	7440-39-3	
Cadmium	3.2	ug/L	3.0	1	11/03/16 14:14	11/04/16 08:38	7440-43-9	
Chromium	24.2	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:38	7440-47-3	
Lead	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 10:14	7439-92-1	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-6	Lab ID: 30200654006	Collected: 10/25/16 10:55	Received: 10/27/16 09:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Selenium	ND	ug/L	8.0	1	11/03/16 14:14	11/04/16 08:38	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/16 14:14	11/04/16 08:38	7440-22-4	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	1	11/03/16 12:45	11/04/16 01:12	7439-97-6	
8260C MSV								
Analytical Method: EPA 8260C								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 17:58	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 17:58	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 17:58	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 17:58	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 17:58	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:58	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:58	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 17:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:58	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 17:58	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 17:58	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 17:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:58	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 17:58	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:58	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 17:58	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:58	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:58	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 17:58	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 17:58	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 17:58	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 17:58	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 17:58	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 17:58	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 17:58	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 17:58	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 17:58	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 17:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 17:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 17:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 17:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/31/16 17:58	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 17:58	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 17:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 17:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 17:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/16 17:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 17:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/16 17:58	74-87-3	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-6		Lab ID: 30200654006	Collected: 10/25/16 10:55	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 17:58	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/31/16 17:58	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 17:58	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 17:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 17:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 17:58	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 17:58	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 17:58	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 17:58	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 17:58	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 17:58	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 17:58	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/31/16 17:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 17:58	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 17:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 17:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 17:58	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:58	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:58	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 17:58	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:58	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 17:58	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 17:58	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 17:58	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 17:58	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 17:58	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 17:58	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	81-119	1		10/31/16 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	77-126	1		10/31/16 17:58	17060-07-0	
Toluene-d8 (S)	98	%	84-115	1		10/31/16 17:58	2037-26-5	
Dibromofluoromethane (S)	98	%	70-130	1		10/31/16 17:58	1868-53-7	

Sample: MW-7R Lab ID: 30200654007 Collected: 10/25/16 10:10 Received: 10/27/16 09:55 Matrix: Water

Comments: • Client sample ID on container did not match COC; client was notified.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:41	7440-38-2	
Barium	103	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:41	7440-39-3	
Cadmium	ND	ug/L	3.0	1	11/03/16 14:14	11/04/16 08:41	7440-43-9	
Chromium	54.4	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:41	7440-47-3	
Lead	7.7	ug/L	5.0	1	11/03/16 14:14	11/04/16 10:17	7439-92-1	
Selenium	ND	ug/L	8.0	1	11/03/16 14:14	11/04/16 08:41	7782-49-2	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-7R **Lab ID: 30200654007** Collected: 10/25/16 10:10 Received: 10/27/16 09:55 Matrix: Water

Comments: • Client sample ID on container did not match COC; client was notified.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Silver	ND	ug/L	6.0	1	11/03/16 14:14	11/04/16 08:41	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	11/03/16 12:45	11/04/16 01:13	7439-97-6	
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 18:25	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 18:25	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 18:25	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 18:25	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 18:25	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 18:25	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 18:25	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 18:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 18:25	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 18:25	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 18:25	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 18:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 18:25	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 18:25	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 18:25	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 18:25	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 18:25	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 18:25	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 18:25	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 18:25	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 18:25	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 18:25	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 18:25	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 18:25	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 18:25	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 18:25	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 18:25	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 18:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 18:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 18:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 18:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/31/16 18:25	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 18:25	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 18:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 18:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 18:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/16 18:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 18:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/16 18:25	74-87-3	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-7R **Lab ID: 30200654007** Collected: 10/25/16 10:10 Received: 10/27/16 09:55 Matrix: Water

Comments: • Client sample ID on container did not match COC; client was notified.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 18:25	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/31/16 18:25	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 18:25	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 18:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 18:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 18:25	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 18:25	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 18:25	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 18:25	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 18:25	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 18:25	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 18:25	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/31/16 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 18:25	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 18:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 18:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 18:25	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 18:25	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 18:25	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 18:25	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 18:25	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 18:25	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 18:25	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 18:25	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 18:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 18:25	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 18:25	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 18:25	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	81-119	1		10/31/16 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-126	1		10/31/16 18:25	17060-07-0	
Toluene-d8 (S)	95	%	84-115	1		10/31/16 18:25	2037-26-5	
Dibromofluoromethane (S)	96	%	70-130	1		10/31/16 18:25	1868-53-7	

Sample: MW-8 **Lab ID: 30200654008** Collected: 10/25/16 13:10 Received: 10/27/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:43	7440-38-2	
Barium	82.6	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:43	7440-39-3	
Cadmium	7.9	ug/L	3.0	1	11/03/16 14:14	11/04/16 08:43	7440-43-9	
Chromium	254	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:43	7440-47-3	
Lead	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 10:19	7439-92-1	
Selenium	8.6	ug/L	8.0	1	11/03/16 14:14	11/04/16 08:43	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-8	Lab ID: 30200654008	Collected: 10/25/16 13:10	Received: 10/27/16 09:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Silver	ND	ug/L	6.0	1	11/03/16 14:14	11/04/16 08:43	7440-22-4	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	1	11/03/16 12:45	11/04/16 01:15	7439-97-6	
8260C MSV								
Analytical Method: EPA 8260C								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 18:51	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 18:51	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 18:51	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 18:51	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 18:51	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 18:51	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 18:51	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 18:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 18:51	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 18:51	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 18:51	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 18:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 18:51	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 18:51	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 18:51	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 18:51	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 18:51	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 18:51	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 18:51	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 18:51	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 18:51	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 18:51	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 18:51	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 18:51	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 18:51	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 18:51	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 18:51	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 18:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 18:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 18:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 18:51	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/31/16 18:51	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 18:51	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 18:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 18:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 18:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/16 18:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 18:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/16 18:51	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 18:51	124-48-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-8		Lab ID: 30200654008	Collected: 10/25/16 13:10	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Dibromomethane	ND	ug/L	1.0	1		10/31/16 18:51	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 18:51	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 18:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 18:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 18:51	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 18:51	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 18:51	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 18:51	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 18:51	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 18:51	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 18:51	108-88-3	
Trichloroethene	1.1	ug/L	1.0	1		10/31/16 18:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 18:51	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 18:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 18:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 18:51	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 18:51	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 18:51	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 18:51	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 18:51	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 18:51	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 18:51	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 18:51	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 18:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 18:51	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 18:51	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 18:51	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	81-119	1		10/31/16 18:51	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	77-126	1		10/31/16 18:51	17060-07-0	
Toluene-d8 (S)	100	%	84-115	1		10/31/16 18:51	2037-26-5	
Dibromofluoromethane (S)	97	%	70-130	1		10/31/16 18:51	1868-53-7	

Sample: MW-9		Lab ID: 30200654009	Collected: 10/25/16 12:30	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A						
Arsenic	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:46	7440-38-2	
Barium	60.0	ug/L	10.0	1	11/03/16 14:14	11/04/16 08:46	7440-39-3	
Cadmium	7.5	ug/L	3.0	1	11/03/16 14:14	11/04/16 08:46	7440-43-9	
Chromium	24.4	ug/L	5.0	1	11/03/16 14:14	11/04/16 08:46	7440-47-3	
Lead	ND	ug/L	5.0	1	11/03/16 14:14	11/04/16 10:21	7439-92-1	
Selenium	ND	ug/L	8.0	1	11/03/16 14:14	11/04/16 08:46	7782-49-2	
Silver	ND	ug/L	6.0	1	11/03/16 14:14	11/04/16 08:46	7440-22-4	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-9	Lab ID: 30200654009	Collected: 10/25/16 12:30	Received: 10/27/16 09:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury	ND	ug/L	0.20	1	11/03/16 12:45	11/04/16 00:54	7439-97-6	
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 19:17	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 19:17	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 19:17	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 19:17	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 19:17	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 19:17	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 19:17	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 19:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 19:17	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 19:17	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 19:17	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 19:17	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 19:17	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 19:17	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 19:17	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 19:17	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 19:17	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 19:17	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 19:17	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 19:17	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 19:17	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 19:17	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 19:17	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 19:17	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 19:17	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 19:17	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 19:17	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 19:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 19:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 19:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 19:17	75-27-4	
Bromoform	1.5	ug/L	1.0	1		10/31/16 19:17	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 19:17	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 19:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 19:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 19:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/16 19:17	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 19:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/16 19:17	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 19:17	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/31/16 19:17	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 19:17	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 19:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 19:17	87-68-3	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton
Pace Project No.: 30200654

Sample: MW-9		Lab ID: 30200654009	Collected: 10/25/16 12:30	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 19:17	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 19:17	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 19:17	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 19:17	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 19:17	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 19:17	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 19:17	108-88-3	
Trichloroethene	1.0	ug/L	1.0	1		10/31/16 19:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 19:17	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 19:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 19:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 19:17	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 19:17	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 19:17	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 19:17	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 19:17	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 19:17	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 19:17	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 19:17	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 19:17	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 19:17	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 19:17	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 19:17	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	81-119	1		10/31/16 19:17	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	77-126	1		10/31/16 19:17	17060-07-0	
Toluene-d8 (S)	95	%	84-115	1		10/31/16 19:17	2037-26-5	
Dibromofluoromethane (S)	95	%	70-130	1		10/31/16 19:17	1868-53-7	

Sample: MW-9 Duplicate		Lab ID: 30200654010	Collected: 10/25/16 12:30	Received: 10/27/16 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 19:43	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/16 19:43	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/16 19:43	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/16 19:43	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/16 19:43	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/16 19:43	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/31/16 19:43	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/16 19:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/31/16 19:43	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 19:43	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/31/16 19:43	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/16 19:43	106-93-4	

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-9 Duplicate	Lab ID: 30200654010	Collected: 10/25/16 12:30	Received: 10/27/16 09:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 19:43	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/16 19:43	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 19:43	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/31/16 19:43	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 19:43	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/16 19:43	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/16 19:43	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/31/16 19:43	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/31/16 19:43	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/31/16 19:43	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 19:43	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/31/16 19:43	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/31/16 19:43	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/31/16 19:43	108-10-1	
Acetone	ND	ug/L	10.0	1		10/31/16 19:43	67-64-1	
Benzene	ND	ug/L	1.0	1		10/31/16 19:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/31/16 19:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/31/16 19:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/16 19:43	75-27-4	
Bromoform	1.4	ug/L	1.0	1		10/31/16 19:43	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/31/16 19:43	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/31/16 19:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/16 19:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/16 19:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/16 19:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/16 19:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/16 19:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/16 19:43	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/31/16 19:43	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/16 19:43	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/16 19:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/16 19:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/31/16 19:43	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/16 19:43	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/16 19:43	75-09-2	
Naphthalene	ND	ug/L	2.0	1		10/31/16 19:43	91-20-3	
Styrene	ND	ug/L	1.0	1		10/31/16 19:43	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/16 19:43	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/16 19:43	108-88-3	
Trichloroethene	1.2	ug/L	1.0	1		10/31/16 19:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/16 19:43	75-69-4	
Vinyl acetate	ND	ug/L	10.0	1		10/31/16 19:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/16 19:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/16 19:43	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 19:43	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 19:43	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		10/31/16 19:43	179601-23-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF-Binghamton

Pace Project No.: 30200654

Sample: MW-9 Duplicate		Lab ID: 30200654010		Collected: 10/25/16 12:30	Received: 10/27/16 09:55	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV		Analytical Method: EPA 8260C						
n-Butylbenzene	ND	ug/L	1.0	1		10/31/16 19:43	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		10/31/16 19:43	103-65-1	
o-Xylene	ND	ug/L	1.0	1		10/31/16 19:43	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/31/16 19:43	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		10/31/16 19:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/31/16 19:43	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/16 19:43	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/16 19:43	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	81-119	1		10/31/16 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	77-126	1		10/31/16 19:43	17060-07-0	
Toluene-d8 (S)	93	%	84-115	1		10/31/16 19:43	2037-26-5	
Dibromofluoromethane (S)	96	%	70-130	1		10/31/16 19:43	1868-53-7	

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QUALITY CONTROL DATA

Project: TCMF-Binghamton
Pace Project No.: 30200654

QC Batch: 239062 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 30200654001, 30200654002, 30200654003, 30200654004, 30200654006, 30200654007, 30200654008, 30200654009

METHOD BLANK: 1174787 Matrix: Water
Associated Lab Samples: 30200654001, 30200654002, 30200654003, 30200654004, 30200654006, 30200654007, 30200654008, 30200654009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/04/16 00:50	

LABORATORY CONTROL SAMPLE: 1174788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.98	98	85-115	

MATRIX SPIKE SAMPLE: 1174790

Parameter	Units	30200654009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.5	99	75-125	

SAMPLE DUPLICATE: 1174789

Parameter	Units	30200654009 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: TCMF-Binghamton
Pace Project No.: 30200654

QC Batch: 239079 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET
Associated Lab Samples: 30200654001, 30200654002, 30200654003, 30200654004, 30200654006, 30200654007, 30200654008, 30200654009

METHOD BLANK: 1174877 Matrix: Water
Associated Lab Samples: 30200654001, 30200654002, 30200654003, 30200654004, 30200654006, 30200654007, 30200654008, 30200654009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	11/04/16 08:50	
Barium	ug/L	ND	10.0	11/04/16 08:50	
Cadmium	ug/L	ND	3.0	11/04/16 08:50	
Chromium	ug/L	ND	5.0	11/04/16 08:50	
Lead	ug/L	ND	5.0	11/04/16 09:40	
Selenium	ug/L	ND	8.0	11/04/16 08:50	
Silver	ug/L	ND	6.0	11/04/16 08:50	

LABORATORY CONTROL SAMPLE: 1174878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	483	97	80-120	
Barium	ug/L	500	516	103	80-120	
Cadmium	ug/L	500	506	101	80-120	
Chromium	ug/L	500	503	101	80-120	
Lead	ug/L	500	503	101	80-120	
Selenium	ug/L	500	510	102	80-120	
Silver	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1175023 1175024

Parameter	Units	30200617001		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Arsenic	ug/L	ND	500	500	476	483	95	96	75-125	1			
Barium	ug/L	28.4	500	500	510	536	96	102	75-125	5			
Cadmium	ug/L	ND	500	500	489	500	98	100	75-125	2			
Chromium	ug/L	ND	500	500	482	493	96	98	75-125	2			
Lead	ug/L	ND	500	500	502	511	100	102	75-125	2			
Selenium	ug/L	ND	500	500	494	512	98	102	75-125	4			
Silver	ug/L	ND	250	250	250	250	100	100	75-125	0			

SAMPLE DUPLICATE: 1175022

Parameter	Units	30200617001 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: TCMF-Binghamton
Pace Project No.: 30200654

SAMPLE DUPLICATE: 1175022

Parameter	Units	30200617001 Result	Dup Result	RPD	Qualifiers
Barium	ug/L	28.4	28.9	2	
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	.65J		
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: TCMF-Binghamton

Pace Project No.: 30200654

QC Batch: 238637 Analysis Method: EPA 8260C
 QC Batch Method: EPA 8260C Analysis Description: 8260C MSV
 Associated Lab Samples: 30200654001, 30200654002, 30200654003, 30200654004, 30200654006, 30200654007, 30200654008, 30200654009, 30200654010

METHOD BLANK: 1172803 Matrix: Water
 Associated Lab Samples: 30200654001, 30200654002, 30200654003, 30200654004, 30200654006, 30200654007, 30200654008, 30200654009, 30200654010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/31/16 15:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/31/16 15:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/31/16 15:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/31/16 15:39	
1,1-Dichloroethane	ug/L	ND	1.0	10/31/16 15:39	
1,1-Dichloroethene	ug/L	ND	1.0	10/31/16 15:39	
1,1-Dichloropropene	ug/L	ND	1.0	10/31/16 15:39	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/16 15:39	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/31/16 15:39	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/31/16 15:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/31/16 15:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/31/16 15:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/31/16 15:39	
1,2-Dichloroethane	ug/L	ND	1.0	10/31/16 15:39	
1,2-Dichloropropane	ug/L	ND	1.0	10/31/16 15:39	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/31/16 15:39	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/31/16 15:39	
1,3-Dichloropropane	ug/L	ND	1.0	10/31/16 15:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/31/16 15:39	
2,2-Dichloropropane	ug/L	ND	1.0	10/31/16 15:39	
2-Butanone (MEK)	ug/L	ND	10.0	10/31/16 15:39	
2-Chloroethylvinyl ether	ug/L	ND	2.0	10/31/16 15:39	
2-Chlorotoluene	ug/L	ND	1.0	10/31/16 15:39	
2-Hexanone	ug/L	ND	10.0	10/31/16 15:39	
4-Chlorotoluene	ug/L	ND	1.0	10/31/16 15:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/31/16 15:39	
Acetone	ug/L	ND	10.0	10/31/16 15:39	
Benzene	ug/L	ND	1.0	10/31/16 15:39	
Bromobenzene	ug/L	ND	1.0	10/31/16 15:39	
Bromochloromethane	ug/L	ND	1.0	10/31/16 15:39	
Bromodichloromethane	ug/L	ND	1.0	10/31/16 15:39	
Bromoform	ug/L	ND	1.0	10/31/16 15:39	
Bromomethane	ug/L	ND	1.0	10/31/16 15:39	
Carbon disulfide	ug/L	ND	1.0	10/31/16 15:39	
Carbon tetrachloride	ug/L	ND	1.0	10/31/16 15:39	
Chlorobenzene	ug/L	ND	1.0	10/31/16 15:39	
Chloroethane	ug/L	ND	1.0	10/31/16 15:39	
Chloroform	ug/L	ND	1.0	10/31/16 15:39	
Chloromethane	ug/L	ND	1.0	10/31/16 15:39	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/31/16 15:39	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-Binghamton

Pace Project No.: 30200654

METHOD BLANK: 1172803

Matrix: Water

Associated Lab Samples: 30200654001, 30200654002, 30200654003, 30200654004, 30200654006, 30200654007, 30200654008, 30200654009, 30200654010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/31/16 15:39	
Dibromochloromethane	ug/L	ND	1.0	10/31/16 15:39	
Dibromomethane	ug/L	ND	1.0	10/31/16 15:39	
Dichlorodifluoromethane	ug/L	ND	1.0	10/31/16 15:39	
Ethylbenzene	ug/L	ND	1.0	10/31/16 15:39	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/31/16 15:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/31/16 15:39	
m&p-Xylene	ug/L	ND	2.0	10/31/16 15:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/31/16 15:39	
Methylene Chloride	ug/L	4.3	1.0	10/31/16 15:39	C9
n-Butylbenzene	ug/L	ND	1.0	10/31/16 15:39	
n-Propylbenzene	ug/L	ND	1.0	10/31/16 15:39	
Naphthalene	ug/L	ND	2.0	10/31/16 15:39	
o-Xylene	ug/L	ND	1.0	10/31/16 15:39	
p-Isopropyltoluene	ug/L	ND	1.0	10/31/16 15:39	
sec-Butylbenzene	ug/L	ND	1.0	10/31/16 15:39	
Styrene	ug/L	ND	1.0	10/31/16 15:39	
tert-Butylbenzene	ug/L	ND	1.0	10/31/16 15:39	
Tetrachloroethene	ug/L	ND	1.0	10/31/16 15:39	
Toluene	ug/L	ND	1.0	10/31/16 15:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/31/16 15:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/31/16 15:39	
Trichloroethene	ug/L	ND	1.0	10/31/16 15:39	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/16 15:39	
Vinyl acetate	ug/L	ND	10.0	10/31/16 15:39	
Vinyl chloride	ug/L	ND	1.0	10/31/16 15:39	
Xylene (Total)	ug/L	ND	3.0	10/31/16 15:39	
1,2-Dichloroethane-d4 (S)	%	99	77-126	10/31/16 15:39	
4-Bromofluorobenzene (S)	%	98	81-119	10/31/16 15:39	
Dibromofluoromethane (S)	%	98	70-130	10/31/16 15:39	
Toluene-d8 (S)	%	96	84-115	10/31/16 15:39	

LABORATORY CONTROL SAMPLE: 1172804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.0	95	64-124	
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	95	58-128	
1,1,2-Trichloroethane	ug/L	20	19.9	99	69-120	
1,1-Dichloroethane	ug/L	20	19.3	97	66-129	
1,1-Dichloroethene	ug/L	20	19.5	97	59-133	
1,1-Dichloropropene	ug/L	20	18.5	92	66-124	
1,2,3-Trichlorobenzene	ug/L	20	23.2	116	50-156	

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QUALITY CONTROL DATA

Project: TCMF-Binghamton
Pace Project No.: 30200654

LABORATORY CONTROL SAMPLE: 1172804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	20	22.0	110	32-159	
1,2,4-Trimethylbenzene	ug/L	20	20.2	101	75-128	
1,2-Dibromo-3-chloropropane	ug/L	20	20.6	103	41-136	
1,2-Dibromoethane (EDB)	ug/L	20	19.4	97	66-124	
1,2-Dichlorobenzene	ug/L	20	19.5	98	67-128	
1,2-Dichloroethane	ug/L	20	18.8	94	66-123	
1,2-Dichloropropane	ug/L	20	19.6	98	69-121	
1,3,5-Trimethylbenzene	ug/L	20	19.4	97	74-125	
1,3-Dichlorobenzene	ug/L	20	19.8	99	68-121	
1,3-Dichloropropane	ug/L	20	19.4	97	73-119	
1,4-Dichlorobenzene	ug/L	20	19.1	95	70-117	
2,2-Dichloropropane	ug/L	20	21.7	109	25-144	
2-Butanone (MEK)	ug/L	20	20.1	101	57-126	
2-Chloroethylvinyl ether	ug/L	20	15.8	79	10-160	
2-Chlorotoluene	ug/L	20	18.9	94	69-119	
2-Hexanone	ug/L	20	24.5	123	57-129	
4-Chlorotoluene	ug/L	20	19.3	96	70-118	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.7	99	65-119	
Acetone	ug/L	20	23.3	116	35-113	2c
Benzene	ug/L	20	19.5	97	69-115	
Bromobenzene	ug/L	20	19.2	96	66-122	
Bromochloromethane	ug/L	20	19.2	96	62-125	
Bromodichloromethane	ug/L	20	20.6	103	69-132	
Bromoform	ug/L	20	19.6	98	52-142	
Bromomethane	ug/L	20	18.2	91	14-151	
Carbon disulfide	ug/L	20	28.1	141	53-156	
Carbon tetrachloride	ug/L	20	19.8	99	65-138	
Chlorobenzene	ug/L	20	19.5	97	69-120	
Chloroethane	ug/L	20	20.4	102	62-134	
Chloroform	ug/L	20	19.5	97	67-123	
Chloromethane	ug/L	20	15.9	79	54-143	
cis-1,2-Dichloroethene	ug/L	20	19.3	96	66-122	
cis-1,3-Dichloropropene	ug/L	20	20.7	104	64-125	
Dibromochloromethane	ug/L	20	19.9	100	61-135	
Dibromomethane	ug/L	20	20.0	100	61-131	
Dichlorodifluoromethane	ug/L	20	12.0	60	26-173	
Ethylbenzene	ug/L	20	19.2	96	71-116	
Hexachloro-1,3-butadiene	ug/L	20	20.5	103	44-155	
Isopropylbenzene (Cumene)	ug/L	20	19.3	97	79-121	
m&p-Xylene	ug/L	40	39.3	98	74-118	
Methyl-tert-butyl ether	ug/L	20	23.2	116	83-140	
Methylene Chloride	ug/L	20	24.9	125	56-130	
n-Butylbenzene	ug/L	20	20.2	101	64-128	
n-Propylbenzene	ug/L	20	19.3	96	70-123	
Naphthalene	ug/L	20	23.1	116	64-140	
o-Xylene	ug/L	20	19.1	96	71-119	
p-Isopropyltoluene	ug/L	20	19.8	99	68-129	

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QUALITY CONTROL DATA

Project: TCMF-Binghamton

Pace Project No.: 30200654

LABORATORY CONTROL SAMPLE: 1172804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	20	19.6	98	70-126	
Styrene	ug/L	20	20.1	101	71-129	
tert-Butylbenzene	ug/L	20	19.0	95	72-123	
Tetrachloroethene	ug/L	20	18.9	94	62-122	
Toluene	ug/L	20	18.6	93	70-115	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	63-130	
trans-1,3-Dichloropropene	ug/L	20	19.9	99	62-122	
Trichloroethene	ug/L	20	19.2	96	61-126	
Trichlorofluoromethane	ug/L	20	18.8	94	64-133	
Vinyl acetate	ug/L	20	22.3	112	10-62 1c	
Vinyl chloride	ug/L	20	17.5	88	58-127	
Xylene (Total)	ug/L	60	58.4	97	73-118	
1,2-Dichloroethane-d4 (S)	%			97	77-126	
4-Bromofluorobenzene (S)	%			100	81-119	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			97	84-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1172805 1172806

Parameter	30200654004		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	15.8	15.6	79	78	52-120	1	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.3	18.0	86	90	54-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.6	16.1	78	80	54-124	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.8	16.5	84	83	58-120	1	
1,1-Dichloroethane	ug/L	ND	20	20	16.5	16.9	83	84	55-133	2	
1,1-Dichloroethene	ug/L	ND	20	20	16.5	17.5	82	88	48-141	6	
1,1-Dichloropropene	ug/L	ND	20	20	16.2	17.0	81	85	56-140	5	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.1	17.1	75	85	40-123	12	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	14.9	16.8	75	84	33-130	12	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	16.3	16.7	81	83	69-121	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	15.8	16.2	79	81	23-126	3	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	16.1	16.4	81	82	58-115	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.5	16.3	77	82	57-124	5	
1,2-Dichloroethane	ug/L	ND	20	20	16.0	16.3	80	81	58-123	2	
1,2-Dichloropropane	ug/L	ND	20	20	16.4	16.7	82	84	55-125	2	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	15.0	15.7	75	78	68-118	4	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.1	16.4	76	82	62-113	8	
1,3-Dichloropropane	ug/L	ND	20	20	16.4	16.2	82	81	59-120	1	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.9	16.2	75	81	61-111	8	
2,2-Dichloropropane	ug/L	ND	20	20	15.0	15.7	75	78	32-137	5	
2-Butanone (MEK)	ug/L	ND	20	20	17.6	16.5	88	83	43-128	7	
2-Chloroethylvinyl ether	ug/L	ND	20	20	ND	ND	0	0	10-175		MO
2-Chlorotoluene	ug/L	ND	20	20	15.1	15.5	75	77	58-114	3	
2-Hexanone	ug/L	ND	20	20	22.6	20.4	113	102	43-135	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-Binghamton

Pace Project No.: 30200654

Parameter	30200654004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
4-Chlorotoluene	ug/L	ND	20	20	15.3	15.4	76	77	58-113	1				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.2	16.9	91	84	47-123	8				
Acetone	ug/L	ND	20	20	18.9	19.7	79	83	10-150	4				
Benzene	ug/L	ND	20	20	16.8	17.2	84	86	63-123	2				
Bromobenzene	ug/L	ND	20	20	15.3	15.8	77	79	57-116	3				
Bromochloromethane	ug/L	ND	20	20	16.0	16.9	80	84	42-149	5				
Bromodichloromethane	ug/L	ND	20	20	17.1	17.9	85	89	55-127	5				
Bromoform	ug/L	ND	20	20	14.6	15.7	73	79	44-131	8				
Bromomethane	ug/L	ND	20	20	13.9	15.3	70	77	10-149	9				
Carbon disulfide	ug/L	ND	20	20	23.3	23.4	117	117	47-158	0				
Carbon tetrachloride	ug/L	ND	20	20	16.6	17.1	83	86	44-155	3				
Chlorobenzene	ug/L	ND	20	20	16.2	16.4	81	82	57-121	1				
Chloroethane	ug/L	ND	20	20	15.5	16.1	78	80	57-156	3				
Chloroform	ug/L	ND	20	20	16.2	17.0	81	85	56-132	5				
Chloromethane	ug/L	ND	20	20	13.0	14.8	65	74	42-163	13				
cis-1,2-Dichloroethene	ug/L	ND	20	20	16.1	17.2	81	86	46-139	6				
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.7	17.0	84	85	55-119	2				
Dibromochloromethane	ug/L	ND	20	20	15.7	16.1	78	81	52-129	3				
Dibromomethane	ug/L	ND	20	20	17.2	17.2	86	86	52-120	0				
Dichlorodifluoromethane	ug/L	ND	20	20	9.7	10.0	48	50	10-175	4				
Ethylbenzene	ug/L	ND	20	20	16.2	16.3	81	82	70-120	1				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	12.8	14.2	64	71	29-131	10				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	15.8	16.3	79	82	71-129	3				
m&p-Xylene	ug/L	ND	40	40	32.9	32.9	82	82	70-123	0				
Methyl-tert-butyl ether	ug/L	ND	20	20	20.6	19.1	103	96	63-143	7				
Methylene Chloride	ug/L	ND	20	20	16.8	17.4	84	87	38-134	4				
n-Butylbenzene	ug/L	ND	20	20	15.1	16.1	75	81	52-123	7				
n-Propylbenzene	ug/L	ND	20	20	15.4	16.4	77	82	59-123	6				
Naphthalene	ug/L	ND	20	20	17.1	17.4	85	87	55-122	2				
o-Xylene	ug/L	ND	20	20	15.6	16.2	78	81	68-122	3				
p-Isopropyltoluene	ug/L	ND	20	20	15.5	16.3	78	81	56-125	5				
sec-Butylbenzene	ug/L	ND	20	20	15.2	16.1	76	80	57-124	5				
Styrene	ug/L	ND	20	20	15.9	16.0	80	80	49-135	1				
tert-Butylbenzene	ug/L	ND	20	20	15.4	16.1	77	80	59-121	4				
Tetrachloroethene	ug/L	ND	20	20	15.8	16.1	79	80	53-125	2				
Toluene	ug/L	ND	20	20	16.1	16.4	80	82	66-124	2				
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.4	17.3	82	87	52-136	6				
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.6	16.1	78	81	54-118	3				
Trichloroethene	ug/L	ND	20	20	17.4	17.7	87	89	50-127	2				
Trichlorofluoromethane	ug/L	ND	20	20	15.9	17.3	80	87	63-167	8				
Vinyl acetate	ug/L	ND	20	20	16.5	17.4	82	87	10-49	6	3c,4c			
Vinyl chloride	ug/L	ND	20	20	14.4	14.9	72	75	54-149	4				
Xylene (Total)	ug/L	ND	60	60	48.5	49.1	81	82	68-123	1				
1,2-Dichloroethane-d4 (S)	%						100	98	77-126					
4-Bromofluorobenzene (S)	%						99	101	81-119					
Dibromofluoromethane (S)	%						100	102	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF-Binghamton
Pace Project No.: 30200654

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1172805		1172806							
Parameter	Units	30200654004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Toluene-d8 (S)	%						97	97	84-115		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: TCMF-Binghamton
Pace Project No.: 30200654

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

SAMPLE QUALIFIERS

Sample: 30200654003

[1] 8260 VOA: Post-analysis pH measurement indicates pH > 2.

Sample: 30200654009

[1] 8260 VOA: Post-analysis pH measurement indicates pH > 2.

Sample: 30200654010

[1] 8260 VOA: Post-analysis pH measurement indicates pH > 2.

ANALYTE QUALIFIERS

- 1c Analyte recovery in the laboratory control sample (LCS) was outside QC limits. Data accepted based on LCS recovery within ICV limits
- 2c Analyte recovery in the laboratory control sample (LCS) was outside QC limits. Data accepted based on LCS recovery within ICV limits.
- 3c Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Data accepted based on MS recovery within ICV limits.
- 4c Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Data accepted based on MSD recovery within ICV limits.
- C9 Common Laboratory Contaminant.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- c2 Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TCMF-Binghamton
Pace Project No.: 30200654

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30200654001	MW-3	EPA 3005A	239079	EPA 6010C	239181
30200654002	MW-3HA	EPA 3005A	239079	EPA 6010C	239181
30200654003	MW-5R	EPA 3005A	239079	EPA 6010C	239181
30200654004	MW-4	EPA 3005A	239079	EPA 6010C	239181
30200654006	MW-6	EPA 3005A	239079	EPA 6010C	239181
30200654007	MW-7R	EPA 3005A	239079	EPA 6010C	239181
30200654008	MW-8	EPA 3005A	239079	EPA 6010C	239181
30200654009	MW-9	EPA 3005A	239079	EPA 6010C	239181
30200654001	MW-3	EPA 7470A	239062	EPA 7470A	239132
30200654002	MW-3HA	EPA 7470A	239062	EPA 7470A	239132
30200654003	MW-5R	EPA 7470A	239062	EPA 7470A	239132
30200654004	MW-4	EPA 7470A	239062	EPA 7470A	239132
30200654006	MW-6	EPA 7470A	239062	EPA 7470A	239132
30200654007	MW-7R	EPA 7470A	239062	EPA 7470A	239132
30200654008	MW-8	EPA 7470A	239062	EPA 7470A	239132
30200654009	MW-9	EPA 7470A	239062	EPA 7470A	239132
30200654001	MW-3	EPA 8260C	238637		
30200654002	MW-3HA	EPA 8260C	238637		
30200654003	MW-5R	EPA 8260C	238637		
30200654004	MW-4	EPA 8260C	238637		
30200654006	MW-6	EPA 8260C	238637		
30200654007	MW-7R	EPA 8260C	238637		
30200654008	MW-8	EPA 8260C	238637		
30200654009	MW-9	EPA 8260C	238637		
30200654010	MW-9 Duplicate	EPA 8260C	238637		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Doc
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

WO# : 30200654



Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: <u>Geologic NY Inc.</u>	Report To: <u>Geologic NY Inc.</u>	Attention: <u>SAMUE</u>
Address: <u>Po Box 350</u>	Copy To: <u>Susan Cummings</u>	Company Name:
Home: <u>NY</u>	Purchase Order No.: <u>99011A</u>	Address:
Email To: <u>Geologicny@geologic.net</u>	Project Name: <u>TRMF - Binghamton</u>	Pace Quote Reference:
Phone: <u>607-749-5700</u>	Project Number: <u>99011A</u>	Pace Project Manager:
Requested Due Date/TAT: <u>STANDARD</u>		Pace Profile #:

REGULATORY AGENCY: _____

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location: NY

STATE: NY

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB							
1	MW-3	DW	WT G	G		10-25-16	1435	-	4				001
2	MW-3HA	WT	WT G	G		10-25-16	1350		4				002
3	MW-5R	WT	WT G	G		10-25-16	1140		4				003
4	MW-6	WT	WT G	G		10-25-16	1520		4				004
5	MW-6 MS/MSP	WT	WT G	G		10-25-16	1520		3				005
6	MW-6	WT	WT G	G		10-25-16	1055		4				006
7	MW-7R	WT	WT G	G		10-25-16	1010		4				007
8	MW-8	WT	WT G	G		10-25-16	1310		4				008
9	MW-9	WT	WT G	G		10-25-16	1230		4				009
10	MW-9 Duplicate	WT	WT G	G		10-25-16	1230		3				010
11													
12													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>Susan Cummings</u>	<u>10-26-16</u>	<u>1532</u>	<u>JAN MARY PACE</u>	<u>10/26/16</u>	<u>15:32</u>	
	<u>JAN MARY PACE</u>	<u>10/26/16</u>	<u>17:00</u>	<u>JAN MARY PACE</u>	<u>10-27-16</u>	<u>0955</u>	<u>4.3</u>

SAMPLER NAME AND SIGNATURE: _____

PRINT Name of SAMPLER: Susan Cummings

SIGNATURE of SAMPLER: Susan Cummings

DATE Signed (MM/DD/YY): 10-25-16

Temp in °C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

Sample Condition Upon Receipt Pittsburgh

30200654



Client Name: Geologic NY Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 7775 6724 1753

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used 6 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 4.5 °C Correction Factor: -0.2 °C Final Temp: 4.3 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AQR 10-27-16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:		X		5. See comments
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: <input checked="" type="radio"/> VOA coliform, TOC, O&G, Phenolics				Initial when completed: <u>AQR</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):		X		14.
Trip Blank Present:		X		15.
Trip Blank Custody Seals Present			X	
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: AQR 10-27-16 Contacted By: _____

Comments/ Resolution: _____

Sample 004 ID on VOA is ~~MAA~~ MW-6 → Date/time match to 004
005 ID on VOA is MW-6 MS/MSD → Date/time match to 005
007 ID on all bottles is MW-7R

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Data Usability Summary Reports (DUSRs)



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

VOLATILE ANALYSES
Order No. 30163605

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA
MW-2	30163605001	Aqueous	10-29-2015	X
MW-3	30163605002	Aqueous	10-29-2015	X
MW-4	30163605003	Aqueous	10-29-2015	X
MW-6	30163605004	Aqueous	10-29-2015	X
MW-07R	30163605005	Aqueous	10-29-2015	X
MW-07R Duplicate	30163605006	Aqueous	10-29-2015	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8260B.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR VOLATILE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for eight water sample locations obtained on October 29, 2015 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on October 30, 2015.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8260B	
	Water
Holding Time	14 days from sample collection
Preservation	pH less than 2; cooled at 4° C ± 2°

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 2.5°C. The water samples were preserved with HCL and analyzed within the EPA Method 8260C holding time for the preserved water samples. All samples had a pH 2 or less.

A preserved sample for the analysis of 2-Chloroethylvinyl ether was identified as “may not be appropriate for analysis”. The results for 2-Chloroethylvinyl ether are rejected.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Field Duplicate Analysis

A field duplicate is collected for analysis to assess the precision and accuracy of the field sampling procedures as well as the analytical method. A control limit of 50% for water samples is applied to the Relative Percent Difference (RPD) between the parent sample and the duplicate sample.

The RPDs between the parent sample and the duplicate sample were acceptable.

Laboratory Control Samples

All criteria for the Laboratory Control Samples (LCS) were met with the exception of Acetone, biased high for all samples. Acetone was present below the reporting limit; no action taken.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The RPD between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The RPD was outside the QC limits for Acetone. Acetone was present below the reporting limit; no action taken.

Surrogates / System Monitoring Compounds

Samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

The review of the Quantitation Reports indicates that all surrogate recovery ranges were met with the exception of sample MW-6. The percent recovery for surrogate Toluene-d8 (83%) was below the acceptable range of 84%-115%. No analytes were detected above the MDLs; no action was taken



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

METAL ANALYSES
Order No. 30163605

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				Metals
MW-2	30163605001	Aqueous	10-29-2015	X
MW-3	30163605002	Aqueous	10-29-2015	X
MW-4	30163605003	Aqueous	10-29-2015	X
MW-6	30163605004	Aqueous	10-29-2015	X
MW-07R	30163605005	Aqueous	10-29-2015	X
MW-04 Duplicate	30163605007	Aqueous	10-29-2015	X

INTRODUCTION

Analyses were performed according to USEPA SW-846, EPA 6010B and EPA 7470A

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR METAL ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for eight water sample locations obtained on October 29, 2015 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on October 30, 2015.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method EPA 6010B and 7470A	
	Water
Holding Time	6 months (EPA 6010B) and 28 days (EPA 7470A) from sample collection
Preservation	Cooled at $\leq 6^{\circ}$ C for 7470A

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 1.4°C.

The water samples were preserved with HNO₃ and analyzed within the EPA Method 6010B and 7470A holding times for the preserved water samples. All samples had a pH 2 or less.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Field Duplicate Analysis

A field duplicate is collected for analysis to assess the precision and accuracy of the field sampling procedures as well as the analytical method. A control limit of 50% for water samples is applied to the Relative Percent Difference (RPD) between the parent sample and the duplicate sample.

The RPDs between the parent sample and the duplicate sample were acceptable.

Laboratory Control Samples

All Laboratory Control Samples (LCS) criteria were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The RPD between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The RPD was outside the QC limits for Barium. Concentrations of barium are considered estimates and qualified with 'J'.



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

VOLATILE ANALYSES
Order No. 30176181

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA
Outfall 002B 8'-12'	30176181001	Solid/Soil	3-10-2016	X
Outfall 002A 8'-16'	30176181002	Solid/Soil	3-10-2016	X
Outfall 002A 18'-22'	30176181003	Solid/Soil	3-10-2016	X
Outfall 003 8'-16' West	30176181004	Solid/Soil	3-10-2016	X
Outfall 003 8'-16' East	30176181005	Solid/Soil	3-10-2016	X
Outfall 003 18'-22'	30176181006	Solid/Soil	3-10-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8260C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR VOLATILE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for six soil sample locations obtained on March 10, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on March 11, 2016.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8260C	
	Soil
Holding Time	14 days from sample collection
Preservation	None; cooled at 4° C ± 2°

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 4.6°C. The water samples were unpreserved and analyzed within the EPA Method 8260C holding time.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Laboratory Control Samples

All criteria for the Laboratory Control Samples (LCS) were met with the exception of Acetone and Bromomethane. The % Recovery for Acetone was 119%, the QC range is 32-113%. For those samples where Acetone was present below the reporting limit; no action taken. For those samples where Acetone was present above the MDL, the concentrations are considered estimates and qualified with a 'J'

The % Recovery for Bromomethane was 172%, the QC range is 27-164%. Bromomethane was present below the reporting limit in all samples; no action taken.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

A matrix spike/matrix spike duplicate was not performed on this sample set due to insufficient sample size.

Surrogates / System Monitoring Compounds

Samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

Surrogate recovery criteria were met.



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

METAL ANALYSES
Order No. 30176181

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				Metals
Outfall 002B 8'-12'	30176181001	Solid/Soil	3-10-2016	X
Outfall 002A 8'-16'	30176181002	Solid/Soil	3-10-2016	X
Outfall 002A 18'-22'	30176181003	Solid/Soil	3-10-2016	X
Outfall 003 8'-16' West	30176181004	Solid/Soil	3-10-2016	X
Outfall 003 8'-16' East	30176181005	Solid/Soil	3-10-2016	X
Outfall 003 18'-22'	30176181006	Solid/Soil	3-10-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846, EPA 6010B and EPA 7470A

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

N The analysis indicates the presence of an analyte for which there is a presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR METAL ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for six soil sample locations obtained on March 10, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on March 11, 2016.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method EPA 6010B and 7470A	
	Soil
Holding Time	6 months (EPA 6010B) and 28 days (EPA 7470A) from sample collection
Preservation	Cooled at $\leq 6^{\circ}$ C for 7470A

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 4.6°C. The soil samples were unpreserved. The samples were analyzed within the EPA Method 6010B and 7470A specified holding times for soil samples.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Laboratory Control Samples

All Laboratory Control Samples (LCS) criteria were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The percent recoveries for the MS/MSD samples were outside the QC limits, bias high, for Barium (176%/138%), Cadmium (350%/274%) and Chromium (172%/142%). The QC ranges for all three analytes are 77-125%. The concentrations for Barium, Cadmium and Chromium are considered estimates, and are qualified with a 'J'.

The RPD for Selenium (26%) and Silver (25%) was outside the control limits range of 20%. Selenium was not detected above the MDL; no action taken. Concentrations of Silver above the MDL are considered estimates, and qualified with a 'J'.



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

METAL ANALYSES
Order No. 30178100

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				Metals
MW-5R 2'-6'	30178100001	Solid/Soil	3-28-2016	X
MW-5R 6'-10'	30178100002	Solid/Soil	3-28-2016	X
MW-5R 10'-14'	30178100003	Solid/Soil	3-28-2016	X
MW-5R 14'-18'	30178100004	Solid/Soil	3-28-2016	X
MW-5R 20'-27'	30178100005	Solid/Soil	3-28-2016	X
MW-8 10'-14'	30178100006	Solid/Soil	3-28-2016	X
MW-8 14'-18'	30178100007	Solid/Soil	3-28-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Methods 6010C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR METAL ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for two soil sample locations obtained on March 28, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on September 24, 2016.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method EPA 6010C for Cadmium and Chromium	
Soil	
Holding Time	6 months (EPA 6010B) from sample collection
Preservation	Cooled at $\leq 6^{\circ}$ C for 7470A

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 6.3°C. The soil samples were unpreserved.

The samples were analyzed within the EPA Method 6010C within the specified holding time for soil samples.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Laboratory Control Samples

All criteria for the Laboratory Control Samples (LCS) were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The MS/MSD was performed on sample 30178100001. The percent recovery for chromium for the MS sample exceeded the RPD. Chromium concentrations are considered estimates and are qualified with a 'J'.



GeoLogic NY, Inc.

P.O. Box 350 • 37 Copeland Ave. • Homer, NY 13077 • 607.749.5000 • Fax: 607.749.5063

DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

VOLATILE ANALYSES

Order No. 3017940

(1604E49)

Analyses performed by:

Pace Analytical Services, Inc.
Greensburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA
MW-3	1604E49-001A	Aqueous	4-11-2016	X
MW-3HA	1604E49-002A	Aqueous	4-11-2016	X
MW-4	1604E49-003A	Aqueous	4-11-2016	X
MW-5R	1604E49-004A	Aqueous	4-11-2016	X
MW-6	1604E49-005A	Aqueous	4-11-2016	X
MW-6 MS	1604E49-005AMS	Aqueous	4-11-2016	X
MW-6 MSD	1604E49-005AMSMD	Aqueous	4-11-2016	X
MW-7R	1604E49-006A	Aqueous	4-11-2016	X
MW-7R Duplicate	1604E49-007A	Aqueous	4-11-2016	X
MW-8	1604E49-008A	Aqueous	4-11-2016	X
MW-9	1604E49-009A	Aqueous	4-11-2016	X
Storage Blank	1604E49-010A	Aqueous	4-11-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8260C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR VOLATILE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for eight water sample locations obtained on April 11, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on April 14, 2016.

The Sample Data Package is complete as defined under the NYSDEC ASP as Level 2 Deliverables; there is a narrative and end results.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8260C	
	Water
Holding Time	14 days from sample collection
Preservation	pH less than 2; cooled at 4° C ± 2°

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 1.4°C. The water samples were preserved with HCL and analyzed within the EPA Method 8260C holding time for the preserved water samples. All samples had a pH 2 or less.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Field Duplicate Analysis

A field duplicate is collected for analysis to assess the precision and accuracy of the field sampling procedures as well as the analytical method. A control limit of 50% for water samples is applied to the Relative Percent Difference (RPD) between the parent sample and the duplicate sample.

The RPDs between the parent sample and the duplicate sample were acceptable.

Laboratory Control Standards

Laboratory Control Samples (LCS) are prepared by adding analytes to reagent water. The analyte concentrations are then determined within interferences caused by the sample matrix effects. The LCS reported acceptable QC limits.

Calibrations

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions. All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05). Each target analyte produced the required levels of instrument response and acceptable degree of linearity. The laboratory noted that in the initial calibrations, average response factors were employed as applicable, and regression functions were used for compounds with an RSD above 20%. With the exception of 2-Hexanone, those analytes with RSDs above 20% are not listed analytes on the TCL, therefore no action

was taken. It may be assumed that 2-Hexanone would be detected, if present, in the samples. Because 2-Hexanone was not detected in the samples, data qualifications are not required.

The continuing calibration verifies that the instrument's daily performance is satisfactory for all compounds except for bromomethane (%D 75.2), trichlorofluoromethane (%D 36.8), acetone (%D 23.2), dibromochloromethane (%D 26.5), bromoform (%D -23.2), and 1,2,4-trichlorobenzene (%D -22.1). The associated samples have been qualified with a "J" for these compounds.

Additional analytes noted in the laboratory results section of the data package have been qualified by the laboratory as 'c', calibration acceptability criteria were exceeded and are considered estimated concentrations. Also the laboratory notes that 2-chloroethylvinyl ether results are rejected for preserved samples.

Internal Standards

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard. The retention times and QC limits were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The following compounds were outside the established QC criteria recoveries: Dichlorofluoromethane, Bromoform, Trichloroethene, 1,2,3-Trichlorobenzene, and 1,2-Dichloroethane. Dichlorofluoromethane, Bromoform, 1,2,3-Trichlorobenzene, and 1,2-Dichloroethane were not detected in the samples above the method detection limits; no action taken. The samples with Trichloroethene detected above the method detection limits have been qualified with 'J'.

Surrogates / System Monitoring Compounds

Soil samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

The review of the Quantitation Reports indicates that all surrogate recovery ranges were met.

System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method. The Data Package is complete as defined under the NYSDEC ASP Category B Deliverables. There is a narrative and end result. The package includes laboratory quality control/quality assurance calibration curves, chromatograms, and sample preparation forms.



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

METAL ANALYSES
Order No. 3017940

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				Metals
MW-3	3017949001	Aqueous	4-11-2016	X
MW-3HA	3017949002	Aqueous	4-11-2016	X
MW-4	3017949003	Aqueous	4-11-2016	X
MW-5R	3017949004	Aqueous	4-11-2016	X
MW-6	3017949005	Aqueous	4-11-2016	X
MW-7R	3017949007	Aqueous	4-11-2016	X
MW-8	3017949009	Aqueous	4-11-2016	X
MW-8 Duplicate	3017949010	Aqueous	4-11-2016	X
MW-9	3017949011	Aqueous	4-11-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846, EPA 6010B and EPA 7470A

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

N The analysis indicates the presence of an analyte for which there is a presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR METAL ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for eight water sample locations obtained on April 11, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on April 14, 2016.

The Sample Data Package is complete as defined under the NYSDEC ASP as Level 2 Deliverables; there is a narrative and end results.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method EPA 6010B and 7470A	
	Water
Holding Time	6 months (EPA 6010B) and 28 days (EPA 7470A) from sample collection
Preservation	Cooled at $\leq 6^{\circ}$ C for 7470A

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 1.4°C. The water samples were preserved with HNO₃ and analyzed using EPA Method 6010B and 7470A holding times for the preserved water samples. All samples had a pH 2 or less.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Field Duplicate Analysis

A field duplicate is collected for analysis to assess the precision and accuracy of the field sampling procedures as well as the analytical method. For all analytes detected at concentrations greater than or equal to five times the sample quantitation limits in both the parent sample and the field duplicate sample, a control limit of 30% for water samples is applied to the Relative Percent Difference (RPD) between the parent sample and the duplicate sample.

The RPDs between the parent sample and the duplicate sample were acceptable.

Laboratory Control Standards

Laboratory Control Samples (LCS) are prepared by adding analytes to reagent water. The analyte concentrations are then determined within interferences caused by the sample matrix effects. The LCS reported acceptable QC limits.

Calibrations

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration is done using certified materials to define the linear range of each analytical instrument and calibration curves are constructed. The calibration curves are tested by analyzing initial calibration verification standards (ICV) Continuing verifications (CVV) demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The method specifies percent relative standard deviation (%RSD).

The analyte recoveries reported during these checks included unacceptable recoveries for arsenic for samples for MW-7R, MW-8, MW-8 Duplicate and MW-9. Arsenic was not detected in the MW-8, MW-8

Duplicate and MW-9, therefore data qualifications are not required. Arsenic was detected in the MW-7R sample. The data has been qualified as an estimate, 'J'.

System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method. The Data Package is complete as defined under the NYSDEC ASP Category B Deliverables. There is a narrative and end result. The package includes laboratory quality control/quality assurance calibration curves, chromatograms, and sample preparation forms.



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

VOLATILE ANALYSES
Order No. 30197051

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA
East Lawn-Beckwith Ave	30197051001	Solid/Soil	3-10-2016	X
West Lawn-Beckwith Ave	30197051002	Solid/Soil	3-10-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8260C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR VOLATILE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for two soil sample locations obtained on September 22, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on September 24, 2016.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8260C	
	Soil
Holding Time	14 days from sample collection
Preservation	None; cooled at 4° C ± 2°

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 4.5°C. The water samples were unpreserved and analyzed within the EPA Method 8260C holding time.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Laboratory Control Samples

All criteria for the Laboratory Control Samples (LCS) were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

A matrix spike/matrix spike duplicate was not performed on this sample set due to insufficient sample size.

Surrogates / System Monitoring Compounds

Samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

Surrogate recovery criteria were met.



GeoLogic NY, Inc.

P.O. Box 350 • 37 Copeland Ave. • Homer, NY 13077 • 607.749.5000 • Fax: 607.749.5063

DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

SEMI-VOLATILE ANALYSES
Order No. 30197051

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				Metals
East Lawn-Beckwith Ave	30197051001	Solid/Soil	3-10-2016	X
West Lawn-Beckwith Ave	30197051002	Solid/Soil	3-10-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8270D.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR SEMI-VOLATILE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for two soil sample locations obtained on September 22, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on September 24, 2016.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method EPA 8270D	
Soil	
Holding Time	14 days
Preservation	None

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 4.5°C. The soil samples were unpreserved.

The samples were analyzed within the EPA Method 8270D specified holding times for soil samples.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Laboratory Control Samples

All criteria for the Laboratory Control Samples (LCS) were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The percent recoveries for the MS/MSD samples were outside the QC limits for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Dibenz(a,h)anthracene, Hexachlorocyclopentadiene, and Indeno(1,2,3-cd)pyrene. The percent recovery for the MS sample was outside the QC limits for Pentachlorophenol. All were biased low. None of these compounds were detected above the MDL for either sample; no action taken.

The MS/MSD percent recovery criteria were met for all other analytes.



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

METAL ANALYSES
Order No. 30197052

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				Metals
B-002B 8'-20'	30197052001	Solid/Soil	9-21-2016	X
B-002B 12'-20'	30197052002	Solid/Soil	9-21-2016	X
B-002A-1 8'-16'	30197052003	Solid/Soil	9-21-2016	X
B-002A-1 20'-24'	30197052004	Solid/Soil	9-21-2016	X
B-002A-2 16'-24'	30197052005	Solid/Soil	9-21-2016	X
B-003-1 8'-16'	30197052006	Solid/Soil	9-21-2016	X
B-003-1 16'-20'	30197052007	Solid/Soil	9-21-2016	X
B-003-2 16'-20'	30197052008	Solid/Soil	9-21-2016	X
B-003-2 20'-24'	30197052009	Solid/Soil	9-21-2016	X
B-003-3 8'-16'	30197052010	Solid/Soil	9-21-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Methods 6010C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR METAL ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for ten soil sample locations obtained on September 21, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on September 24, 2016.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method EPA 6010C for Cadmium and Chromium	
Soil	
Holding Time	6 months (EPA 6010B) from sample collection
Preservation	Cooled at $\leq 6^{\circ}$ C for 7470A

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 4.5°C. The soil samples were unpreserved.

The samples were analyzed within the EPA Method 6010C within the specified holding time for soil samples.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Laboratory Control Samples

All criteria for the Laboratory Control Samples (LCS) were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The MS/MSD criteria were met for all other metals.



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

PESTICIDES ANALYSES
Order No. 30197051

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA
East Lawn-Beckwith Ave	30197051001	Solid/Soil	3-10-2016	X
West Lawn-Beckwith Ave	30197051002	Solid/Soil	3-10-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8081B.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR PESTICIDE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for two soil sample locations obtained on September 22, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on September 24, 2016.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8081B	
	Soil
Holding Time	14 days from sample collection
Preservation	Cooled at $\leq 6^{\circ}$ C

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 4.5°C. The water samples were unpreserved and analyzed within the EPA Method 8081B holding time.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Laboratory Control Samples

All criteria for the Laboratory Control Samples (LCS) were met.

Calibrations

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. Three compounds failed the 30% low level calibration standard check indicating the results may be biased high. 4,4'-DDD, alpha-BHC and delta-BHC were not detected in the collected samples above the MDL; no action taken.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are analyzed to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The MS/MSD percent recovery criteria were met for all analytes.

Surrogates / System Monitoring Compounds

Samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. PCB analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

Surrogate recovery criteria were met.



DATA USABILITY SUMMARY REPORT
TRIPLE CITIES METAL FINISHING
4 NOWLAN ROAD
BROOME COUNTY, BINGHAMTON, NEW YORK

PCB ANALYSES
Order No. 30197051

Analyses performed by:

Pace Analytical Services, Inc.
Pittsburgh, PA

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Triple Cities Metal Finishing site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA
East Lawn-Beckwith Ave	30197051001	Solid/Soil	3-10-2016	X
West Lawn-Beckwith Ave	30197051002	Solid/Soil	3-10-2016	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8082A.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR PCB ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for two soil sample locations obtained on September 22, 2016 for the Triple Cities Metal Finishing (GeoLogic Project No. 99011A). The samples were received by the laboratory on September 24, 2016.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8082A	
	Soil
Holding Time	1 year from sample collection
Preservation	Cooled at $\leq 6^{\circ}$ C

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 4.5°C. The water samples were unpreserved and analyzed within the EPA Method 8082A holding time.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Laboratory Control Samples

All criteria for the Laboratory Control Samples (LCS) were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are analyzed to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

The MS/MSD percent recovery criteria were met for all analytes.

Surrogates / System Monitoring Compounds

Samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. PCB analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

Surrogate recovery criteria were met.

APPENDIX G
ENVIRONMENTAL EASEMENT

**ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW**

THIS INDENTURE made this 24th day of October, 2016, between Owner(s) Binghamton Realty, Inc., having an office at 349 Industrial Park Drive, Binghamton, New York 13904, County of Broome, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 4 Nowlan Road and 7 Beckwith Avenue in the Town of Fenton, County of Broome and State of New York, known and designated on the tax map of the County Clerk of Broome as tax map parcel numbers: Section 129.05 Block 4 Lots 2 and 5, being the same as that property conveyed to Grantor by deed dated December 12, 1997 and recorded in the Broome County Clerk's Office in Liber and Page 01889/1013. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.953 +/- acres, and is hereinafter more fully described in the Land Title Survey dated April 22, 2016 prepared by Rodney Lee Carey, L.L.S. of Keystone Associates, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: B7-0675-04-09, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the Controlled Property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Broome County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the Controlled Property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the Controlled Property must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the Controlled Property to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:
(i) are in-place;
(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to the controlled property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: C704045
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Controlled Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Binghamton Realty, Inc.:

By: [Signature]

Print Name: Charles J Morgan

Title: President Date: 10-10-16

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Broome)

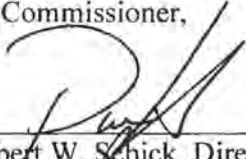
On the 10th day of October, in the year 20 16, before me, the undersigned, personally appeared Charles J Morgan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

[Signature]
Notary Public - State of New York

PENNY L. GREENE
Notary Public, State of New York
Registration No. 01GR6037425
Qualified in Broome County
Commission Expires 2-22-2018

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

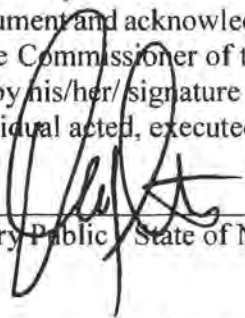
By:


Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 24th day of October, in the year 2016, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.


Notary Public, State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

**ENVIRONMENTAL EASEMENT DESCRIPTION
DEPARTMENT SITE NO. C704045
BINGHAMTON REALTY INC.
4 NOWLAN ROAD
7 BECKWITH AVENUE
TOWN OF FENTON
BROOME COUNTY, NEW YORK STATE**

ALL THOSE TRACTS OR PARCELS OF LAND situate in the Town of Fenton, County of Broome, State of New York, being all of the property now or formerly of Binghamton Realty Inc. as recorded in the Broome County Clerk's Office in L. 1889 P. 1013 on January 06, 1998 (TM# 129.05-4-2 and TM# 129.05-4-5), together hereinafter referred to as Binghamton Realty, Inc., bounded and described as follows:

BEGINNING at a 5/8" rebar on the northerly boundary of Beckwith Avenue at its intersection with the division line between the property now or formerly of Chen1080, LLC per L. 2389 P. 404 (TM# 129.05-4-6) on the northwest and said Binghamton Realty, Inc. on the southeast;

RUNNING THENCE along the division lines between said Chen1080, LLC and said Binghamton Realty, Inc. the following three (3) courses and distances:

- 1) N19°58'04"E, a distance of 135.34 feet to a 5/8 inch rebar;
- 2) N58°47'58"W, a distance of 77.84 feet to a point;
- 3) N27°18'15"E and along the division line between the property now or formerly of Marcres, LLC per L. 2242 P. 449 (TM# 129.05-4-1) on the northwest and said Binghamton Realty, Inc. on the southeast, a distance of 161.26 feet to a 5/8 inch rebar at its intersection with the southerly boundary of Nowlan Road; thence N85°09'09"E along said southerly boundary, a distance of 158.81 feet to a 5/8 inch rebar capped "HAWK" at its intersection with the division line between the property now or formerly of B.W. Elliott Manufacturing Co., Inc. per L. 1867 P. 211 (TM# 129.05-4-3) on the east and said Binghamton Realty, Inc. on the west; thence S20°04'09"W along the last mentioned division line, a distance of 337.31 feet to a point at its intersection with said northerly boundary of Beckwith Avenue; thence S85°35'02"W along said Beckwith Avenue, a distance of 96.39 feet to the POINT OF BEGINNING.

The above described parcel contains 41,515 square feet or 0.953 acre, more or less.

Broome County
Richard R. Blythe, County Clerk
Printed: 11/03/2016 02:38:15 PM

Instr #: 201600027715
Book/Page: D2507 / 522

Rec Date: 11/03/2016 01:34:52 PM
Doc Grp/Desc: D / EASEMENT

OR Party: BINGHAMTON REALTY INC

EE Party: PEOPLE OF THE STAET OF NEW YORK/COMMISSIONER OF THE
DEPARTMENT OF ENVIRONMENTAL

Property Info: TOWN OF FENTON
129.05-4-5 7 BECKWITH AVENUE
129.05-4-2 4 NOWLAN ROAD

Consideration: \$0.00

Sign Date: 10/10/2016

Return Name/Address: BOND SCHOENECK & KING PLLC
ONE LINCOLN CENTER
SYRACUSE NY 13202

Notes:

Remarks:

Receipt Date: 11/03/2016 01:34:52 PM
RECEIPT # 20160818394

Richard R. Blythe, County Clerk
60 Hawley Street P.O. Box 2062
Binghamton, NY 13902

Recording Clerk: GG
Cash Drawer: CASH2
Rec'd Frm: STEWART TITLE INSURANCE COMPAN

Instr#: 201600027715 Bk/Pg: D2507/522
DOC: EASEMENT
DEED STAMP: TT001493
OR Party: BINGHAMTON REALTY INC
EE Party: PEOPLE OF THE STAET OF NEW YORK/
COMMISSIONER OF THE DEPARTMENT OF ENVIRONM
ENTAL

Recording Fees	
Cover Page	\$5.00
Recording Fee	\$65.00
Cultural Ed	\$14.25
Records Management - County	\$1.00
Records Management - State	\$4.75
TP584	\$10.00

Transfer Tax	
Transfer Tax - State	\$0.00
Transfer Tax - County	\$0.00

DOCUMENT TOTAL: ---->	\$90.00
MISC TOTAL: ---->	\$10.00

Receipt Summary	
TOTAL RECEIPT: ---->	\$100.00
TOTAL RECEIVED: ---->	\$100.00
CASH BACK: ---->	\$0.00

PAYMENTS	
Check # 214567 ->	\$95.00
BOND SCHOENECK & KING PLLC	
Check # 1100001446 ->	\$5.00
STEWART TITLE INSURANCE COMPAN	

APPENDIX H
DIGITAL COPY OF FER (CD)