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June 16, 2017

George Momberger, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway,
Albany, NY 12233-7013
(electronic copy via email)

**Re: Final Engineering Report
SWMU-8 and AOC-2 Remedial Action
GE Global Research Center
River Road, Niskayuna, New York
NYSDEC Site Number: 447013A
USEPA ID Number: NYD071094197**

Dear Mr. Momberger:

Enclosed please find the Final Engineering Report prepared by CB&I E&I Engineering of New York P.C., on behalf of the General Electric Company. This report describes the remedial action taken to address soil impacts at SWMU-8 and AOC-2 at the referenced site. Please review this report and if you do not have any questions or comments, provide your approval. If you have any questions or comments regarding this report please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Lewis S. Streeter'.

Lewis S. Streeter
Senior Project Manager

Enc: Final Engineering Report, June 2017

cc: Paul Guilmette, GE GRC, (electronic copy via email)
Steven R. Meier CB&I, (electronic copy via email)
Cecelia Byers, CB&I, (electronic copy via email)

FINAL ENGINEERING REPORT SWMU-8 AND AOC-2

***General Electric Company
Global Research Center
River Road
Niskayuna, New York
NYSDEC Site Number: 447013A
USEPA ID Number: NYD071094197***

Submitted to:

General Electric Company
Global Research Center
River Road
Niskayuna, New York

Submitted by:



CB&I E&I Engineering of New York P.C.
13 British American Boulevard
Latham, New York

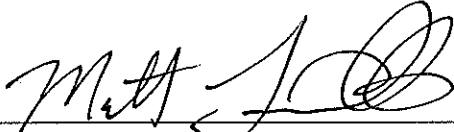
Project No. 155114
June 16, 2017

Certification

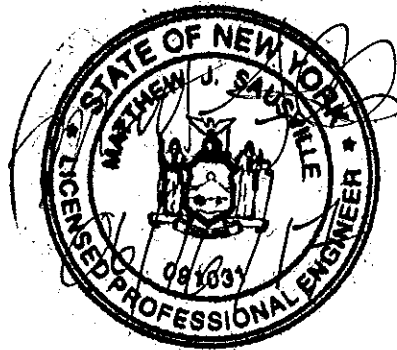
I certify that I am a New York State-registered Professional Engineer and that this project prepared for General Electric Company at the General Electric Global Research Center, in Schenectady County, Niskayuna, New York, is in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Matthew J. Sausville

Printed Name of Professional Engineer



Signature of Professional Engineer



Registration Number: 091031

State: New York

Date: 06/16/17

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List of Acronyms & Abbreviations

AOC-2	Area of Concern 2
ARB	Applied Research Building
CB&I	CB&I E&I Engineering of New York P.C.
GE	General Electric Company
gpm	gallons per minute
mg/kg	milligrams per kilogram
Naeva	Naeva Geophysics, Inc.
NYSDEC	New York State Department of Environmental Conservation
PCBs	polychlorinated biphenyls
PDI/RD Report	<i>Pre-Design Investigation and Remedial Design Report</i>
RFI	<i>RCRA Facility Investigation</i>
Statement of Basis	Final Statement of Basis Corrective Measures Selection
SWMU	Solid Waste Management Unit
TestAmerica	TestAmerica Laboratories, Inc. in Amherst, New York
TSCA	Toxic Substances Control Act
USEPA	U.S. Environmental Protection Agency

1.0 Introduction

CB&I E&I Engineering of New York P.C. (CB&I) has prepared this report to summarize remedial actions completed at one Solid Waste Management Unit (SWMU) and one Area of Concern (AOC) at General Electric Company's (GE) Global Research Center located on River Road, Niskayuna, New York (the site). CB&I personnel completed the remedial action field activities discussed herein during January and February 2017. This work was completed at the request of the New York State Department of Environmental Conservation (NYSDEC) in response to the *Final Statement of Basis Corrective Measures Selection, General Electric Global Research Center, Niskayuna, New York, USEPA ID No. NYD071094197, New York State Department of Environmental Conservation, March 2015* (Statement of Basis) and to satisfy specific requirements in the site's 2012–2022 *Hazardous Waste Management Permit, NYSDEC No. 4-4224-00001/00100, General Electric Global Research Center at Niskayuna, USEPA ID No. NYD071094197, Town of Niskayuna, Schenectady County* (Permit). The focus of the remedial actions specified herein is the remediation of soils within the site's Former Drum Storage Area, formerly located adjacent to the Applied Research Building (ARB) and the Parking Lot of the Engineering Physics Building, referred to within the Statement of Basis as SWMU-8 and AOC-2, respectively. Figure 1 shows the location of SWMU-8 and AOC-2 within the Global Research Center campus.

1.1 Site Background

The site is located on the southern bank of the Mohawk River, north of the intersection of Van Antwerp Road and River Road in the Town of Niskayuna, New York. It is bounded on the north by the Mohawk River and GE Energy, on the east by the Mohawk River, and to the west and south by Knolls Atomic Power Laboratory and residential and undeveloped properties. The Global Research Center was created in 1965 by the merger of the GE Research Laboratory (founded in 1900 as the first United States industrial laboratory devoted to basic research) and the GE Advanced Technology Laboratories (established in 1895 to perform advanced engineering and development) as GE Corporate Research and Development. Activities on the site began in the 1950s. During the 1980s, GE purchased adjacent properties, increasing the size of the site by 50 percent to 525 acres. Buildings at the Global Research Center encompass a total of 1.25 million square feet of floor space. The name of the site was changed from GE Corporate Research and Development to the Global Research Center in 2002. Facilities at the site include offices, laboratories, and support facilities. The Global Research Center is comprised of 13 laboratories conducting research in various fields such as ceramics, metallurgy, electronics, environmental, and organic and inorganic chemistry.

1.2 Remedial Action Objectives

In 2002, GE completed a *RCRA Facility Investigation Report (Revision 1)*, US Filter, March 2002 (RFI) to characterize soil and subsurface conditions within and adjacent to SWMU-8 and AOC-2. Polychlorinated biphenyls (PCBs) were identified within each SWMU above 1 milligram per kilogram (mg/kg). However, due to the close proximity of these regulated units to structures and appurtenances which at that time were actively being used by GE in daily site operations, the implementation of remedial actions to remove soil and concrete containing PCBs above 1 mg/kg at these units was postponed until such time as the structures receive either major modifications and/or demolition.

In December 2016, GE demolished the ARB adjacent to SWMU-8 and renovated the Parking Lot of the Engineering Physics Building adjacent to AOC-2 allowing unfettered access to each area for remedial actions. Following this work, GE notified the NYSDEC that it intended to proceed with remedial action at each area. Following several planning meetings and discussions with the NYSDEC, GE prepared a *Pre-Design Investigation and Remedial Design Report, CB&I, December 2016* (PDI/RD Report) to describe the findings of the pre-design investigation and specify the proposed remedial actions. The PDI/RD Report was approved by the NYSDEC via electronic mail (email) on December 6, 2016. The selected remedial actions included the excavation and off-site disposal of PCB-impacted soils above 1 mg/kg. Additional details regarding each area and their conditions are presented below.

SWMU-8 – Former Drum Storage Area – Applied Research Building

The Former Drum Storage Area was formerly located adjacent to the ARB and was comprised of a concrete pad covered by a shed roof and surrounded on three sides by two walls of the former ARB and a 3-foot-high retaining wall. Access to the Former Drum Storage Area was restricted with a lockable fence. This area was used for the temporary storage of drummed laboratory chemical wastes between 1955 and 1981. The RFI and the PDI/RD indicated soils beneath the concrete pad and the concrete pad itself contained PCBs (Aroclor 1242) at concentrations above 1 mg/kg and verified that soils outside of the Former Drum Storage Area did not contain PCBs above 1 mg/kg.

AOC-2 – Parking Lot of Engineering Physics Building

AOC-2 is part of a parking lot for the Engineering Physics Building that was the former location of an electrical transformer that contained dielectric fluid with PCBs. Soil samples collected in 1990, 1997 (RCRA Facility Assessment), 2002 (RFI), and 2016 (PDI/RD) indicated shallow soils (0 to 2-foot soil interval) in this area contained PCBs (Aroclors 1248 and 1260) at concentrations exceeding 1 mg/kg.

2.0 Remedial Action Work Scope

As specified in the PDI/RD, the following scope of work was implemented to remediate and close SWMU-8 and AOC-2 between January 17 and February 7, 2017. All field activities were completed in compliance with GE's and CB&I's health and safety policies and procedures. A photographic log of the field activities is included as Appendix A. Specific details of the implementation of this work scope are provided in Section 3.0.

2.1 Geophysical Survey – Utility Location

SWMU-8 and AOC-2 were surveyed and mapped to support the remedial design portion of this project to identify any utilities and subsurface anomalies. Copies of the maps produced by Naeva Geophysics, Inc. (Naeva) have been included as Appendix B.

2.2 SWMU-8 – Applied Research Building

The SWMU-8 excavation consisted of a 12.5-foot by 46-foot area (approximately 575 square feet) covered by approximately 12-inches of gravel and a concrete slab foundation approximately 6 inches thick. The slab was underlain by PCB-impacted soils to a depth of approximately 4 feet where bedrock was encountered. The excavation area was bounded by a concrete retaining wall (west) or by building footers (north and east) which remained from the former building that was located in this area. The depth of the retaining wall and footers extended to bedrock (approximately 4 feet below ground surface). Two active storm drains are present at the south end of the excavation.

The total soil/gravel removal volume was estimated at 75 cubic yards. The proposed excavation included the removal of all impacted soil within the retaining wall and footer as defined in Figure 2. All residual soils were to be broom cleaned from the bedrock floor of the excavation and concrete walls. Based on the PDI/RD, all of the material removed from SWMU-8 was to be managed as Toxic Substances Control Act (TSCA) hazardous material.

Following the completion of the initial excavation, five concrete core samples were to be collected from the retaining wall and building footers, analyzed for PCBs via U.S. Environmental Protection Agency (USEPA) Method 8082A under an accelerated 24-hour turnaround time, and results were compared to the targeted PCB removal concentration of 1 mg/kg. The retaining wall and building footers were also to be removed if the analytical results showed PCBs above 1 mg/kg.

The RFI and PDI/RD results were to be used as confirmation samples to demonstrate that PCBs in soils outside the retaining wall and building footers were below 1 mg/kg to the west, north, and east of SWMU-8. Additionally, a single end point soil sample was to be collected at the southern

boundary of the excavation in close proximity to the storm drains. The sample was to serve as a confirmation that a clean boundary had been achieved to the south.

2.3 AOC-2 – Engineering Physics Building Parking Lot

The AOC-2 excavation consisted of a footprint of approximately 18 feet by 21.5 feet (approximately 390 square feet) as shown in Figure 3. The area was covered by approximately 6 inches of asphalt underlain by PCB-impacted soils to a depth of approximately 2 feet. The excavation area was bounded by active utilities and infrastructure on its western, southern, and eastern sides. The northern boundary of the excavation was bounded by a container storage box.

The total soil/asphalt removal volume was estimated at 28 cubic yards. Soil samples collected during the RCRA Facility Assessment within the proposed limits of AOC-2 (A02-S14 and A02-S15) initially showed PCB concentrations of less than 50 mg/kg in this area. However, during the waste profiling process, insufficient historical information was available on the source concentration of PCBs; therefore, it was determined that the soils were to be managed as TSCA-regulated soils.

Six end point confirmation samples were to be collected from excavation boundaries as shown on Figure 3, including five sidewall samples and one from the base of the excavation. All soil samples were to be analyzed for PCBs via USEPA Method 8082A under an accelerated 24-hour turnaround time.

The area was proposed to be restored with asphalt, but because this work was scheduled during the winter months, asphalt would not be available. This area would be repaved in the Spring of 2017 once the asphalt plants had re-opened.

3.0 Remedial Action Implementation and Analytical Results

Between January 17, 2017 and February 7, 2017, CB&I personnel completed the remedial action field activities. These activities included the following:

- Excavation of impacted soils within SWMU-8
- Sampling of concrete retaining wall and building footer
- Removal of concrete retaining wall and building footer
- Backfill and restoration of SWMU-8
- Utility markouts and geophysical survey of AOC-2
- Excavation of impacted soils within AOC-2
- Confirmation sampling of soils along base and sidewalls of AOC-2
- Hand excavation of AOC-2 boundaries due to proximity of the excavation to below grade electrical and water lines
- Backfill and temporary restoration, followed by final restoration, of AOC-2

These activities are detailed below.

3.1 SWMU-8 – Former Drum Storage Area

On January 17, 2017, US Ecology (a subcontractor to CB&I) began excavation activities within SWMU-8 with the removal of the gravel covering the former drum storage area's concrete slab. The uppermost 8 inches of gravel was staged for re-use during site restoration activities. The lower 4 inches of gravel was staged for disposal, as it was in contact with the impacted concrete slab. During the initial excavation activities, two active storm drains located near the southern limits of excavation were protected from collapse or destabilization by leaving an undisturbed soil buffer zone to protect this area.

On January 18, 2017 the concrete slab above the excavation was broken into 1-foot by 1-foot pieces using a jackhammer. The concrete pieces and the soils adjacent to the retaining wall and former building footers were excavated and placed temporarily in the center of the excavation to allow for the collection of concrete cores from the retaining wall and building footers. The concrete core samples were subsequently collected for PCB analysis via USEPA Method 8082A and the samples were delivered to TestAmerica Laboratories, Inc. (TestAmerica) Albany Service Center for delivery to the laboratory Amherst, New York. Additionally, one confirmation soil sample was collected for PCB analysis via USEPA Method 8082A from the southern side wall of

the excavation proximate to the storm drains. The locations of the concrete cores and the confirmation sample are shown on Figure 4.

On January 19, 2017, excavation and removal of the pieces of concrete slab and the underlying soils was initiated. During the excavation, an inactive 12-inch-diameter storm sewer pipe was encountered within the excavation (Figure 4). The pipe was not damaged and was exposed using hand tools. GE determined that the sewer pipe was an historic structure that was no longer in service. The portion of the pipe that was within the excavation was removed and disposed with the soils, and the end of the pipe at the southern sidewall of the excavation was properly capped with a plug cemented in place.

On January 20, 2017, the excavation of soils within SWMU-8 was completed and access to the excavation was temporarily restricted pending the analytical results for the concrete cores.

The analytical results from the concrete cores showed PCB concentrations ranging from 0.830 mg/kg (SWMU-8 C-4) to 120 mg/kg (SWMU-8 C-2) as shown on Table 1. The analytical reports are included as Appendix C.

On January 24 and 25, 2017, all sections of the concrete retaining wall and the building footers that showed PCBs above 1 mg/kg were excavated and disposed of to delist and close SWMU-8.

The soils behind the retaining wall were graded, sloped, and covered with riprap material to prevent erosion as shown on Figure 4. The entire SWMU-8 area was backfilled with imported clean soil, compacted with a remote-controlled trench roller, and covered with compacted gravel, as specified by GE Facilities. Copies of analytical results certifying the use of clean fill are included in Appendix D.

3.1.1 Transportation and Disposal: SWMU-8

Between January 19 and 20, 2017 six truckloads of soil and concrete were removed from SWMU-8. Approximately 155 tons of soil and crushed concrete slab were shipped as TSCA hazardous waste to the Wayne Disposal, Inc. Site #2 Landfill (MID 048090633) in Belleville, Michigan (Wayne Disposal Facility).

On January 24 and 25, 2017, approximately 49 tons of concrete generated during the removal of the retaining wall and building footer was transported in two truckloads as TSCA hazardous waste to the Wayne Disposal Facility. Table 2 summarizes the waste shipments from the site. Copies of the manifests, certificates of disposal, and receipts are included as Appendix E.

3.2 AOC-2 – Engineering Physics Building Parking Lot

On January 20, 2017 excavation activities within AOC-2 were initiated. A concrete footer-like structure was encountered along the northern edge of the excavation as shown in Figure 5. One

truck load of soil was removed from the excavation and transported to the Wayne Disposal Facility for disposal prior to the excavation being secured for the weekend.

On January 23, 2017, excavation activities resumed and an additional two truckloads of soil were excavated from AOC-2 and transported the Wayne Disposal Facility for disposal. Six confirmation soil samples were collected at locations shown on Figure 5 and analyzed for PCB using USEPA Method 8082A. These samples were delivered to the TestAmerica.

The confirmation samples indicated PCBs were present above 1 mg/kg in each of the excavation side wall samples. Soil sample AOC-2 F-6 collected from the base of the excavation showed PCBs were below 1 mg/kg. The results of these samples are summarized on Table 3. Because the sidewall samples showed PCBs were above 1 mg/kg, it was necessary to enlarge the AOC-2 excavation. Due to the close proximity of the utilities, it was concluded that the excavation would be enlarged using hand tools. As a precaution, CB&I temporarily postponed the excavation until the utilities could be further evaluated.

On January 30, 2017 CB&I retained Naeva to further refine and mark-out the location of the utility lines and GE personnel accessed the manholes to verify depths and direction of the electrical lines present along the western side of the excavation. Following the confirmation of the utility locations, the excavation was extended by 1.5 feet to the east and west, as shown in Figure 5.

Roll-off containers were used instead of trucks to stage the hand excavated soils prior to off-site transportation. Hand excavation was performed in modified Level D personal protective equipment with rubber boot covers, steel toe boots, Tyvek suits, nitrile gloves, hard hats, and proper eye protection due to the potential for increased worker exposure. US Ecology personnel utilized shovels, pry bars, and hand trowels to hand excavate. Once the material was hand excavated, it was transferred into the bucket of a small skid steer, which loaded the soil into the roll-off for off-site disposal. Personal protective equipment was disposed of with the impacted soils.

Confirmation samples AOC-2-E and AOC-2-W were collected from the east and west sidewalls of the excavation, respectively, and delivered to the TestAmerica. The AOC-2-E and AOC-2-W samples showed PCBs were below 1 mg/kg as summarized on Table 3, and the excavation was deemed complete to the east and west.

On January 31, 2017 the excavation was enlarged by 1-foot to the north and south and confirmation samples AOC-2-N and AOC-2-S were collected from the excavation's north and south side walls respectively. Confirmation samples were delivered to the TestAmerica. The analyses showed both the AOC-2-N and AOC-2-S samples contained PCBs above 1 mg/kg.

On February 1 and 2, 2017, the AOC-2 excavation was further extended to the north and south by approximately 1 to 2 feet. Confirmation samples A-2-N and A-2-S were collected on February 2, 2017 and delivered to TestAmerica. Confirmation samples A-2-N and A-2-S showed PCBs were below 1 mg/kg, therefore completing the excavation.

The excavation was backfilled with imported clean soil on February 2 and 3, 2017. The area was temporarily resurfaced with compacted stone for the winter and repaved with asphalt on June 8 and 9, 2017.

3.2.1 *Transportation and Disposal: AOC-2*

On January 20 and 23, 2017, three truckloads of PCB impacted soil weighing approximately 67 tons were removed from AOC-2 and shipped as TSCA hazardous waste to the Wayne Disposal Facility.

On February 2 and 7, 2017, two roll-off containers of PCB impacted soil weighing approximately 23 tons were also shipped to the Wayne Disposal Facility as TSCA hazardous waste following the hand excavation activities. Table 2 summarizes the waste shipments. Copies of the manifests, certificates of disposal, and receipts are included as Appendix E.

4.0 Summary and Conclusion

The purpose of this remedial action was to remove PCB impacted materials from SWMU-8 and AOC-2 to satisfy the requirements of the Statement of Basis.

Approximately 204 tons of PCB-impacted soil, gravel and concrete were excavated from SWMU-8 and shipped as TSCA hazardous waste to the Wayne Disposal Facility. Figure 6 shows the area of SWMU-8 following the excavation and restoration activities. Confirmation soil samples obtained during this effort are summarized on Table 4; all post-excavation soil sample results showed PCBs were below 1 mg/kg.

Approximately 90 tons of PCB-impacted soil and asphalt were excavated from AOC-2 and shipped as TSCA hazardous waste to the Wayne Disposal Facility. Figure 7 shows the area of AOC-2 following the excavation and temporary restoration activities. Confirmation samples obtained during this effort are summarized on Table 5; all post-excavation soil sample results showed PCBs were below 1 mg/kg.

Existing soil quality data indicate that the site activities completed under this remedial action have successfully met the closure standards detailed in the Statement of Basis. GE respectfully requests that NYSDEC grant closure for these units with no institutional controls or other post-closure obligations.

5.0 References

Arnow, T., 1949, The Groundwater Resources of Albany County, New York: Department of Conservation, Water Power and Control Commission, U.S. Department of the Interior, Bulletin GW-20, 56 p.

Cadwell, D. and R. Dineen, 1987, Surficial geologic map of New York, Hudson-Mohawk Sheet: New York State Museum, Geological Survey, Map and Chart Series No. 40, scale 1:250,000, 1 sheet.

Halberg, H.N., O.P. Hunt, and F.H. Pauszek, 1964, Water Resources of the Albany-Schenectady-Troy Area, New York: U.S. Geological Survey Water Supply Paper 1499-D.

New York State Department of Environmental Conservation, March 23, 1994, revised 4/95, RCRA Facility Assessment Preliminary Review, GE Corporate Research and Development Facility, Niskayuna, New York.

New York State Soil and Water Conservation Committee, August 2005, New York State Standards and Specifications for Erosion and Sediment Control.

USFilter Engineering and Construction, March 2002, RCRA Facility Investigation Report, GE Global Research Center, Niskayuna, Schenectady County, New York.

Table 1
Concrete Core and Soil Analytical Results
PCBs via 8082A
GE - Global Research Center
SWMU-8

Site ID Field Sample ID Sample Date Sample Depth(ft bgs)			SWMU-8 C-1 SWMU-8 C-1 1/18/2017 2' - 3'	SWMU-8 C-2 SWMU-8 C-2 1/18/2017 2' - 3'	SWMU-8 C-3 SWMU-8 C-3 1/18/2017 2' - 3'	SWMU-8 C-4 SWMU-8 C-4 1/18/2017 2' - 3'	SWMU-8 C-5 SWMU-8 C-5 1/18/2017 2' - 3'	SWMU-8 S-6 SWMU-8 S-6 1/18/2017 2' - 3'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary	Dilution Factor 100x	Primary	Primary	Primary	Primary
<i>PCBs using USEPA Method 8082A</i>								
Total PCBs	1	25	2.0	120	4.40	0.830	1.10	0.33
Aroclor 1016	NGV	NGV	0.24 U	23 U	0.25 U	0.019 U	0.22 U	0.26 U
Aroclor 1221	NGV	NGV	0.24 U	23 U	0.25 U	0.019 U	0.22 U	0.26 U
Aroclor 1232	NGV	NGV	0.24 U	23 U	0.25 U	0.019 U	0.22 U	0.26 U
Aroclor 1242	NGV	NGV	2.00	23 U	0.25 U	0.830	1.10	0.26 U
Aroclor 1248	NGV	NGV	0.24 U	120	4.40	0.019 U	0.22 U	0.33
Aroclor 1254	NGV	NGV	0.24 U	23 U	0.25 U	0.019 U	0.22 U	0.26 U
Aroclor 1260	NGV	NGV	0.24 U	23 U	0.25 U	0.019 U	0.22 U	0.26 U
Aroclor 1262	NGV	NGV	0.24 U	23 U	0.25 U	0.019 U	0.22 U	0.26 U
Aroclor 1268	NGV	NGV	0.24 U	23 U	0.25 U	0.019 U	0.22 U	0.26 U

Notes:

All results are in milligrams per kilogram (mg/kg) or parts per million (ppm).

ft bgs - Feet below ground surface.

New York State Department of Environmental Conservation (NYSDEC) Soil Clean-Up Objectives (SCO) obtained from 6 NYCRR

Part 375 6.8b (effective December 14, 2006).

NGV - No given value listed in 6 NYCRR Part 375.

Bold - Indicates analyte detected by laboratory.

Red Shaded - Indicates that reported concentration exceeds both Residential & Industrial SCO.

Gray Shaded - Indicates that reported concentration exceeds Residential SCO.

U - Not detected at laboratory method detection limit.

Table 2
Excavated Soil Removed from the Site
GE - Global Research Center

Date	Manifest Tracking Number	Truck Type	Actual Tonage*	Excavation Area	Material Removed
1/19/2017	16083753	18-Wheeler	24.47	SWMU-8	Soil
1/19/2017	16083756	18-Wheeler	33.53	SWMU-8	Soil
1/19/2017	16083757	18-Wheeler	24.29	SWMU-8	Soil
1/19/2017	16083758	18-Wheeler	25.59	SWMU-8	Soil
1/19/2017	16083759	18-Wheeler	25.09	SWMU-8	Soil
1/20/2017	16083761	18-Wheeler	21.7	SWMU-8	Soil
1/20/2017	16083762	18-Wheeler	27.2	AOC-2	Soil
1/23/2017	16083775	18-Wheeler	16.16	AOC-2	Soil
1/23/2017	16083774	18-Wheeler	23.54	AOC-2	Soil
1/24/2017	16083778	18-Wheeler	21.84	SWMU-8	Concrete
1/25/2017	16083777	18-Wheeler	27.13	SWMU-8	Concrete
2/2/2017	16083763	Roll Off Container	16.15	AOC-2	Soil
2/7/2017	16083786	Roll Off Container	6.56	AOC-2	Soil

* From weight tickets provided by US Ecology.

Table 3
Soil Analytical Results
PCBs via 8082A
GE - Global Research Center
AOC-2

Site ID Field Sample ID Sample Date Sample Depth(ft bgs)			AOC-2-W-1 AOC-2-W-1(1'-2') 1/23/2017 1' - 2'	AOC-2-W-2 AOC-2-W-2(1'-2') 1/23/2017 1' - 2'	AOC-2-W-3 AOC-2-W-3(2'-2.5') 1/23/2017 2' - 2.5'	AOC-2-W-4 AOC-2-W-4(1'-2') 1/23/2017 1' - 2'	AOC-2-W-5 AOC-2-W-5(1'-2') 1/23/2017 1' - 2'	AOC-2-F-6 AOC-2-F-6(2.5') 1/23/2017 2.5'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Dilution 2X	Dilution 100X	Primary	Primary	Dilution 100X	Primary
<i>PCBs using USEPA Method 8082A</i>								
Total PCBs	1	25	6.15	670	3.4	3.02	150	0.16 J
Aroclor 1016	NGV	NGV	0.51 ^{F1}	27 U	0.22 U	0.20 U	22 U	0.26 U
Aroclor 1221	NGV	NGV	0.51 U	27 U	0.22 U	0.20 U	22 U	0.26 U
Aroclor 1232	NGV	NGV	0.51 U	27 U	0.22 U	0.20 U	22 U	0.26 U
Aroclor 1242	NGV	NGV	0.51 U	27 U	0.22 U	0.20 U	22 U	0.26 U
Aroclor 1248	NGV	NGV	4.9	460	1.1	1.9	150	0.16 J
Aroclor 1254	NGV	NGV	0.86	210	0.22 U	0.98	22 U	0.26 U
Aroclor 1260	NGV	NGV	0.39 J	27 U	2.3	0.14 J	22 U	0.26 U

Notes:

All results are in milligrams per kilogram (mg/kg) or parts per million (ppm).

ft bgs - Feet below ground surface.

New York State Department of Environmental Conservation (NYSDEC) Soil Clean-Up Objectives (SCO) obtained from 6 NYCRR

Part 375 6.8b (effective December 14, 2006).

NGV - No given value listed in 6 NYCRR Part 375.

Bold - Indicates analyte detected by laboratory.

Red Shaded - Indicates that reported concentration exceeds both Residential & Industrial SCO.

Gray Shaded - Indicates that reported concentration exceeds Residential SCO.

U - Not detected at laboratory method detection limit.

J - Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

^{F1} - MS and MSD recovery is outside acceptance limits

Table 3
Soil Analytical Results
PCBs via 8082A
GE - Global Research Center
AOC-2

Site ID Field Sample ID Sample Date Sample Depth(ft bgs)			AOC-2-W AOC-2-W(1'-2')	AOC-2-E AOC-2-E(1'-2')	AOC-2-S AOC-2-S(1'-2')	AOC-2-N AOC-2-N(1' -2')	A-2-N A-2-N(1'-2')	A-2-S A-2-S(1'-2')
			1/30/2017 1' - 2'	1/30/2017 1' - 2'	1/31/2017 1' - 2'	1/31/2017 1' - 2'	2/2/2017 1' - 2'	2/2/2017 1' - 2'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary	Primary	Dilution 5X	Dilution 100X	Primary	Primary
<i>PCBs using USEPA Method 8082A</i>								
Total PCBs	1	25	0.72	0.58	11	150	0.24 U	0.052 J
Aroclor 1016	NGV	NGV	0.26 U	0.21 U	1.30 U	24 U	0.24 U	0.21 U
Aroclor 1221	NGV	NGV	0.26 U	0.21 U	1.30 U	24 U	0.24 U	0.21 U
Aroclor 1232	NGV	NGV	0.26 U	0.21 U	1.30 U	24 U	0.24 U	0.21 U
Aroclor 1242	NGV	NGV	0.26 U	0.21 U	1.30 U	24 U	0.24 U	0.21 U
Aroclor 1248	NGV	NGV	0.35	0.58	10	150 U	0.24 U	0.052 J
Aroclor 1254	NGV	NGV	0.23 J	0.21 U	1.30 U	24 U	0.24 U	0.21 U
Aroclor 1260	NGV	NGV	0.14 J	0.21 U	1.0 J	24 U	0.24 U	0.21 U

Notes:

All results are in milligrams per kilogram (mg/kg) or parts per million (ppm).

ft bgs - Feet below ground surface.

New York State Department of Environmental Conservation (NYSDEC) Soil Clean-Up Objectives (SCO) obtained from 6 NYCRR

Part 375 6.8b (effective December 14, 2006).

NGV - No given value listed in 6 NYCRR Part 375.

Bold - Indicates analyte detected by laboratory.

Red Shaded - Indicates that reported concentration exceeds both Residential & Industrial SCO.

Gray Shaded - Indicates that reported concentration exceeds Residential SCO.

U - Not detected at laboratory method detection limit.

J - Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

^{†1} - MS and MSD recovery is outside acceptance limits

Table 4
Confirmation and End Point Soil Analytical Results
PCBs via 8082A
GE - Global Research Center
SWMU-8

Site ID Field Sample ID Sample Date Sample Depth(ft bgs)			SWMU-8 S-6 SWMU-8 S-6 1/18/2017 2' - 3'	SB-1 SB-1 (0-4) 7/15/2016 0' - 4'	SB-2 SB-2 (0-3.5) 7/15/2016 0' - 3.5'	SB-3R SB-3R (0-3) 7/19/2016 0' - 3'	SB-4R SB-4R (0-3) 7/19/2016 0' - 3'	SB-5 SB-5 (0-3) 7/14/2016 0' - 3'	SB-5 DUP-1 7/14/2016 0' - 3'	SB-6 SB-6 (0-2) 7/14/2016 0' - 2'	S-1 S08-S1-3.0 6/7/2000 3'	S-5 S08-S5-6.0 4/17/2001 6'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
PCBs using USEPA Method 8082A												
Total PCBs	1	25	0.33	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.25	0.059 U	0.020 U
Aroclor 1016	NGV	NGV	0.26 U	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.040 U	0.059 U	0.020 U
Aroclor 1221	NGV	NGV	0.26 U	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.040 U	0.059 U	0.020 U
Aroclor 1232	NGV	NGV	0.26 U	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.040 U	0.059 U	0.020 U
Aroclor 1242	NGV	NGV	0.26 U	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.25	0.059 U	0.020 U
Aroclor 1248	NGV	NGV	0.33	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.040 U	0.059 U	0.020 U
Aroclor 1254	NGV	NGV	0.26 U	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.040 U	0.059 U	0.020 U
Aroclor 1260	NGV	NGV	0.26 U	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.040 U	0.059 U	0.020 U
Aroclor 1262	NGV	NGV	0.26 U	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.040 U	0.059 U	0.020 U
Aroclor 1268	NGV	NGV	0.26 U	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U	0.037 U	0.040 U	0.059 U	0.020 U

Notes:

All results are in milligrams per kilogram (mg/kg) or parts per million (ppm).

ft bgs - Feet below ground surface.

New York State Department of Environmental Conservation (NYSDEC) Soil Clean-Up Objectives (SCO) obtained from 6 NYCRR

Part 375 6.8b (effective December 14, 2006).

NGV - No given value listed in 6 NYCRR Part 375.

Bold - Indicates analyte detected by laboratory.

U - Not detected at laboratory method detection limit.

NJ - Analyte has been 'tentatively identified' and numeric value is approximate.

Table 4
Confirmation and End Point Soil Analytical Results
PCBs via 8082A
GE - Global Research Center
SWMU-8

Site ID Field Sample ID Sample Date Sample Depth(ft bgs)			S-6 S8-S6-5.7 4/17/2001 5.7'	S-7 S8-S7-5.8 4/17/2001 5.8'	S-8 S8-S8-5.7 4/17/2001 5.7'	S-9 S8-S9-5.5 4/17/2001 5.5'	S-10 S8-S10-3.0 5/24/2001 3'	S-11 S8-S11-3.0 5/24/2001 3'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary	Primary	Primary	Primary	Primary	Primary
<i>PCBs using USEPA Method 8082A</i>								
Total PCBs	1	25	0.021 U	0.021 U	0.019 U	0.021 U	0.343	0.0306 NJ
Aroclor 1016	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U
Aroclor 1221	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U
Aroclor 1232	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U
Aroclor 1242	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U
Aroclor 1248	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.343	0.0306 NJ
Aroclor 1254	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U
Aroclor 1260	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U
Aroclor 1262	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U
Aroclor 1268	NGV	NGV	0.021 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U

Notes:

All results are in milligrams per kilogram (mg/kg) or parts per million (ppm).

ft bgs - Feet below ground surface.

New York State Department of Environmental Conservation (NYSDEC) Soil Clean-Up Objectives (SCO) obtained from 6 NYCRR

Part 375 6.8b (effective December 14, 2006).

NGV - No given value listed in 6 NYCRR Part 375.

Bold - Indicates analyte detected by laboratory.

U - Not detected at laboratory method detection limit.

NJ - Analyte has been 'tentatively identified' and numeric value is approximate.

Table 5
End-Point Soil Analytical Results
PCBs via 8082A
GE - Global Research Center
AOC-2

Site ID Field Sample ID Sample Date Sample Depth(ft bgs)			AOC-2-F-6 AOC-2-F-6(2.5')	AOC-2-W AOC-2-W(1'-2')	AOC-2-E AOC-2-E(1'-2')	A-2-N A-2-N(1'-2')	A-2-S A-2-S(1'-2')
			1/23/2017	1/30/2017	1/30/2017	2/2/2017	2/2/2017
			2.5'	1' - 2'	1' - 2'	1' - 2'	1' - 2'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary	Primary	Primary	Primary	Primary
<i>PCBs using USEPA Method 8082A</i>							
Total PCBs	1	25	0.16 J	0.72	0.58	0.24 U	0.052 J
Aroclor 1016	NGV	NGV	0.26 U	0.26 U	0.21 U	0.24 U	0.21 U
Aroclor 1221	NGV	NGV	0.26 U	0.26 U	0.21 U	0.24 U	0.21 U
Aroclor 1232	NGV	NGV	0.26 U	0.26 U	0.21 U	0.24 U	0.21 U
Aroclor 1242	NGV	NGV	0.26 U	0.26 U	0.21 U	0.24 U	0.21 U
Aroclor 1248	NGV	NGV	0.16 J	0.35	0.58	0.24 U	0.052 J
Aroclor 1254	NGV	NGV	0.26 U	0.23 J	0.21 U	0.24 U	0.21 U
Aroclor 1260	NGV	NGV	0.26 U	0.14 J	0.21 U	0.24 U	0.21 U

Notes:

All results are in milligrams per kilogram (mg/kg) or parts per million (ppm).

ft bgs - Feet below ground surface.

New York State Department of Environmental Conservation (NYSDEC) Soil Clean-Up Objectives (SCO) obtained from

6 NYCRR Part 375 6.8b (effective December 14, 2006).

NGV - No given value listed in 6 NYCRR Part 375.

Bold - Indicates analyte detected by laboratory.

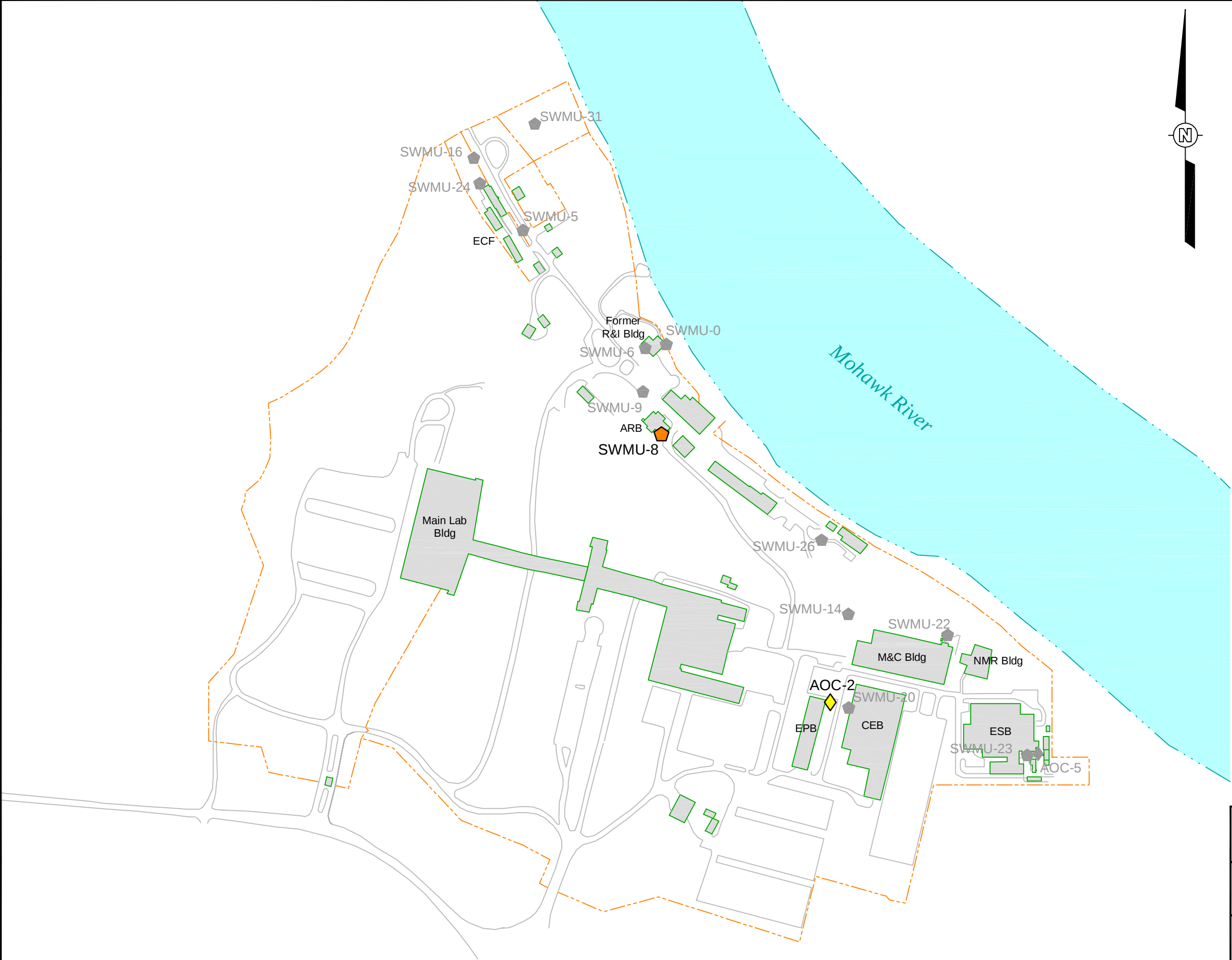
U - Not detected at laboratory method detection limit.

J - Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

Figures

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Plotted By: Evan Schlegel

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	12/8/15	--	--	--	--	155114-B5



- LEGEND:**
- AOC-2 AREA OF CONCERN
 - SWMU-8 SWMU
 - ROAD EDGE
 - FENCE LINE
 - BUILDING FOOTPRINT



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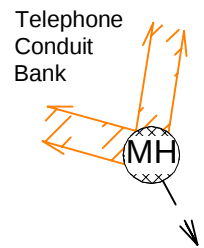
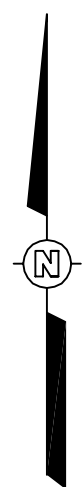


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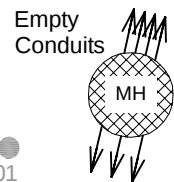
FIGURE 1

SITE PLAN

GE GLOBAL RESEARCH CENTER
NISKAYUNA NEW YORK



Paved
Parking



AO2-S01
(8') <0.0588

AO2-S16
0.492

COMPLETE CONFIRMATORY
BOTTOM SAMPLING AT A
FREQUENCY OF 1 SAMPLE
EVERY 625 S.F.

Generator

RESTORE AREA WITH
UNDERLAYMENT FABRIC, 6 INCHES
OF ITEM 4 CRUSHED STONE, 3
INCHES OF BINDER, AND 2 INCHES
OF TOP COAT ASPHALT. BACKFILL,
STONE, AND ASPHALT MUST BE
THOROUGHLY TAMPED AND ROLLED.

AO2-S02
(2') 0.342

AO2-S03
(8') <0.0528

SB-6
(0-4') <0.036
(4'-8') <0.035
(8'-9.5') <0.035

SB-5
(0-4') 0.0163
(4'-7.5') <0.033

AO2-S06
(6') <0.0504

HAND EXCAVATE MATERIAL
AROUND ALL MARKED OUT
UTILITIES AND AS DIRECTED

Conex
Boxes

18'

SB-1
(0-4') 2.6
(4'-8') 0.47

SB-2
(0-4') <0.036
(4'-8') <0.034
(8'-9') <0.035

SB-8
(0-4') 0.12
(4'-8') <0.036

SB-7
(0-4') 7.2
(4'-8') <0.034

AO2-S15
30.80

WC-2

WC-1

AO2-S14
41.50

AO2-S04
(4') <0.0539

AO2-S05
(4') <0.0534

B-8
<0.001

B-9
<0.001

SB-3
(0-4') <0.034
(4'-6') <0.036

SB-4
(0-4') 0.71
(4'-7') <0.036

EXCAVATE, REMOVE, AND DISPOSE
OF APPROXIMATELY 28 C.Y. OF
NON-TSCA PCB IMPACTED
MATERIAL (DEPTH ~2FT. BGS).
DISPOSE OF EXISTING ASPHALT
WITH SOILS. BACKFILL WITH
CLEAN, IMPORTED MATERIALS AS
DEFINED BY DER-10.

COLLECT CONFIRMATORY
SIDEWALL SAMPLES AT
LOCATIONS SHOWN

Sewer
Cleanouts

SAW CUT
PERIMETER
ASPHALT

APROXIMATE UTILITY DEPTHS:

ELECTRIC	4 - 5 FT.
WATER	5 FT.
UNKNOWN UTILITIES	1.5 - 3 FT.
SEWER CLEANOUTS	>7 FT.

LEGEND:

	SOIL BORING - DISCRETE SOIL SAMPLE
	WASTE CHARACTERIZATION BORING - COMPOSITE SOIL SAMPLE
	RFI SOIL BORING
(0-4') <0.034	(SAMPLE DEPTH) TOTAL PCB CONCENTRATION (PPM)
	E UNDERGROUND ELECTRIC UTILITY
	W UNDERGROUND WATER UTILITY
	UNKNOWN UNDERGROUND UTILITY
	ROAD EDGE
	BUILDING FOOTPRINT
	APPROXIMATE EXTENT OF SOIL EXCAVATION
	CONFIRMATORY SAMPLE LOCATION

NOTES:

1. COMPLETE UTILITY MARK-OUT AND PRE-SURVEY UNLESS OTHERWISE DIRECTED.
2. INSTALL EROSION AND SEDIMENT CONTROLS AROUND WORK AREA IN THE FORM OF STRAW WATTLES OR HAY BALES, OR AS DIRECTED.
3. INSTALL PERIMETER CONSTRUCTION FENCE EXCLUSION ZONE AROUND LIMITS OF WORK. PROVIDE APPLICABLE SIGNAGE AS DIRECTED FOR THE WORK ZONE.
4. PROVIDE DECONTAMINATION PAD/AREA TO COMPLETE DECONTAMINATION OF ALL EQUIPMENT THAT COMES IN CONTACT WITH EXCAVATED SOILS PRIOR TO DEMOBILIZATION. CONTRACTOR TO PROPERLY CHARACTERIZE ALL DRUMMED DECONTAMINATION FLUIDS AND PPE FOR DISPOSAL BY OTHERS. LOCATION OF DECONTAMINATION PAD SHALL BE APPROVED BY SITE REPRESENTATIVE.
5. STAGING AND STORAGE LOCATION OF EQUIPMENT SHALL BE APPROVED BY SITE REPRESENTATIVE.
6. CONTRACTOR SHALL PROVIDE SITE SERVICES TO MAINTAIN/CLEAN ROADS AS NECESSARY OR AS DIRECTED.



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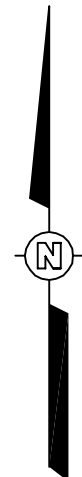
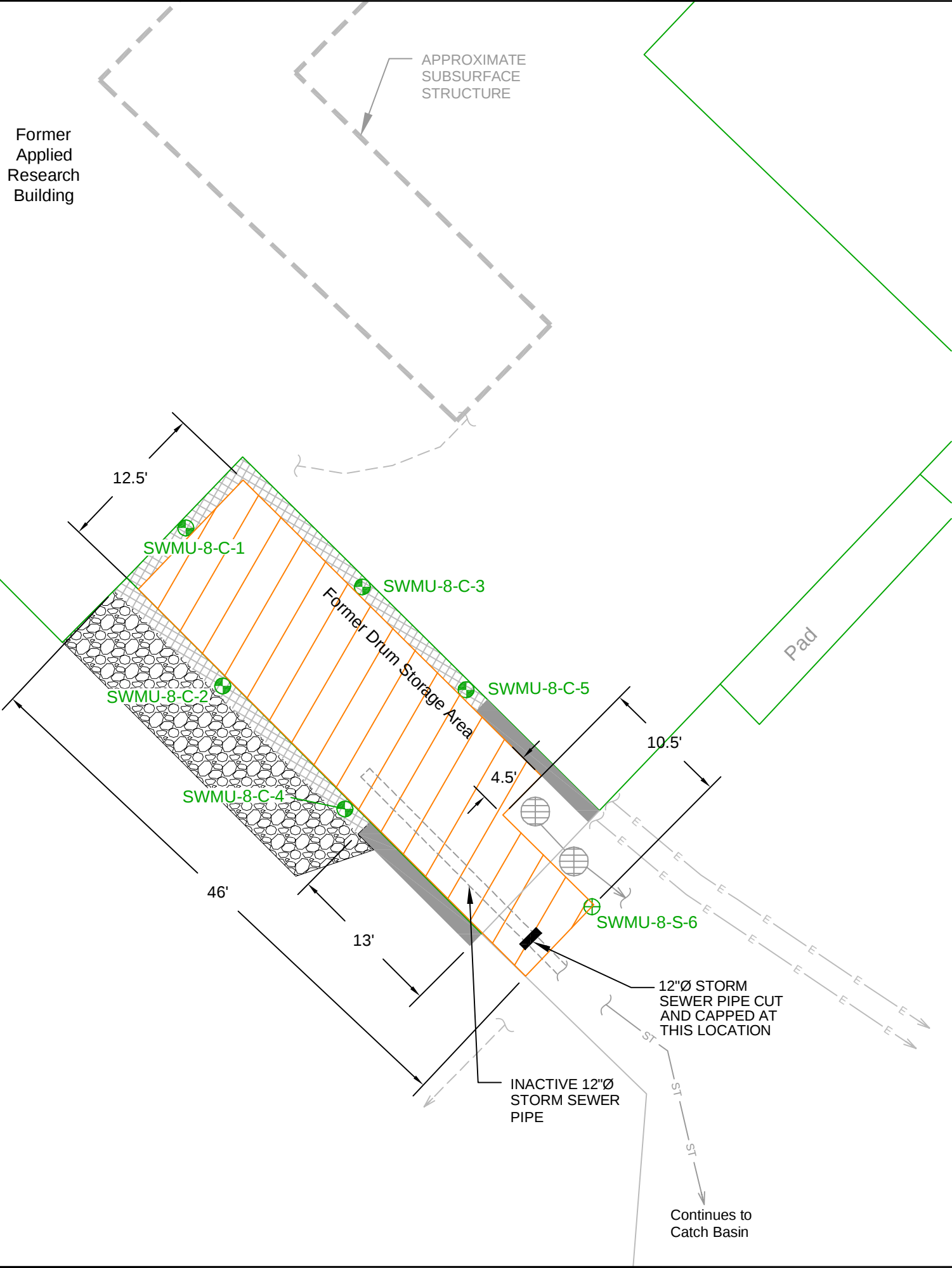


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FIGURE 3
SITE WORK AND EXCAVATION PLAN -
AOC-2
EPB PARKING LOT
GE GLOBAL RESEARCH CENTER
NISKAYUNA, NEW YORK

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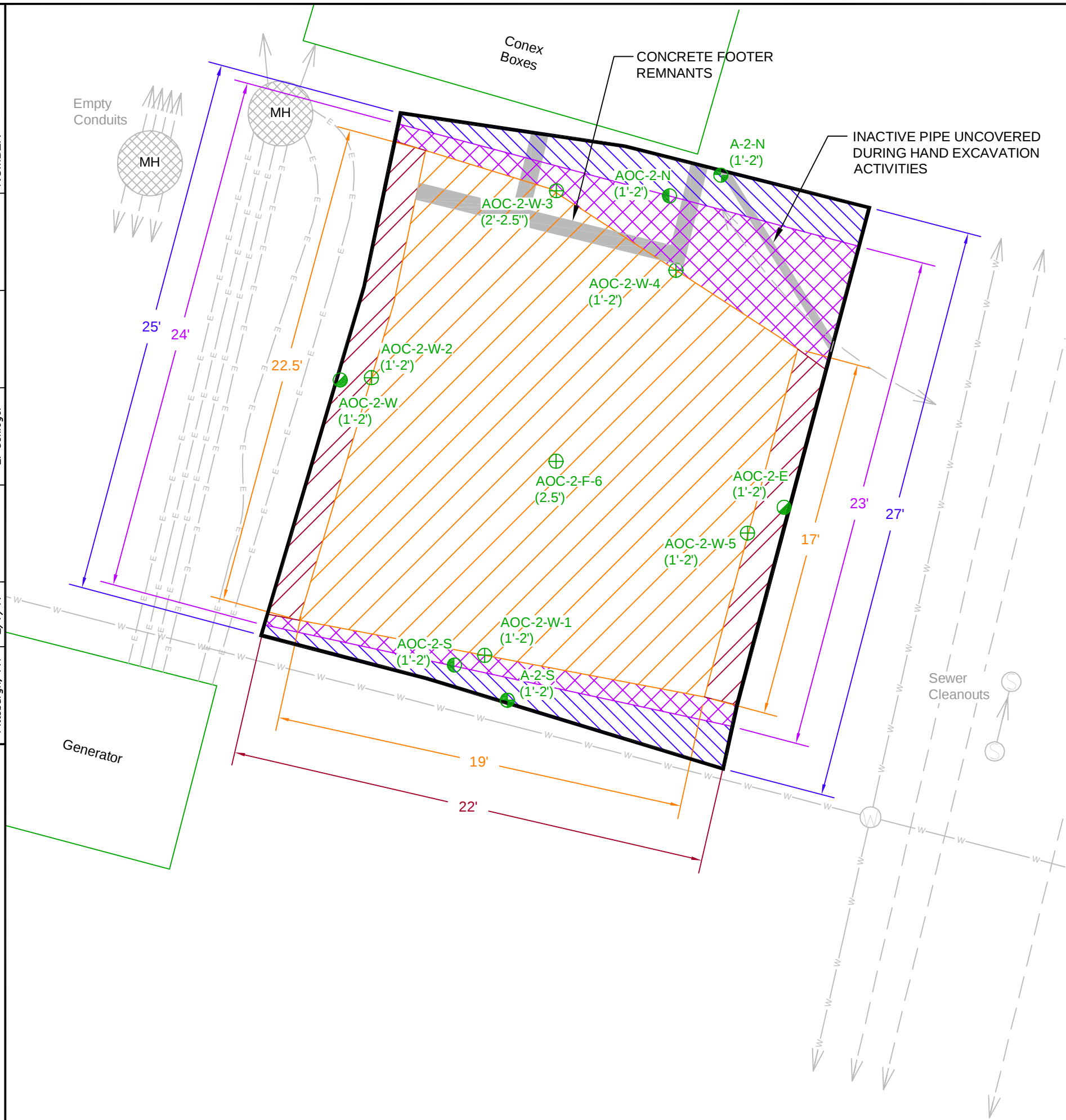


LEGEND:	
	CONCRETE CORE SAMPLE
	ENDPOINT SAMPLE
	CONCRETE RETAINING WALL LEFT IN PLACE
	CONCRETE WALL REPLACED WITH RIPRAP
	CONCRETE RETAINING WALL AND FORMER BUILDING FOUNDATION REMOVED
	EXTENT OF SOIL EXCAVATION (3.9' DEEP)
	FORMER BUILDING FOOTPRINT
	ROAD EDGE
	UNDERGROUND ELECTRIC UTILITY
	UNDERGROUND STORM SEWER UTILITY
	UNKNOWN UNDERGROUND UTILITY

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	GLOBAL RESEARCH CENTER
FIGURE 4 SWMU-8 EXCAVATION FORMER DRUM STORAGE AREA - ARB GE GLOBAL RESEARCH CENTER NISKAYUNA, NEW YORK	

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OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	2/7/17	--	E. Schlegel	--	--	155114-B34



APROXIMATE UTILITY DEPTHS:

ELECTRIC	4 - 5 FT.
WATER	5 FT.
UNKNOWN UTILITIES	1.5 - 3 FT.
SEWER CLEANOUTS	>7 FT.



LEGEND:

- CONFIRMATORY SAMPLE LOCATION AND DEPTH B.G.S. (TAKEN 1-23-2017)
- CONFIRMATORY SAMPLE LOCATION AND DEPTH B.G.S. (TAKEN 1-30-2017)
- CONFIRMATORY SAMPLE LOCATION AND DEPTH B.G.S. (TAKEN 1-31-2017)
- CONFIRMATORY SAMPLE LOCATION AND DEPTH B.G.S. (TAKEN 2-2-2017)
- INITIAL EXTENT OF EXCAVATION (1-23-2017)
- 2ND ROUND HAND EXCAVATION (1-30-2017)
- 3RD ROUND HAND EXCAVATION (1-31-2017)
- 4TH ROUND HAND EXCAVATION (2-2-2017)
- FINAL EXTENT OF SOIL EXCAVATION
- UNDERGROUND ELECTRIC UTILITY
- UNDERGROUND WATER UTILITY
- UNKNOWN UNDERGROUND UTILITY



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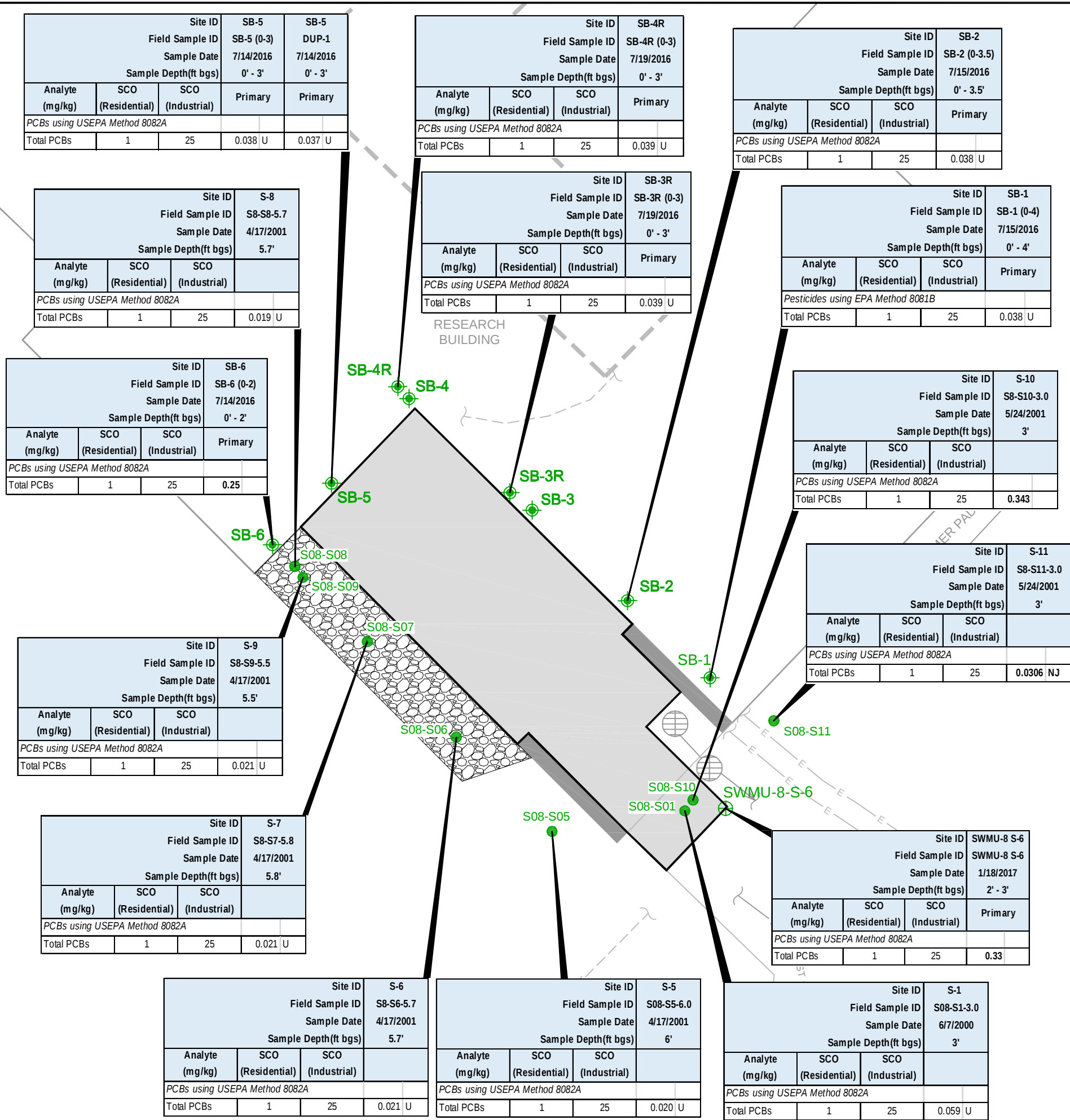


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FIGURE 5

**AOC-2 EXCAVATION
EPB PARKING LOT**

GE GLOBAL RESEARCH CENTER
NISKAYUNA, NEW YORK



LEGEND:

- CONFIRMATION SOIL BORING
- RFI SOIL BORING
- ENDPOINT SAMPLE
- CONCRETE RETAINING WALL LEFT IN PLACE
- CONCRETE WALL REPLACED WITH RIPRAP
- EXTENT OF SOIL EXCAVATION (3.9' DEEP)
- FORMER BUILDING FOOTPRINT
- ROAD EDGE
- UNDERGROUND ELECTRIC UTILITY
- UNDERGROUND STORM SEWER UTILITY
- UNKNOWN UNDERGROUND UTILITY

NOTES:

All results are in milligrams per kilogram (mg/kg) or parts per million (ppm).

ft bgs - Feet below ground surface.

New York State Department of Environmental Conservation (NYSDEC) Soil Clean-Up Objectives (SCO) obtained from 6 NYCRR Part 375 6.8b (effective December 14, 2006)

NGV - No given value listed in 6 NYCRR Part 375.

Bold - Indicates analyte detected by laboratory.

U - Not detected at laboratory method detection limit.

NJ - The analyte has been tentatively identified and the concentration given is approximate.

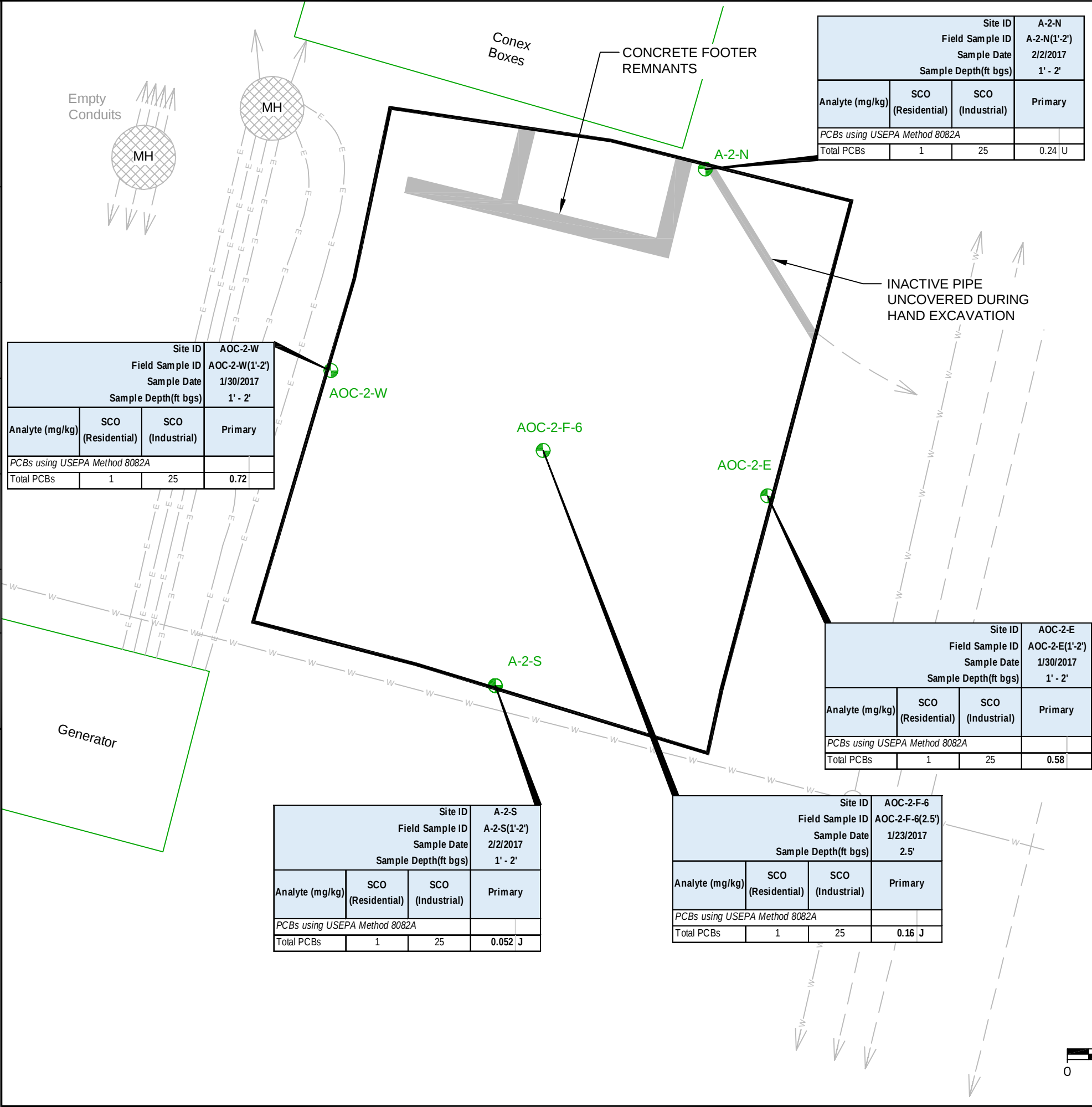


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FIGURE 6
SWMU-8 SOIL CONFIRMATION SAMPLES
FORMER DRUM STORAGE AREA - ARB
GE GLOBAL RESEARCH CENTER
NISKAYUNA, NEW YORK



Site ID			A-2-N
Field Sample ID			A-2-N(1'-2')
Sample Date			2/2/2017
Sample Depth(ft bgs)			1' - 2'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary
PCBs using USEPA Method 8082A			
Total PCBs	1	25	0.24 U

Site ID			AOC-2-W
Field Sample ID			AOC-2-W(1'-2')
Sample Date			1/30/2017
Sample Depth(ft bgs)			1' - 2'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary
PCBs using USEPA Method 8082A			
Total PCBs	1	25	0.72

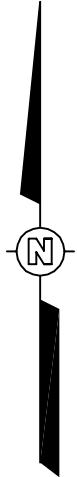
Site ID			A-2-S
Field Sample ID			A-2-S(1'-2')
Sample Date			2/2/2017
Sample Depth(ft bgs)			1' - 2'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary
PCBs using USEPA Method 8082A			
Total PCBs	1	25	0.052 J

Site ID Field Sample ID Sample Date Sample Depth(ft bgs)			AOC-2-F-6 AOC-2-F-6(2.5') 1/23/2017 2.5'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary
PCBs using USEPA Method 8082A			
Total PCBs	1	25	0.16 J

Site ID			AOC-2-E
Field Sample ID			AOC-2-E(1'-2')
Sample Date			1/30/2017
Sample Depth(ft bgs)			1' - 2'
Analyte (mg/kg)	SCO (Residential)	SCO (Industrial)	Primary
PCBs using USEPA Method 8082A			
Total PCBs	1	25	0.58

LEGEND:

- ENDPOINT SAMPLE LOCATION
- FINAL EXTENT OF SOIL EXCAVATION
- UNDERGROUND ELECTRIC UTILITY
- UNDERGROUND WATER UTILITY
- UNKNOWN UNDERGROUND UTILITY



NOTES:

All results are in milligrams per kilogram (mg/kg) or parts per million (ppm).

ft bgs - Feet below ground surface.

New York State Department of Environmental Conservation (NYSDEC) Soil Clean-Up Objectives (SCO) obtained from 6 NYCRR Part 375 6.8b (effective December 14, 2006).

Bold - Indicates analyte detected by laboratory.

U - Not detected at laboratory method detection limit.

J - Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.



	CB&I E&I Engineering of New York, P.C. 13 British American Boulevard Latham, NY 12110
	GLOBAL RESEARCH CENTER
FIGURE 7 AOC-2 SOIL CONFIRMATION SAMPLES EPB PARKING LOT GE GLOBAL RESEARCH CENTER NISKAYUNA, NEW YORK	

Appendix A

Photographic Log

CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Molocznik

Date:
1-17-2017

Direction:
Southeast

Comments:
SWMU-8 as marked
by All Site Surveying
prior to
commencement of
excavation



Photographer:
E. Molocznik

Date:
1-18-2017

Direction:
Northwest

Comments:
North wall core
sample location from
SWMU-8 excavation



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Moloczniak

Date:
1-19-2017

Direction:
West

Comments:
Unknown and
inactive storm sewer
piping uncovered in
SWMU-8 excavation



Photographer:
E. Moloczniak

Date:
1-19-2017

Direction:
Northwest

Comments:
Appearance of soil
excavated from
SWMU-8



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Molocznik

Date:
1-19-2017

Direction:
West

Comments:
US Ecology loading
soil into Page ETC
18-wheel dump
trailer for
transportation to
disposal facility



Photographer:
E. Molocznik

Date:
1-20-2017

Direction:
South

Comments:
Soil removed from
SWMU-8, with
concrete walls still in
place



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Molocznik

Date:
1-20-2017

Direction:
Down

Comments:
SWMU-8 after soil excavation, with walls still in place. Storm sewers remained, as excavation would compromise them.



Photographer:
E. Molocznik

Date:
1-23-2017

Direction:
Northwest

Comments:
Demolition of the western concrete wall of SWMU-8



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Molocznik

Date:
1-24-2017

Direction:
Northwest

Comments:
All sidewalls
demolished on
SWMU-8



Photographer:
E. Molocznik

Date:
1-24-2017

Direction:
West

Comments:
SWMU-8 backfilled
with compacted soil
and backfill



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Moloczniak

Date:
2-8-2017

Direction:
Southwest

Comments:
Geotextile placed on
sloped wall in
SWMU-8, with soil
compactor in view



Photographer:
E. Moloczniak

Date:
1-24-2017

Direction:
Southwest

Comments:
SWMU-8 after
backfill and
placement of rip-rap
on sloped surface



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Moloczniak

Date:
1-23-2017

Direction:
Southwest

Comments:
CAMP Station 2 for
SWMU-8



Photographer:
E. Moloczniak

Date:
1-23-2017

Direction:
Northwest

Comments:
CAMP Station 1 for
SWMU-8



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:

E. Molocznik

Date:

1-20-2017

Direction:

West

Comments:

Excavation
commences on
AOC-2



Photographer:

E. Molocznik

Date:

1-24-2017

Direction:

Northeast

Comments:

Concrete footer
exposed on the north
wall, with conex box
adjacent to the
excavation



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Moloczniak

Date:
1-24-2017

Direction:
Northeast

Comments:
Perimeter of AOC-2
after the first round
of excavation



Photographer:
E. Moloczniak

Date:
1-20-2017

Direction:
North

Comments:
US Ecology
performing hand
excavation on the
north wall of AOC-2



**CB&I
Photographic Log**

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavations

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:

E. Moloczniak

Date:

1-30-2017

Direction:

Down

Comments:

Decontamination
area in AOC-2
excavation



Photographer:

E. Moloczniak

Date:

2-01-2017

Direction:

Down

Comments:

AOC-2 Excavation
with geotextile fabric
placed and ready for
backfill



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavation

Site Name: General Electric Global Research

Site Location: Niskayuna, NY

Photographer:
E. Moloczniak

Date:
2-2-2017

Direction:
Southwest

Comments:
Additional
excavation
completed along
south wall of AOC-2



Photographer:
Ed Moloczniak

Date:
2-01-2017

Direction:
East

Comments:
Additional
excavation
completed along
northeast wall of
AOC-2



CB&I
Photographic Log

Customer: General Electric

Project: SWMU-8 and AOC-2 Excavation

Site Name: General Electric Global Research

Site Location: Schenectady, NY

Photographer:
E. Molocznik

Date:
2-2-2017

Direction: East

Comments:
Unknown utility
uncovered in AOC-2
observed to be
inactive



Photographer:
E. Molocznik

Date:
2-7-2017

Direction:

North

Comments:
AOC-2 backfilled to
grade



CB&I
Photographic Log

Customer: General Electric

Project: Sewer Rehab

Site Name: General Electric Main Plant

Site Location: Schenectady, NY

Photographer:
E. Moloczniak

Date:
2-07-17

Direction:
Northwest

Comments:
AOC-2 backfilled to grade



Photographer:
Ed Moloczniak

Date:
02-07-17

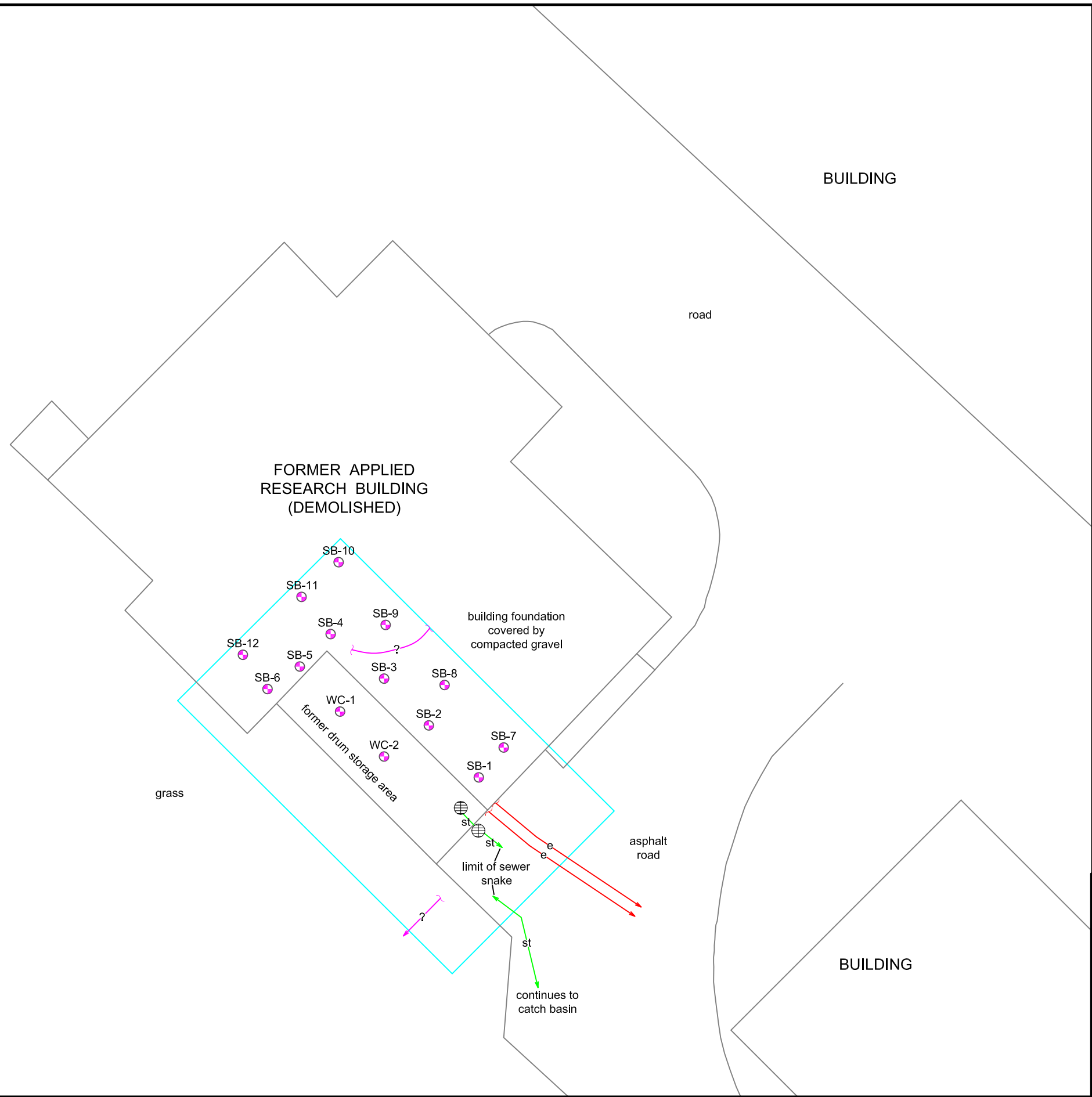
Direction:
South

Comments:
Final load of soil removed from AOC-2 by Page ETC in a roll-off container



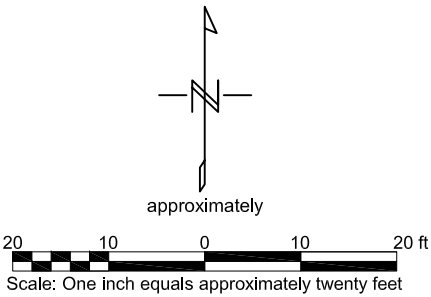
Appendix B

Naeva Geophysics Maps



LEGEND

- area of geophysical investigation
- proposed exploratory boring site
- e electric line
- st storm sewer line
- ? unknown line
- catch basin

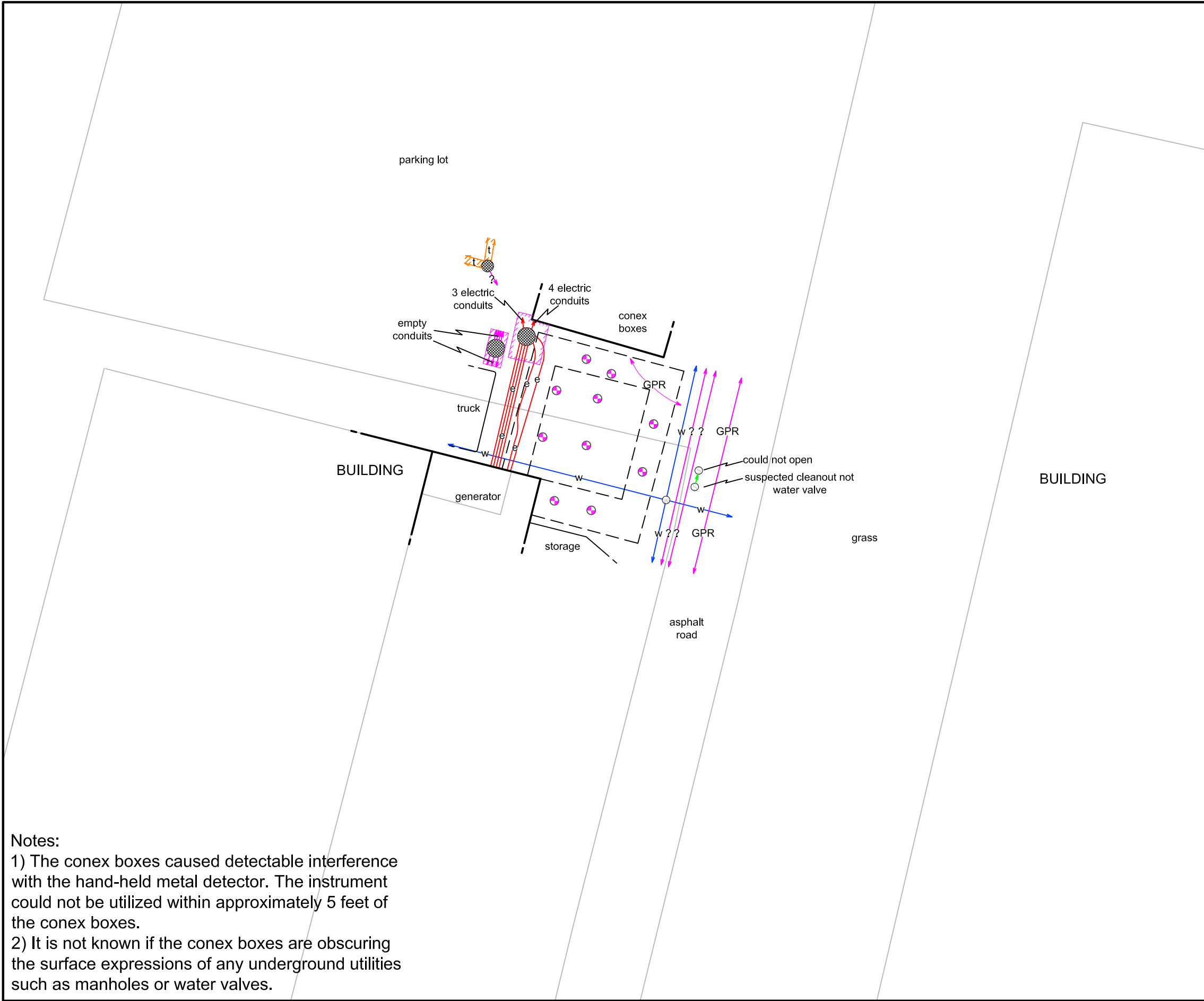


225 N. Route 303, Suite 102
Congers, NY. 10920
(845)268-1800
(845)268-1802 FAX

Figure 1. Results of a Geophysical Investigation
GE Global Research Facility
Former Applied Research Building & SWMU-8
1 Research Circle Niskayuna, New York

Client	CB&I Environmental Infrastructure, Inc.	Date of Work	June 22, 2016
Project No.	C1606221A	Map By	Rachel Raines

ALL UNDERGROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP



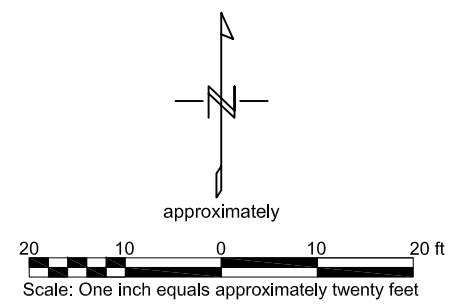
Notes:

1) The conex boxes caused detectable interference with the hand-held metal detector. The instrument could not be utilized within approximately 5 feet of the conex boxes.

2) It is not known if the conex boxes are obscuring the surface expressions of any underground utilities such as manholes or water valves.

LEGEND

- e — electric line
- w — water line
- ? — suspected utility
- GPR — ground penetrating radar anomaly
- ▨ t ▨ telephone conduit bank
- ▨ extent of utility vault
- manhole cover
- proposed exploratory boring site
- water valve
- sewer cleanout
- basemap features (gray)



NAEVA GEOPHYSICS, INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

225 N. Route 303, Suite 102
Congers, NY. 10920
(845)268-1800
(845)268-1802 FAX

Figure 2. Results of a Geophysical Investigation
GE Global Research Facility
AOC-2, EPB Parking Lot
1 Research Circle Niskayuna, New York

Client	CB&I Environmental Infrastructure, Inc.	Date of Work	July 18, 2016
Project No.	C1607181A	Map Updated By	Rachel Raines

ALL UNDERGROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP

Byers, Cecelia

From: Frank Amorosana <FAmorosana@naevageophysics.com>
Sent: Friday, July 29, 2016 1:57 PM
To: Byers, Cecelia
Subject: RE: Question on GE-Niskayuna Map

Cecelia,

The approximate depths are as follows:

- Electric 4-5 feet
- Water 5 feet
- Unknowns 3 feet
- GPRs 1.5-2 feet
- Sewer cleanout >7 feet

Frank J. Amorosana
Geologist- Project Manager- Health & Safety Manager
NAEVA Geophysics, Inc.
FAmorosana@naevageophysics.com [NAEVA's Website](#)



225 North Route 303, Suite 102
Congers, NY 10920

Tel: (845) 268-1800 Ext: 112
Fax: (845) 268-1802
Work Cell: (434) 409-4284

"It's better to be Safety Conscious than Unsafe and Unconscious".

From: Byers, Cecelia [mailto:cecelia.byers@cbi.com]
Sent: Friday, July 29, 2016 1:55 PM
To: Frank Amorosana <FAmorosana@naevageophysics.com>
Subject: Question on GE-Niskayuna Map

Frank –

I was wondering if it was possible to determine the depth of utility lines from the survey (specifically on the attached Figure)?

Thanks,
Cecelia



Cecelia Byers
Project Manager
Capital Services
Facilities and Plant Services
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Fax: +1 412 380 4091
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Appendix C

Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-112412-1

Client Project/Site: GE - Niskayuna

For:

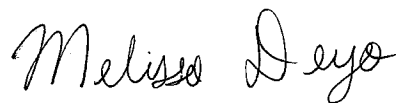
CB&I Constructors, Inc.

500 Penn Center Blvd

Suite 1000

Pittsburgh, Pennsylvania 15235

Attn: Cecilia Byers



Authorized for release by:

1/20/2017 3:52:43 PM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Glossary

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

Case Narrative

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Job ID: 480-112412-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-112412-1

Receipt

The samples were received on 1/19/2017 12:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1° C.

GC Semi VOA

Method(s) 8082A: The following sample was diluted due to an abundance of target analytes: SWMU-8 C-2 (480-112412-2). As such, surrogate recoveries are estimated and not representative, and elevated reporting limits (RLs) are provided.

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

Organic Prep

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

Detection Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Client Sample ID: SWMU-8 C-1

Lab Sample ID: 480-112412-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	2.0		0.24	0.046	mg/Kg	1		8082A	Total/NA

Client Sample ID: SWMU-8 C-2

Lab Sample ID: 480-112412-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	120		23	4.6	mg/Kg	100		8082A	Total/NA

Client Sample ID: SWMU-8 C-3

Lab Sample ID: 480-112412-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	4.4		0.25	0.048	mg/Kg	1		8082A	Total/NA

Client Sample ID: SWMU-8 C-4

Lab Sample ID: 480-112412-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	0.83		0.19	0.036	mg/Kg	1		8082A	Total/NA

Client Sample ID: SWMU-8 C-5

Lab Sample ID: 480-112412-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	1.1		0.22	0.044	mg/Kg	1		8082A	Total/NA

Client Sample ID: SWMU-8 S-6

Lab Sample ID: 480-112412-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.33		0.26	0.051	mg/Kg	1	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Client Sample ID: SWMU-8 C-1

Date Collected: 01/18/17 11:10

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg		01/19/17 07:24	01/19/17 23:18	1
PCB-1221	ND		0.24	0.046	mg/Kg		01/19/17 07:24	01/19/17 23:18	1
PCB-1232	ND		0.24	0.046	mg/Kg		01/19/17 07:24	01/19/17 23:18	1
PCB-1242	2.0		0.24	0.046	mg/Kg		01/19/17 07:24	01/19/17 23:18	1
PCB-1248	ND		0.24	0.046	mg/Kg		01/19/17 07:24	01/19/17 23:18	1
PCB-1254	ND		0.24	0.11	mg/Kg		01/19/17 07:24	01/19/17 23:18	1
PCB-1260	ND		0.24	0.11	mg/Kg		01/19/17 07:24	01/19/17 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		60 - 154	01/19/17 07:24	01/19/17 23:18	1
DCB Decachlorobiphenyl	74		65 - 174	01/19/17 07:24	01/19/17 23:18	1

Client Sample ID: SWMU-8 C-2

Date Collected: 01/18/17 12:15

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		23	4.6	mg/Kg		01/19/17 07:24	01/19/17 23:33	100
PCB-1221	ND		23	4.6	mg/Kg		01/19/17 07:24	01/19/17 23:33	100
PCB-1232	ND		23	4.6	mg/Kg		01/19/17 07:24	01/19/17 23:33	100
PCB-1242	ND		23	4.6	mg/Kg		01/19/17 07:24	01/19/17 23:33	100
PCB-1248	120		23	4.6	mg/Kg		01/19/17 07:24	01/19/17 23:33	100
PCB-1254	ND		23	11	mg/Kg		01/19/17 07:24	01/19/17 23:33	100
PCB-1260	ND		23	11	mg/Kg		01/19/17 07:24	01/19/17 23:33	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	149		60 - 154	01/19/17 07:24	01/19/17 23:33	100
DCB Decachlorobiphenyl	89		65 - 174	01/19/17 07:24	01/19/17 23:33	100

Client Sample ID: SWMU-8 C-3

Date Collected: 01/18/17 12:50

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg		01/19/17 07:24	01/19/17 23:49	1
PCB-1221	ND		0.25	0.048	mg/Kg		01/19/17 07:24	01/19/17 23:49	1
PCB-1232	ND		0.25	0.048	mg/Kg		01/19/17 07:24	01/19/17 23:49	1
PCB-1242	ND		0.25	0.048	mg/Kg		01/19/17 07:24	01/19/17 23:49	1
PCB-1248	4.4		0.25	0.048	mg/Kg		01/19/17 07:24	01/19/17 23:49	1
PCB-1254	ND		0.25	0.12	mg/Kg		01/19/17 07:24	01/19/17 23:49	1
PCB-1260	ND		0.25	0.12	mg/Kg		01/19/17 07:24	01/19/17 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		60 - 154	01/19/17 07:24	01/19/17 23:49	1
DCB Decachlorobiphenyl	81		65 - 174	01/19/17 07:24	01/19/17 23:49	1

TestAmerica Buffalo

Client Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Client Sample ID: SWMU-8 C-4

Date Collected: 01/18/17 15:00

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.036	mg/Kg		01/19/17 07:24	01/20/17 00:05	1
PCB-1221	ND		0.19	0.036	mg/Kg		01/19/17 07:24	01/20/17 00:05	1
PCB-1232	ND		0.19	0.036	mg/Kg		01/19/17 07:24	01/20/17 00:05	1
PCB-1242	0.83		0.19	0.036	mg/Kg		01/19/17 07:24	01/20/17 00:05	1
PCB-1248	ND		0.19	0.036	mg/Kg		01/19/17 07:24	01/20/17 00:05	1
PCB-1254	ND		0.19	0.087	mg/Kg		01/19/17 07:24	01/20/17 00:05	1
PCB-1260	ND		0.19	0.087	mg/Kg		01/19/17 07:24	01/20/17 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		60 - 154	01/19/17 07:24	01/20/17 00:05	1
DCB Decachlorobiphenyl	82		65 - 174	01/19/17 07:24	01/20/17 00:05	1

Client Sample ID: SWMU-8 C-5

Date Collected: 01/18/17 15:20

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.044	mg/Kg		01/19/17 07:24	01/20/17 00:21	1
PCB-1221	ND		0.22	0.044	mg/Kg		01/19/17 07:24	01/20/17 00:21	1
PCB-1232	ND		0.22	0.044	mg/Kg		01/19/17 07:24	01/20/17 00:21	1
PCB-1242	1.1		0.22	0.044	mg/Kg		01/19/17 07:24	01/20/17 00:21	1
PCB-1248	ND		0.22	0.044	mg/Kg		01/19/17 07:24	01/20/17 00:21	1
PCB-1254	ND		0.22	0.10	mg/Kg		01/19/17 07:24	01/20/17 00:21	1
PCB-1260	ND		0.22	0.10	mg/Kg		01/19/17 07:24	01/20/17 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		60 - 154	01/19/17 07:24	01/20/17 00:21	1
DCB Decachlorobiphenyl	67		65 - 174	01/19/17 07:24	01/20/17 00:21	1

Client Sample ID: SWMU-8 S-6

Date Collected: 01/18/17 13:15

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-6

Matrix: Solid

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	01/19/17 07:24	01/19/17 23:02	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	01/19/17 07:24	01/19/17 23:02	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	01/19/17 07:24	01/19/17 23:02	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	01/19/17 07:24	01/19/17 23:02	1
PCB-1248	0.33		0.26	0.051	mg/Kg	☼	01/19/17 07:24	01/19/17 23:02	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	01/19/17 07:24	01/19/17 23:02	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	01/19/17 07:24	01/19/17 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		60 - 154	01/19/17 07:24	01/19/17 23:02	1
DCB Decachlorobiphenyl	74		65 - 174	01/19/17 07:24	01/19/17 23:02	1

TestAmerica Buffalo

Surrogate Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (60-154)	DCB2 (65-174)
480-112412-1	SWMU-8 C-1	89	74
480-112412-2	SWMU-8 C-2	149	89
480-112412-3	SWMU-8 C-3	98	81
480-112412-4	SWMU-8 C-4	92	82
480-112412-5	SWMU-8 C-5	73	67
480-112412-6	SWMU-8 S-6	89	74
480-112412-6 MS	SWMU-8 S-6	93	68
480-112412-6 MSD	SWMU-8 S-6	95	72
LCS 480-340592/2-A	Lab Control Sample	95	77
MB 480-340592/1-A	Method Blank	87	81

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

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

Lab Sample ID: MB 480-340592/1-A

Matrix: Solid

Analysis Batch: 340721

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 340592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg		01/19/17 07:24	01/19/17 21:58	1
PCB-1221	ND		0.24	0.047	mg/Kg		01/19/17 07:24	01/19/17 21:58	1
PCB-1232	ND		0.24	0.047	mg/Kg		01/19/17 07:24	01/19/17 21:58	1
PCB-1242	ND		0.24	0.047	mg/Kg		01/19/17 07:24	01/19/17 21:58	1
PCB-1248	ND		0.24	0.047	mg/Kg		01/19/17 07:24	01/19/17 21:58	1
PCB-1254	ND		0.24	0.11	mg/Kg		01/19/17 07:24	01/19/17 21:58	1
PCB-1260	ND		0.24	0.11	mg/Kg		01/19/17 07:24	01/19/17 21:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		60 - 154	01/19/17 07:24	01/19/17 21:58	1
DCB Decachlorobiphenyl	81		65 - 174	01/19/17 07:24	01/19/17 21:58	1

Lab Sample ID: LCS 480-340592/2-A

Matrix: Solid

Analysis Batch: 340721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 340592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1.90	1.69		mg/Kg		89	51 - 185
PCB-1260	1.90	1.31		mg/Kg		69	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	95		60 - 154
DCB Decachlorobiphenyl	77		65 - 174

Lab Sample ID: 480-112412-6 MS

Matrix: Solid

Analysis Batch: 340721

Client Sample ID: SWMU-8 S-6

Prep Type: Total/NA

Prep Batch: 340592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		2.39	2.23		mg/Kg	☼	93	50 - 177
PCB-1260	ND		2.39	1.51		mg/Kg	☼	63	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	93		60 - 154
DCB Decachlorobiphenyl	68		65 - 174

Lab Sample ID: 480-112412-6 MSD

Matrix: Solid

Analysis Batch: 340721

Client Sample ID: SWMU-8 S-6

Prep Type: Total/NA

Prep Batch: 340592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND		2.61	2.34		mg/Kg	☼	90	50 - 177	5	50
PCB-1260	ND		2.61	1.43		mg/Kg	☼	55	33 - 200	5	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	95		60 - 154
DCB Decachlorobiphenyl	72		65 - 174

TestAmerica Buffalo

QC Association Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

GC Semi VOA

Prep Batch: 340592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112412-1	SWMU-8 C-1	Total/NA	Solid	3550C	
480-112412-2	SWMU-8 C-2	Total/NA	Solid	3550C	
480-112412-3	SWMU-8 C-3	Total/NA	Solid	3550C	
480-112412-4	SWMU-8 C-4	Total/NA	Solid	3550C	
480-112412-5	SWMU-8 C-5	Total/NA	Solid	3550C	
480-112412-6	SWMU-8 S-6	Total/NA	Solid	3550C	
MB 480-340592/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-340592/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-112412-6 MS	SWMU-8 S-6	Total/NA	Solid	3550C	
480-112412-6 MSD	SWMU-8 S-6	Total/NA	Solid	3550C	

Analysis Batch: 340721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112412-1	SWMU-8 C-1	Total/NA	Solid	8082A	340592
480-112412-2	SWMU-8 C-2	Total/NA	Solid	8082A	340592
480-112412-3	SWMU-8 C-3	Total/NA	Solid	8082A	340592
480-112412-4	SWMU-8 C-4	Total/NA	Solid	8082A	340592
480-112412-5	SWMU-8 C-5	Total/NA	Solid	8082A	340592
480-112412-6	SWMU-8 S-6	Total/NA	Solid	8082A	340592
MB 480-340592/1-A	Method Blank	Total/NA	Solid	8082A	340592
LCS 480-340592/2-A	Lab Control Sample	Total/NA	Solid	8082A	340592
480-112412-6 MS	SWMU-8 S-6	Total/NA	Solid	8082A	340592
480-112412-6 MSD	SWMU-8 S-6	Total/NA	Solid	8082A	340592

General Chemistry

Analysis Batch: 340580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112412-6	SWMU-8 S-6	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Client Sample ID: SWMU-8 C-1

Date Collected: 01/18/17 11:10

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			340592	01/19/17 07:24	CPH	TAL BUF
Total/NA	Analysis	8082A		1	340721	01/19/17 23:18	KS	TAL BUF

Client Sample ID: SWMU-8 C-2

Date Collected: 01/18/17 12:15

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			340592	01/19/17 07:24	CPH	TAL BUF
Total/NA	Analysis	8082A		100	340721	01/19/17 23:33	KS	TAL BUF

Client Sample ID: SWMU-8 C-3

Date Collected: 01/18/17 12:50

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			340592	01/19/17 07:24	CPH	TAL BUF
Total/NA	Analysis	8082A		1	340721	01/19/17 23:49	KS	TAL BUF

Client Sample ID: SWMU-8 C-4

Date Collected: 01/18/17 15:00

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			340592	01/19/17 07:24	CPH	TAL BUF
Total/NA	Analysis	8082A		1	340721	01/20/17 00:05	KS	TAL BUF

Client Sample ID: SWMU-8 C-5

Date Collected: 01/18/17 15:20

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			340592	01/19/17 07:24	CPH	TAL BUF
Total/NA	Analysis	8082A		1	340721	01/20/17 00:21	KS	TAL BUF

Client Sample ID: SWMU-8 S-6

Date Collected: 01/18/17 13:15

Date Received: 01/19/17 00:45

Lab Sample ID: 480-112412-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	340580	01/19/17 01:57	CSW	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Client Sample ID: SWMU-8 S-6

Lab Sample ID: 480-112412-6

Date Collected: 01/18/17 13:15

Matrix: Solid

Date Received: 01/19/17 00:45

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			340592	01/19/17 07:24	CPH	TAL BUF
Total/NA	Analysis	8082A		1	340721	01/19/17 23:02	KS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112412-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-112412-1	SWMU-8 C-1	Solid	01/18/17 11:10	01/19/17 00:45
480-112412-2	SWMU-8 C-2	Solid	01/18/17 12:15	01/19/17 00:45
480-112412-3	SWMU-8 C-3	Solid	01/18/17 12:50	01/19/17 00:45
480-112412-4	SWMU-8 C-4	Solid	01/18/17 15:00	01/19/17 00:45
480-112412-5	SWMU-8 C-5	Solid	01/18/17 15:20	01/19/17 00:45
480-112412-6	SWMU-8 S-6	Solid	01/18/17 13:15	01/19/17 00:45

Chain of Custody Record



Client Information		Sampler: Ed Moloczniak	Lab PM: Deyo, Melissa L
Client Contact: Cecilia Byers		Phone: 518-938-6503	E-Mail: melissa.deyo@testamericainc.com
Company: CB&I Constructors, Inc.		COC No: 480-90788-22142	
Address: 500 Penn Center Blvd. Suite 1000		Page: 1 of 2	
City: Pittsburgh		Job #: 480-112412 COC	
State, Zip: PA, 15235			
Phone: 412-858-3977			
Email: cecelia.byers@CBI.com			
Project Name: GE- Niskayuna			
Site: 1 Research Circle			

Analysis Requested				Preservation Code		Special Ins		
Due Date Requested:	TAT Requested (days):	PO #:	WO #:	A - HCL	B - NaOH			
RUSH 24 HOUR TAT								
115648 OS								
Project #: 48015254								
SSOW#:								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8082A - PCBs	Perform MS/MS (Yes or No)	Total Number of Containers
SWMU-8 C-2	1-18-17	1110	G	Solid	X	X		
SWMU-8 C-2	1-18-17	1215	G	Solid	X	X		
SWMU-8 C-3	1-18-17	1250	G	Solid	X	X		
SWMU-8 C-4	1-18-17	1500	G	Solid	X	X		
SWMU-8 C-5	1-18-17	1520	G	Solid	X	X		
SWMU-8 S-6	1-18-17	1315	G	Solid	X	X		
				Solid				
				Solid				
				Solid				
				Solid				
				Solid				
				Solid				
				Solid				
				Solid				
				Solid				
				Solid				

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1			
☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown	☐ Radiological	☐ Return To Client	☐ Disposal By Lab
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:				Method of Shipment:			
Relinquished by: Ed Moloczniak				Date/Time: 1-18-17 1640			
Relinquished by: Tim Kradtweyer				Date/Time: 1-18-17 1800			
Relinquished by:				Date/Time:			

0.1 #1

Login Sample Receipt Checklist

Client: CB&I Constructors, Inc.

Job Number: 480-112412-1

Login Number: 112412

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CBI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-112575-1

Client Project/Site: GE - Niskayuna

For:

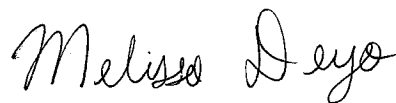
CB&I Constructors, Inc.

500 Penn Center Blvd

Suite 1000

Pittsburgh, Pennsylvania 15235

Attn: Cecilia Byers



Authorized for release by:

1/25/2017 12:52:51 PM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

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www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

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

Case Narrative

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Job ID: 480-112575-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-112575-1

Receipt

The samples were received on 1/24/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC Semi VOA

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

Organic Prep

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

Detection Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Client Sample ID: AOC-2-W-1 (1'-2')

Lab Sample ID: 480-112575-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1248	4.9		0.51	0.099	mg/Kg	2		✱	8082A	Total/NA
PCB-1254	0.86		0.51	0.24	mg/Kg	2		✱	8082A	Total/NA
PCB-1260	0.39	J	0.51	0.24	mg/Kg	2		✱	8082A	Total/NA

Client Sample ID: AOC-2-W-2 (1'-2')

Lab Sample ID: 480-112575-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1248	460		27	5.3	mg/Kg	100		✱	8082A	Total/NA
PCB-1254	210		27	13	mg/Kg	100		✱	8082A	Total/NA

Client Sample ID: AOC-2-W-3 (2-2.5')

Lab Sample ID: 480-112575-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1248	1.1		0.22	0.044	mg/Kg	1		✱	8082A	Total/NA
PCB-1260	2.3		0.22	0.10	mg/Kg	1		✱	8082A	Total/NA

Client Sample ID: AOC-2-W-4 (1'-2')

Lab Sample ID: 480-112575-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1248	1.9		0.20	0.039	mg/Kg	1		✱	8082A	Total/NA
PCB-1254	0.98		0.20	0.094	mg/Kg	1		✱	8082A	Total/NA
PCB-1260	0.14	J	0.20	0.094	mg/Kg	1		✱	8082A	Total/NA

Client Sample ID: AOC-2-W-5 (1'-2')

Lab Sample ID: 480-112575-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1248	150		22	4.2	mg/Kg	100		✱	8082A	Total/NA

Client Sample ID: AOC-2-F-6 (2.5')

Lab Sample ID: 480-112575-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1248	0.16	J	0.26	0.050	mg/Kg	1		✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Client Sample ID: AOC-2-W-1 (1'-2')

Date Collected: 01/23/17 08:45

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-1

Matrix: Solid

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1	0.51	0.099	mg/Kg	☼	01/24/17 10:30	01/24/17 19:42	2
PCB-1221	ND		0.51	0.099	mg/Kg	☼	01/24/17 10:30	01/24/17 19:42	2
PCB-1232	ND		0.51	0.099	mg/Kg	☼	01/24/17 10:30	01/24/17 19:42	2
PCB-1242	ND		0.51	0.099	mg/Kg	☼	01/24/17 10:30	01/24/17 19:42	2
PCB-1248	4.9		0.51	0.099	mg/Kg	☼	01/24/17 10:30	01/24/17 19:42	2
PCB-1254	0.86		0.51	0.24	mg/Kg	☼	01/24/17 10:30	01/24/17 19:42	2
PCB-1260	0.39	J	0.51	0.24	mg/Kg	☼	01/24/17 10:30	01/24/17 19:42	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		60 - 154	01/24/17 10:30	01/24/17 19:42	2
DCB Decachlorobiphenyl	153		65 - 174	01/24/17 10:30	01/24/17 19:42	2

Client Sample ID: AOC-2-W-2 (1'-2')

Date Collected: 01/23/17 09:00

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-2

Matrix: Solid

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		27	5.3	mg/Kg	☼	01/24/17 10:30	01/24/17 19:58	100
PCB-1221	ND		27	5.3	mg/Kg	☼	01/24/17 10:30	01/24/17 19:58	100
PCB-1232	ND		27	5.3	mg/Kg	☼	01/24/17 10:30	01/24/17 19:58	100
PCB-1242	ND		27	5.3	mg/Kg	☼	01/24/17 10:30	01/24/17 19:58	100
PCB-1248	460		27	5.3	mg/Kg	☼	01/24/17 10:30	01/24/17 19:58	100
PCB-1254	210		27	13	mg/Kg	☼	01/24/17 10:30	01/24/17 19:58	100
PCB-1260	ND		27	13	mg/Kg	☼	01/24/17 10:30	01/24/17 19:58	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	187	X	60 - 154	01/24/17 10:30	01/24/17 19:58	100
DCB Decachlorobiphenyl	0	X	65 - 174	01/24/17 10:30	01/24/17 19:58	100

Client Sample ID: AOC-2-W-3 (2-2.5')

Date Collected: 01/23/17 09:30

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-3

Matrix: Solid

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.044	mg/Kg	☼	01/24/17 10:30	01/24/17 20:13	1
PCB-1221	ND		0.22	0.044	mg/Kg	☼	01/24/17 10:30	01/24/17 20:13	1
PCB-1232	ND		0.22	0.044	mg/Kg	☼	01/24/17 10:30	01/24/17 20:13	1
PCB-1242	ND		0.22	0.044	mg/Kg	☼	01/24/17 10:30	01/24/17 20:13	1
PCB-1248	1.1		0.22	0.044	mg/Kg	☼	01/24/17 10:30	01/24/17 20:13	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	01/24/17 10:30	01/24/17 20:13	1
PCB-1260	2.3		0.22	0.10	mg/Kg	☼	01/24/17 10:30	01/24/17 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	132		60 - 154	01/24/17 10:30	01/24/17 20:13	1
DCB Decachlorobiphenyl	137		65 - 174	01/24/17 10:30	01/24/17 20:13	1

TestAmerica Buffalo

Client Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Client Sample ID: AOC-2-W-4 (1'-2')

Date Collected: 01/23/17 09:45

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-4

Matrix: Solid

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.039	mg/Kg	☼	01/24/17 10:30	01/24/17 20:29	1
PCB-1221	ND		0.20	0.039	mg/Kg	☼	01/24/17 10:30	01/24/17 20:29	1
PCB-1232	ND		0.20	0.039	mg/Kg	☼	01/24/17 10:30	01/24/17 20:29	1
PCB-1242	ND		0.20	0.039	mg/Kg	☼	01/24/17 10:30	01/24/17 20:29	1
PCB-1248	1.9		0.20	0.039	mg/Kg	☼	01/24/17 10:30	01/24/17 20:29	1
PCB-1254	0.98		0.20	0.094	mg/Kg	☼	01/24/17 10:30	01/24/17 20:29	1
PCB-1260	0.14	J	0.20	0.094	mg/Kg	☼	01/24/17 10:30	01/24/17 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	120		60 - 154	01/24/17 10:30	01/24/17 20:29	1
DCB Decachlorobiphenyl	137		65 - 174	01/24/17 10:30	01/24/17 20:29	1

Client Sample ID: AOC-2-W-5 (1'-2')

Date Collected: 01/23/17 10:00

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-5

Matrix: Solid

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22	4.2	mg/Kg	☼	01/24/17 10:30	01/24/17 20:44	100
PCB-1221	ND		22	4.2	mg/Kg	☼	01/24/17 10:30	01/24/17 20:44	100
PCB-1232	ND		22	4.2	mg/Kg	☼	01/24/17 10:30	01/24/17 20:44	100
PCB-1242	ND		22	4.2	mg/Kg	☼	01/24/17 10:30	01/24/17 20:44	100
PCB-1248	150		22	4.2	mg/Kg	☼	01/24/17 10:30	01/24/17 20:44	100
PCB-1254	ND		22	10	mg/Kg	☼	01/24/17 10:30	01/24/17 20:44	100
PCB-1260	ND		22	10	mg/Kg	☼	01/24/17 10:30	01/24/17 20:44	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	148		60 - 154	01/24/17 10:30	01/24/17 20:44	100
DCB Decachlorobiphenyl	173		65 - 174	01/24/17 10:30	01/24/17 20:44	100

Client Sample ID: AOC-2-F-6 (2.5)

Date Collected: 01/23/17 09:10

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-6

Matrix: Solid

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	01/24/17 10:30	01/24/17 20:59	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	01/24/17 10:30	01/24/17 20:59	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	01/24/17 10:30	01/24/17 20:59	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	01/24/17 10:30	01/24/17 20:59	1
PCB-1248	0.16	J	0.26	0.050	mg/Kg	☼	01/24/17 10:30	01/24/17 20:59	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	01/24/17 10:30	01/24/17 20:59	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	01/24/17 10:30	01/24/17 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	138		60 - 154	01/24/17 10:30	01/24/17 20:59	1
DCB Decachlorobiphenyl	151		65 - 174	01/24/17 10:30	01/24/17 20:59	1

TestAmerica Buffalo

Surrogate Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (60-154)	DCB1 (65-174)
480-112575-1	AOC-2-W-1 (1'-2')	123	153
480-112575-1 MS	AOC-2-W-1 (1'-2')	142	162
480-112575-1 MSD	AOC-2-W-1 (1'-2')	146	168
480-112575-2	AOC-2-W-2 (1'-2')	187 X	0 X
480-112575-3	AOC-2-W-3 (2-2.5')	132	137
480-112575-4	AOC-2-W-4 (1'-2')	120	137
480-112575-5	AOC-2-W-5 (1'-2')	148	173
480-112575-6	AOC-2-F-6 (2.5)	138	151
LCS 480-341188/2-A	Lab Control Sample	153	168
MB 480-341188/1-A	Method Blank	145	151

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

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

Lab Sample ID: MB 480-341188/1-A

Matrix: Solid

Analysis Batch: 341249

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 341188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg		01/24/17 10:30	01/24/17 18:41	1
PCB-1221	ND		0.24	0.046	mg/Kg		01/24/17 10:30	01/24/17 18:41	1
PCB-1232	ND		0.24	0.046	mg/Kg		01/24/17 10:30	01/24/17 18:41	1
PCB-1242	ND		0.24	0.046	mg/Kg		01/24/17 10:30	01/24/17 18:41	1
PCB-1248	ND		0.24	0.046	mg/Kg		01/24/17 10:30	01/24/17 18:41	1
PCB-1254	ND		0.24	0.11	mg/Kg		01/24/17 10:30	01/24/17 18:41	1
PCB-1260	ND		0.24	0.11	mg/Kg		01/24/17 10:30	01/24/17 18:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	145		60 - 154	01/24/17 10:30	01/24/17 18:41	1
DCB Decachlorobiphenyl	151		65 - 174	01/24/17 10:30	01/24/17 18:41	1

Lab Sample ID: LCS 480-341188/2-A

Matrix: Solid

Analysis Batch: 341249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 341188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	2.20	3.33		mg/Kg		151	51 - 185
PCB-1260	2.20	3.50		mg/Kg		159	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	153		60 - 154
DCB Decachlorobiphenyl	168		65 - 174

Lab Sample ID: 480-112575-1 MS

Matrix: Solid

Analysis Batch: 341249

Client Sample ID: AOC-2-W-1 (1'-2')

Prep Type: Total/NA

Prep Batch: 341188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND	F1	2.77	4.95	F1	mg/Kg	☼	179	50 - 177
PCB-1260	0.39	J	2.77	4.44		mg/Kg	☼	146	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	142		60 - 154
DCB Decachlorobiphenyl	162		65 - 174

Lab Sample ID: 480-112575-1 MSD

Matrix: Solid

Analysis Batch: 341249

Client Sample ID: AOC-2-W-1 (1'-2')

Prep Type: Total/NA

Prep Batch: 341188

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND	F1	2.48	4.66	F1	mg/Kg	☼	188	50 - 177	6	50
PCB-1260	0.39	J	2.48	4.21		mg/Kg	☼	154	33 - 200	5	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	146		60 - 154
DCB Decachlorobiphenyl	168		65 - 174

TestAmerica Buffalo

QC Association Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

GC Semi VOA

Prep Batch: 341188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112575-1	AOC-2-W-1 (1'-2')	Total/NA	Solid	3550C	
480-112575-2	AOC-2-W-2 (1'-2')	Total/NA	Solid	3550C	
480-112575-3	AOC-2-W-3 (2-2.5')	Total/NA	Solid	3550C	
480-112575-4	AOC-2-W-4 (1'-2')	Total/NA	Solid	3550C	
480-112575-5	AOC-2-W-5 (1'-2')	Total/NA	Solid	3550C	
480-112575-6	AOC-2-F-6 (2.5)	Total/NA	Solid	3550C	
MB 480-341188/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-341188/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-112575-1 MS	AOC-2-W-1 (1'-2')	Total/NA	Solid	3550C	
480-112575-1 MSD	AOC-2-W-1 (1'-2')	Total/NA	Solid	3550C	

Analysis Batch: 341249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112575-1	AOC-2-W-1 (1'-2')	Total/NA	Solid	8082A	341188
480-112575-2	AOC-2-W-2 (1'-2')	Total/NA	Solid	8082A	341188
480-112575-3	AOC-2-W-3 (2-2.5')	Total/NA	Solid	8082A	341188
480-112575-4	AOC-2-W-4 (1'-2')	Total/NA	Solid	8082A	341188
480-112575-5	AOC-2-W-5 (1'-2')	Total/NA	Solid	8082A	341188
480-112575-6	AOC-2-F-6 (2.5)	Total/NA	Solid	8082A	341188
MB 480-341188/1-A	Method Blank	Total/NA	Solid	8082A	341188
LCS 480-341188/2-A	Lab Control Sample	Total/NA	Solid	8082A	341188
480-112575-1 MS	AOC-2-W-1 (1'-2')	Total/NA	Solid	8082A	341188
480-112575-1 MSD	AOC-2-W-1 (1'-2')	Total/NA	Solid	8082A	341188

General Chemistry

Analysis Batch: 341222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112575-1	AOC-2-W-1 (1'-2')	Total/NA	Solid	Moisture	
480-112575-2	AOC-2-W-2 (1'-2')	Total/NA	Solid	Moisture	
480-112575-3	AOC-2-W-3 (2-2.5')	Total/NA	Solid	Moisture	
480-112575-4	AOC-2-W-4 (1'-2')	Total/NA	Solid	Moisture	
480-112575-5	AOC-2-W-5 (1'-2')	Total/NA	Solid	Moisture	
480-112575-6	AOC-2-F-6 (2.5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Client Sample ID: AOC-2-W-1 (1'-2')

Date Collected: 01/23/17 08:45

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	341222	01/24/17 13:32	MJH	TAL BUF

Client Sample ID: AOC-2-W-1 (1'-2')

Date Collected: 01/23/17 08:45

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-1

Matrix: Solid

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			341188	01/24/17 10:30	RJS	TAL BUF
Total/NA	Analysis	8082A		2	341249	01/24/17 19:42	KS	TAL BUF

Client Sample ID: AOC-2-W-2 (1'-2')

Date Collected: 01/23/17 09:00

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	341222	01/24/17 13:32	MJH	TAL BUF

Client Sample ID: AOC-2-W-2 (1'-2')

Date Collected: 01/23/17 09:00

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-2

Matrix: Solid

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			341188	01/24/17 10:30	RJS	TAL BUF
Total/NA	Analysis	8082A		100	341249	01/24/17 19:58	KS	TAL BUF

Client Sample ID: AOC-2-W-3 (2-2.5')

Date Collected: 01/23/17 09:30

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	341222	01/24/17 13:32	MJH	TAL BUF

Client Sample ID: AOC-2-W-3 (2-2.5')

Date Collected: 01/23/17 09:30

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-3

Matrix: Solid

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			341188	01/24/17 10:30	RJS	TAL BUF
Total/NA	Analysis	8082A		1	341249	01/24/17 20:13	KS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Client Sample ID: AOC-2-W-4 (1'-2')

Date Collected: 01/23/17 09:45

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	341222	01/24/17 13:32	MJH	TAL BUF

Client Sample ID: AOC-2-W-4 (1'-2')

Date Collected: 01/23/17 09:45

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-4

Matrix: Solid

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			341188	01/24/17 10:30	RJS	TAL BUF
Total/NA	Analysis	8082A		1	341249	01/24/17 20:29	KS	TAL BUF

Client Sample ID: AOC-2-W-5 (1'-2')

Date Collected: 01/23/17 10:00

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	341222	01/24/17 13:32	MJH	TAL BUF

Client Sample ID: AOC-2-W-5 (1'-2')

Date Collected: 01/23/17 10:00

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-5

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			341188	01/24/17 10:30	RJS	TAL BUF
Total/NA	Analysis	8082A		100	341249	01/24/17 20:44	KS	TAL BUF

Client Sample ID: AOC-2-F-6 (2.5)

Date Collected: 01/23/17 09:10

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	341222	01/24/17 13:32	MJH	TAL BUF

Client Sample ID: AOC-2-F-6 (2.5)

Date Collected: 01/23/17 09:10

Date Received: 01/24/17 09:30

Lab Sample ID: 480-112575-6

Matrix: Solid

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			341188	01/24/17 10:30	RJS	TAL BUF
Total/NA	Analysis	8082A		1	341249	01/24/17 20:59	KS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

Certification Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112575-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-112575-1	AOC-2-W-1 (1'-2')	Solid	01/23/17 08:45	01/24/17 09:30
480-112575-2	AOC-2-W-2 (1'-2')	Solid	01/23/17 09:00	01/24/17 09:30
480-112575-3	AOC-2-W-3 (2-2.5')	Solid	01/23/17 09:30	01/24/17 09:30
480-112575-4	AOC-2-W-4 (1'-2')	Solid	01/23/17 09:45	01/24/17 09:30
480-112575-5	AOC-2-W-5 (1'-2')	Solid	01/23/17 10:00	01/24/17 09:30
480-112575-6	AOC-2-F-6 (2.5)	Solid	01/23/17 09:10	01/24/17 09:30

Login Sample Receipt Checklist

Client: CB&I Constructors, Inc.

Job Number: 480-112575-1

Login Number: 112575

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CBI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-112848-1

Client Project/Site: GE - Niskayuna

For:

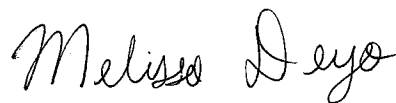
CB&I Constructors, Inc.

500 Penn Center Blvd

Suite 1000

Pittsburgh, Pennsylvania 15235

Attn: Cecilia Byers



Authorized for release by:

2/2/2017 8:27:04 AM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

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

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

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Definitions/Glossary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Qualifiers

GC Semi VOA

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

Glossary

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

Case Narrative

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Job ID: 480-112848-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-112848-1

Comments

No additional comments.

Receipt

The samples were received on 1/31/2017 9:30 AM and 2/1/2017 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 2.8° C.

GC Semi VOA

Method(s) 8082A: One or both surrogate recoveries (Tetrachloro-m-xylene and Decachlorobiphenyl) for the following samples were outside of control limits: AOC-2-N- (1'-2') (480-112893-1), (480-112893-A-1-A MS) and (480-112893-A-1-B MSD). The samples were diluted due to the abundance of target analytes. As such, surrogate recoveries are not representative.

Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: AOC-2-N- (1'-2') (480-112893-1), AOC-2-S- (1'-2') (480-112893-2), (480-112893-A-1-A MS) and (480-112893-A-1-B MSD). Elevated reporting limits (RLs) are provided.

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

Organic Prep

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

Detection Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Client Sample ID: AOC-2-W (1'-2')

Lab Sample ID: 480-112848-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.35		0.26	0.051	mg/Kg	1	☼	8082A	Total/NA
PCB-1254	0.23	J	0.26	0.12	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	0.14	J	0.26	0.12	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: AOC-2-E (1'-2')

Lab Sample ID: 480-112848-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.58		0.21	0.040	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: AOC-2-N- (1'-2')

Lab Sample ID: 480-112893-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	150		24	4.6	mg/Kg	100	☼	8082A	Total/NA

Client Sample ID: AOC-2-S- (1'-2')

Lab Sample ID: 480-112893-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	10		1.3	0.25	mg/Kg	5	☼	8082A	Total/NA
PCB-1260	1.0	J	1.3	0.60	mg/Kg	5	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Client Sample ID: AOC-2-W (1'-2')

Lab Sample ID: 480-112848-1

Date Collected: 01/30/17 14:30

Matrix: Solid

Date Received: 01/31/17 09:30

Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	01/31/17 12:29	01/31/17 16:57	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	01/31/17 12:29	01/31/17 16:57	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	01/31/17 12:29	01/31/17 16:57	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	01/31/17 12:29	01/31/17 16:57	1
PCB-1248	0.35		0.26	0.051	mg/Kg	☼	01/31/17 12:29	01/31/17 16:57	1
PCB-1254	0.23	J	0.26	0.12	mg/Kg	☼	01/31/17 12:29	01/31/17 16:57	1
PCB-1260	0.14	J	0.26	0.12	mg/Kg	☼	01/31/17 12:29	01/31/17 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	109		60 - 154				01/31/17 12:29	01/31/17 16:57	1
DCB Decachlorobiphenyl	126		65 - 174				01/31/17 12:29	01/31/17 16:57	1

Client Sample ID: AOC-2-E (1'-2')

Lab Sample ID: 480-112848-2

Date Collected: 01/30/17 15:45

Matrix: Solid

Date Received: 01/31/17 09:30

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg	☼	01/31/17 12:29	01/31/17 17:13	1
PCB-1221	ND		0.21	0.040	mg/Kg	☼	01/31/17 12:29	01/31/17 17:13	1
PCB-1232	ND		0.21	0.040	mg/Kg	☼	01/31/17 12:29	01/31/17 17:13	1
PCB-1242	ND		0.21	0.040	mg/Kg	☼	01/31/17 12:29	01/31/17 17:13	1
PCB-1248	0.58		0.21	0.040	mg/Kg	☼	01/31/17 12:29	01/31/17 17:13	1
PCB-1254	ND		0.21	0.096	mg/Kg	☼	01/31/17 12:29	01/31/17 17:13	1
PCB-1260	ND		0.21	0.096	mg/Kg	☼	01/31/17 12:29	01/31/17 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		60 - 154				01/31/17 12:29	01/31/17 17:13	1
DCB Decachlorobiphenyl	125		65 - 174				01/31/17 12:29	01/31/17 17:13	1

Client Sample ID: AOC-2-N- (1'-2')

Lab Sample ID: 480-112893-1

Date Collected: 01/31/17 14:00

Matrix: Solid

Date Received: 02/01/17 01:00

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		24	4.6	mg/Kg	☼	02/01/17 07:27	02/01/17 15:36	100
PCB-1221	ND		24	4.6	mg/Kg	☼	02/01/17 07:27	02/01/17 15:36	100
PCB-1232	ND		24	4.6	mg/Kg	☼	02/01/17 07:27	02/01/17 15:36	100
PCB-1242	ND		24	4.6	mg/Kg	☼	02/01/17 07:27	02/01/17 15:36	100
PCB-1248	150		24	4.6	mg/Kg	☼	02/01/17 07:27	02/01/17 15:36	100
PCB-1254	ND		24	11	mg/Kg	☼	02/01/17 07:27	02/01/17 15:36	100
PCB-1260	ND		24	11	mg/Kg	☼	02/01/17 07:27	02/01/17 15:36	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	153		60 - 154				02/01/17 07:27	02/01/17 15:36	100
DCB Decachlorobiphenyl	0	X	65 - 174				02/01/17 07:27	02/01/17 15:36	100

TestAmerica Buffalo

Client Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Client Sample ID: AOC-2-S- (1'-2')

Lab Sample ID: 480-112893-2

Date Collected: 01/31/17 14:15

Matrix: Solid

Date Received: 02/01/17 01:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.25	mg/Kg	☼	02/01/17 07:27	02/01/17 15:52	5
PCB-1221	ND		1.3	0.25	mg/Kg	☼	02/01/17 07:27	02/01/17 15:52	5
PCB-1232	ND		1.3	0.25	mg/Kg	☼	02/01/17 07:27	02/01/17 15:52	5
PCB-1242	ND		1.3	0.25	mg/Kg	☼	02/01/17 07:27	02/01/17 15:52	5
PCB-1248	10		1.3	0.25	mg/Kg	☼	02/01/17 07:27	02/01/17 15:52	5
PCB-1254	ND		1.3	0.60	mg/Kg	☼	02/01/17 07:27	02/01/17 15:52	5
PCB-1260	1.0	J	1.3	0.60	mg/Kg	☼	02/01/17 07:27	02/01/17 15:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	120		60 - 154	02/01/17 07:27	02/01/17 15:52	5
DCB Decachlorobiphenyl	117		65 - 174	02/01/17 07:27	02/01/17 15:52	5

Surrogate Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (60-154)	DCB1 (65-174)
480-112848-1	AOC-2-W (1'-2')	109	126
480-112848-1 MS	AOC-2-W (1'-2')	134	149
480-112848-1 MSD	AOC-2-W (1'-2')	113	121
480-112848-2	AOC-2-E (1'-2')	108	125
480-112893-1	AOC-2-N- (1'-2')	153	0 X
480-112893-1 MS	AOC-2-N- (1'-2')	118	0 X
480-112893-1 MSD	AOC-2-N- (1'-2')	158 X	0 X
480-112893-2	AOC-2-S- (1'-2')	120	117
LCS 480-342058/2-A	Lab Control Sample	140	151
LCS 480-342155/2-A	Lab Control Sample	127	140
MB 480-342058/1-A	Method Blank	120	133
MB 480-342155/1-A	Method Blank	107	118

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

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

Lab Sample ID: MB 480-342058/1-A

Matrix: Solid

Analysis Batch: 342071

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 342058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg		01/31/17 12:29	01/31/17 15:53	1
PCB-1221	ND		0.24	0.047	mg/Kg		01/31/17 12:29	01/31/17 15:53	1
PCB-1232	ND		0.24	0.047	mg/Kg		01/31/17 12:29	01/31/17 15:53	1
PCB-1242	ND		0.24	0.047	mg/Kg		01/31/17 12:29	01/31/17 15:53	1
PCB-1248	ND		0.24	0.047	mg/Kg		01/31/17 12:29	01/31/17 15:53	1
PCB-1254	ND		0.24	0.11	mg/Kg		01/31/17 12:29	01/31/17 15:53	1
PCB-1260	ND		0.24	0.11	mg/Kg		01/31/17 12:29	01/31/17 15:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	120		60 - 154	01/31/17 12:29	01/31/17 15:53	1
DCB Decachlorobiphenyl	133		65 - 174	01/31/17 12:29	01/31/17 15:53	1

Lab Sample ID: LCS 480-342058/2-A

Matrix: Solid

Analysis Batch: 342071

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 342058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.85	2.60		mg/Kg		140	51 - 185
PCB-1260	1.85	2.55		mg/Kg		137	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	140		60 - 154
DCB Decachlorobiphenyl	151		65 - 174

Lab Sample ID: 480-112848-1 MS

Matrix: Solid

Analysis Batch: 342071

Client Sample ID: AOC-2-W (1'-2')

Prep Type: Total/NA

Prep Batch: 342058

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		2.36	3.22		mg/Kg	☼	136	50 - 177
PCB-1260	0.14	J	2.36	3.26		mg/Kg	☼	132	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	134		60 - 154
DCB Decachlorobiphenyl	149		65 - 174

Lab Sample ID: 480-112848-1 MSD

Matrix: Solid

Analysis Batch: 342071

Client Sample ID: AOC-2-W (1'-2')

Prep Type: Total/NA

Prep Batch: 342058

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
PCB-1016	ND		2.57	2.86		mg/Kg	☼	111	50 - 177	12	50
PCB-1260	0.14	J	2.57	2.85		mg/Kg	☼	105	33 - 200	14	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	113		60 - 154
DCB Decachlorobiphenyl	121		65 - 174

TestAmerica Buffalo

QC Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Lab Sample ID: MB 480-342155/1-A

Matrix: Solid

Analysis Batch: 342249

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 342155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg		02/01/17 07:27	02/01/17 14:33	1
PCB-1221	ND		0.24	0.047	mg/Kg		02/01/17 07:27	02/01/17 14:33	1
PCB-1232	ND		0.24	0.047	mg/Kg		02/01/17 07:27	02/01/17 14:33	1
PCB-1242	ND		0.24	0.047	mg/Kg		02/01/17 07:27	02/01/17 14:33	1
PCB-1248	ND		0.24	0.047	mg/Kg		02/01/17 07:27	02/01/17 14:33	1
PCB-1254	ND		0.24	0.11	mg/Kg		02/01/17 07:27	02/01/17 14:33	1
PCB-1260	ND		0.24	0.11	mg/Kg		02/01/17 07:27	02/01/17 14:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		60 - 154	02/01/17 07:27	02/01/17 14:33	1
DCB Decachlorobiphenyl	118		65 - 174	02/01/17 07:27	02/01/17 14:33	1

Lab Sample ID: LCS 480-342155/2-A

Matrix: Solid

Analysis Batch: 342249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 342155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.79	2.26		mg/Kg		126	51 - 185
PCB-1260	1.79	2.22		mg/Kg		124	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	127		60 - 154
DCB Decachlorobiphenyl	140		65 - 174

Lab Sample ID: 480-112893-1 MS

Matrix: Solid

Analysis Batch: 342249

Client Sample ID: AOC-2-N- (1'-2')

Prep Type: Total/NA

Prep Batch: 342155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		2.48	25.1		mg/Kg	☼	NC	50 - 177
PCB-1260	ND		2.48	ND		mg/Kg	☼	NC	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	118		60 - 154
DCB Decachlorobiphenyl	0	X	65 - 174

Lab Sample ID: 480-112893-1 MSD

Matrix: Solid

Analysis Batch: 342249

Client Sample ID: AOC-2-N- (1'-2')

Prep Type: Total/NA

Prep Batch: 342155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.29	19.7	J	mg/Kg	☼	NC	50 - 177	24	50
PCB-1260	ND		2.29	ND		mg/Kg	☼	NC	33 - 200	NC	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	158	X	60 - 154
DCB Decachlorobiphenyl	0	X	65 - 174

TestAmerica Buffalo

QC Association Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

GC Semi VOA

Prep Batch: 342058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112848-1	AOC-2-W (1'-2')	Total/NA	Solid	3550C	
480-112848-2	AOC-2-E (1'-2')	Total/NA	Solid	3550C	
MB 480-342058/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-342058/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-112848-1 MS	AOC-2-W (1'-2')	Total/NA	Solid	3550C	
480-112848-1 MSD	AOC-2-W (1'-2')	Total/NA	Solid	3550C	

Analysis Batch: 342071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112848-1	AOC-2-W (1'-2')	Total/NA	Solid	8082A	342058
480-112848-2	AOC-2-E (1'-2')	Total/NA	Solid	8082A	342058
MB 480-342058/1-A	Method Blank	Total/NA	Solid	8082A	342058
LCS 480-342058/2-A	Lab Control Sample	Total/NA	Solid	8082A	342058
480-112848-1 MS	AOC-2-W (1'-2')	Total/NA	Solid	8082A	342058
480-112848-1 MSD	AOC-2-W (1'-2')	Total/NA	Solid	8082A	342058

Prep Batch: 342155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112893-1	AOC-2-N- (1'-2')	Total/NA	Solid	3550C	
480-112893-2	AOC-2-S- (1'-2')	Total/NA	Solid	3550C	
MB 480-342155/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-342155/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-112893-1 MS	AOC-2-N- (1'-2')	Total/NA	Solid	3550C	
480-112893-1 MSD	AOC-2-N- (1'-2')	Total/NA	Solid	3550C	

Analysis Batch: 342249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112893-1	AOC-2-N- (1'-2')	Total/NA	Solid	8082A	342155
480-112893-2	AOC-2-S- (1'-2')	Total/NA	Solid	8082A	342155
MB 480-342155/1-A	Method Blank	Total/NA	Solid	8082A	342155
LCS 480-342155/2-A	Lab Control Sample	Total/NA	Solid	8082A	342155
480-112893-1 MS	AOC-2-N- (1'-2')	Total/NA	Solid	8082A	342155
480-112893-1 MSD	AOC-2-N- (1'-2')	Total/NA	Solid	8082A	342155

General Chemistry

Analysis Batch: 342048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112848-1	AOC-2-W (1'-2')	Total/NA	Solid	Moisture	
480-112848-2	AOC-2-E (1'-2')	Total/NA	Solid	Moisture	

Analysis Batch: 342148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112893-1	AOC-2-N- (1'-2')	Total/NA	Solid	Moisture	
480-112893-2	AOC-2-S- (1'-2')	Total/NA	Solid	Moisture	

TestAmerica Buffalo

Lab Chronicle

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Client Sample ID: AOC-2-W (1'-2')

Date Collected: 01/30/17 14:30

Date Received: 01/31/17 09:30

Lab Sample ID: 480-112848-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	342048	01/31/17 12:02	CRC	TAL BUF

Client Sample ID: AOC-2-W (1'-2')

Date Collected: 01/30/17 14:30

Date Received: 01/31/17 09:30

Lab Sample ID: 480-112848-1

Matrix: Solid

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			342058	01/31/17 12:29	CAM	TAL BUF
Total/NA	Analysis	8082A		1	342071	01/31/17 16:57	JMO	TAL BUF

Client Sample ID: AOC-2-E (1'-2')

Date Collected: 01/30/17 15:45

Date Received: 01/31/17 09:30

Lab Sample ID: 480-112848-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	342048	01/31/17 12:02	CRC	TAL BUF

Client Sample ID: AOC-2-E (1'-2')

Date Collected: 01/30/17 15:45

Date Received: 01/31/17 09:30

Lab Sample ID: 480-112848-2

Matrix: Solid

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			342058	01/31/17 12:29	CAM	TAL BUF
Total/NA	Analysis	8082A		1	342071	01/31/17 17:13	JMO	TAL BUF

Client Sample ID: AOC-2-N- (1'-2')

Date Collected: 01/31/17 14:00

Date Received: 02/01/17 01:00

Lab Sample ID: 480-112893-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	342148	02/01/17 05:15	CSW	TAL BUF

Client Sample ID: AOC-2-N- (1'-2')

Date Collected: 01/31/17 14:00

Date Received: 02/01/17 01:00

Lab Sample ID: 480-112893-1

Matrix: Solid

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			342155	02/01/17 07:27	RJS	TAL BUF
Total/NA	Analysis	8082A		100	342249	02/01/17 15:36	KS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Client Sample ID: AOC-2-S- (1'-2')

Lab Sample ID: 480-112893-2

Date Collected: 01/31/17 14:15

Matrix: Solid

Date Received: 02/01/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	342148	02/01/17 05:15	CSW	TAL BUF

Client Sample ID: AOC-2-S- (1'-2')

Lab Sample ID: 480-112893-2

Date Collected: 01/31/17 14:15

Matrix: Solid

Date Received: 02/01/17 01:00

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			342155	02/01/17 07:27	RJS	TAL BUF
Total/NA	Analysis	8082A		5	342249	02/01/17 15:52	KS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112848-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-112848-1	AOC-2-W (1'-2')	Solid	01/30/17 14:30	01/31/17 09:30
480-112848-2	AOC-2-E (1'-2')	Solid	01/30/17 15:45	01/31/17 09:30
480-112893-1	AOC-2-N- (1'-2')	Solid	01/31/17 14:00	02/01/17 01:00
480-112893-2	AOC-2-S- (1'-2')	Solid	01/31/17 14:15	02/01/17 01:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: Ed Moloczniak		Lab PM: Deyo, Melissa L	Carrier Tracking No(s):		COC No: 480-90788-22142.2
Client Contact: Cecilia Byers		Phone: 518-938-6503		E-Mail: melissa.deyo@testamericainc.com	Page: 1 of 1		
Company: CB&I Constructors, Inc.		Due Date Requested:		Analysis Requested		Job #:	
Address: 500 Penn Center Blvd. Suite 1000		TAT Requested (days):		Preservation Codes:		A - HCL M - Hexane B - NaOH N - None C - Zn A - AsO2 D - Ni E - Ni F - M G - A H - A I - I J - D K - E L - EL Other: 480-112848 COC	
City: Pittsburgh		PO #: 115648 OS		WO #:		decalhydrate	
State, Zip: PA, 15235		Project #:		SSOW#:		3	
Phone: 412-258-3977		Email: cecilia.byers@CBI.com		Project Name: GE- Niskayuna		3	
Site:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
AOC-2-W(1'-2')		1-30-17		1430		G Solid	
AOC-2-E (1'-2')		1-30-17		1545		G Solid	
Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)	
Total Number of Containers		Total Number of Containers		Total Number of Containers		Total Number of Containers	
Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:	
West Wall near elec.		West Wall near elec.		West Wall near elec.		West Wall near elec.	
East wall		East wall		East wall		East wall	
Possible Hazard Identification		Possible Hazard Identification		Possible Hazard Identification		Possible Hazard Identification	
Non-Hazard		Non-Hazard		Non-Hazard		Non-Hazard	
Flammable		Flammable		Flammable		Flammable	
Skin Irritant		Skin Irritant		Skin Irritant		Skin Irritant	
Poison B		Poison B		Poison B		Poison B	
Unknown		Unknown		Unknown		Unknown	
Radiological		Radiological		Radiological		Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)		Deliverable Requested: I, II, III, IV, Other (specify)		Deliverable Requested: I, II, III, IV, Other (specify)		Deliverable Requested: I, II, III, IV, Other (specify)	
Empty Kit Relinquished by:		Empty Kit Relinquished by:		Empty Kit Relinquished by:		Empty Kit Relinquished by:	
Relinquished by: Ed Moloczniak		Relinquished by: Ed Moloczniak		Relinquished by: Ed Moloczniak		Relinquished by: Ed Moloczniak	
Date/Time: 1/30/17 1640		Date/Time: 1/30/17 1640		Date/Time: 1/30/17 1640		Date/Time: 1/30/17 1640	
Relinquished by: Tim Kelly		Relinquished by: Tim Kelly		Relinquished by: Tim Kelly		Relinquished by: Tim Kelly	
Date/Time: 1-30-17 1840		Date/Time: 1-30-17 1840		Date/Time: 1-30-17 1840		Date/Time: 1-30-17 1840	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Custody Seals Intact: Δ Yes Δ No		Custody Seals Intact: Δ Yes Δ No		Custody Seals Intact: Δ Yes Δ No		Custody Seals Intact: Δ Yes Δ No	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
718 #3		718 #3		718 #3		718 #3	

Login Sample Receipt Checklist

Client: CB&I Constructors, Inc.

Job Number: 480-112848-1

Login Number: 112848

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CBI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Constructors, Inc.

Job Number: 480-112848-1

Login Number: 112893

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CBI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-112996-1

Client Project/Site: GE - Niskayuna

For:

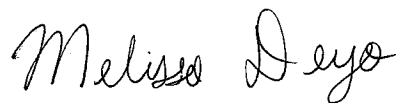
CB&I Constructors, Inc.

500 Penn Center Blvd

Suite 1000

Pittsburgh, Pennsylvania 15235

Attn: Cecilia Byers



Authorized for release by:

2/6/2017 9:03:57 AM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

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

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

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

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Definitions/Glossary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

Qualifiers

GC Semi VOA

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

Glossary

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

Case Narrative

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

Job ID: 480-112996-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-112996-1

Receipt

The samples were received on 2/3/2017 12:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2° C.

GC Semi VOA

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

Organic Prep

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

Detection Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

Client Sample ID: A-2-N- (1'-2')

Lab Sample ID: 480-112996-1

No Detections.

Client Sample ID: A-2-S- (1'-2')

Lab Sample ID: 480-112996-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.052	J	0.21	0.040	mg/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

Client Sample ID: A-2-N- (1'-2')

Date Collected: 02/02/17 15:00

Date Received: 02/03/17 00:30

Lab Sample ID: 480-112996-1

Matrix: Solid

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	02/03/17 07:15	02/03/17 21:33	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	02/03/17 07:15	02/03/17 21:33	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	02/03/17 07:15	02/03/17 21:33	1
PCB-1242	ND		0.24	0.048	mg/Kg	☼	02/03/17 07:15	02/03/17 21:33	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	02/03/17 07:15	02/03/17 21:33	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	02/03/17 07:15	02/03/17 21:33	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	02/03/17 07:15	02/03/17 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	122		60 - 154	02/03/17 07:15	02/03/17 21:33	1
DCB Decachlorobiphenyl	138		65 - 174	02/03/17 07:15	02/03/17 21:33	1

Client Sample ID: A-2-S- (1'-2')

Date Collected: 02/02/17 14:45

Date Received: 02/03/17 00:30

Lab Sample ID: 480-112996-2

Matrix: Solid

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg	☼	02/03/17 07:15	02/03/17 21:48	1
PCB-1221	ND		0.21	0.040	mg/Kg	☼	02/03/17 07:15	02/03/17 21:48	1
PCB-1232	ND		0.21	0.040	mg/Kg	☼	02/03/17 07:15	02/03/17 21:48	1
PCB-1242	ND		0.21	0.040	mg/Kg	☼	02/03/17 07:15	02/03/17 21:48	1
PCB-1248	0.052	J	0.21	0.040	mg/Kg	☼	02/03/17 07:15	02/03/17 21:48	1
PCB-1254	ND		0.21	0.096	mg/Kg	☼	02/03/17 07:15	02/03/17 21:48	1
PCB-1260	ND		0.21	0.096	mg/Kg	☼	02/03/17 07:15	02/03/17 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	125		60 - 154	02/03/17 07:15	02/03/17 21:48	1
DCB Decachlorobiphenyl	144		65 - 174	02/03/17 07:15	02/03/17 21:48	1

TestAmerica Buffalo

Surrogate Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (60-154)	DCB1 (65-174)
480-112996-1	A-2-N- (1'-2')	122	138
480-112996-2	A-2-S- (1'-2')	125	144
LCS 480-342516/2-A	Lab Control Sample	150	159
MB 480-342516/1-A	Method Blank	125	144

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

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

Lab Sample ID: MB 480-342516/1-A

Matrix: Solid

Analysis Batch: 342642

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 342516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg		02/03/17 07:15	02/03/17 19:15	1
PCB-1221	ND		0.21	0.040	mg/Kg		02/03/17 07:15	02/03/17 19:15	1
PCB-1232	ND		0.21	0.040	mg/Kg		02/03/17 07:15	02/03/17 19:15	1
PCB-1242	ND		0.21	0.040	mg/Kg		02/03/17 07:15	02/03/17 19:15	1
PCB-1248	ND		0.21	0.040	mg/Kg		02/03/17 07:15	02/03/17 19:15	1
PCB-1254	ND		0.21	0.097	mg/Kg		02/03/17 07:15	02/03/17 19:15	1
PCB-1260	ND		0.21	0.097	mg/Kg		02/03/17 07:15	02/03/17 19:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	125		60 - 154	02/03/17 07:15	02/03/17 19:15	1
DCB Decachlorobiphenyl	144		65 - 174	02/03/17 07:15	02/03/17 19:15	1

Lab Sample ID: LCS 480-342516/2-A

Matrix: Solid

Analysis Batch: 342642

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 342516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	2.19	3.31		mg/Kg		151	51 - 185
PCB-1260	2.19	3.18		mg/Kg		145	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	150		60 - 154
DCB Decachlorobiphenyl	159		65 - 174

TestAmerica Buffalo

QC Association Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

GC Semi VOA

Prep Batch: 342516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112996-1	A-2-N- (1'-2')	Total/NA	Solid	3550C	
480-112996-2	A-2-S- (1'-2')	Total/NA	Solid	3550C	
MB 480-342516/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-342516/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 342642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112996-1	A-2-N- (1'-2')	Total/NA	Solid	8082A	342516
480-112996-2	A-2-S- (1'-2')	Total/NA	Solid	8082A	342516
MB 480-342516/1-A	Method Blank	Total/NA	Solid	8082A	342516
LCS 480-342516/2-A	Lab Control Sample	Total/NA	Solid	8082A	342516

General Chemistry

Analysis Batch: 342501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112996-1	A-2-N- (1'-2')	Total/NA	Solid	Moisture	
480-112996-2	A-2-S- (1'-2')	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

Client Sample ID: A-2-N- (1'-2')

Date Collected: 02/02/17 15:00

Date Received: 02/03/17 00:30

Lab Sample ID: 480-112996-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	342501	02/03/17 02:31	CSW	TAL BUF

Client Sample ID: A-2-N- (1'-2')

Date Collected: 02/02/17 15:00

Date Received: 02/03/17 00:30

Lab Sample ID: 480-112996-1

Matrix: Solid

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			342516	02/03/17 07:15	RJS	TAL BUF
Total/NA	Analysis	8082A		1	342642	02/03/17 21:33	KS	TAL BUF

Client Sample ID: A-2-S- (1'-2')

Date Collected: 02/02/17 14:45

Date Received: 02/03/17 00:30

Lab Sample ID: 480-112996-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	342501	02/03/17 02:31	CSW	TAL BUF

Client Sample ID: A-2-S- (1'-2')

Date Collected: 02/02/17 14:45

Date Received: 02/03/17 00:30

Lab Sample ID: 480-112996-2

Matrix: Solid

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			342516	02/03/17 07:15	RJS	TAL BUF
Total/NA	Analysis	8082A		1	342642	02/03/17 21:48	KS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CB&I Constructors, Inc.
Project/Site: GE - Niskayuna

TestAmerica Job ID: 480-112996-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-112996-1	A-2-N- (1'-2')	Solid	02/02/17 15:00	02/03/17 00:30
480-112996-2	A-2-S- (1'-2')	Solid	02/02/17 14:45	02/03/17 00:30

Login Sample Receipt Checklist

Client: CB&I Constructors, Inc.

Job Number: 480-112996-1

Login Number: 112996

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CBI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix D

Analysis of Clean Fill



185 Industrial Road, Wrentham, MA 02093

P 508.384.6151 F 508.384.6028

SUBMITTAL COVER SHEET

Contractor shall fill out lines 1 through 5 below and secure this cover sheet to the submitted product data sheet, sample, shop drawing, or other items submitted to the Engineer. Each submittal line item of the Submittal Record Form, shall have its own Submittal cover sheet.

PROJECT NAME:	PCB Excavation Removal and Disposal – Global Research Center Niskayuna, New York
CONTRACTOR:	US Ecology, Inc. 185 Industrial Road Wrentham, MA 02093
ENGINEER:	CB&I Environmental and Infrastructure Engineering of NY PC 13 British American Boulevard, Latham, NY 12110
OWNER:	GE Global Research Center Niskayuna Campus 1 Research Circle, New York

1.	Date:	1/10/2017
2.	Submittal No.	CBI- 001
3.	Submitted Item:	Clean Fill Letter - RJ Valente <u>Common Fill</u> Clean Fill Letter, and William Larned & Sons <u>Type 4</u> and <u>#2 Crushed Stone</u> Clean Fill Letters
4.	Manufacturer:	
5.	Person Submitting:	Edwin J. Benton (Project Manager – US Ecology)
6.	Spec. Location:	Subparagraph:
7.	Engineer's Notes:	

Contractor's Stamp

Engineer's Stamp
No exceptions taken.
Revise as noted. Do not resubmit, See Notes above.
Revise as noted. Resubmit. See Notes above.
Rejected. See Notes above.
Checking of submittals is only conformance with the design concept of the Project and general compliance with the information given in Contract Documents. Any action shown is subject to the requirements of the Drawings and Specifications; Contractor is responsible for dimensions to be confirmed and correlated at the job site, quantities, information that pertains solely to the fabrication processes or to the techniques of construction, coordination of the work of all trades, and the satisfactory performance of his work.
By/Date:



RJ VALENTE GRAVEL Inc 621 COLUMBIA
ST EXT

COHOES NY 12047
PHONE 518-432-4470
FAX - 518-432-4901
STONE QUARRY
PHONE - 518-279-1001
FAX - 518-279-1555



TO WHOM IT MAY CONCERN:

***As per your request, please accept this correspondence as follows:
For the GE Global Research Center in Niskayuna, NY.***

***All imported materials to be delivered to the above referenced
project, do not, to the best of our knowledge contain any known
contamination from prior historical, industrial, commercial
development or agricultural use prior to delivery.***

***The fill material originates from the following virgin sand and
gravel pit:
Ruchlicki Pit as designated by the NYS DEC at, Liebich La.
Halfmoon NY 12188.***

STEPHEN A VALENTE

WILLIAM M. LARNED & SONS, INC.

544 Burdeck Street
Schenectady, New York 12306
Phone: (518) 374-6961
Fax: (518) 393-4722

Excavating

Sand & Gravel

January 10, 2017

Ed Benton, Project Manager
US Ecology
185 Industrial Road
Wrentham, MA 02093

RE: GE Global Research Center in Niskayuna, New York.

Dear Mr. Benton,

As per your request, please accept this correspondence as follows:

The Type 4 Gravel to be supplied by William M. Larned & Sons, Inc. and delivered to the above reference project, originates from our virgin gravel bank located on South Street (Co. Hwy 101) in South Bethlehem, New York.

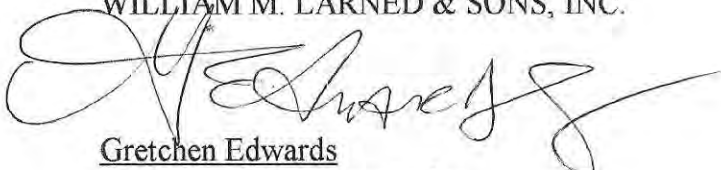
The #2 Crushed Stone will be supplied from Cushing Stone, a virgin quarry located on Route 5S in Amsterdam, New York.

The Type 4 Gravel and the #2 Crushed Stone, do not, to the best of our knowledge, contain any known contamination from prior historical, industrial, commercial development or agricultural use prior to delivery.

If I can be of further assistance or you have any questions, please do not hesitate to contact me at your convenience at (518) 374-6961. Thank you.

Very Truly Yours,

WILLIAM M. LARNED & SONS, INC.



Gretchen Edwards
Authorized Representative



185 Industrial Road, Wrentham, MA 02093

P 508.384.6151 F 508.384.6028

SUBMITTAL COVER SHEET

Contractor shall fill out lines 1 through 5 below and secure this cover sheet to the submitted product data sheet, sample, shop drawing, or other items submitted to the Engineer. Each submittal line item of the Submittal Record Form, shall have its own Submittal cover sheet.

PROJECT NAME:	PCB Excavation Removal and Disposal – Global Research Center Niskayuna, New York
CONTRACTOR:	US Ecology, Inc. 185 Industrial Road Wrentham, MA 02093
ENGINEER:	CB&I Environmental and Infrastructure Engineering of NY PC 13 British American Boulevard, Latham, NY 12110
OWNER:	GE Global Research Center Niskayuna Campus 1 Research Circle, New York

1.	Date:	1/10/2017
2.	Submittal No.	CBI- 002
3.	Submitted Item:	Analytical and Materials Testing RJ Valente <u>Common Fill</u> , and William Larned & Sons <u>Type 4</u>
4.	Manufacturer:	
5.	Person Submitting:	Edwin J. Benton (Project Manager – US Ecology)
6.	Spec. Location:	Subparagraph:
7.	Engineer's Notes:	

Contractor's Stamp

Engineer's Stamp	
	No exceptions taken.
	Revise as noted. Do not resubmit, See Notes above.
	Revise as noted. Resubmit. See Notes above.
	Rejected. See Notes above.
Checking of submittals is only conformance with the design concept of the Project and general compliance with the information given in Contract Documents. Any action shown is subject to the requirements of the Drawings and Specifications; Contractor is responsible for dimensions to be confirmed and correlated at the job site, quantities, information that pertains solely to the fabrication processes or to the techniques of construction, coordination of the work of all trades, and the satisfactory performance of his work.	
By/Date:	



CERTIFICATE OF ANALYSIS

RJ VALENTE - COMMON FILL SOURCE

Edwin Benton
EQ Northeast, Inc.
185 Industrial Road, P.O. Box 617
Wrentham, MA 02093

RE: GE Main Plant (N/A)
ESS Laboratory Work Order Number: 1611321

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 5:20 pm, Nov 16, 2016

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

SAMPLE RECEIPT

The following samples were received on November 10, 2016 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1611321-01	USE-CF-VL-PH3-11102016	Soil	2580, 6010C, 6020A, 7196A, 7471B, 8081B, 8082A, 8260B, 8270D, 9014, 9045, Calc



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

PROJECT NARRATIVE

8270D Semi-Volatile Organic Compounds

CZK0184-CCV1 [Calibration required quadratic regression \(Q\).](#)
2,4,6-Tribromophenol (106% @ 70-130%), Pentachlorophenol (89% @ 80-120%)
CZK0238-CCV1 [Calibration required quadratic regression \(Q\).](#)
Pentachlorophenol (91% @ 80-120%)
CZK0238-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)
2-Fluorophenol (24% @ 30%)

Total Metals

CK61107-BS1 [Blank Spike recovery is below lower control limit \(B-\).](#)
Manganese (73% @ 80-120%)
CK61107-BS2 [Blank Spike recovery is below lower control limit \(B-\).](#)
Cadmium (75% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)
[Semivolatile Organics Internal Standard Information](#)
[Semivolatile Organics Surrogate Information](#)
[Volatile Organics Internal Standard Information](#)
[Volatile Organics Surrogate Information](#)
[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-VL-PH3-11102016
Date Sampled: 11/10/16 12:00
Percent Solids: 94

ESS Laboratory Work Order: 1611321
ESS Laboratory Sample ID: 1611321-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (2.56)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Barium	14.9 (2.56)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Beryllium	0.22 (0.11)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Cadmium	ND (0.51)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Chromium	5.01 (1.02)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Chromium (III)	5.0 (1.0)		Calc		1	JLK	11/15/16 18:29	1	1	[CALC]
Copper	7.85 (2.56)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Lead	ND (5.11)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Manganese	231 (1.02)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Mercury	ND (0.034)		7471B		1	MJV	11/14/16 15:51	0.62	40	CK61109
Nickel	6.60 (2.56)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Selenium	ND (0.51)		6020A		20	NAR	11/13/16 19:57	2.09	100	CK61107
Silver	ND (0.51)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107
Zinc	20.6 (2.56)		6010C		1	NAR	11/15/16 18:29	2.09	100	CK61107



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-VL-PH3-11102016
Date Sampled: 11/10/16 12:00
Percent Solids: 94
Initial Volume: 21.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1611321
ESS Laboratory Sample ID: 1611321-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1-Trichloroethane	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,1-Dichloroethane	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,1-Dichloroethene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,2,4-Trimethylbenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,2-Dichlorobenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,2-Dichloroethane	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,3,5-Trimethylbenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,3-Dichlorobenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,4-Dichlorobenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
1,4-Dioxane	ND (0.0252)		8260B		1	11/15/16 15:24	CZK0229	CK61531
2-Butanone	ND (0.0025)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Acetone	ND (0.0025)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Benzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Carbon Tetrachloride	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Chlorobenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Chloroform	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
cis-1,2-Dichloroethene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Ethylbenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Methyl tert-Butyl Ether	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Methylene Chloride	ND (0.0063)		8260B		1	11/15/16 15:24	CZK0229	CK61531
n-Butylbenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
n-Propylbenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
sec-Butylbenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
tert-Butylbenzene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Tetrachloroethene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Toluene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
trans-1,2-Dichloroethene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Trichloroethene	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Vinyl Chloride	ND (0.0025)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Xylene O	ND (0.0013)		8260B		1	11/15/16 15:24	CZK0229	CK61531
Xylene P,M	ND (0.0025)		8260B		1	11/15/16 15:24	CZK0229	CK61531



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-VL-PH3-11102016
Date Sampled: 11/10/16 12:00
Percent Solids: 94
Initial Volume: 21.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1611321
ESS Laboratory Sample ID: 1611321-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
Surrogate: 1,2-Dichloroethane-d4		120 %		70-130				
Surrogate: 4-Bromofluorobenzene		103 %		70-130				
Surrogate: Dibromofluoromethane		107 %		70-130				
Surrogate: Toluene-d8		105 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-VL-PH3-11102016
Date Sampled: 11/10/16 12:00
Percent Solids: 94
Initial Volume: 19.5
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1611321
ESS Laboratory Sample ID: 1611321-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 11/11/16 11:11

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
4,4'-DDE	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
4,4'-DDT	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
Aldrin	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
alpha-BHC	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
alpha-Chlordane	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
beta-BHC	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
delta-BHC	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
Dieldrin	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
Endosulfan I	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
Endosulfan II	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
Endosulfan Sulfate	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
Endrin	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	11/12/16 2:34	CZK0194	CK61117
Heptachlor	ND (0.0027)		8081B		1	11/12/16 2:34	CZK0194	CK61117

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>93 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>109 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>86 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>88 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-VL-PH3-11102016
Date Sampled: 11/10/16 12:00
Percent Solids: 94
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1611321
ESS Laboratory Sample ID: 1611321-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SMR
Prepared: 11/11/16 16:22

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	11/14/16 15:23		CK61112
Aroclor 1221	ND (0.06)		8082A		1	11/14/16 15:23		CK61112
Aroclor 1232	ND (0.06)		8082A		1	11/14/16 15:23		CK61112
Aroclor 1242	ND (0.06)		8082A		1	11/14/16 15:23		CK61112
Aroclor 1248	ND (0.06)		8082A		1	11/14/16 15:23		CK61112
Aroclor 1254	ND (0.06)		8082A		1	11/14/16 15:23		CK61112
Aroclor 1260	ND (0.06)		8082A		1	11/14/16 15:23		CK61112
Aroclor 1262	ND (0.06)		8082A		1	11/14/16 15:23		CK61112
Aroclor 1268	ND (0.06)		8082A		1	11/14/16 15:23		CK61112

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Decachlorobiphenyl	85 %		30-150
Surrogate: Decachlorobiphenyl [2C]	85 %		30-150
Surrogate: Tetrachloro-m-xylene	78 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	79 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-VL-PH3-11102016
Date Sampled: 11/10/16 12:00
Percent Solids: 94
Initial Volume: 14.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1611321
ESS Laboratory Sample ID: 1611321-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 11/11/16 10:08

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylphenol	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
3+4-Methylphenol	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Acenaphthene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Acenaphthylene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Anthracene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Benzo(a)anthracene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Benzo(a)pyrene	ND (0.180)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Benzo(b)fluoranthene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Benzo(g,h,i)perylene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Benzo(k)fluoranthene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Chrysene	ND (0.180)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Dibenzo(a,h)Anthracene	ND (0.180)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Dibenzofuran	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Fluoranthene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Fluorene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Hexachlorobenzene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Indeno(1,2,3-cd)Pyrene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Naphthalene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Pentachlorophenol	ND (0.861)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Phenanthrene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Phenol	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116
Pyrene	ND (0.358)		8270D		1	11/16/16 14:58	CZK0238	CK61116

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	62 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	31 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	63 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	62 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	62 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	66 %		30-130
<i>Surrogate: Phenol-d6</i>	65 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	78 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-VL-PH3-11102016
Date Sampled: 11/10/16 12:00
Percent Solids: 94

ESS Laboratory Work Order: 1611321
ESS Laboratory Sample ID: 1611321-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	7.62 (N/A)		9045		1	JLK	11/10/16 22:05	S.U.	CK61054
Corrosivity (pH) Sample Temp	Soil pH measured in water at 19.9 °C.								
Hexavalent Chromium	ND (0.4)		7196A		1	JLK	11/14/16 17:01	mg/kg dry	CK61442
Redox Potential	WL 200 (N/A)		2580		1	JLK	11/10/16 22:05	mv	CK61055
Total Cyanide	ND (1.03)		9014		1	EEM	11/14/16 11:40	mg/kg dry	CK61428



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch CK61107 - 3050B

Blank

Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Chromium (III)	ND	1.0	mg/kg wet							
Copper	ND	2.50	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Manganese	ND	1.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	0.50	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							

LCS

Arsenic	141	9.09	mg/kg wet	161.0		88	80-120			
Barium	415	9.09	mg/kg wet	351.0		118	80-120			
Beryllium	82.7	0.40	mg/kg wet	89.40		92	80-120			
Cadmium	162	1.82	mg/kg wet	190.0		85	80-120			
Chromium	84.5	3.64	mg/kg wet	87.90		96	80-120			
Chromium (III)	84.5	3.6	mg/kg wet							
Copper	244	9.09	mg/kg wet	258.0		95	80-120			
Lead	131	18.2	mg/kg wet	138.0		95	80-120			
Manganese	1210	3.64	mg/kg wet	1660		73	80-120			B-
Nickel	121	9.09	mg/kg wet	127.0		96	80-120			
Selenium	359	22.7	mg/kg wet	305.0		118	80-120			
Silver	54.5	1.82	mg/kg wet	58.00		94	80-120			
Zinc	160	9.09	mg/kg wet	173.0		92	80-120			

LCS

Arsenic	81.0	9.80	mg/kg wet	97.50		83	80-120			
Barium	271	9.80	mg/kg wet	306.0		89	80-120			
Beryllium	85.5	0.43	mg/kg wet	100.0		86	80-120			
Cadmium	57.6	1.96	mg/kg wet	76.60		75	80-120			B-
Chromium	92.0	3.92	mg/kg wet	103.0		89	80-120			
Chromium (III)	92.0	3.9	mg/kg wet							
Copper	93.9	9.80	mg/kg wet	108.0		87	80-120			
Lead	84.4	19.6	mg/kg wet	96.70		87	80-120			
Manganese	350	3.92	mg/kg wet	400.0		87	80-120			
Nickel	128	9.80	mg/kg wet	153.0		83	80-120			
Silver	43.1	1.96	mg/kg wet	49.30		87	80-120			
Zinc	192	9.80	mg/kg wet	229.0		84	80-120			

LCS Dup

Arsenic	142	8.47	mg/kg wet	161.0		88	80-120	1	20	
Barium	399	8.47	mg/kg wet	351.0		114	80-120	4	20	
Beryllium	80.8	0.37	mg/kg wet	89.40		90	80-120	2	20	



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch CK61107 - 3050B

Cadmium	163	1.69	mg/kg wet	190.0		86	80-120	0.4	20	
Chromium	84.6	3.39	mg/kg wet	87.90		96	80-120	0.1	20	
Chromium (III)	84.6	3.4	mg/kg wet							
Copper	244	8.47	mg/kg wet	258.0		95	80-120	0.08	20	
Lead	130	16.9	mg/kg wet	138.0		94	80-120	0.4	20	
Manganese	1340	3.39	mg/kg wet	1660		80	80-120	10	20	
Nickel	118	8.47	mg/kg wet	127.0		93	80-120	3	20	
Selenium	326	21.2	mg/kg wet	305.0		107	80-120	10	30	
Silver	54.7	1.69	mg/kg wet	58.00		94	80-120	0.3	20	
Zinc	156	8.47	mg/kg wet	173.0		90	80-120	3	20	

LCS Dup

Arsenic	88.0	10.0	mg/kg wet	97.50		90	80-120	8	20	
Barium	294	10.0	mg/kg wet	306.0		96	80-120	8	20	
Beryllium	92.7	0.44	mg/kg wet	100.0		93	80-120	8	20	
Cadmium	64.1	2.00	mg/kg wet	76.60		84	80-120	11	20	
Chromium	100	4.00	mg/kg wet	103.0		97	80-120	8	20	
Chromium (III)	100	4.0	mg/kg wet							
Copper	103	10.0	mg/kg wet	108.0		95	80-120	9	20	
Lead	91.8	20.0	mg/kg wet	96.70		95	80-120	8	20	
Manganese	368	4.00	mg/kg wet	400.0		92	80-120	5	20	
Nickel	142	10.0	mg/kg wet	153.0		93	80-120	11	20	
Silver	48.0	2.00	mg/kg wet	49.30		97	80-120	11	20	
Zinc	209	10.0	mg/kg wet	229.0		91	80-120	8	20	

Batch CK61109 - 7471B

Blank

Mercury	ND	0.033	mg/kg wet							
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LCS

Mercury	16.9	1.87	mg/kg wet	15.90		106	80-120			
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LCS Dup

Mercury	18.0	1.90	mg/kg wet	15.90		113	80-120	6	20	
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Batch CK61442 - [CALC]

Blank

Chromium (III)	ND	0.7	mg/kg wet							
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LCS

Chromium (III)	ND	0.7	mg/kg wet							
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LCS Dup

Chromium (III)	ND	0.7	mg/kg wet							
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Reference

Chromium (III)	ND	2.0	mg/kg wet							
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK61531 - 5035



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK61531 - 5035

Blank

1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0544		mg/kg wet	0.05000		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.0529		mg/kg wet	0.05000		106	70-130			
Surrogate: Dibromofluoromethane	0.0514		mg/kg wet	0.05000		103	70-130			
Surrogate: Toluene-d8	0.0526		mg/kg wet	0.05000		105	70-130			

LCS

1,1,1-Trichloroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,1-Dichloroethane	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,1-Dichloroethene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,4-Trimethylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dichlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloroethane	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,3,5-Trimethylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,3-Dichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK61531 - 5035

1,4-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,4-Dioxane	0.888	0.100	mg/kg wet	1.000		89	70-130			
2-Butanone	0.236	0.0100	mg/kg wet	0.2500		95	70-130			
Acetone	0.262	0.0100	mg/kg wet	0.2500		105	70-130			
Benzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Carbon Tetrachloride	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Chlorobenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
Chloroform	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
cis-1,2-Dichloroethene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Ethylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
Methyl tert-Butyl Ether	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Methylene Chloride	0.0590	0.0250	mg/kg wet	0.05000		118	70-130			
n-Butylbenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
n-Propylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
sec-Butylbenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
tert-Butylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Tetrachloroethene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Toluene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
trans-1,2-Dichloroethene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
Trichloroethene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Vinyl Chloride	0.0556	0.0100	mg/kg wet	0.05000		111	70-130			
Xylene O	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
Xylene P,M	0.0958	0.0100	mg/kg wet	0.1000		96	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0529		mg/kg wet	0.05000		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0477		mg/kg wet	0.05000		95	70-130			
Surrogate: Dibromofluoromethane	0.0501		mg/kg wet	0.05000		100	70-130			
Surrogate: Toluene-d8	0.0465		mg/kg wet	0.05000		93	70-130			

LCS Dup

1,1,1-Trichloroethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	8	25	
1,1-Dichloroethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	5	25	
1,1-Dichloroethene	0.0537	0.0050	mg/kg wet	0.05000		107	70-130	7	25	
1,2,4-Trimethylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	4	25	
1,2-Dichlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
1,2-Dichloroethane	0.0574	0.0050	mg/kg wet	0.05000		115	70-130	5	25	
1,3,5-Trimethylbenzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	4	25	
1,3-Dichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
1,4-Dichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
1,4-Dioxane	0.946	0.100	mg/kg wet	1.000		95	70-130	6	20	
2-Butanone	0.256	0.0100	mg/kg wet	0.2500		102	70-130	8	25	
Acetone	0.314	0.0100	mg/kg wet	0.2500		125	70-130	18	25	
Benzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	5	25	
Carbon Tetrachloride	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	6	25	
Chlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	7	25	
Chloroform	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	4	25	
cis-1,2-Dichloroethene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	6	25	



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK61531 - 5035

Ethylbenzene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	7	25	
Methyl tert-Butyl Ether	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	3	25	
Methylene Chloride	0.0624	0.0250	mg/kg wet	0.05000		125	70-130	6	25	
n-Butylbenzene	0.0558	0.0050	mg/kg wet	0.05000		112	70-130	6	25	
n-Propylbenzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	5	25	
sec-Butylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	6	25	
tert-Butylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	6	25	
Tetrachloroethene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	9	25	
Toluene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	6	25	
trans-1,2-Dichloroethene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	5	25	
Trichloroethene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	6	25	
Vinyl Chloride	0.0589	0.0100	mg/kg wet	0.05000		118	70-130	6	25	
Xylene O	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	9	25	
Xylene P,M	0.103	0.0100	mg/kg wet	0.1000		103	70-130	7	25	
Surrogate: 1,2-Dichloroethane-d4	0.0507		mg/kg wet	0.05000		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/kg wet	0.05000		97	70-130			
Surrogate: Dibromofluoromethane	0.0494		mg/kg wet	0.05000		99	70-130			
Surrogate: Toluene-d8	0.0463		mg/kg wet	0.05000		93	70-130			

8081B Organochlorine Pesticides

Batch CK61117 - 3546

Blank										
4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch CK61117 - 3546

Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0115		mg/kg wet	0.01250		92	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0121		mg/kg wet	0.01250		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0116		mg/kg wet	0.01250		93	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0118		mg/kg wet	0.01250		94	30-150			

LCS

4,4'-DDD	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
4,4'-DDD [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
4,4'-DDE	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
4,4'-DDE [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
4,4'-DDT	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
4,4'-DDT [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
Aldrin	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Aldrin [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
alpha-BHC	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
alpha-BHC [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
alpha-Chlordane	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
alpha-Chlordane [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
beta-BHC	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
beta-BHC [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
delta-BHC	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
delta-BHC [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Dieldrin	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Dieldrin [2C]	0.0133	0.0025	mg/kg wet	0.01250		107	40-140			
Endosulfan I	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan I [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endosulfan II	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
Endosulfan II [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endosulfan Sulfate	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
Endosulfan Sulfate [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
Endrin	0.0128	0.0025	mg/kg wet	0.01250		103	40-140			
Endrin [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
gamma-BHC (Lindane)	0.0123	0.0015	mg/kg wet	0.01250		98	40-140			
gamma-BHC (Lindane) [2C]	0.0127	0.0015	mg/kg wet	0.01250		102	40-140			
Heptachlor	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Heptachlor [2C]	0.0124	0.0025	mg/kg wet	0.01250		100	40-140			

Surrogate: Decachlorobiphenyl	0.0132		mg/kg wet	0.01250		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0139		mg/kg wet	0.01250		111	30-150			



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch CK61117 - 3546

Surrogate: Tetrachloro-m-xylene	0.0126		mg/kg wet	0.01250		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0127		mg/kg wet	0.01250		102	30-150			

LCS Dup

4,4'-DDD	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	10	30	
4,4'-DDD [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	10	30	
4,4'-DDE	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	9	30	
4,4'-DDE [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	9	30	
4,4'-DDT	0.0144	0.0025	mg/kg wet	0.01250		115	40-140	8	30	
4,4'-DDT [2C]	0.0143	0.0025	mg/kg wet	0.01250		115	40-140	7	30	
Aldrin	0.0132	0.0025	mg/kg wet	0.01250		106	40-140	6	30	
Aldrin [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	8	30	
alpha-BHC	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	4	30	
alpha-BHC [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	6	30	
alpha-Chlordane	0.0133	0.0025	mg/kg wet	0.01250		107	40-140	10	30	
alpha-Chlordane [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	9	30	
beta-BHC	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	3	30	
beta-BHC [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	8	30	
delta-BHC	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	6	30	
delta-BHC [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	9	30	
Dieldrin	0.0147	0.0025	mg/kg wet	0.01250		117	40-140	11	30	
Dieldrin [2C]	0.0146	0.0025	mg/kg wet	0.01250		117	40-140	9	30	
Endosulfan I	0.0135	0.0025	mg/kg wet	0.01250		108	40-140	9	30	
Endosulfan I [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	9	30	
Endosulfan II	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	10	30	
Endosulfan II [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	10	30	
Endosulfan Sulfate	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	9	30	
Endosulfan Sulfate [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	9	30	
Endrin	0.0139	0.0025	mg/kg wet	0.01250		112	40-140	8	30	
Endrin [2C]	0.0141	0.0025	mg/kg wet	0.01250		113	40-140	8	30	
gamma-BHC (Lindane)	0.0130	0.0015	mg/kg wet	0.01250		104	40-140	6	30	
gamma-BHC (Lindane) [2C]	0.0137	0.0015	mg/kg wet	0.01250		109	40-140	7	30	
Heptachlor	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	4	30	
Heptachlor [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	5	30	

Surrogate: Decachlorobiphenyl	0.0144		mg/kg wet	0.01250		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0151		mg/kg wet	0.01250		121	30-150			
Surrogate: Tetrachloro-m-xylene	0.0133		mg/kg wet	0.01250		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0131		mg/kg wet	0.01250		105	30-150			

8082A Polychlorinated Biphenyls (PCB)

Batch CK61112 - 3540C

Blank

Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch CK61112 - 3540C

Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0226		mg/kg wet	0.02500		90	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0216		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0197		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0199		mg/kg wet	0.02500		79	30-150			

LCS

Aroclor 1016	0.6	0.05	mg/kg wet	0.5000		124	40-140			
Aroclor 1260	0.6	0.05	mg/kg wet	0.5000		115	40-140			
Surrogate: Decachlorobiphenyl	0.0228		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0230		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0203		mg/kg wet	0.02500		81	30-150			

LCS Dup

Aroclor 1016	0.6	0.05	mg/kg wet	0.5000		122	40-140	1	30	
Aroclor 1260	0.6	0.05	mg/kg wet	0.5000		115	40-140	0.2	30	
Surrogate: Decachlorobiphenyl	0.0229		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0231		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.0219		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0205		mg/kg wet	0.02500		82	30-150			

8270D Semi-Volatile Organic Compounds

Classical Chemistry

Batch CK61428 - TCN Prep

Blank

Total Cyanide	ND	1.00	mg/kg wet							
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LCS

Total Cyanide	4.94	1.00	mg/kg wet	5.015		98	90-110			
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Reference

Total Cyanide	49.0	4.87	mg/kg wet	48.40		101	36.1577-206.612			
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Reference

Total Cyanide	48.5	4.89	mg/kg wet	48.40		100	36.1577-206.612			
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Batch CK61442 - General Preparation

Blank



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Classical Chemistry

Batch CK61442 - General Preparation

Hexavalent Chromium	ND	0.7	mg/kg wet							
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LCS

Hexavalent Chromium	32.2	0.7	mg/kg wet	33.32		97	80-120			
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LCS Dup

Hexavalent Chromium	32.0	0.7	mg/kg wet	33.32		96	80-120	0.5	20	
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Reference

Hexavalent Chromium	69.1	2.0	mg/kg wet	71.00		97	20.3-222.5			
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CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

Notes and Definitions

Z-10	Soil pH measured in water at 19.9 °C.
WL	Results obtained from a deionized water leach of the sample.
U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611321

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

PESTICIDES BREAKDOWN CHECK SUMMARY

Data File Name GI060231.D
 Data File Path Q:\SVOA\GC7_GI\DATA\GI1116\GI111116\
 Date Acquired 11-11-2016 08:20:14 PM
 Sample Name **CZK0194-PEM1**
 Instrument Name SVOAGC7

# Name	Ret Time 1	Ret Time 2	Response 1	Response 2
1) Tetrachloro-m-xylene	6.07	7.35	4516791604	1587978293
13) 4,4'-DDE	11.98	13.80	43281734.39	2571492.912
16) Endrin	13.11	15.11	7182759212	2570425831
17) 4,4'-DDD	13.27	15.28	483435328.2	202329218
19) 4,4'-DDT	13.86	15.96	5352335712	2070087058
20) Endrin Aldehyde	14.49	16.30	24986535.98	9780689.946
23) Endrin Ketone	16.02	18.10	144936004.7	55341011.84
29) Decachlorobiphenyl	18.16	21.30	1928895623	963151930.6

Breakdown Column 1

Endrin: 2.31 % **PASS**
 4,4'-DDT: 8.96 % **PASS**

Breakdown Column 2

Endrin: 2.47 % **PASS**
 4,4'-DDT: 9.01 % **PASS**

Passing Criteria (for each column):
 Individual breakdown is not to exceed 15.0%

PESTICIDES BREAKDOWN CHECK SUMMARY

Data File Name GI060259.D
 Data File Path Q:\SVOA\GC7_GI\DATA\GI1116\GI111416\
 Date Acquired 14 Nov 2016 11:24 am
 Sample Name **CZK0197-PEM1**
 Instrument Name SVOAGC7

# Name	Ret Time 1	Ret Time 2	Response 1	Response 2
1) Tetrachloro-m-xylene	6.07	7.35	4784389460	1669763523
13) 4,4'-DDE	11.97	13.80	44207672.45	3124799.597
16) Endrin	13.11	15.11	7198443004	2593840359
17) 4,4'-DDD	13.27	15.27	534887366.3	204767939.7
19) 4,4'-DDT	13.86	15.96	5414914536	2099460290
20) Endrin Aldehyde	14.49	16.27	12704650.96	4370398.133
23) Endrin Ketone	16.01	18.09	156362577.6	64392385.95
29) Decachlorobiphenyl	18.15	21.30	1975735766	1004904689

Breakdown Column 1

Endrin: 2.29 % **PASS**
 4,4'-DDT: 9.66 % **PASS**

Breakdown Column 2

Endrin: 2.58 % **PASS**
 4,4'-DDT: 9.01 % **PASS**

Passing Criteria (for each column):
 Individual breakdown is not to exceed 15.0%

ESS Laboratory Sample and Cooler Receipt Checklist

Client: EQ Northeast, Inc. - KPB/TB/MM
 Shipped/Delivered Via: Client

ESS Project ID: 1611321
 Date Received: 11/10/2016
 Project Due Date: 11/17/2016
 Days for Project: 5 Day

1. Air bill manifest present? ☐ No
 Air No.: NA
2. Were custody seals present? ☐ NA
3. Is radiation count <100 CPM? ☐ Yes
4. Is a Cooler Present? ☐ Yes
 Temp: 5.2 Iced with: Ice
5. Was COC signed and dated by client? ☐ Yes

6. Does COC match bottles? ☐ Yes
7. Is COC complete and correct? ☐ Yes
8. Were samples received intact? ☐ Yes
9. Were labs informed about **short holds & rushes**? ☒ Yes / No / NA
10. Were any analyses received outside of hold time? Yes ☒ No

11. Any Subcontracting needed? Yes / ☒ No
 ESS Sample IDs: _____
 Analysis: _____
 TAT: _____

12. Were VOAs received? ☒ Yes / No
 a. Air bubbles in aqueous VOAs? Yes / ☒ No
 b. Does methanol cover soil completely? ☒ Yes / No / NA

13. Are the samples properly preserved? ☒ Yes / No
 a. If metals preserved upon receipt: Date: 11/10/16
 b. Low Level VOA vials frozen: Date: 11/10/16

Time: 1824 By: JL

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / ☒ No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	82795	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
01	82796	Yes	NA	Yes	VOA Vial - Other	Other	
01	82797	Yes	NA	Yes	VOA Vial - Other	Other	
01	82798	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	82799	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	82800	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review

Are barcode labels on correct containers? ☒ Yes / No

Completed By: [Signature] Date & Time: 11/10/16 1821
 Reviewed By: [Signature] Date & Time: 11/10/16 1824
 Delivered By: [Signature] Date & Time: 11/10/16 1824

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D. & T.S., INC.

4 William Street, Ballston Lake, New York 12019

Phone: (518) 399-1848 Fax: (518) 399-1913

RJ VALENTE - COMMON FILL SOURCE

CLIENT: **US ECOLOGY**
185 INDUSTRIAL ROAD
WRENTHAM, MASSACHUSETTS 02093

REPORT DATE: 11/14/16
SAMPLE NUMBER: 16994
OUR FILE NO: 1605.001

ATTN: MR. ED BENTON

Tam Joslin
REVIEWED BY: TOM JOSLIN, SET, NICET

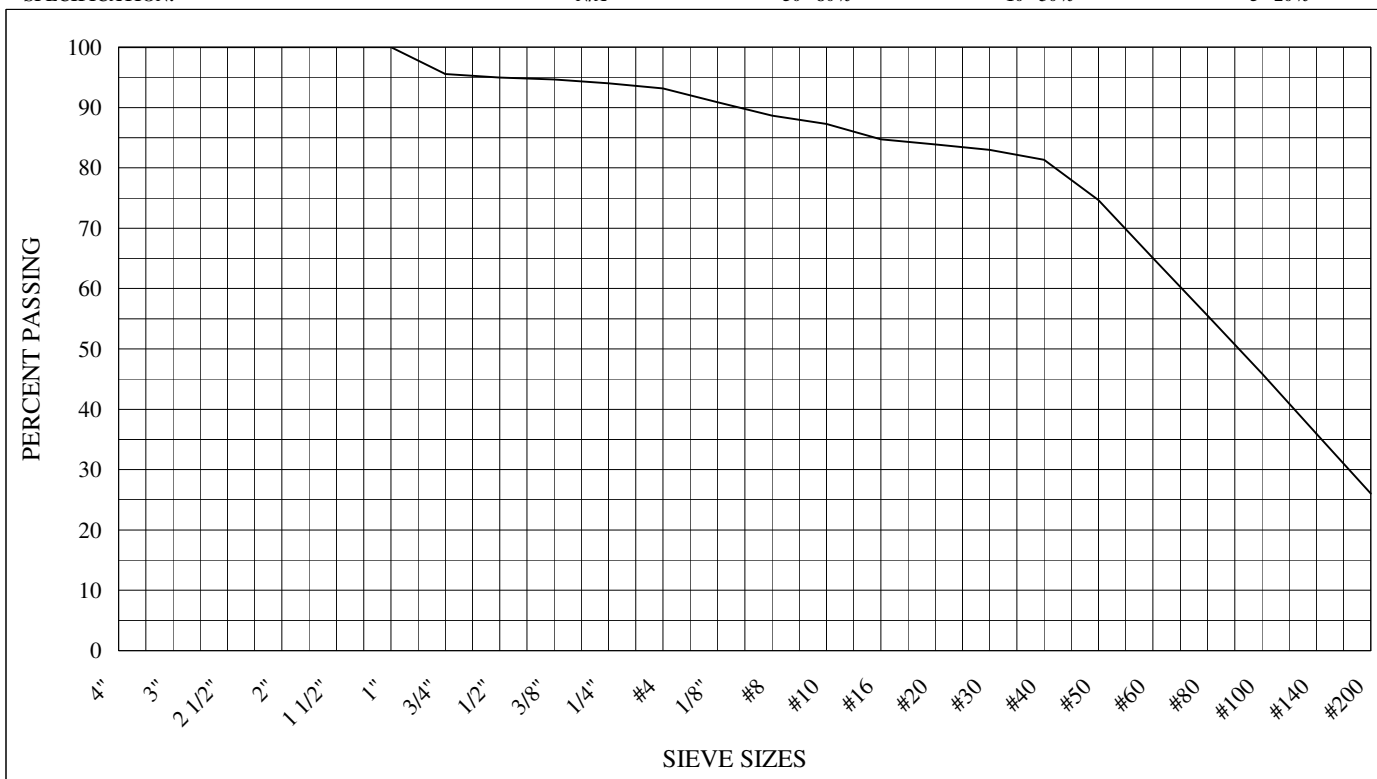
PROJECT: **GENERAL ELECTRIC: MAIN PLANT: SCHENECTADY, NEW YORK**

ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

MATERIAL SOURCE: **CLIENT ID: COMMON FILL: VALENTE**
MATERIAL DESCRIPTION: SAND, fine; some Silt/Clay; trace fine Gravel
MATERIAL PROJECT USE: FILLS/BACKFILLS
EVALUATION SPECIFICATION: PROJECT SPECIFICATIONS

COARSE SIEVE SERIES: US STANDARD				MEDIUM SIEVE SERIES: US STANDARD				FINE SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE	SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE	SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"				1/4"	6.0	94.0		#50	25.4	74.6	
3"		100.0	100 - 100	#4	6.8	93.2		#60			
2 1/2"				1/8"				#80			
2"		100.0		#8	11.3	88.7		#100	54.1	45.9	
1 1/2"				#10				#140			
1"		100.0		#16	15.3	84.7		#200	74.0	26.0	
3/4"	4.5	95.5		#20				SILT			
1/2"	5.1	94.9		#30	17.0	83.0		CLAY			
3/8"	5.3	94.7		#40	18.7	81.3		COLLOID			

ASTM D-422	ASTM D-422	ASTM D-422	ASTM D-422
PERCENT GRAVEL	PERCENT SAND	PERCENT SILT	PERCENT CLAY
6.8%	67.1%	17.7%	8.3%
SPECIFICATION: N/A	50 - 80%	10 - 30%	5 - 20%





CERTIFICATE OF ANALYSIS

Edwin Benton
EQ Northeast, Inc.
185 Industrial Road, P.O. Box 617
Wrentham, MA 02093

RE: GE Main Plant (N/A)
ESS Laboratory Work Order Number: 1611252

WILLIAM LARNED & SONS - TYPE 4,
REPRESENTED AS SAMPLE ID#: USE-
SB_PHIII_BETH_PIT

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 2:33 pm, Nov 18, 2016

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

SAMPLE RECEIPT

The following samples were received on November 09, 2016 for the analyses specified on the enclosed Chain of Custody Record.

The cooler temperature was not within the acceptance limit of <6°C.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
1611252-01	USE-CF-WL_PHIII_Burdeck	Soil	2580, 6010C, 6020A, 7196A, 7471B, 8081B, 8082A, 8260B, 8270D, 9014, 9045, Calc
1611252-02	USE-SB_PHIII_Beth_Pit	Soil	2580, 6010C, 6020A, 7196A, 7471B, 8081B, 8082A, 8260B, 8270D, 9014, 9045, Calc



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

PROJECT NARRATIVE

8270D Semi-Volatile Organic Compounds

CZK0164-CCV1 [Calibration required quadratic regression \(Q\).](#)
2,4,6-Tribromophenol (112% @ 70-130%), Pentachlorophenol (90% @ 80-120%)
CZK0184-CCV1 [Calibration required quadratic regression \(Q\).](#)
2,4,6-Tribromophenol (106% @ 70-130%), Pentachlorophenol (89% @ 80-120%)

Classical Chemistry

1611252-01 [Estimated value. Sample hold times were exceeded \(H\).](#)
Corrosivity (pH) , Corrosivity (pH) Sample Temp , Redox Potential
1611252-02 [Estimated value. Sample hold times were exceeded \(H\).](#)
Corrosivity (pH) , Corrosivity (pH) Sample Temp , Redox Potential

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)
[Semivolatile Organics Internal Standard Information](#)
[Semivolatile Organics Surrogate Information](#)
[Volatile Organics Internal Standard Information](#)
[Volatile Organics Surrogate Information](#)
[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-WL_PHIII_Burdeck
Date Sampled: 11/08/16 00:00
Percent Solids: 90

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.42 (2.53)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Barium	37.7 (2.53)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Beryllium	ND (0.51)		6020A		20	NAR	11/13/16 14:10	2.21	100	CK61106
Cadmium	ND (0.51)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Chromium	8.58 (1.01)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Chromium (III)	8.58 (1.01)		Calc		1	JLK	11/14/16 17:01	1	1	[CALC]
Copper	13.7 (2.53)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Lead	9.16 (5.05)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Manganese	272 (1.01)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Mercury	0.051 (0.031)		7471B		1	MJV	11/14/16 14:01	0.71	40	CK61108
Nickel	10.9 (2.53)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Selenium	ND (0.51)		6020A		20	NAR	11/13/16 14:10	2.21	100	CK61106
Silver	ND (0.51)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106
Zinc	32.6 (2.53)		6010C		1	NAR	11/13/16 14:13	2.21	100	CK61106



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-WL_PHIII_Burdeck
Date Sampled: 11/08/16 00:00
Percent Solids: 90
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1-Trichloroethane	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,1-Dichloroethane	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,1-Dichloroethene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,2,4-Trimethylbenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,2-Dichlorobenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,2-Dichloroethane	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,3,5-Trimethylbenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,3-Dichlorobenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,4-Dichlorobenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
1,4-Dioxane	ND (0.0271)		8260B		1	11/14/16 23:12	CZK0207	CK61433
2-Butanone	ND (0.0027)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Acetone	ND (0.0027)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Benzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Carbon Tetrachloride	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Chlorobenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Chloroform	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
cis-1,2-Dichloroethene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Ethylbenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Methyl tert-Butyl Ether	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Methylene Chloride	ND (0.0068)		8260B		1	11/14/16 23:12	CZK0207	CK61433
n-Butylbenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
n-Propylbenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
sec-Butylbenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
tert-Butylbenzene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Tetrachloroethene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Toluene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
trans-1,2-Dichloroethene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Trichloroethene	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Vinyl Chloride	ND (0.0027)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Xylene O	ND (0.0014)		8260B		1	11/14/16 23:12	CZK0207	CK61433
Xylene P,M	ND (0.0027)		8260B		1	11/14/16 23:12	CZK0207	CK61433



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-WL_PHIII_Burdeck
Date Sampled: 11/08/16 00:00
Percent Solids: 90
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		104 %		70-130				
<i>Surrogate: Toluene-d8</i>		107 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-WL_PHIII_Burdeck
Date Sampled: 11/08/16 00:00
Percent Solids: 90
Initial Volume: 19.2
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 11/9/16 11:00

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
4,4'-DDE	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
4,4'-DDT [2C]	0.0037 (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
Aldrin	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
alpha-BHC	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
alpha-Chlordane	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
beta-BHC	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
delta-BHC	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
Dieldrin	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
Endosulfan I	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
Endosulfan II	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
Endosulfan Sulfate	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
Endrin	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	11/12/16 4:00	CZK0194	CK60815
Heptachlor	ND (0.0029)		8081B		1	11/12/16 4:00	CZK0194	CK60815

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>99 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>109 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>83 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>92 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-WL_PHIII_Burdeck
Date Sampled: 11/08/16 00:00
Percent Solids: 90
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SMR
Prepared: 11/9/16 17:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	11/10/16 20:28		CK60804
Aroclor 1221	ND (0.05)		8082A		1	11/10/16 20:28		CK60804
Aroclor 1232	ND (0.05)		8082A		1	11/10/16 20:28		CK60804
Aroclor 1242	ND (0.05)		8082A		1	11/10/16 20:28		CK60804
Aroclor 1248	ND (0.05)		8082A		1	11/10/16 20:28		CK60804
Aroclor 1254	ND (0.05)		8082A		1	11/10/16 20:28		CK60804
Aroclor 1260	ND (0.05)		8082A		1	11/10/16 20:28		CK60804
Aroclor 1262	ND (0.05)		8082A		1	11/10/16 20:28		CK60804
Aroclor 1268	ND (0.05)		8082A		1	11/10/16 20:28		CK60804

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	79 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	81 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	92 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	88 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-WL_PHIII_Burdeck
Date Sampled: 11/08/16 00:00
Percent Solids: 90
Initial Volume: 14.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 11/9/16 16:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylphenol	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
3+4-Methylphenol	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Acenaphthene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Acenaphthylene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Anthracene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Benzo(a)anthracene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Benzo(a)pyrene	ND (0.198)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Benzo(b)fluoranthene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Benzo(g,h,i)perylene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Benzo(k)fluoranthene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Chrysene	ND (0.198)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Dibenzo(a,h)Anthracene	ND (0.198)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Dibenzofuran	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Fluoranthene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Fluorene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Hexachlorobenzene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Indeno(1,2,3-cd)Pyrene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Naphthalene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Pentachlorophenol	ND (0.950)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Phenanthrene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Phenol	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908
Pyrene	ND (0.395)		8270D		1	11/11/16 20:06	CZK0184	CK60908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	68 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	73 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	78 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	71 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	73 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	69 %		30-130
<i>Surrogate: Phenol-d6</i>	76 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	82 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-CF-WL_PHIII_Burdeck
Date Sampled: 11/08/16 00:00
Percent Solids: 90

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	H 7.33 (N/A)		9045		1	JLK	11/09/16 21:56	S.U.	CK60939
Corrosivity (pH) Sample Temp	Soil pH measured in water at 20.2 °C.								
Hexavalent Chromium	ND (0.5)		7196A		1	JLK	11/14/16 17:01	mg/kg dry	CK61442
Redox Potential	H, WL 196 (N/A)		2580		1	JLK	11/09/16 21:46	mv	CK60940
Total Cyanide	ND (1.08)		9014		1	EEM	11/11/16 12:00	mg/kg dry	CK61126



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-SB_PHIII_Beth_Pit
Date Sampled: 11/08/16 00:00
Percent Solids: 95

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.64 (2.46)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Barium	50.5 (2.46)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Beryllium	0.55 (0.49)		6020A		20	NAR	11/13/16 14:28	2.14	100	CK61106
Cadmium	ND (0.49)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Chromium	15.7 (0.98)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Chromium (III)	15.7 (0.98)		Calc		1	JLK	11/14/16 17:01	1	1	[CALC]
Copper	30.6 (2.46)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Lead	11.4 (4.91)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Manganese	545 (0.98)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Mercury	ND (0.033)		7471B		1	MJV	11/14/16 14:27	0.64	40	CK61108
Nickel	21.7 (2.46)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Selenium	ND (0.49)		6020A		20	NAR	11/13/16 14:28	2.14	100	CK61106
Silver	ND (0.49)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106
Zinc	90.3 (2.46)		6010C		1	NAR	11/13/16 14:17	2.14	100	CK61106



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-SB_PHIII_Beth_Pit
Date Sampled: 11/08/16 00:00
Percent Solids: 95
Initial Volume: 20.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1-Trichloroethane	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,1-Dichloroethane	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,1-Dichloroethene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,2,4-Trimethylbenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,2-Dichlorobenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,2-Dichloroethane	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,3,5-Trimethylbenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,3-Dichlorobenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,4-Dichlorobenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
1,4-Dioxane	ND (0.0256)		8260B		1	11/14/16 23:38	CZK0207	CK61433
2-Butanone	ND (0.0026)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Acetone	ND (0.0026)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Benzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Carbon Tetrachloride	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Chlorobenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Chloroform	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
cis-1,2-Dichloroethene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Ethylbenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Methyl tert-Butyl Ether	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Methylene Chloride	ND (0.0064)		8260B		1	11/14/16 23:38	CZK0207	CK61433
n-Butylbenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
n-Propylbenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
sec-Butylbenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
tert-Butylbenzene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Tetrachloroethene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Toluene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
trans-1,2-Dichloroethene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Trichloroethene	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Vinyl Chloride	ND (0.0026)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Xylene O	ND (0.0013)		8260B		1	11/14/16 23:38	CZK0207	CK61433
Xylene P,M	ND (0.0026)		8260B		1	11/14/16 23:38	CZK0207	CK61433



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-SB_PHIII_Beth_Pit
Date Sampled: 11/08/16 00:00
Percent Solids: 95
Initial Volume: 20.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
Surrogate: 1,2-Dichloroethane-d4		112 %		70-130				
Surrogate: 4-Bromofluorobenzene		99 %		70-130				
Surrogate: Dibromofluoromethane		106 %		70-130				
Surrogate: Toluene-d8		110 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-SB_PHIII_Beth_Pit
Date Sampled: 11/08/16 00:00
Percent Solids: 95
Initial Volume: 19.8
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JXS
Prepared: 11/9/16 11:00

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
4,4'-DDE	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
4,4'-DDT	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
Aldrin	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
alpha-BHC	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
alpha-Chlordane	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
beta-BHC	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
delta-BHC	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
Dieldrin	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
Endosulfan I	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
Endosulfan II	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
Endosulfan Sulfate	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
Endrin	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	11/12/16 4:29	CZK0194	CK60815
Heptachlor	ND (0.0027)		8081B		1	11/12/16 4:29	CZK0194	CK60815

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Decachlorobiphenyl	99 %		30-150
Surrogate: Decachlorobiphenyl [2C]	112 %		30-150
Surrogate: Tetrachloro-m-xylene	91 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	99 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-SB_PHIII_Beth_Pit
Date Sampled: 11/08/16 00:00
Percent Solids: 95
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SMR
Prepared: 11/9/16 17:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	11/10/16 20:47		CK60804
Aroclor 1221	ND (0.05)		8082A		1	11/10/16 20:47		CK60804
Aroclor 1232	ND (0.05)		8082A		1	11/10/16 20:47		CK60804
Aroclor 1242	ND (0.05)		8082A		1	11/10/16 20:47		CK60804
Aroclor 1248	ND (0.05)		8082A		1	11/10/16 20:47		CK60804
Aroclor 1254	ND (0.05)		8082A		1	11/10/16 20:47		CK60804
Aroclor 1260	ND (0.05)		8082A		1	11/10/16 20:47		CK60804
Aroclor 1262	ND (0.05)		8082A		1	11/10/16 20:47		CK60804
Aroclor 1268	ND (0.05)		8082A		1	11/10/16 20:47		CK60804

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	78 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	80 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	85 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	81 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-SB_PHIII_Beth_Pit
Date Sampled: 11/08/16 00:00
Percent Solids: 95
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 11/9/16 16:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylphenol	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
3+4-Methylphenol	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Acenaphthene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Acenaphthylene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Anthracene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Benzo(a)anthracene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Benzo(a)pyrene	ND (0.174)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Benzo(b)fluoranthene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Benzo(g,h,i)perylene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Benzo(k)fluoranthene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Chrysene	ND (0.174)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Dibenzo(a,h)Anthracene	ND (0.174)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Dibenzofuran	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Fluoranthene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Fluorene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Hexachlorobenzene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Indeno(1,2,3-cd)Pyrene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Naphthalene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Pentachlorophenol	ND (0.835)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Phenanthrene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Phenol	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908
Pyrene	ND (0.348)		8270D		1	11/11/16 20:41	CZK0184	CK60908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	66 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	66 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	72 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	74 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	67 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	71 %		30-130
<i>Surrogate: Phenol-d6</i>	69 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	84 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant
Client Sample ID: USE-SB_PHIII_Beth_Pit
Date Sampled: 11/08/16 00:00
Percent Solids: 95

ESS Laboratory Work Order: 1611252
ESS Laboratory Sample ID: 1611252-02
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	H 8.22 (N/A)		9045		1	JLK	11/09/16 21:56	S.U.	CK60939
Corrosivity (pH) Sample Temp	Soil pH measured in water at 20.2 °C.								
Hexavalent Chromium	ND (0.4)		7196A		1	JLK	11/14/16 17:01	mg/kg dry	CK61442
Redox Potential	H, WL 194 (N/A)		2580		1	JLK	11/09/16 21:46	mv	CK60940
Total Cyanide	ND (1.04)		9014		1	EEM	11/11/16 12:00	mg/kg dry	CK61126



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch CK61106 - 3050B

Blank

Arsenic	ND	2.50	mg/kg wet
Barium	ND	2.50	mg/kg wet
Beryllium	ND	0.50	mg/kg wet
Cadmium	ND	0.50	mg/kg wet
Chromium	ND	1.00	mg/kg wet
Chromium (III)	ND	1.00	mg/kg wet
Copper	ND	2.50	mg/kg wet
Lead	ND	5.00	mg/kg wet
Manganese	ND	1.00	mg/kg wet
Nickel	ND	2.50	mg/kg wet
Selenium	ND	0.50	mg/kg wet
Silver	ND	0.50	mg/kg wet
Zinc	ND	2.50	mg/kg wet

LCS

Arsenic	150	8.77	mg/kg wet	161.0	93	80-120
Barium	339	8.77	mg/kg wet	351.0	97	80-120
Beryllium	92.9	21.9	mg/kg wet	89.40	104	80-120
Cadmium	164	1.75	mg/kg wet	190.0	87	80-120
Chromium	82.1	3.51	mg/kg wet	87.90	93	80-120
Chromium (III)	82.1	3.51	mg/kg wet			
Copper	241	8.77	mg/kg wet	258.0	93	80-120
Lead	133	17.5	mg/kg wet	138.0	96	80-120
Nickel	124	8.77	mg/kg wet	127.0	97	80-120
Selenium	347	21.9	mg/kg wet	305.0	114	80-120
Silver	54.0	1.75	mg/kg wet	58.00	93	80-120
Zinc	155	8.77	mg/kg wet	173.0	90	80-120

LCS

Chromium (III)	99.3	3.45	mg/kg wet			
Manganese	379	3.45	mg/kg wet	400.0	95	80-120

LCS Dup

Arsenic	141	9.43	mg/kg wet	161.0	87	80-120	6	20
Barium	324	9.43	mg/kg wet	351.0	92	80-120	4	20
Beryllium	98.2	23.6	mg/kg wet	89.40	110	80-120	6	30
Cadmium	162	1.89	mg/kg wet	190.0	85	80-120	2	20
Chromium	83.9	3.77	mg/kg wet	87.90	95	80-120	2	20
Chromium (III)	83.9	3.77	mg/kg wet					
Copper	235	9.43	mg/kg wet	258.0	91	80-120	2	20
Lead	127	18.9	mg/kg wet	138.0	92	80-120	4	20
Nickel	117	9.43	mg/kg wet	127.0	92	80-120	5	20
Selenium	356	23.6	mg/kg wet	305.0	117	80-120	3	30
Silver	52.9	1.89	mg/kg wet	58.00	91	80-120	2	20
Zinc	150	9.43	mg/kg wet	173.0	87	80-120	4	20

LCS Dup



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch CK61106 - [CALC]

Chromium (III)	ND	3.77	mg/kg wet							
Manganese	376	3.77	mg/kg wet	400.0		94	80-120	0.7	20	

Batch CK61108 - 7471B

Blank

Mercury	ND	0.033	mg/kg wet							
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LCS

Mercury	17.0	1.74	mg/kg wet	15.90		107	80-120			
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LCS Dup

Mercury	17.3	1.83	mg/kg wet	15.90		109	80-120	2	20	
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Batch CK61442 - [CALC]

Blank

Chromium (III)	ND	0.70	mg/kg wet							
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LCS

Chromium (III)	ND	0.70	mg/kg wet							
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LCS Dup

Chromium (III)	ND	0.70	mg/kg wet							
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Reference

Chromium (III)	ND	2.00	mg/kg wet							
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK61433 - 5035

Blank

1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK61433 - 5035

n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0506		mg/kg wet	0.05000		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0515		mg/kg wet	0.05000		103	70-130			
Surrogate: Dibromofluoromethane	0.0500		mg/kg wet	0.05000		100	70-130			
Surrogate: Toluene-d8	0.0532		mg/kg wet	0.05000		106	70-130			

LCS

1,1,1-Trichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,1-Dichloroethane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,1-Dichloroethene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
1,2,4-Trimethylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dichlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloroethane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,3,5-Trimethylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
1,3-Dichlorobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
1,4-Dichlorobenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
1,4-Dioxane	0.899	0.100	mg/kg wet	1.000		90	70-130			
2-Butanone	0.223	0.0100	mg/kg wet	0.2500		89	70-130			
Acetone	0.236	0.0100	mg/kg wet	0.2500		95	70-130			
Benzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
Carbon Tetrachloride	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Chlorobenzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Chloroform	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
cis-1,2-Dichloroethene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Ethylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
Methyl tert-Butyl Ether	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
Methylene Chloride	0.0463	0.0250	mg/kg wet	0.05000		93	70-130			
n-Butylbenzene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
n-Propylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
sec-Butylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
tert-Butylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Tetrachloroethene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Toluene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
trans-1,2-Dichloroethene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Trichloroethene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
Vinyl Chloride	0.0521	0.0100	mg/kg wet	0.05000		104	70-130			
Xylene O	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK61433 - 5035

Xylene P,M	0.0968	0.0100	mg/kg wet	0.1000		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0532		mg/kg wet	0.05000		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0521		mg/kg wet	0.05000		104	70-130			
Surrogate: Dibromofluoromethane	0.0533		mg/kg wet	0.05000		107	70-130			
Surrogate: Toluene-d8	0.0531		mg/kg wet	0.05000		106	70-130			

LCS Dup

1,1,1-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	5	25	
1,1-Dichloroethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	7	25	
1,1-Dichloroethene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	7	25	
1,2,4-Trimethylbenzene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	4	25	
1,2-Dichlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	5	25	
1,2-Dichloroethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
1,3,5-Trimethylbenzene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	5	25	
1,3-Dichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
1,4-Dichlorobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	5	25	
1,4-Dioxane	0.963	0.100	mg/kg wet	1.000		96	70-130	7	20	
2-Butanone	0.238	0.0100	mg/kg wet	0.2500		95	70-130	6	25	
Acetone	0.250	0.0100	mg/kg wet	0.2500		100	70-130	6	25	
Benzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	5	25	
Carbon Tetrachloride	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	5	25	
Chlorobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	3	25	
Chloroform	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	5	25	
cis-1,2-Dichloroethene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	9	25	
Ethylbenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	2	25	
Methyl tert-Butyl Ether	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	5	25	
Methylene Chloride	0.0497	0.0250	mg/kg wet	0.05000		99	70-130	7	25	
n-Butylbenzene	0.0557	0.0050	mg/kg wet	0.05000		111	70-130	5	25	
n-Propylbenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	5	25	
sec-Butylbenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
tert-Butylbenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	6	25	
Tetrachloroethene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
Toluene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	6	25	
trans-1,2-Dichloroethene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	6	25	
Trichloroethene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	8	25	
Vinyl Chloride	0.0553	0.0100	mg/kg wet	0.05000		111	70-130	6	25	
Xylene O	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
Xylene P,M	0.0998	0.0100	mg/kg wet	0.1000		100	70-130	3	25	
Surrogate: 1,2-Dichloroethane-d4	0.0531		mg/kg wet	0.05000		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/kg wet	0.05000		102	70-130			
Surrogate: Dibromofluoromethane	0.0532		mg/kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	0.0519		mg/kg wet	0.05000		104	70-130			

8081B Organochlorine Pesticides

Batch CK60815 - 3546

Blank



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch CK60815 - 3546

4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0141		mg/kg wet	0.01250		113	30-150
Surrogate: Decachlorobiphenyl [2C]	0.0142		mg/kg wet	0.01250		114	30-150
Surrogate: Tetrachloro-m-xylene	0.0140		mg/kg wet	0.01250		112	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.0137		mg/kg wet	0.01250		110	30-150

LCS

4,4'-DDD	0.0145	0.0025	mg/kg wet	0.01250		116	40-140
4,4'-DDD [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140
4,4'-DDE	0.0138	0.0025	mg/kg wet	0.01250		110	40-140
4,4'-DDE [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140
4,4'-DDT	0.0153	0.0025	mg/kg wet	0.01250		122	40-140
4,4'-DDT [2C]	0.0141	0.0025	mg/kg wet	0.01250		113	40-140
Aldrin	0.0147	0.0025	mg/kg wet	0.01250		118	40-140
Aldrin [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140
alpha-BHC	0.0148	0.0025	mg/kg wet	0.01250		118	40-140



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch CK60815 - 3546

alpha-BHC [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
alpha-Chlordane	0.0144	0.0025	mg/kg wet	0.01250		115	40-140			
alpha-Chlordane [2C]	0.0142	0.0025	mg/kg wet	0.01250		113	40-140			
beta-BHC	0.0140	0.0025	mg/kg wet	0.01250		112	40-140			
beta-BHC [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140			
delta-BHC	0.0137	0.0025	mg/kg wet	0.01250		109	40-140			
delta-BHC [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
Dieldrin	0.0157	0.0025	mg/kg wet	0.01250		126	40-140			
Dieldrin [2C]	0.0144	0.0025	mg/kg wet	0.01250		115	40-140			
Endosulfan I	0.0145	0.0025	mg/kg wet	0.01250		116	40-140			
Endosulfan I [2C]	0.0145	0.0025	mg/kg wet	0.01250		116	40-140			
Endosulfan II	0.0144	0.0025	mg/kg wet	0.01250		115	40-140			
Endosulfan II [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Endosulfan Sulfate	0.0147	0.0025	mg/kg wet	0.01250		118	40-140			
Endosulfan Sulfate [2C]	0.0149	0.0025	mg/kg wet	0.01250		120	40-140			
Endrin	0.0153	0.0025	mg/kg wet	0.01250		123	40-140			
Endrin [2C]	0.0149	0.0025	mg/kg wet	0.01250		119	40-140			
gamma-BHC (Lindane)	0.0146	0.0015	mg/kg wet	0.01250		117	40-140			
gamma-BHC (Lindane) [2C]	0.0145	0.0015	mg/kg wet	0.01250		116	40-140			
Heptachlor	0.0145	0.0025	mg/kg wet	0.01250		116	40-140			
Heptachlor [2C]	0.0141	0.0025	mg/kg wet	0.01250		113	40-140			

Surrogate: Decachlorobiphenyl	0.0151		mg/kg wet	0.01250		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0152		mg/kg wet	0.01250		122	30-150			
Surrogate: Tetrachloro-m-xylene	0.0150		mg/kg wet	0.01250		120	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0144		mg/kg wet	0.01250		115	30-150			

LCS Dup

4,4'-DDD	0.0146	0.0025	mg/kg wet	0.01250		117	40-140	1	30	
4,4'-DDD [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	2	30	
4,4'-DDE	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	1	30	
4,4'-DDE [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	1	30	
4,4'-DDT	0.0156	0.0025	mg/kg wet	0.01250		125	40-140	2	30	
4,4'-DDT [2C]	0.0145	0.0025	mg/kg wet	0.01250		116	40-140	3	30	
Aldrin	0.0148	0.0025	mg/kg wet	0.01250		118	40-140	0.4	30	
Aldrin [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	0.5	30	
alpha-BHC	0.0147	0.0025	mg/kg wet	0.01250		118	40-140	0.08	30	
alpha-BHC [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	0.2	30	
alpha-Chlordane	0.0146	0.0025	mg/kg wet	0.01250		116	40-140	0.9	30	
alpha-Chlordane [2C]	0.0143	0.0025	mg/kg wet	0.01250		114	40-140	0.8	30	
beta-BHC	0.0142	0.0025	mg/kg wet	0.01250		113	40-140	0.9	30	
beta-BHC [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	0.002	30	
delta-BHC	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	2	30	
delta-BHC [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	1	30	
Dieldrin	0.0159	0.0025	mg/kg wet	0.01250		127	40-140	0.9	30	
Dieldrin [2C]	0.0145	0.0025	mg/kg wet	0.01250		116	40-140	0.8	30	



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch CK60815 - 3546

Endosulfan I	0.0146	0.0025	mg/kg wet	0.01250		116	40-140	0.5	30	
Endosulfan I [2C]	0.0146	0.0025	mg/kg wet	0.01250		116	40-140	0.4	30	
Endosulfan II	0.0146	0.0025	mg/kg wet	0.01250		117	40-140	1	30	
Endosulfan II [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	2	30	
Endosulfan Sulfate	0.0150	0.0025	mg/kg wet	0.01250		120	40-140	2	30	
Endosulfan Sulfate [2C]	0.0152	0.0025	mg/kg wet	0.01250		122	40-140	2	30	
Endrin	0.0155	0.0025	mg/kg wet	0.01250		124	40-140	0.9	30	
Endrin [2C]	0.0151	0.0025	mg/kg wet	0.01250		121	40-140	1	30	
gamma-BHC (Lindane)	0.0147	0.0015	mg/kg wet	0.01250		117	40-140	0.6	30	
gamma-BHC (Lindane) [2C]	0.0145	0.0015	mg/kg wet	0.01250		116	40-140	0.2	30	
Heptachlor	0.0145	0.0025	mg/kg wet	0.01250		116	40-140	0.2	30	
Heptachlor [2C]	0.0142	0.0025	mg/kg wet	0.01250		114	40-140	0.4	30	

Surrogate: Decachlorobiphenyl	0.0147		mg/kg wet	0.01250		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0149		mg/kg wet	0.01250		119	30-150			
Surrogate: Tetrachloro-m-xylene	0.0144		mg/kg wet	0.01250		115	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0138		mg/kg wet	0.01250		111	30-150			

8082A Polychlorinated Biphenyls (PCB)

Batch CK60804 - 3540C

Blank

Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0213		mg/kg wet	0.02500		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0214		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene	0.0195		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0197		mg/kg wet	0.02500		79	30-150			

LCS

Aroclor 1016	0.6	0.05	mg/kg wet	0.5000		116	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		108	40-140			

Surrogate: Decachlorobiphenyl	0.0229		mg/kg wet	0.02500		92	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0231		mg/kg wet	0.02500		93	30-150			
Surrogate: Tetrachloro-m-xylene	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0204		mg/kg wet	0.02500		82	30-150			

LCS Dup

Aroclor 1016	0.6	0.05	mg/kg wet	0.5000		117	40-140	1	30	
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CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch CK60804 - 3540C

Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		108	40-140	0.3	30	
Surrogate: Decachlorobiphenyl	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0229		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0209		mg/kg wet	0.02500		83	30-150			

8270D Semi-Volatile Organic Compounds

Batch CK60908 - 3546

Blank

2-Methylphenol	ND	0.333	mg/kg wet							
3+4-Methylphenol	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	0.800	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.66		mg/kg wet	3.333		80	30-130			
Surrogate: 2,4,6-Tribromophenol	2.69		mg/kg wet	5.000		54	30-130			
Surrogate: 2-Chlorophenol-d4	4.10		mg/kg wet	5.000		82	30-130			
Surrogate: 2-Fluorobiphenyl	2.61		mg/kg wet	3.333		78	30-130			
Surrogate: 2-Fluorophenol	3.89		mg/kg wet	5.000		78	30-130			
Surrogate: Nitrobenzene-d5	2.65		mg/kg wet	3.333		80	30-130			
Surrogate: Phenol-d6	4.05		mg/kg wet	5.000		81	30-130			
Surrogate: p-Terphenyl-d14	3.63		mg/kg wet	3.333		109	30-130			

LCS

2-Methylphenol	2.39	0.333	mg/kg wet	3.333		72	30-130			
3+4-Methylphenol	4.67	0.333	mg/kg wet	6.667		70	30-130			
Acenaphthene	2.43	0.333	mg/kg wet	3.333		73	40-140			
Acenaphthylene	2.47	0.333	mg/kg wet	3.333		74	40-140			



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CK60908 - 3546

Anthracene	2.84	0.333	mg/kg wet	3.333		85	40-140			
Benzo(a)anthracene	2.90	0.333	mg/kg wet	3.333		87	40-140			
Benzo(a)pyrene	3.05	0.167	mg/kg wet	3.333		91	40-140			
Benzo(b)fluoranthene	2.96	0.333	mg/kg wet	3.333		89	40-140			
Benzo(g,h,i)perylene	2.77	0.333	mg/kg wet	3.333		83	40-140			
Benzo(k)fluoranthene	2.88	0.333	mg/kg wet	3.333		87	40-140			
Chrysene	2.75	0.167	mg/kg wet	3.333		83	40-140			
Dibenzo(a,h)Anthracene	2.88	0.167	mg/kg wet	3.333		86	40-140			
Dibenzofuran	2.46	0.333	mg/kg wet	3.333		74	40-140			
Fluoranthene	2.94	0.333	mg/kg wet	3.333		88	40-140			
Fluorene	2.59	0.333	mg/kg wet	3.333		78	40-140			
Hexachlorobenzene	2.91	0.333	mg/kg wet	3.333		87	40-140			
Indeno(1,2,3-cd)Pyrene	2.86	0.333	mg/kg wet	3.333		86	40-140			
Naphthalene	2.31	0.333	mg/kg wet	3.333		69	40-140			
Pentachlorophenol	2.85	0.800	mg/kg wet	3.333		85	30-130			
Phenanthrene	2.74	0.333	mg/kg wet	3.333		82	40-140			
Phenol	2.46	0.333	mg/kg wet	3.333		74	30-130			
Pyrene	2.94	0.333	mg/kg wet	3.333		88	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.31		mg/kg wet	3.333		69	30-130			
Surrogate: 2,4,6-Tribromophenol	4.47		mg/kg wet	5.000		89	30-130			
Surrogate: 2-Chlorophenol-d4	3.73		mg/kg wet	5.000		75	30-130			
Surrogate: 2-Fluorobiphenyl	2.49		mg/kg wet	3.333		75	30-130			
Surrogate: 2-Fluorophenol	3.55		mg/kg wet	5.000		71	30-130			
Surrogate: Nitrobenzene-d5	2.41		mg/kg wet	3.333		72	30-130			
Surrogate: Phenol-d6	3.71		mg/kg wet	5.000		74	30-130			
Surrogate: p-Terphenyl-d14	2.97		mg/kg wet	3.333		89	30-130			

LCS Dup

2-Methylphenol	2.23	0.333	mg/kg wet	3.333		67	30-130	7	30	
3+4-Methylphenol	4.41	0.333	mg/kg wet	6.667		66	30-130	6	30	
Acenaphthene	2.44	0.333	mg/kg wet	3.333		73	40-140	0.3	30	
Acenaphthylene	2.48	0.333	mg/kg wet	3.333		74	40-140	0.1	30	
Anthracene	2.86	0.333	mg/kg wet	3.333		86	40-140	0.7	30	
Benzo(a)anthracene	2.94	0.333	mg/kg wet	3.333		88	40-140	2	30	
Benzo(a)pyrene	3.11	0.167	mg/kg wet	3.333		93	40-140	2	30	
Benzo(b)fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140	4	30	
Benzo(g,h,i)perylene	2.96	0.333	mg/kg wet	3.333		89	40-140	7	30	
Benzo(k)fluoranthene	3.05	0.333	mg/kg wet	3.333		92	40-140	6	30	
Chrysene	2.81	0.167	mg/kg wet	3.333		84	40-140	2	30	
Dibenzo(a,h)Anthracene	3.02	0.167	mg/kg wet	3.333		91	40-140	5	30	
Dibenzofuran	2.51	0.333	mg/kg wet	3.333		75	40-140	2	30	
Fluoranthene	2.90	0.333	mg/kg wet	3.333		87	40-140	1	30	
Fluorene	2.63	0.333	mg/kg wet	3.333		79	40-140	2	30	
Hexachlorobenzene	3.16	0.333	mg/kg wet	3.333		95	40-140	8	30	
Indeno(1,2,3-cd)Pyrene	3.00	0.333	mg/kg wet	3.333		90	40-140	5	30	
Naphthalene	2.29	0.333	mg/kg wet	3.333		69	40-140	1	30	



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
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ESS Laboratory Work Order: 1611252

Quality Control Data

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8270D Semi-Volatile Organic Compounds

Batch CK60908 - 3546

Pentachlorophenol	2.99	0.800	mg/kg wet	3.333		90	30-130	5	30	
Phenanthrene	2.82	0.333	mg/kg wet	3.333		85	40-140	3	30	
Phenol	2.45	0.333	mg/kg wet	3.333		74	30-130	0.2	30	
Pyrene	3.04	0.333	mg/kg wet	3.333		91	40-140	3	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.23		mg/kg wet	3.333		67	30-130			
Surrogate: 2,4,6-Tribromophenol	4.67		mg/kg wet	5.000		93	30-130			
Surrogate: 2-Chlorophenol-d4	3.43		mg/kg wet	5.000		69	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/kg wet	3.333		72	30-130			
Surrogate: 2-Fluorophenol	3.25		mg/kg wet	5.000		65	30-130			
Surrogate: Nitrobenzene-d5	2.27		mg/kg wet	3.333		68	30-130			
Surrogate: Phenol-d6	3.39		mg/kg wet	5.000		68	30-130			
Surrogate: p-Terphenyl-d14	2.99		mg/kg wet	3.333		90	30-130			

Classical Chemistry

Batch CK61126 - TCN Prep

Blank

Total Cyanide	ND	1.00	mg/kg wet							
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LCS

Total Cyanide	5.02	1.00	mg/kg wet	5.015		100	90-110			
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Reference

Total Cyanide	49.7	4.87	mg/kg wet	48.40		103	36.1577-206.6 12			
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Reference

Total Cyanide	49.2	4.90	mg/kg wet	48.40		102	36.1577-206.6 12			
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Batch CK61442 - General Preparation

Blank

Hexavalent Chromium	ND	0.7	mg/kg wet							
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LCS

Hexavalent Chromium	32.2	0.7	mg/kg wet	33.32		97	80-120			
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LCS Dup

Hexavalent Chromium	32.0	0.7	mg/kg wet	33.32		96	80-120	0.5	20	
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Reference

Hexavalent Chromium	69.1	2.0	mg/kg wet	71.00		97	20.3-222.5			
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CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

Notes and Definitions

Z-10	Soil pH measured in water at 20.2 °C.
WL	Results obtained from a deionized water leach of the sample.
U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
H	Estimated value. Sample hold times were exceeded (H).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: EQ Northeast, Inc.
Client Project ID: GE Main Plant

ESS Laboratory Work Order: 1611252

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

ESS Laboratory Sample and Cooler Receipt Checklist

Client: EQ Northeast, Inc. - KPB/TB/MM
 Shipped/Delivered Via: Client

ESS Project ID: 1611252
 Date Received: 11/9/2016
 Project Due Date: 11/16/2016
 Days for Project: 5 Day

1. Air bill manifest present? ☐ No
 Air No.: NA
2. Were custody seals present? ☐ NA
3. Is radiation count <100 CPM? ☐ Yes
4. Is a Cooler Present? ☐ Yes
 Temp: 18.1 Iced with: None
5. Was COC signed and dated by client? ☐ Yes

6. Does COC match bottles? ☐ No
7. Is COC complete and correct? ☐ Yes
8. Were samples received intact? ☐ Yes
9. Were labs informed about short holds & rushes? ☒ Yes / No / NA
10. Were any analyses received outside of hold time? Yes ☒ NO

11. Any Subcontracting needed? Yes / ☒ No
 ESS Sample IDs: _____
 Analysis: _____
 TAT: _____

12. Were VOAs received? ☒ Yes / No
 a. Air bubbles in aqueous VOAs? ☒ Yes / ☒ No
 b. Does methanol cover soil completely? ☒ Yes / No / NA

13. Are the samples properly preserved? ☒ Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
 b. Low Level VOA vials frozen: Date: 11/9/16 Time: 1048 By: W

Sample Receiving Notes:

COC = USE-SB-PHIL-Bath-Pt; 4oz jar rec'd with no ID DL 11/9/16

14. Was there a need to contact Project Manager? ☒ Yes / No
 a. Was there a need to contact the client? ☒ Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	82069	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
01	82072	Yes	NA	Yes	VOA Vial - Other	Other	
01	82073	Yes	NA	Yes	VOA Vial - Other	Other	
01	82076	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	82077	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	82079	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	82068	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
02	82070	Yes	NA	Yes	VOA Vial - Other	Other	
02	82071	Yes	NA	Yes	VOA Vial - Other	Other	
02	82074	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
02	82075	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
02	82078	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review

Are barcode labels on correct containers? ☒ Yes / No

Completed By: [Signature] Date & Time: 11/9/16 1042
 Reviewed By: [Signature] Date & Time: 11/9/16 1046
 Delivered By: [Signature] 11/9/16 1046

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC.

4 William Street, Ballston Lake, New York 12019

Phone: (518) 399-1848 Fax: (518) 399-1913

WILLIAM LARNED & SONS, TYPE 4

CLIENT: **US ECOLOGY**
185 INDUSTRIAL ROAD
WRENTHAM, MASSACHUSETTS 02093

REPORT DATE: 11/14/16
SAMPLE NUMBER: 16995
OUR FILE NO: 1605.001

ATTN: MR. ED BENTON

Tam Joslin
REVIEWED BY: TOM JOSLIN, SET, NICET

PROJECT: **GENERAL ELECTRIC: MAIN PLANT: SCHENECTADY, NEW YORK**

ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

MATERIAL SOURCE: CLIENT ID: SUBBASE: LARNED: BETH PIT

MATERIAL DESCRIPTION: SAND, coarse; and fine Gravel; trace Silt/Clay

MATERIAL PROJECT USE: FILLS/BACKFILLS

EVALUATION SPECIFICATION: PROJECT SPECIFICATIONS

COARSE SIEVE SERIES: US STANDARD				MEDIUM SIEVE SERIES: US STANDARD				FINE SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE	SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE	SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"				1/4"	36.1	63.9		#50	93.5	6.5	
3"		100.0	100 - 100	#4	44.9	55.1		#60			
2 1/2"				1/8"				#80			
2"		100.0		#8	70.7	29.3		#100	94.5	5.5	
1 1/2"				#10				#140			
1"	13.1	86.9		#16	83.8	16.2		#200	94.6	5.4	
3/4"	15.8	84.2		#20				SILT			
1/2"	21.2	78.8		#30	91.4	8.6		CLAY			
3/8"	26.5	73.5		#40	92.8	7.2		COLLOID			

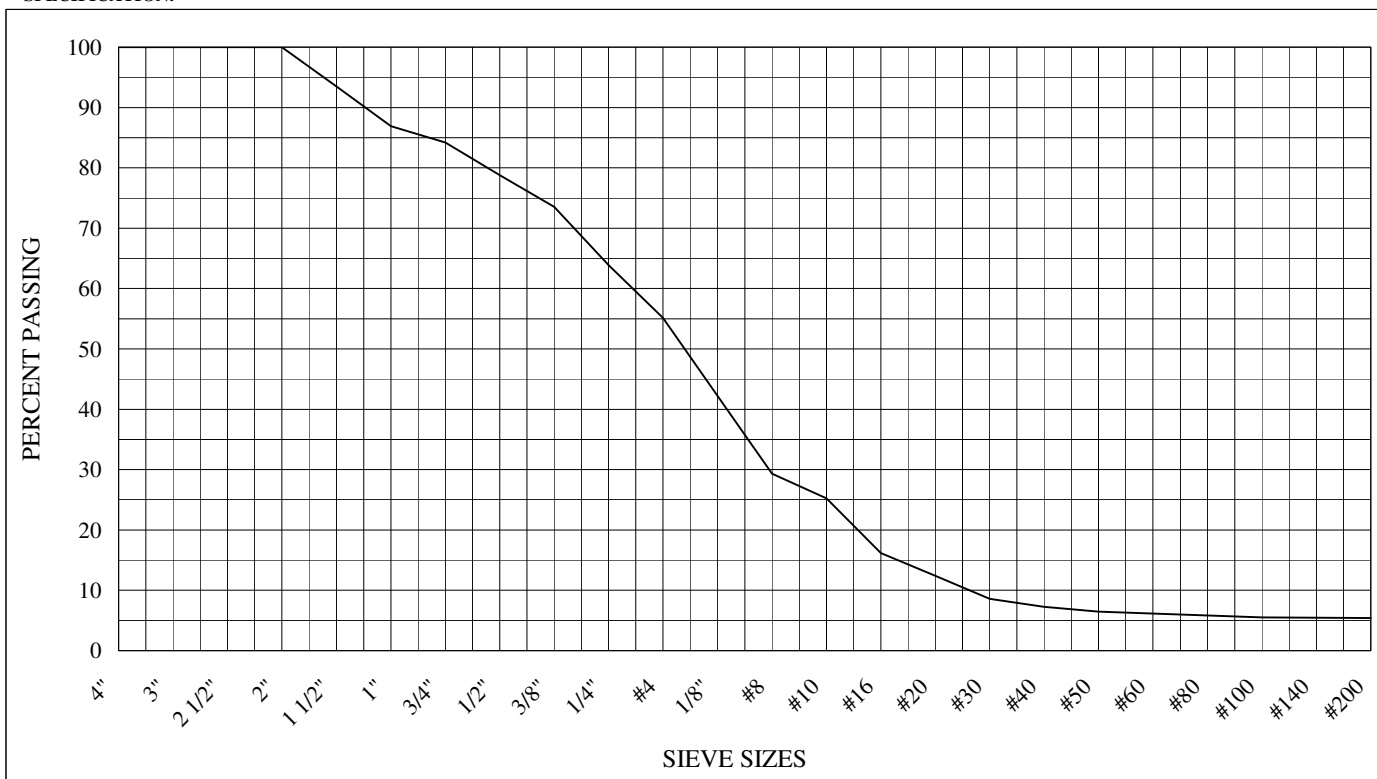
ASTM D-422
PERCENT GRAVEL
44.9%

ASTM D-422
PERCENT SAND
49.7%

ASTM D-422
PERCENT SILT
2.9%

PERCENT CLAY
2.5%

SPECIFICATION:



Appendix E

Manifests and Weigh Tickets

[illegible]

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197		2. Page 1 of 1		3. Emergency Response Phone (800) 424-9300 CHEMTREC		4. Manifest Tracking Number 016083757 JJK	
		5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR ATTN: PAUL GUILMETTE NISKAYUNA, NY 12309						Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309	
6. Transporter 1 Company Name PAGE E.T.C. INC		U.S. EPA ID Number NYD 986 969 047		7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111		U.S. EPA ID Number MID 048 090 633		Facility's Phone: (800) 592-5489					
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			
	X1	RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171			1	DT	EST. 20,900	K	PCB1 B007 L
	2.								
	3.								
14. Special Handling Instructions and Additional Information 1. A170065WDI / (S) SOIL & CONCRETE => THAN 50 PPM PCBS, TSCA / SWMU-B STORAGE START DATE: 1/19/17 CONTAINER ID: 003 NYSDEC HANDLING CODE: L TRK1672 TR28162									
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/Offoror's Printed/Typed Name PAUL G. Guilmette				Signature <i>Paul G. Guilmette</i>		Month Day Year 10/17/17			
TRANSPORTER INTL	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:								
	Transporter signature (for exports only):								
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Diosha Deller				Signature <i>Diosha Deller</i>		Month Day Year 01/19/17		
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
	Manifest Reference Number:								
	18b. Alternate Facility (or Generator) U.S. EPA ID Number								
	Facility's Phone:								
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. PCB		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 Zack Wistman				Signature <i>Zack Wistman</i>		Month Day Year 01/20/17			



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid
and specified on Manifest # 016083757 SW, Line Item 1 has been landfilled on
January 20, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: CKR

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274508
EQ Account #: 1125
Manifest / BOL: 016083757JJK
Transporter: PAGE
Date: 01/20/2017
Time In: 7:25 AM
Time Out: 8:11 AM

Line	Description	Qty.	Unit
1 - 1	Generator		
	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	24.290	TONS
	Hazardous Surcharge Ton	24.290	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 82,340 Tare: 33,760 Net: 48,580		
2	Wayne Disposal Host Community Agreement Royalty Fee	24.290	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 82,340 Tare: 33,760 Net: 48,580		

7971

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083753 JJK
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR ATTN: PAUL GOILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309		Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309			
Generator's Phone: (518) 387-6902					
6. Transporter 1 Company Name PAGE E.T.C. INC		U.S. EPA ID Number NYD 986 969 947			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111		U.S. EPA ID Number MID 048 090 633			
Facility's Phone: (800) 592-5489					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X1	RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	1	DT	EST. 20900	K
14. Special Handling Instructions and Additional Information 1. A170065WD1 / (S) SOIL & CONCRETE => THAN 50 PPM PCBS, TSCA / SWMU-8 STORAGE START DATE: 1/19/17, CONTAINER ID: 001, NYSDEC HANDLING CODE: L					
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/Officer's Printed/Typed Name Paul G. Guilmette		Signature Paul G. Guilmette		Month Day Year 01/17/17	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Gregory Gaudin		Signature Gregory Gaudin		Month Day Year 01/19/17	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
18. Discrepancy					
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
18b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
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. PCB	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 Zack W. W. W.		Signature		Month Day Year 01/20/17	



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid
and specified on Manifest # 016083753 53K, Line Item 1 has been landfilled on
January 20, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

847433

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274517
EQ Account #: 1125
Manifest / BOL: 016083753JJK
Transporter: PAGE
Date: 01/20/2017
Time In: 8:45 AM
Time Out: 9:16 AM

Line	Description	Qty. Unit
	Generator	
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	24.470 TONS
	Hazardous Surcharge Ton	24.470 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 82,340 Tare: 33,400 Net: 48,940	
2	Wayne Disposal Host Community Agreement Royalty Fee	24.470 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 82,340 Tare: 33,400 Net: 48,940	

NO SALVAGING ON PREMISES

10,520 4612

Form Approved. OMB No. 2050-0039

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083756 JJK	
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309		Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309				
Generator's Phone: (518) 387-6902		U.S. EPA ID Number NYD 986 969 947				
6. Transporter 1 Company Name PAGE E.T.C. INC		U.S. EPA ID Number				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489		U.S. EPA ID Number MID 048 090 633				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X1	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	1	DT	Est 20,900	K	PCB1 B007 L
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. A170065WDI / (S) SOIL & CONCRETE => THAN 50 PPM PCBs. TSCA / SWMU-8 STORAGE START DATE: 1/19/17 CONTAINER ID: 002 NYSDEC HANDLING CODE: L Trailer # 2292						
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/Officer's Printed/Typed Name Paul E. Guilmette		Signature Paul E. Guilmette		Month Day Year 10/17/17		
16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:				
Transporter signature (for exports only):						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Robert Johnson		Signature Robert Johnson		Month Day Year 11/19/17		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space		☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
Actual weight 364822 lbs per Michelle Monahan		Manifest Reference Number: U.S. EPA ID Number				
18b. Alternate Facility (or Generator)						
Facility's Phone:		Month Day Year				
18c. Signature of Alternate Facility (or Generator)						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. PCB		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 Charles DeWitt		Signature Charles DeWitt		Month Day Year 11/23/17		



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as Pcb Sol'd
and specified on Manifest # 016083756 55W, Line Item 1 has been landfilled on
January 23, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

847435

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274585
EQ Account #: 1125
Manifest / BOL: 016083756JJK
Transporter: PAGE
Date: 01/23/2017
Time In: 9:01 AM
Time Out: 9:57 AM

Line	Description Generator	Qty. Unit
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	33.530 TONS
	Hazardous Surcharge Ton	33.530 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 97,520 Tare: 30,460 Net: 67,060	
2	Wayne Disposal Host Community Agreement Royalty Fee	33.530 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 97,520 Tare: 30,460 Net: 67,060	

NO SALVAGING ON PREMISES

Page # 0455

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

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083758 JJK
5. Generator's Name and Mailing Address RESEARCH CTR ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309		Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309			
Generator's Phone: (518) 387-6902					
6. Transporter 1 Company Name PAGE E.T.C. INC		U.S. EPA ID Number NYD 986 969 947			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111		U.S. EPA ID Number MID 048 090 633			
Facility's Phone: (800) 592-5489					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X1.	RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	1		EST 20900	K
2.					
3.					
4.					
14. Special Handling Instructions and Additional Information 1. A170065WDI / (S) SOIL & CONCRETE => THAN 50 PPM PCBs, TSCA / SWMU-8 STORAGE START DATE: 1/19/17 CONTAINER ID: 004 NYSDEC HANDLING CODE: L Trailer # 4784					
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/Officer's Printed/Typed Name Paul G. Guilmette		Signature Paul G. Guilmette		Month Day Year 01/17/17	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name John Schieble		Signature John Schieble		Month Day Year 10/19/17	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
18. Discrepancy					
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
18b. Alternate Facility (or Generator) Actual weight 22264 kg per Michelle Nowak ul USE 01/24/17					
Facility's Phone:		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. PCB	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 Michelle Nowak		Signature Michelle Nowak		Month Day Year 1/24/17	



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as Pcb Solid
and specified on Manifest # 01608375B 554, Line Item 1 has been landfilled on
January 23, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: UR

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

847059

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274572
EQ Account #: 1125
Manifest / BOL: 016083758JJJ
Transporter: PAGE
Date: 01/23/2017
Time In: 7:38 AM
Time Out: 8:13 AM

Line	Description Generator	Qty. Unit
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	25.590 TONS
	Hazardous Surcharge Ton	25.590 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 81,880 Tare: 30,700 Net: 51,180	
2	Wayne Disposal Host Community Agreement Royalty Fee	25.590 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 81,880 Tare: 30,700 Net: 51,180	

NO SALVAGING ON PREMISES

60315

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

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083759 JJK	
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR ATTN: PAUL GOILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309			Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309			
Generator's Phone: (518) 387-6902						
6. Transporter 1 Company Name PAGE E.T.C. INC			U.S. EPA ID Number NYD 986 969 947			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDF 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID 048 090 633			
Facility's Phone: (800) 592-5489						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	X1	RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	1	DT	EST 24,900	K
	2.					
	3.					
	4.					
13. Waste Codes PCB1 B007 L						
14. Special Handling Instructions and Additional Information 1. A170065WVD1 / (S) SOIL & CONCRETE => THAN 50 PPM PCBs, TSCA / SWMU-B STORAGE START DATE: 1/19/17 CONTAINER ID: 005 NYSDEC HANDLING CODE: L TRU# 2039						
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/Officer's Printed/Typed Name Paul G. Guilmette			Signature Paul G. Guilmette		Month Day Year 01/17/17	
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit: Date leaving U.S.:		
	Transporter signature (for exports only):					
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name KAD Schiele			Signature KAD Schiele		Month Day Year 01/19/17
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name			Signature		Month Day Year
	18. Discrepancy					
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection			Manifest Reference Number:		
	18b. Alternate Facility (or Generator)			U.S. EPA ID Number		
	Facility's Phone:					
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. PCB		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 Dennie Miller			Signature Dennie Miller		Month Day Year 1/23/17	



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as Pcb Solid
and specified on Manifest # 016083759376, Line Item 1 has been landfilled on
January 27, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: *WR*

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

847658

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274571
EQ Account #: 1125
Manifest / BOL: 016083759JJK
Transporter: PAGE
Date: 01/23/2017
Time In: 7:36 AM
Time Out: 8:09 AM

Line	Description Generator	Qty. Unit
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	25.090 TONS
	Hazardous Surcharge Ton	25.090 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 80,040 Tare: 29,860 Net: 50,180	
2	Wayne Disposal Host Community Agreement Royalty Fee	25.090 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 80,040 Tare: 29,860 Net: 50,180	

NO SALVAGING ON PREMISES

3056 9651

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083761 JJK	
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR. ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309			Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309			
Generator's Phone: (518) 387-6902						
6. Transporter 1 Company Name PAGE E.T.C. INC			U.S. EPA ID Number NYD 986 969 947			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489			U.S. EPA ID Number MID 048 090 633			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	1		EST. 20,900	K	PCB1 B007 L
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. A170065WDI / (S) SOIL & ASPHALT WITH THAN 50 PPM PCBs. TSCA / ADD-2 SWMU-8 STORAGE START DATE: 1/20/17 CONTAINER ID: 006 NYSDEC HANDLING CODE: L						
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/Offor's Printed/Typed Name Paul G. Guilmette			Signature Paul G. Guilmette		Month Day Year 1 20 17	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Mike Clark Signature Mike Clark Month Day Year 1 28 17 Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 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. PCB 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 Signature Month Day Year 1 28 17						



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as Res Sol'd
and specified on Manifest # 01b08376155K, Line Item 1 has been landfilled on
January 23, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALIFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274570
EQ Account #: 1125
Manifest / BOL: 016083761JJK
Transporter: PAGE
Date: 01/23/2017
Time In: 7:31 AM
Time Out: 7:57 AM

Line	Description Generator	Qty. Unit
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE Hazardous Surcharge Ton NYD071094197 GENERAL ELECTRIC GLOBAL Gross: 79,140 Tare: 35,740 Net: 43,400	21.700 TONS 21.700 TONS
2	Wayne Disposal Host Community Agreement Royalty Fee NYD071094197 GENERAL ELECTRIC GLOBAL Gross: 79,140 Tare: 35,740 Net: 43,400	21.700 TONS

NO SALVAGING ON PREMISES

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

Form Approved, OMB No. 2050-0039

0387

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-6300 CHEMTREC	4. Manifest Tracking Number 016083762 JJK	
5. Generator's Name and Mailing Address RESEARCH CTR ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309			Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309			
Generator's Phone: (518) 387-6902						
6. Transporter 1 Company Name PAGE E T.C. INC			U.S. EPA ID Number NYD 986 969 947			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID 048 090 633			
Facility's Phone: (800) 592-5489						
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.
			No.	Type		
X1	RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171		1	DT	EST. 20,900	K
	88960					
14. Special Handling Instructions and Additional Information 1. A170065VVD1 / (S) SOIL & ASPHALT < THAN 50 PPM PCBs, TSCA / AOC-2 STORAGE START DATE: 1/20/17 CONTAINER ID: 007 NYSDEC HANDLING CODE: L						
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/Officer's Printed/Typed Name Paul G. Guilmette			Signature Paul G. Guilmette		Month 1	Day 20
					Year 17	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Dan Odenheiser			Signature Dan Odenheiser		Month 1	Day 20
					Year 17	
Transporter 2 Printed/Typed Name			Signature		Month	Day
					Year	
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
actual weight 24727 K ok per Michelle Nowak w/ UOE 88 1/24/17						
18b. Alternate Facility (of Generator)			U.S. EPA ID Number			
Facility's Phone:						
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. PCB	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 Conrad Walker			Signature Conrad Walker		Month 1	Day 25
					Year 17	

EPA Form 360-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL



FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB solid
and specified on Manifest # DL608376244, Line Item 1 has been landfilled on
Jan 25, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Bruce Postma

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

847660

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274712
EQ Account #: 1125
Manifest / BOL: 016083762JJK
Transporter: PAGE
Date: 01/25/2017
Time In: 7:56 AM
Time Out: 8:28 AM

Line	Description Generator	Qty.	Unit
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE Hazardous Surcharge Ton	27.200	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	27.200	TONS
	Gross: 88,960 Tare: 34,560 Net: 54,400		
2	Wayne Disposal Host Community Agreement Royalty Fee	27.200	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 88,960 Tare: 34,560 Net: 54,400		

NO SALVAGING ON PREMISES

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083774 JJK	
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR. ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309			Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309			
Generator's Phone: (518) 387-6902						
6. Transporter 1 Company Name PAGE E.T.C. INC			U.S. EPA ID Number NYD 986 969 947			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID 048 090 633			
Facility's Phone: (800) 592-5489						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	X1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171		001 DT		20,900	K
14. Special Handling Instructions and Additional Information 1. A170065WDI7(S) SOIL & ASPHALT < THAN 50 PPM PCBS, TSCA / AOC-2 STORAGE START DATE: 1/23/17 CONTAINER ID: 008 NYSDEC HANDLING CODE: L Trailer # 9162						
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/Officer's Printed/Typed Name Paul G. Guilmette			Signature Paul G. Guilmette		Month Day Year 10/23/17	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Deborah DeHa Signature Deborah DeHa Month Day Year 10/23/17 Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: U.S. EPA ID Number						
18b. Alternate Facility (or Generator) Facility's Phone: 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. PCB 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 Signature Month Day Year 1/24/17						



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid
and specified on Manifest # 016083774514, Line Item 1 has been landfilled on
January 24, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALIFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: CR

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
165 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274650
EQ Account #: 1125
Manifest / BOL: 016083774JJJ
Transporter: PAGE
Date: 01/24/2017
Time In: 7:35 AM
Time Out: 8:08 AM

Line	Description Generator	Qty.	Unit
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE		
	Hazardous Surcharge Ton	23.540	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	23.540	TONS
	Gross: 80,940 Tare: 33,860 Net: 47,080		
2	Wayne Disposal Host Community Agreement Royalty Fee	23.540	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 80,940 Tare: 33,860 Net: 47,080		

#7971

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083775 JJK	
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309		Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309				
Generator's Phone: (518) 387-6902						
6. Transporter 1 Company Name PAGE E.T.C. INC		U.S. EPA ID Number NYD 986 969 947				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111		U.S. EPA ID Number MID 048 090 633				
Facility's Phone: (800) 592-5489						
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
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	No. 001	Type DT	EST. 20,900	K	PCB1 B007 L
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. A170065VMD1 / (S) SOIL & ASPHALT < THAN 50 PPM PCBs, TSCA / AOC-2 STORAGE START DATE: 1/23/17 CONTAINER ID: 009 NYSDEC HANDLING CODE: L Trailer # 4169						
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/Offor's Printed/Typed Name Paul G. Guilmette		Signature Paul G. Guilmette		Month Day Year 01/23/17		
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Gregory Gaudin Signature Gregory Gaudin Month Day Year 01/23/17 Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy 18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection actual weight 146914.66 per Michelle Nowak w/ USE BB 11/25/17 18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number Facility's Phone: 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. PCB 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 Signature Month Day Year 1/29/17						

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid
and specified on Manifest # 01608377557K, Line Item 1 has been landfilled on
January 24, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____



CERTIFICATE OF DISPOSAL

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274649
EQ Account #: 1125
Manifest / BOL: 016083775JJK
Transporter: PAGE
Date: 01/24/2017
Time In: 7:32 AM
Time Out: 8:02 AM

Line	Description Generator	Qty.	Unit
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	16.160	TONS
	Hazardous Surcharge Ton	16.160	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 66,940 Tare: 34,620 Net: 32,320		
2	Wayne Disposal Host Community Agreement Royalty Fee	16.160	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 66,940 Tare: 34,620 Net: 32,320		

7083

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-6300 CHEMTREC	4. Manifest Tracking Number 016083777 JJK	
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR. ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309			Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309			
Generator's Phone: (518) 387-6902						
6. Transporter 1 Company Name PAGE E.T.C. INC			U.S. EPA ID Number NYD 986 969 947			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID 048 090 633			
Facility's Phone: (800) 592-5489						
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.
			No.	Type		13. Waste Codes
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171		001	DT	19958	PCB1 B007 L
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. A170065WDI / (S) SOIL & CONCRETE => THAN 50 PPM PCBS, TSCA / SWMU-B STORAGE START DATE: 1/25/17, CONTAINER ID: 0011, NYSDC HANDLING CODE: L						
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/Officer's Printed/Typed Name Paul G. Guilmette			Signature Paul G. Guilmette		Month Day Year 01/24/17	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Ronald Henshaw			Signature Ronald Henshaw		Month Day Year 01/25/17	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Actual weight 211604 Kals Michelle Novak / USEPA 1/27/16						
18b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
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. PCB	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 Charles DeWitt			Signature Charles DeWitt		Month Day Year 1/26/17	



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solids
and specified on Manifest # 016083 777554, Line Item 1 has been landfilled on
January 26, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

From #REC-FM-030-BEL The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274778
EQ Account #: 1125
Manifest / BOL: 016083777JJJ
Transporter: PAGE
Date: 01/26/2017
Time In: 8:30 AM
Time Out: 9:28 AM

Line	Description Generator	Qty. Unit
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	27.130 TONS
	Hazardous Surcharge Ton	27.130 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 86,560 Tare: 32,300 Net: 54,260	
2	Wayne Disposal Host Community Agreement Royalty Fee	27.130 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 86,560 Tare: 32,300 Net: 54,260	

NO SALVAGING ON PREMISES

PAGE# 2409

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083778 JJK	
5. Generator's Name and Mailing Address RESEARCH CTR ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309		Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309				
Generator's Phone: (518) 387-6902						
6. Transporter 1 Company Name PAGE E.T.C. INC		U.S. EPA ID Number NYD 986 969 947				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489		U.S. EPA ID Number MID 048 090 633				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171		001 DT		EST. 19,958	K
	2.					
	3.					
	4.					
13. Waste Codes PCB1 B007 L						
14. Special Handling Instructions and Additional Information 1. A170065WDI / (S) SOIL & CONCRETE => THAN 50 PPM PCBS, TSCA / SWMU-B STORAGE START DATE: 01/24/17 CONTAINER ID: 010 NYSDEC HANDLING CODE: L						
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/Officer's Printed/Typed Name PAUL G. Guilmette		Signature Paul G. Guilmette		Month Day Year 10/24/17		
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name BRETTSPACE Transporter 2 Printed/Typed Name Signature Month Day Year 11/24/17						
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: U.S. EPA ID Number						
18b. Alternate Facility (or Generator) Facility's Phone: 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. PCB 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 Chris Gussman Signature Month Day Year 11/25/17						



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid
and specified on Manifest # 016083778574, Line Item 1 has been landfilled on
January 25, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: 

848936

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1274727
EQ Account #: 1125
Manifest / BOL: 016083778JJK
Transporter: PAGE
Date: 01/25/2017
Time In: 10:23 AM
Time Out: 11:23 AM

Line	Description	Qty.	Unit
	Generator		
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	21.840	TONS
	Hazardous Surcharge Ton	21.840	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 78,080 Tare: 34,400 Net: 43,680		
2	Wayne Disposal Host Community Agreement Royalty Fee	21.840	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 78,080 Tare: 34,400 Net: 43,680		

Truck 2409
B.SPACE
Dispatch # 848936

NO SALVAGING ON PREMISES

6253

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083763 JJK	
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR. ATTN: PAUL GOILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309		Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309				
Generator's Phone: (518) 387-6902						
6. Transporter 1 Company Name PAGE E.T.C. INC		U.S. EPA ID Number NYD 986 969 947				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111		U.S. EPA ID Number MID 048 090 633				
Facility's Phone: (800) 592-5489						
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
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	No. 1	Type Bulk	18,200	K	PCB1 B007 L
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1 A170065WD1 / (S) SOIL & ASPHALT < THAN 50 PPM PCBS, TSCA / AOC-2 STORAGE START DATE: 2-7-17 CONTAINER ID: 3004 NYSDEC HANDLING CODE: L						
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/Officer's Printed/Typed Name Paul G. Guilmette		Signature Paul G. Guilmette		Month Day Year 12 2 17		
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Carmen Olenius		Signature Carmen Olenius		Month Day Year 12 2 17		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Actual weight 14683Koh per Michelle Narak and USS AP 2/7/17						
18b. Alternate Facility (or Generator)		U.S. EPA ID Number				
Facility's Phone:						
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. PCB	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 16a						
Printed/Typed Name Nikhil Sreen		Signature Nikhil Sreen		Month Day Year 12 6 17		



CERTIFICATE OF DISPOSAL

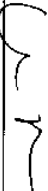
FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solids
and specified on Manifest # 016083763 JSC, Line Item 1 has been landfilled on
February 6, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALIFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: 

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1275219
EQ Account #: 1125
Manifest / BOL: 016083763JJK
Transporter: PAGE
Date: 02/06/2017
Time In: 7:28 AM
Time Out: 9:22 AM

Line	Description	Qty.	Unit
	Generator		
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	16.150	TONS
	Hazardous Surcharge Ton	16.150	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 81,400 Tare: 49,100 Net: 32,300		
2	Dig Out	1.000	EACH
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 81,400 Tare: 49,100 Net: 32,300		
3	Wayne Disposal Host Community Agreement Royalty Fee	16.150	TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL		
	Gross: 81,400 Tare: 49,100 Net: 32,300		

NO SALVAGING ON PREMISES

6253

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 071 094 197	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300 CHEMTREC	4. Manifest Tracking Number 016083786 JJK	
5. Generator's Name and Mailing Address GENERAL ELECTRIC GLOBAL RESEARCH CTR ATTN: PAUL GUILMETTE RESEARCH CIRCLE, K1-2C NISKAYUNA, NY 12309			Generator's Site Address (if different than mailing address) RIVER ROAD NISKAYUNA, NY 12309			
Generator's Phone: (518) 387-6902			U.S. EPA ID Number NYD 986 969 947			
6. Transporter 1 Company Name PAGE E T.C. INC			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 692-5489			U.S. EPA ID Number MID 048 090 633			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	1 CM		EST 3900	K	PCBT B007 L
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. AT70085WDI 7 (S) SOIL & ASPHALT < THAN 50 PPM PCBS, TSCA / AOC-2 STORAGE START DATE: 2/7/2017 CONTAINER ID: 2505 NYSDEC HANDLING CODE: L Roll off						
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/Officer's Printed/Typed Name Paul G. Guilmette		Signature Paul G. Guilmette		Month Day Year 2/7/17		
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Carmen O'Connor Signature Month Day Year 2/7/17 Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy 18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Actual weight 5964Kok per Michelle Nowak w/ USE BB 2/13/17 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 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. PCB 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 Signature Month Day Year						



CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solial
and specified on Manifest # 016085786 JK, Line Item 1 has been landfilled on
Feb 8, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Bruce Betteis

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQ NORTHEAST
185 INDUSTRIAL ROAD
WRENTHAM, MA 02093

Receipt ID: 1275326
EQ Account #: 1125
Manifest / BOL: 016083786JJK
Transporter: PAGE
Date: 02/08/2017
Time In: 7:20 AM
Time Out: 8:32 AM

Line	Description	Qty. Unit
	Generator	
1 - 1	A170065WDI - (S) TSCA-HAZ SOIL & CONCRETE	6.560 TONS
	Hazardous Surcharge Ton	6.560 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 57.740 Tare: 44.620 Net: 13.120	
2	Wayne Disposal Host Community Agreement Royalty Fee	6.560 TONS
	NYD071094197 GENERAL ELECTRIC GLOBAL	
	Gross: 57.740 Tare: 44.620 Net: 13.120	

NO SALVAGING ON PREMISES