Phase II Investigation Report

980 Ellicott Street Site
Buffalo, New York

March 2017 0378-017-002

Prepared For:

780 Ellicott Street, LLC

Prepared By:

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
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In Association With:

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PHASE II
INVESTIGATION REPORT

980 ELLICOTT STREET SITE
BUFFALO, NEW YORK

March 2017 0378-017-002

Prepared for:

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Prepared By:

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PHASE II
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980 Ellicott Street Site
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Buffalo, New York

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1.0 INTRODUCTION

1.1 Background

Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC (Benchmark TurnKey) performed a Phase II Investigation on behalf of 780 Ellicott Street, LLC at the property addressed as 980 Ellicott Street, City of Buffalo, Erie County, New York (i.e., the "Site"; see Figure 1). The investigations were performed based on Site observations, data collected during previous investigation and remedial actions (Refs. 1-4), as well as the August 2016 Phase I Environmental Site Assessment (Ref. 5) to determine if the historic practices at the Site have impacted portions of the Site and to allow adequate evaluation of the Site for possible entry of the property into the New York State Brownfield Cleanup Program (BCP).

1.2 Site Description

The Site is comprised of one parcel of approximately 1.35 acres, located in a highly developed mixed industrial, commercial, and residential area of the City of Buffalo, Erie County, New York (see Figures 1 and 2). Currently, the majority of the Site is hardscape with multiple structures and asphalt parking areas. The Erie County Real Property parcel boundaries are presented on Figure 2. The Site is located in the center of the City of Buffalo, and is bound by parking lots to the north and south, commercial properties to the west, and Ellicott Street to the east. Beyond the streets, the Site is bounded by mixed-use to the north, south, and west (residential and commercial) and residential to the east.

1.3 Purpose & Scope

This report has been prepared to document the procedures and findings of the Phase II Environmental Investigation (January/February 2017) of the 980 Ellicott Street Site. This report contains six (6) sections:

- Section 1 is the introduction
- Section 2 describes site investigation procedures and related activities.
- Section 3 presents investigation findings.
- Section 4 presents a summary and conclusions regarding the investigation.
- Sections 5 and 6 present report limitations and references, respectively.

2.0 SITE INVESTIGATION

2.1 Subsurface Soil Investigation

Soil borings advanced during the recent Phase II Investigation were identified to maintain consistent nomenclature with previous investigations. As such, direct-push borings advanced on January 31, 2017 were identified as SB-4 through SB-7 and borings advanced on February 24, 2017 were identified as SB-8 through SB-9. Each boring was advanced via direct-push drill rig through unconsolidated overburden to approximately 16 to 20 feet below ground surface (fbgs). Soil boring locations are shown on Figure 2. Qualified Benchmark TurnKey personnel described recovered samples in the field by visual-manual observation in accordance with ASTM Method D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), scanned each sample for total volatile organic vapors with a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp, and characterized each sample for impacts via visual and/or olfactory observations in approximate four-foot depth intervals.

Upon reaching the completion depth of each boring, field observations including PID, visual, and olfactory results were reviewed and recorded. The sample interval identified as the most impacted (i.e., greatest PID scan result and/or evidence of visual/olfactory impact) were selected for analysis. Due to the limited nature of this investigation, five subsurface soil samples were collected from borings SB-4, SB-6, SB-7, SB-8, and SB-9, placed in pre-cleaned, laboratory provided sample bottles using dedicated stainless steel sampling tools, and cooled in the field. The samples were transported under chain-of-custody to Alpha Analytical for Part 375 List volatile organic compound (VOC) (Method 5035/8260), semi-volatile organic compound (SVOC) (Method 8270), and total metal (Method 6010/7471) analysis in accordance with USEPA SW-846 methodology.

2.2 Groundwater Investigation

Subsequent to boring completion described above, borings SB-4 and SB-9 were converted into temporary groundwater monitoring wells TMW-2 and TMW-3, respectively, at the locations shown on Figure 2 to facilitate collection of representative groundwater

samples. Similar to the soil borings, temporary well locations were identified as such to maintain consistent nomenclature with previous investigations.

2.2.1 Temporary Monitoring Well Installation

Temporary wells were constructed of 1-inch I.D. flush-joint Schedule 40 PVC solid riser and a 10-foot machine slotted screen (0.010-inch slot size). The well screen and attached riser were placed within the borehole to facilitate groundwater sample collection with a polyethylene disposable bailer via direct grab protocols.

2.2.2 Groundwater Sample Collection

The groundwater accumulated in temporary wells was allowed to stabilize a minimum of one hour prior to groundwater sample collection. Groundwater grab samples were collected from each temporary well utilizing dedicated 0.5" polyethylene bailers. Field measurements of pH, temperature, specific conductance, dissolved oxygen, ORP, and turbidity were determined following collection of the analytical samples. Field measured parameters were recorded on Groundwater Field Forms presented in Appendix A. Each temporary well was manually decommissioned (pulled) following sample collection. The resulting open annulus was backfilled with drilling spoils and/or bentonite to match the existing grade.

Groundwater samples were placed in pre-cleaned laboratory provided sample bottles, cooled to 4 °C in the field, and transported under chain-of-custody to Alpha Analytical for Part 375 List volatile organic compound (VOC) (Method 5035/8260), semi-volatile organic compound (SVOC) (Method 8270), and total and dissolved metal (Method 6010/7470) analysis in accordance with USEPA SW-846 methodology.

3.0 INVESTIGATION FINDINGS

3.1 Field Observations

3.1.1 Soil

In general, the regolithic profile at the Site consists of the following units from grade: concrete slab (building floor), Sandy Lean Clay with Fill, Lean Clay, and Silty Sand units. Bedrock was not encountered during this investigation, however bedrock was observed approximately 63 fbgs during previous investigations. Recovered soil samples were observed and screened for VOCs using a PID with measurements ranging from approximately 0.1 ppm (SB-6) to 778 ppm (SB-9) above background (0.0 ppm). Boring logs presenting the regolithic profile as well as the results of PID scans with depth are presented in Appendix B.

The highest PID scan measurements appear to be concentrated within the zone over which the shallow groundwater table varies, indicative of petroleum-like impacts that are less dense than water and are associated with the historic use of the Site (i.e., light non-aqueous phase liquids, LNAPLs). As expected, these observed impacts appear to decline to a concentration at or near background (0.0 ppm) with depth (approximately 16 to 20 fbgs).

3.1.2 Groundwater

First groundwater was encountered within each of the seven boreholes approximately 11 fbgs. Petroleum-like odor was observed in the groundwater sample collected for analysis from TMW-3. No odor was observed in the groundwater sample collected at TMW-2.

3.2 Soil Analytical Results

Table 1 presents a summary of the detected compounds in subsurface soil at select borings SB-4, SB-6, SB-7, SB-8, and SB-9 compared to Soil Cleanup Objectives (SCOs) for unrestricted (USCOs), restricted-residential (RRSCOs), commercial (CSCOs) use as well as Protection of Groundwater (PGW) SCOs per 6NYCRR Part 375-6. Appendix C contains a copy of the laboratory analytical data packages.

As indicated on Table 1, the analytical data results exceeding the following SCOs (boring locations are indicated parenthetically) include:

- **USCO** exceedances included: several VOCs (SB-8 and SB-9); several SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs) (SB-4 and SB-9); arsenic (SB-6); lead (SB-4); and, mercury (SB-4 and SB-7).
- **RRSCO** exceedances included 1,2,4-trimethylbenzene (SB-8 and SB-9) and several PAHs (SB-4).
- **CSCO** exceedances included several PAHs (SB-4).
- **PWGSCO** exceedances included several VOCs (SB-8 and SB-9) and several PAHs (SB-4 and SB-9).

3.3 Groundwater Analytical Results

Groundwater sample results are summarized on Table 2 with comparison to Class GA Groundwater Quality Standards and Guidance Values (GWQSs/GVs) per NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1). A copy of the laboratory analytical data packages are included in Appendix C.

As indicated on Table 2, several VOCs, PAHs, and metals were detected at concentrations above their respective GWQSs/GVs in Site groundwater. Exceedances of the GWQSs/GVs were significantly higher in the sample from temporary well TMW-3 compared to the sample from temporary well TMW-2.

4.0 CONCLUSIONS & RECOMMENDATIONS

Based on the results of the Phase II Investigation at the Site, Benchmark TurnKey offers the following conclusions and recommendations:

- Field evidence of environmental impacts as evidenced by elevated PID readings and odors were identified in SB-8 and SB-9 located beneath the former Osmose building. PID readings up to 778 ppm and olfactory indicators were identified in SB-8 from approximately 2 to 15 fbgs. PID readings up to 745 ppm and olfactory indicators were identified in SB-9 from approximately 6 to 14 fbgs.
- Elevated concentrations of VOCs, SVOCs, and/or metals in soil were detected above USCOs, RRSCOs, CSCOs and/or PGWSCOs from the soil sample locations analyzed beneath the former Osmose building. Compounds identified are consistent with historical use of the property as a wood preserving/treatment and petroleum storage facility.
- Elevated concentrations of VOCs, SVOCs, and metals in groundwater were detected above GWQSs/GVs from the groundwater sample locations analyzed beneath the former Osmose building, indicating that the soil is potentially impacting Site groundwater.
- Further delineation of soil and groundwater impacts is warranted to determine the extent of impacts on-Site and to evaluate potential Site remedies.
- VOC detections in soil and groundwater indicate a soil vapor intrusion (SVI) study is warranted to assess whether subsurface impacts have impacted subslab vapor and/or indoor air within the former Osmose building(s) (Ref. 6). Based on the SVI study, a subslab depressurization (SSD) system may be required to protect the building and future occupants.

We understand 780 Ellicott Street, LLC is considering redevelopment of the Site for commercial/office or mixed-use. Based on the data collected during this investigation, it appears the Site is a good candidate for the New York BCP (Ref. 7) as it meets the definition of a "Brownfield site" as set forth in New York State Environmental Conservation Law (the "ECL"), which defines a "Brownfield site" as "any real property where a contaminant is present at levels exceeding the soil cleanup objectives or other health-based or environmental standards, criteria, or guidance adopted by the NYSDEC that are applicable based on the reasonably anticipated use of the property, in accordance with

applicable regulations." As such, the Site meets the BCP eligibility criteria based on the following:

(A) This Phase II Investigation has established Site groundwater has been impacted by contaminants exceeding Class GA GWQSs/GVs.

(B) This Phase II Investigation has established that Site soil exceeds the designated end-use cleanup criteria (i.e., CSCOs).

(C) Two (2) tanks are present on-site: an approximate 12,000 gallon underground storage tank (UST) located in the northwest corner of the parking lot and an approximate 12,000 gallon aboveground storage tank (AST). Both tanks formerly containing No. 2 Fuel Oil until 2011.

(D) Based on an April 2015 Phase II Environmental Site Assessment (Ref. 8), elevated concentrations of VOCs are present in basement indoor air.

(E) Except for the Superfund portion of the Site, the remaining proposed BCP Site has not previously been subject to cleanup activities by or under a State or Federal program.

(F) Historic operation of the Site as a manufacturing facility for a variety of preservatives used in the treatment of lumber and wood products since 1951 has resulted in environmental contamination.

(G) The Former Pilot Plant building, located in the southeastern portion of the site (see Figure 2), was identified as a former Welding and Metal School that contained an auto repair shop and coal storage from approximately 1930 to 1951.

(H) Previous investigations indicate the presence of a former gasoline station located on the adjacent property, 1159 Main Street, known as the Buffalo Tourist Lodge in 1925.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of 780 Ellicott Street, LLC. The contents of this report are limited to information available at the time of the site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of 780 Ellicott Street, LLC. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC and TurnKey Environmental Restoration, LLC.

6.0 REFERENCES

1. Groundwater Technology Inc., *Subsurface Investigation Report*, Osmose Wood Preserving, Inc., Buffalo, New York. June 28, 1991.
2. Groundwater Technology Inc., *Supplemental Investigation Report*, Osmose Wood Preserving, Inc., Buffalo, New York. July 28, 1992.
3. Groundwater Technology Inc., *Supplemental (Phase II) Investigation Report*, Osmose Wood Preserving, Inc., Buffalo, New York. August 27, 1993.
4. New York State Department of Environmental Conservation. Administrative Order on Consent (#B9-0314-90-01). March 30, 1999.
5. C&S Engineers, Inc., *Phase I Environmental Site Assessment Report*, Former Osmose Facility, City of Buffalo, Erie County, New York, prepared for 780 Ellicott Street, LLC. August 2016.
6. New York State Department of Health. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. October 2006. Expanded via June 25, 2007 memo.
7. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation.* May 2010.
8. Golder Associates Inc., *Phase II Environmental Site Assessment*. Osmose Realty Corp Site, Buffalo, New York, prepared for Hodgson Russ LLP. April 2015.

TABLES

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS

Phase II Site Investigation
980 Ellicott Street Site
Buffalo, New York

Parameter	Part 375 Soil Cleanup Objectives (SCOs)				Sample Location and Depth (feet below ground surface)				
	USCSs	RRSCOs	CSCOs	PGWSCOs	SB-4 (0.4 - 4.0)	SB-6 (0.4 - 2.0)	SB-7 (1.0 - 3.0)	SB-8 (9.0 - 11.0)	SB-9 (9.0 - 11.0)
Percent Solids (%)	--	--	--	--	*87.4*	*76.4*	*72.9*	*87.2*	*86.8*
VOLATILE ORGANICS (VOCs, mg/Kg)									
1,2,4-Trichlorobenzene	--	--	--	--	ND	0.049 J	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	52	190	3.6	ND	0.00031 J	ND	**140**	**79**
1,3,5-Trimethylbenzene	8.4	52	190	8.4	ND	0.00022 J	ND	**31**	**22**
1,3-Dichlorobenzene	0.02	49	280	2.4	ND	0.00062 J	ND	ND	ND
1,4-Dichlorobenzene	1.8	13	130	1.8	ND	0.00083 J	ND	ND	ND
Acetone	0.05	100	500	0.05	ND	0.0095 J	0.0087 J	ND	ND
Ethylbenzene	1	41	390	1	ND	ND	ND	**1.7**	0.74
Methylcyclohexane	--	--	--	--	ND	0.00063 J	0.00094 J	ND	ND
Methylene chloride	0.05	100	500	0.05	0.002 J	0.011 J	0.021 J	ND	ND
n-Propylbenzene	3.9	100	500	3.9	ND	ND	ND	**10**	3.8
n-Butylbenzene	12	100	500	12	ND	ND	ND	8.9	3.9
sec-Butylbenzene	11	100	500	11	ND	0.00018 J	ND	7.8	3
Toluene	0.7	100	500	0.7	0.00029 J	0.00052 J	0.0044 J	ND	0.39 J
Xylenes, total	0.26	100	500	0.7	ND	ND	ND	**5.7**	**8.6**
SEMIVOLATILE ORGANICS (SVOCs, mg/Kg)									
3-Methylphenol/4-Methylphenol	0.33	100	--	0.33	0.051 J	ND	ND	ND	**0.67**
2-Methylphenol	0.33	100	500	0.33	ND	ND	ND	ND	0.32
Acenaphthene	20	100	500	98	1.5	0.074 J	ND	1.4	ND
Acenaphthylene	100	100	500	107	0.12 J	ND	ND	ND	ND
Anthracene	100	100	500	1,000	2.9	ND	ND	0.29	0.51
Benzo(a)anthracene	1	1	5.6	1	**5.2**	ND	ND	0.13	0.19
Benzo(a)pyrene	1	1	1	22	**4.5**	ND	0.08 J	0.057 J	0.065 J
Benzo(b)fluoranthene	1	1	5.6	1.7	**5.9**	ND	0.075 J	0.059 J	0.1 J
Benzo(ghi)perylene	100	100	500	1,000	2.8	ND	0.04 J	0.038 J	0.024 J
Benzo(k)fluranthene	0.8	3.9	56	1.7	**1.9**	ND	ND	ND	ND
Chrysene	1	3.9	56	1	**5.2**	ND	0.14	0.10	0.18
Dibenzo(a,h)anthracene	0.33	0	0.56	1,000	**0.74**	ND	ND	ND	ND
Dibenzofuran	7	59	350	210	1.2	0.032 J	ND	0.62	1.1
Fluoranthene	100	100	500	1,000	13 D	0.041 J	0.17	0.69	1.3
Fluorene	30	100	500	386	1.4	0.042 J	ND	0.92	1.4
Indeo(1,2,3-cd)pyrene	0.5	0.5	5.6	8.2	**3.1**	ND	0.036 J	ND	ND
Naphthalene	12	100	500	12	1.2	0.049 J	ND	5.6	11 D
Pentachlorophenol	0.8	100	6.7	0.8	ND	ND	ND	ND	**1.8**
Phenol	0.33	100	500	0.33	ND	ND	ND	ND	**0.53**
Phenanthrene	100	100	500	1,000	13 D	0.039 J	0.15	2.2	3.3
Pyrene	100	100	500	1,000	10 D	0.038 J	0.17	0.54	0.83
METALS (mg/Kg)									
Arsenic	13	16	16	16	8	**14**	2.5	1.6	2.4
Barium	350	400	400	820	150	94	73	48	69
Beryllium	7.2	72	590	47	0.32	0.56	0.47	0.06 J	0.12 J
Cadmium	2.5	4.3	9.3	7.5	0.32 J	0.76	0.35 J	ND	ND
Chromium-III	30	180	1,500	NS	7.9	15	12	5.6	7.9
Copper	50	270	270	1,720	20	32	8	8.4	12
Cyanide, Total	27	27	27	40	ND	0.42	0.25 J	NA	NA
Lead	63	400	1,000	450	**260**	46	35	9.2	13
Manganese	1,600	2,000	10,000	2,000	200	480	230	280	340
Mercury	0.18	0.81	2.8	0.73	**0.6**	0.16	**0.39**	ND	ND
Nickel	30	310	310	30	7.1	14	7.1	6.4	10
Zinc	109	10,000	10,000	2,480	100	55	54	54	47

Notes:
1. Only those compounds detected at a minimum of one location are presented.
2. ND = Not Detected
3. NA = not analyzed for this compound

Qualifiers:
J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
D = Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

Color Code:
= Values exceeding Part 375 Unrestricted Soil Cleanup Objectives (USCOs) are highlighted in yellow.
= Values exceeding Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in orange.
= Values exceeding Part 375 Commercial Soil Cleanup Objectives (CSCOs) are highlighted in pink.
= Values exceeding Part 375 Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) are highlighted in blue.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS vs. GWQSs/GVs

Phase II Site Investigation
980 Ellicott Street Site
Buffalo, New York

Parameter	GWQS/GV	Temporary Well Location	
		SB-4 / TMW-2	SB-9 / TMW-3
VOLATILE ORGANICS (VOCs, ug/L)			
Benzene	1	ND	1 J
1,2,4-Trimethylbenzene	5	ND	**230**
1,3,5-Trimethylbenzene	5	ND	**74**
Acetone	50	ND	8.5 J
n-Butlbenzene	5	ND	**6.3 J**
n-propylbenzene	5	ND	**7.1 J**
sec-Butylbenzene	5	ND	4.2 J
Xylenes, total	5	ND	**31**
SEMIVOLATILE ORGANICS (SVOCs, ug/L)			
Benzo(a)anthracene	0.002 *	**0.05 J**	**0.44 J**
2-Methylphenol	--	ND	14
3-Methylphenol/4-Methylphenol	--	ND	21
Acenapthene	20	ND	**53**
Anthracene	50	ND	5.3
Benzo(a)pyrene	ND	0.1 J	ND
Benzo(b)fluoranthene	0.002 *	**0.08 J**	ND
Chrysene	0.002 *	**0.04 J**	ND
Dibenzofuran	--	ND	28
Fluoranthene	50 *	0.06 J	4
Fluorene	50	ND	28
Indeo(1,2,3-cd)pyrene	0.002 *	**0.08 J**	ND
Naphthalene	10 *	0.08 J	**530 D**
Pentachlorophenol	1 *	0.24 J	**60**
Phenanthrene	50 *	0.09 J	29
Pyrene	50 *	0.05 J	2.5 J
TOTAL METALS (ug/L)			
Arsenic	25	11.09	**86.31**
Barium	1000	97.28	**1989**
Beryllium	3 *	0.18 J	**6.7**
Cadmium	5	0.15 J	3.39
Chromium, total	50	ND	**229.7**
Chromium III	--	ND	NA
Copper	200	9.92	**400.2**
Cyanide	200	ND	NA
Lead	25	**194**	**495**
Manganese	300	275.9	**11070**
Mercury	0.7	ND	0.21
Nickel	100	7.16	**245.8**
Selenium	10	4.47 J	**53.7**
Silver	50	ND	0.82 J
Zinc	2000 *	55.29	921.3
DISSOLVED METALS (ug/L)			
Arsenic	25	9.31	5.28
Barium	1000	62.66	148.1
Beryllium	3 *	ND	ND
Cadmium	5	ND	0.13 J
Chromium, total	50	0.94 J	3.33
Chromium III	--	--	--
Copper	200	1.79	42.22
Cyanide	200	2 J	NA
Lead	25	0.86 J	0.77 J
Manganese	300	61.76	103.9
Mercury	0.7	ND	ND
Nickel	100	1.37 J	9.36
Selenium	10	ND	ND
Silver	50	ND	0.33 J
Zinc	2000 *	5.86 J	8.37 J

Notes:
1. Only those compounds detected at a minimum of one location are presented.
2. Values exceeding NYS Ambient Water Quality Class GA Groundwater Quality Standards/Guidance Values; NYSDEC June 1998 Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 are highlighted in yellow.
3. ND = Not Detected

Qualifiers:
J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
D = Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

FIGURES

F:\CAD\Benchmark\780 Ellicott Street LLC\980 Ellicott Street\00 - Phase II Investigation\Figure 1; Site Location & Vicinity Map.dwg

FIGURE 1

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0378-016-003

DATE: FEBRUARY 2017

DRAFTED BY: CCB

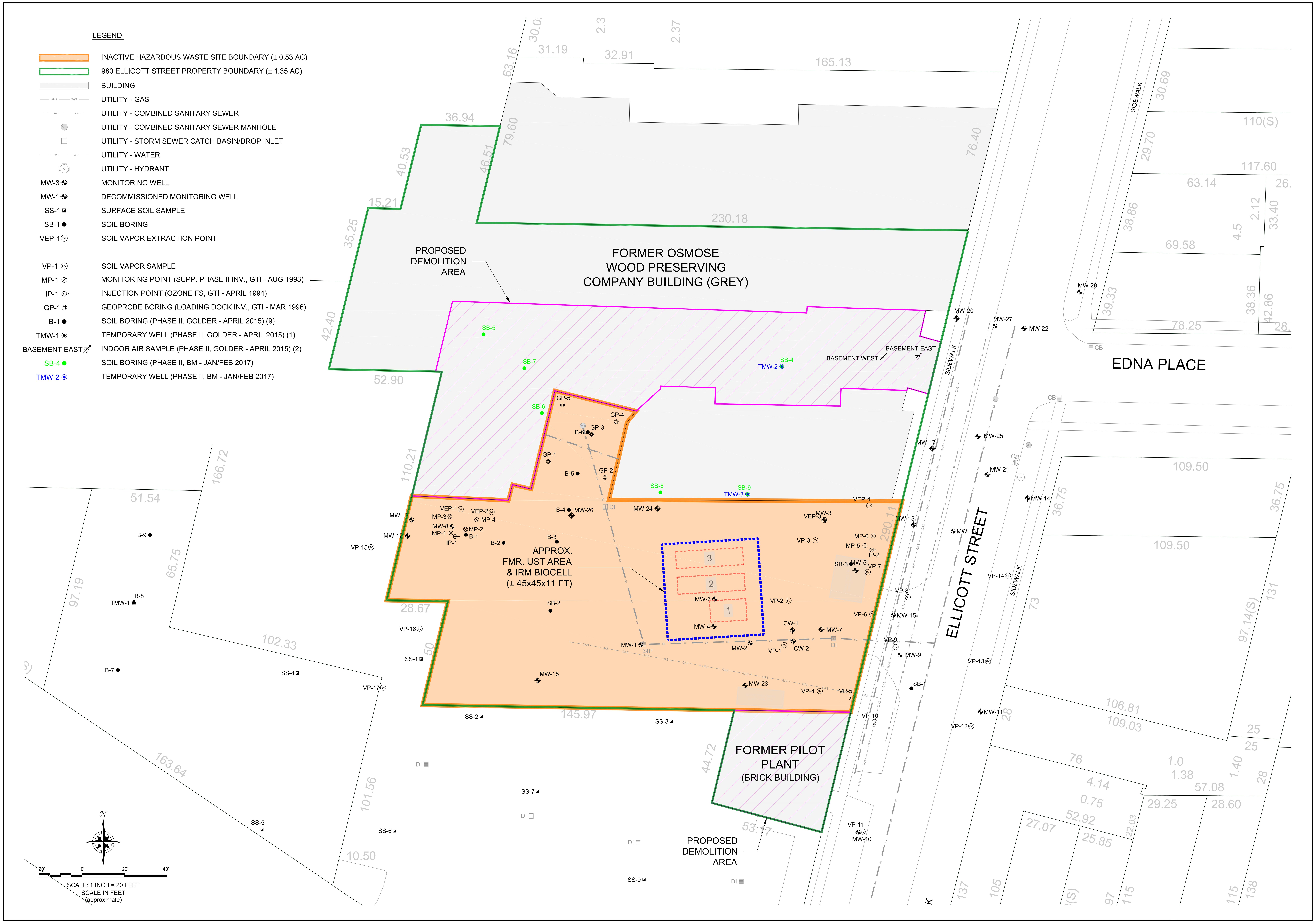
SITE LOCATION & VICINITY MAP

PHASE II INVESTIGATION

980 ELLICOTT STREET SITE
BUFFALO, NEW YORK

PREPARED FOR

780 ELLICOTT STREET, LLC


LEGEND:
INACTIVE HAZARDOUS WASTE SITE BOUNDARY (± 0.53 AC)
980 ELLICOTT STREET PROPERTY BOUNDARY (± 1.35 AC)
BUILDING
UTILITY - GAS
UTILITY - COMBINED SANITARY SEWER
UTILITY - COMBINED SANITARY SEWER MANHOLE
UTILITY - STORM SEWER CATCH BASIN/DROP INLET
UTILITY - WATER
UTILITY - HYDRANT
MW-3 MONITORING WELL
MW-1 DECOMMISSIONED MONITORING WELL
SS-1 SURFACE SOIL SAMPLE
SB-1 SOIL BORING
VEP-1 SOIL VAPOR EXTRACTION POINT
VP-1 SOIL VAPOR SAMPLE
MP-1 MONITORING POINT (SUPP. PHASE II INV., GTI - AUG 1993)
IP-1 INJECTION POINT (OZONE FS, GTI - APRIL 1994)
GP-1 GEOPROBE BORING (LOADING DOCK INV., GTI - MAR 1996)
B-1 SOIL BORING (PHASE II, GOLDER - APRIL 2015) (9)
TMW-1 TEMPORARY WELL (PHASE II, GOLDER - APRIL 2015) (1)
BASEMENT EAST INDOOR AIR SAMPLE (PHASE II, GOLDER - APRIL 2015) (2)
SB-4 SOIL BORING (PHASE II, BM - JAN/FEB 2017)
TMW-2 TEMPORARY WELL (PHASE II, BM - JAN/FEB 2017)
FORMER OSMOSE WOOD PRESERVING COMPANY BUILDING (GREY)
PROPOSED DEMOLITION AREA
APPROX. FMR. UST AREA & IRM BIOCELL (± 45x45x11 FT)
FORMER PILOT PLANT (BRICK BUILDING)
ELLICOTT STREET
EDNA PLACE
SIDEWALK
BASEMENT WEST
BASEMENT EAST
SCALE: 1 INCH = 20 FEET
SCALE IN FEET
(approximate)

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JOB NO.: 0378-017-004

REVISIONS

NO.	BY	DATE	REMARKS

SEAL

DRAWN BY: BCH

DATE: MARCH 2017

CHECKED BY:

APPROVED BY:

INVESTIGATION LOCATIONS

PHASE II INVESTIGATION
980 ELLICOTT STREET SITE (915143)
BUFFALO, NEW YORK

PREPARED FOR
780 ELLICOTT STREET, LLC

FIGURE 2

APPENDIX A

FIELD DOCUMENTATION

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: 980 Ellicott st Date: 2/1/17

Location: Buffalo NY Project No.: 0378-017-003 Field Team: TAB

Well No. TMW-2	Diameter (inches): 1"	Sample Date / Time: 2/1/17	1100
Product Depth (fbTOR): -	Water Column (ft): 6.20	DTW when sampled: 12.50	
DTW (static) (fbTOR): 10.48	One Well Volume (gal): 0.25	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample	
Total Depth (fbTOR): 16.68	Total Volume Purged (gal): 0.50	Purge Method: Peristaltic / VOC via Bailer	

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
9.35	S1 12.50	0.50	7.39	17.4	1316	<1000	2.80	-	Brown Sed No odor
11.0	S2 14.50	-	7.38	17.1	1302	37.1	4.38	-	SL Turbid No odor

Well No. TMW-3	Diameter (inches): 1"	Sample Date / Time: 2/24/17	1145
Product Depth (fbTOR): -	Water Column (ft): 7.15	DTW when sampled: 8.75	
DTW (static) (fbTOR): 10.25 / 8.75	One Well Volume (gal): 0.29	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample	
Total Depth (fbTOR): 17.40 / 16.28	Total Volume Purged (gal): -	Purge Method: Bailer	

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1145	S1 10.25	-	6.85	17.5	3375	<1000	0.90	6	Methane odor Turbid
	S2								

REMARKS: NEW Bottom 17.38 TMW-1

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: TAB

APPENDIX B

BORING & WELL COMPLETION LOGS

Project No: 0378-017-003

Borehole Number: SB-4

Project: 980 Ellicott St Phase II Investigation

A.K.A.: TMW-2

Client: 780 Ellicott Street, LLC

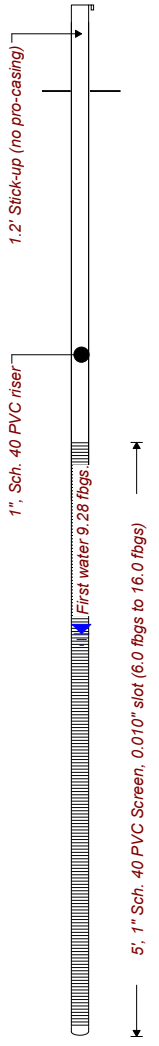
Logged By: TAB

Site Location: Buffalo NY

Checked By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
-1.0									
	0.0	Ground Surface							
	0.0	***Concrete***							
	-1.0 1.0	***Lean Clay with Sand and Fill*** Dark brown black, mostly low plasticty fines, little fine sand, few fine gravels (angular)					0.0		
		Fill Mostly orange and yellow brick with black non-plastic fines.	C1	NA	1.5		0.0	Sample location	
4.0	-4.0 4.0	***Lean Clay*** Reddish brown, moist, mostly medium plasticity fines, few fine sand, medium toughness, medium dry strength, very sitff, massive.	C2	NA	3.1		0.0 0.0		
	-8.0 8.0	As above, wet (9.0 fbgs).					0.0		
9.0			C3	NA	3.4		0.0		
	-10.5 10.5	***Poorly Graded Sand with Clay*** Reddish brown,moist, mostly fine sand, few low plasticity fines, medium dense, slow dilatency.							
	-12.0 12.0	***Silty Sand*** Reddish brown, wet, mostly fine sand, little non-plastic fines, very dense, low dialantency.					0.0		
14.0			C4	NA	2.7		0.0		
	-15.0 15.0	Equipment refusal 16.1 fbgs.							
	-16.1 16.1	End of Borehole							



Drilled By: Trec Environmental, Inc.
Drill Rig Type: 54LT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/31/17

Hole Size: 3-inch
Stick-up: NA
Datum: Mean sea level

Sheet: 1 of 1

Project No: 0378-017-003

Borehole Number: SB-5

Project: 980 Ellicott St Phase II Investigation

A.K.A.:

Client: 780 Ellicott Street, LLC

Logged By: TAB

Site Location: Buffalo NY

Checked By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0 -0.4	***Concrete***							
	0.4	***Sandy Lean Clay with Fill*** Reddish brown, moist, mostly medium plastic fines, little fine sand, with trace cinders and orange brick, stiff, massive, medium toughness medium dry strength.	C1	NA	1.2		0.0 0.0		
	-4.0 4.0	***Lean Clay*** Reddish brown, moist, mostly medium plasticity fines, few fine sand, medium toughness, medium dry strength, very sitff, massive.	C2	NA	3.2		0.0 0.0		
5.0	-8.0 8.0	***Lean Clay with Sand*** Reddish brown, moist, mostly medium plasticity fines, little fine sand, medium toughness, medium dry strength, very stiff, massive.	C3	NA	3.5		0.0 0.0		
10.0	-12.0 12.0	As above.	C4	NA	2.4		0.0		
	-14.5 14.5	***Clayey Sand*** Reddish brown, wet, mostly fine sand, little medium plasticty fines, very dense, low dialantency.					0.0		
15.0	-15.0 15.0	End of borehole 16.0 fbgs.							
	-16.0 16.0	End of Borehole							

First water 11.0 fbgs.

Drilled By: Trec Environmental, Inc.
Drill Rig Type: 54LT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/31/17

Hole Size: 3-inch
Stick-up: NA
Datum: Mean sea level

Sheet: 1 of 1

Project No: 0378-017-003

Borehole Number: SB-6

Project: 980 Ellicott St Phase II Investigation

A.K.A.:

Client: 780 Ellicott Street, LLC

Logged By: TAB

Site Location: Buffalo NY

Checked By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Concrete***							
		Bedding Stone Black, west, mostly fine gravel (coarse), some fine sand, medium dense, loose when disturbed, sewer type odor.	C1	NA	1.6		0.0, 0.2	Sample location	
		Lean Clay Reddish brown, moist, mostly medium plasticity fines, few fine sand, medium toughness, medium dry strength, very sitff, massive.	C2	NA	1.6		0.2		
	-4.0 4.0	As above, trace fine gravel (sub-rounded).	C3	NA	2.4		0.2, 0.2		
5.0									
	-8.0 8.0	***Poorly Graded Sand with Clay*** Reddish brown,moist to wet (9.0 fbgs), mostly fine sand, few low plasticity fines, medium dense, slow dilatency.	C4	NA	2.8		0.1, 0.1		
10.0									
	-12.0 12.0	***Silty Sand*** Reddish brown, wet, mostly fine sand, little non-plastic fines, trace fine gravel (sub-rounded), very dense, low dialantency.	C5	NA	2.0		0.1, 0.1		
15.0	-15.0 15.0	End of boring 16.0 fbgs.							
	-16.0 16.0	End of Borehole							
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: 420M
Drill Method: Direct Push
Comments:
Drill Date(s): 1/31/17

Hole Size: 3-inch
Stick-up: NA
Datum: Mean sea level

Sheet: 1 of 1

Project No: 0378-017-003

Borehole Number: SB-7

Project: 980 Ellicott St Phase II Investigation

A.K.A.:

Client: 780 Ellicott Street, LLC

Logged By: TAB

Site Location: Buffalo NY

Checked By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0 / -0.4	***Concrete***							
	0.4 / -1.0	***Poorly Graded Sand*** Reddish brown, moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.					0.0		
	1.0 / -1.4	***Fill*** Black, moist, mostly coal fines, medium dense loose when disturbed.	C1	NA	2.6		0.0	Sample location	
	1.4 / -3.0	***Sandy Lean Clay with Fill*** Reddish brown, moist, mostly medium plastic fines, little fine sand, with trace coal and ash, stiff, massive, medium toughness medium dry strength.							
	3.0 / -4.0	***Silty Sand*** Reddish brown, wet (3.0 fbgs), mostly fine sand, little non-plastic fines, very dense, low dialantency.					0.0		
5.0	4.0	***Lean Clay*** Reddish brown, moist, mostly medium plasticity fines, few fine sand, medium toughness, medium dry strength, very sitff, massive.	C2	NA	3.2		0.0		
	8.0 / -8.0	As above, wet (11.0 fbgs).					0.0		
10.0			C3	NA	1.8		0.0		
	12.0 / -12.0	***Silty Sand*** Reddish brown, wet, mostly fine sand, little non-plastic fines, very dense, low dialantency.					0.0		
			C4	NA	2.8				
15.0	15.0 / -15.0	End of borehole 16.0 fbgs.					0.0		
	16.0 / -16.0	End of Borehole							

First water 3.0 fbgs.

Drilled By: Trec Environmental, Inc.
Drill Rig Type: 54LT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/31/17

Hole Size: 3-inch
Stick-up: NA
Datum: Mean sea level

Sheet: 1 of 1

Project No: 0381-017-004

Borehole Number: SB-8

Project: 980 Ellicott St Phase II Investigation

A.K.A.:

Client: 780 Ellicott Street, LLC

Logged By: TAB

Site Location: Buffalo NY

Checked By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 / 500 / 1000)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Concrete***							
		Lean Clay with Sand and Fill Dark brown black, mostly medium plasticty fines, little fine sand, few fine gravels (angular), coal fragments, orange brick and concrete.					18.9		
	-2.0 2.0	***Lean Clay*** Reddish brown, moist, mostly medium plasticity fines, few fine sand, medium toughness, medium dry strength, very sitff, massive, sweet odor.	C1	NA	3.3		71.6, 50.5, 446		
	-4.0 4.0	As above.							
5.0			C2	NA	4.0		373, 362, 410		
	-8.0 8.0	***Poorly Graded Sand with Clay*** Reddish brown, moist to wet (11.0 fbgs), mostly fine sand, few low plasticity fines, medium dense, slow dilatency, sweet odor.					145, 745		
10.0			C3	NA	3.5		623	Sample location	
	-11.0 11.0	***Silty Sand*** Reddish brown, wet, mostly fine sand, little non-plastic fines, very dense, rapid dialantency, sweet odor.					438		
	-12.0 12.0	As above.					14.8, 90.9		
		Equipment refusal at 14.8 fbgs.							
			C4	NA	2.0		20.8		
	-14.8 14.8	End of Borehole							
15.0									

First water 11.0 fbgs.

Drilled By: Trec Environmental, Inc.
Drill Rig Type: 54LT
Drill Method: Direct Push
Comments:
Drill Date(s): 2/24/17

Hole Size: 3-inch
Stick-up: NA
Datum: Mean sea level

Sheet: 1 of 1

Project No: 0381-017-004

Borehole Number: SB-9

Project: 980 Ellicott St Phase II Investigation

A.K.A.: TMW-3

Client: 780 Ellicott Street, LLC

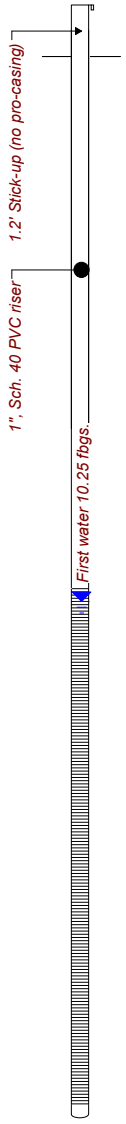
Logged By: TAB

Site Location: Buffalo NY

Checked By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 / 500 / 1000)	Lab Sample	Well Completion Details or Remarks
-1.0	0.0	Ground Surface							
	0.0	***Concrete***							
		Lean Clay with Sand and Fill Dark brown black, mostly medium plasticty fines, little fine sand, few fine gravels (angular), coal fragments, orange brick and concrete.	C1	NA	3.3		0.0 0.0		
4.0	-4.0 4.0	***Lean Clay*** Reddish brown, moist, mostly medium plasticity fines, few fine sand, medium toughness, medium dry strength, very sitff, massive, sweet odor.	C2	NA	4.0		3.2 18.5 66.0 155 252		
	-8.0 8.0 -8.5 8.5	As above.							
9.0		***Poorly Graded Sand with Clay*** Reddish brown, moist to wet (11.0 fbgs), mostly fine sand, few low plasticity fines, medium dense, slow dilatency, sweet odor.	C3	NA	3.5		548 778 723 486	Sample location	
	-12.0 12.0	***Silty Sand*** Reddish brown, wet, mostly fine sand, little non-plastic fines, very dense, rapid dialantency, sweet odor.					136		
14.0			C4	NA	2.0		33.7 16.1 18.6		
	-16.0 16.0	As above.							
			C5	NA	1.5		69.4 65.3		
19.0	-20.0 20.0	End of Borehole							



Drilled By: Trec Environmental, Inc.
Drill Rig Type: 54LT
Drill Method: Direct Push
Comments:
Drill Date(s): 2/24/17

Hole Size: 3-inch
Stick-up: NA
Datum: Mean sea level

Sheet: 1 of 1

APPENDIX C

LABORATORY ANALYTICAL DATA SUMMARY PACKAGES

ANALYTICAL REPORT

Lab Number:	L1703306
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Bryan Hann
Phone:	(716) 856-0599
Project Name:	980 ELLICOTT ST. SITE
Project Number:	0378-017-003
Report Date:	03/14/17

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1703306-01	TMW-2	WATER	BUFFALO, NY	02/01/17 11:00	02/01/17
L1703306-02	TRIP BLANK	WATER	BUFFALO, NY	02/01/17 00:00	02/01/17

Project Name:	980 ELLICOTT ST. SITE	**Lab Number:**	L1703306
Project Number:	0378-017-003	**Report Date:**	03/14/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	980 ELLICOTT ST. SITE	**Lab Number:**	L1703306
Project Number:	0378-017-003	**Report Date:**	03/14/17

Case Narrative (continued)

Report Submission

This report replaces the report issued February 8, 2017. The Client ID was changed on L1703306-01.

The sample collection date was provided by the client.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 03/14/17

ORGANICS

VOLATILES

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-01
Client ID: TMW-2
Sample Location: BUFFALO, NY

Date Collected: 02/01/17 11:00
Date Received: 02/01/17
Field Prep: Field Filtered (Dissolved Metals,CN, Hexcr)

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/06/17 17:48
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
2-Butanone	ND		ug/l	5.0	1.9	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-01
Client ID: TMW-2
Sample Location: BUFFALO, NY
Date Collected: 02/01/17 11:00
Date Received: 02/01/17
Field Prep: Field Filtered (Dissolved Metals,CN, Hexcr)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	120		70-130

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-02
Client ID: TRIP BLANK
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/06/17 18:13
Analyst: MM

Date Collected: 02/01/17 00:00
Date Received: 02/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
2-Butanone	ND		ug/l	5.0	1.9	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 980 ELLICOTT ST. SITE **Lab Number:** L1703306

Project Number: 0378-017-003 **Report Date:** 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-02 Date Collected: 02/01/17 00:00

Client ID: TRIP BLANK Date Received: 02/01/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	124		70-130

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/06/17 11:07
Analyst: MAB

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG975855-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
2-Butanone	ND		ug/l	5.0	1.9
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/06/17 11:07
Analyst: MAB

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG975855-5					
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG975855-3 WG975855-4								
Methylene chloride	92		89		70-130	3		20
1,1-Dichloroethane	94		87		70-130	8		20
Chloroform	96		90		70-130	6		20
Carbon tetrachloride	90		84		63-132	7		20
Tetrachloroethene	91		90		70-130	1		20
Chlorobenzene	93		92		75-130	1		20
1,2-Dichloroethane	96		91		70-130	5		20
1,1,1-Trichloroethane	93		86		67-130	8		20
Benzene	93		89		70-130	4		20
Toluene	93		91		70-130	2		20
Ethylbenzene	92		92		70-130	0		20
Vinyl chloride	81		77		55-140	5		20
1,1-Dichloroethene	68		88		61-145	**26**	Q	20
trans-1,2-Dichloroethene	92		87		70-130	6		20
Trichloroethene	93		86		70-130	8		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	94		95		70-130	1		20
1,4-Dichlorobenzene	93		94		70-130	1		20
Methyl tert butyl ether	98		94		63-130	4		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG975855-3 WG975855-4								
cis-1,2-Dichloroethene	94		89		70-130	5		20
Acetone	100		98		58-148	2		20
2-Butanone	96		89		63-138	8		20
n-Butylbenzene	85		84		53-136	1		20
sec-Butylbenzene	95		92		70-130	3		20
tert-Butylbenzene	83		82		70-130	1		20
n-Propylbenzene	92		90		69-130	2		20
1,3,5-Trimethylbenzene	90		89		64-130	1		20
1,2,4-Trimethylbenzene	90		88		70-130	2		20
1,4-Dioxane	104		96		56-162	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		93		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	99		95		70-130

SEMIVOLATILES

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-01
Client ID: TMW-2
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/07/17 22:03
Analyst: KV

Date Collected: 02/01/17 11:00
Date Received: 02/01/17
Field Prep: Field Filtered (Dissolved Metals,CN, Hexcr)

Extraction Method: EPA 3510C
Extraction Date: 02/05/17 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	74		41-149

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-01
Client ID: TMW-2
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/05/17 19:58
Analyst: KL

Date Collected: 02/01/17 11:00
Date Received: 02/01/17
Field Prep: Field Filtered (Dissolved Metals,CN, Hexcr)

Extraction Method: EPA 3510C
Extraction Date: 02/05/17 00:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
Fluoranthene	0.06	J	ug/l	0.20	0.04	1
Naphthalene	0.08	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	0.05	J	ug/l	0.20	0.02	1
Benzo(a)pyrene	0.10	J	ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.08	J	ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	0.04	J	ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	0.09	J	ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.08	J	ug/l	0.20	0.04	1
Pyrene	0.05	J	ug/l	0.20	0.04	1
Pentachlorophenol	0.24	J	ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	76		41-149

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/06/17 22:23
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/05/17 00:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG975457-1					
Dibenzofuran	ND		ug/l	2.0	0.66
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	85		41-149

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/05/17 17:36
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 02/05/17 00:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG975458-1					
Acenaphthene	ND		ug/l	0.10	0.04
Fluoranthene	ND		ug/l	0.20	0.04
Naphthalene	ND		ug/l	0.20	0.04
Benzo(a)anthracene	ND		ug/l	0.20	0.02
Benzo(a)pyrene	ND		ug/l	0.20	0.04
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04
Chrysene	ND		ug/l	0.20	0.04
Acenaphthylene	ND		ug/l	0.20	0.04
Anthracene	ND		ug/l	0.20	0.04
Benzo(ghi)perylene	ND		ug/l	0.20	0.04
Fluorene	ND		ug/l	0.20	0.04
Phenanthrene	ND		ug/l	0.20	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04
Pyrene	ND		ug/l	0.20	0.04
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	78		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE

Project Number: 0378-017-003

Lab Number: L1703306

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG975457-2 WG975457-3								
Dibenzofuran	72		82		40-140	13		30
Phenol	38		41		12-110	8		30
2-Methylphenol	69		76		30-130	10		30
3-Methylphenol/4-Methylphenol	69		78		30-130	12		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		56		21-120
Phenol-d6	40		41		10-120
Nitrobenzene-d5	84		87		23-120
2-Fluorobiphenyl	79		85		15-120
2,4,6-Tribromophenol	80		89		10-120
4-Terphenyl-d14	81		89		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG975458-2 WG975458-3								
Acenaphthene	63		68		37-111	8		40
Fluoranthene	73		77		40-140	5		40
Naphthalene	60		65		40-140	8		40
Benzo(a)anthracene	75		80		40-140	6		40
Benzo(a)pyrene	67		68		40-140	1		40
Benzo(b)fluoranthene	68		72		40-140	6		40
Benzo(k)fluoranthene	71		75		40-140	5		40
Chrysene	70		74		40-140	6		40
Acenaphthylene	68		73		40-140	7		40
Anthracene	76		81		40-140	6		40
Benzo(ghi)perylene	75		80		40-140	6		40
Fluorene	72		77		40-140	7		40
Phenanthrene	67		71		40-140	6		40
Dibenzo(a,h)anthracene	75		79		40-140	5		40
Indeno(1,2,3-cd)pyrene	73		78		40-140	7		40
Pyrene	73		78		26-127	7		40
Pentachlorophenol	80		84		9-103	5		40
Hexachlorobenzene	69		74		40-140	7		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE

Project Number: 0378-017-003

Lab Number: L1703306

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG975458-2 WG975458-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	42		45		21-120
Phenol-d6	32		33		10-120
Nitrobenzene-d5	63		68		23-120
2-Fluorobiphenyl	60		63		15-120
2,4,6-Tribromophenol	74		77		10-120
4-Terphenyl-d14	77		80		41-149

METALS

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-01
Client ID: TMW-2
Sample Location: BUFFALO, NY
Matrix: Water
Date Collected: 02/01/17 11:00
Date Received: 02/01/17
Field Prep: Field Filtered (Dissolved Metals,CN, Hexcr)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.01109		mg/l	0.00050	0.00016	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Barium, Total	0.09728		mg/l	0.00050	0.00017	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00018	J	mg/l	0.00050	0.00010	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00015	J	mg/l	0.00020	0.00005	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Chromium, Total	0.00666		mg/l	0.00100	0.00017	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Copper, Total	0.00992		mg/l	0.00100	0.00038	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Lead, Total	0.1940		mg/l	0.00100	0.00034	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Manganese, Total	0.2759		mg/l	0.00400	0.00044	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/03/17 10:13	02/07/17 18:42	EPA 7470A	1,7470A	EA
Nickel, Total	0.00716		mg/l	0.00200	0.00055	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Selenium, Total	0.00447	J	mg/l	0.00500	0.00173	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
Zinc, Total	0.05529		mg/l	0.01000	0.00341	1	02/06/17 09:12	02/07/17 11:39	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		02/07/17 11:39	NA	107,-	
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	0.00931		mg/l	0.00050	0.00016	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.06266		mg/l	0.00050	0.00017	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00094	J	mg/l	0.00100	0.00017	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00179		mg/l	0.00100	0.00038	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Lead, Dissolved	0.00086	J	mg/l	0.00100	0.00034	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.06176		mg/l	0.00100	0.00044	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/17 10:56	02/08/17 13:34	EPA 7470A	1,7470A	BV
Nickel, Dissolved	0.00137	J	mg/l	0.00200	0.00055	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-01
Client ID: TMW-2
Sample Location: BUFFALO, NY
Matrix: Water
Date Collected: 02/01/17 11:00
Date Received: 02/01/17
Field Prep: Field Filtered (Dissolved Metals,CN, Hexcr)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Zinc, Dissolved	0.00586	J	mg/l	0.01000	0.00341	1	02/06/17 09:52	02/07/17 12:28	EPA 3005A	1,6020A	AM

Project Name: 980 ELLICOTT ST. SITE **Lab Number:** L1703306

Project Number: 0378-017-003 **Report Date:** 03/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG975080-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/03/17 10:13	02/07/17 18:32	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG975564-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Manganese, Total	0.00340	J	mg/l	0.00400	0.00044	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	02/06/17 09:12	02/07/17 11:03	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG975601-1										
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Copper, Dissolved	ND	mg/l	0.00100	0.00038	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Lead, Dissolved	ND	mg/l	0.00100	0.00034	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Manganese, Dissolved	ND	mg/l	0.00100	0.00044	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Nickel, Dissolved	ND	mg/l	0.00200	0.00055	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Selenium, Dissolved	ND	mg/l	0.00500	0.00173	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Silver, Dissolved	ND	mg/l	0.00040	0.00016	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM
Zinc, Dissolved	ND	mg/l	0.01000	0.00341	1	02/06/17 09:52	02/07/17 11:54	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG976322-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/08/17 10:56	02/08/17 13:30	1,7470A	BV

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE

Project Number: 0378-017-003

Lab Number: L1703306

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG975080-2								
Mercury, Total	100		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG975564-2								
Arsenic, Total	96		-		80-120	-		
Barium, Total	108		-		80-120	-		
Beryllium, Total	101		-		80-120	-		
Cadmium, Total	103		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Copper, Total	94		-		80-120	-		
Lead, Total	106		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Selenium, Total	107		-		80-120	-		
Silver, Total	100		-		80-120	-		
Zinc, Total	88		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE

Project Number: 0378-017-003

Lab Number: L1703306

Report Date: 03/14/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG975601-2					
Arsenic, Dissolved	101	-	80-120	-	
Barium, Dissolved	101	-	80-120	-	
Beryllium, Dissolved	98	-	80-120	-	
Cadmium, Dissolved	101	-	80-120	-	
Chromium, Dissolved	99	-	80-120	-	
Copper, Dissolved	101	-	80-120	-	
Lead, Dissolved	105	-	80-120	-	
Manganese, Dissolved	105	-	80-120	-	
Nickel, Dissolved	102	-	80-120	-	
Selenium, Dissolved	108	-	80-120	-	
Silver, Dissolved	102	-	80-120	-	
Zinc, Dissolved	100	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG976322-2					
Mercury, Dissolved	109	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG975080-3 QC Sample: L1703305-14 Client ID: MS Sample												
Mercury, Total	0.00065	0.005	0.00585	104		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG975564-3 WG975564-4 QC Sample: L1703496-02 Client ID: MS Sample												
Arsenic, Total	0.00674	0.12	0.1135	89		0.1198	94		75-125	5		20
Barium, Total	0.3707	2	2.472	105		2.422	102		75-125	2		20
Beryllium, Total	0.00017J	0.05	0.05002	100		0.04988	100		75-125	0		20
Cadmium, Total	0.00018J	0.051	0.04782	94		0.05395	106		75-125	12		20
Chromium, Total	0.00397	0.2	0.1986	97		0.1934	95		75-125	3		20
Copper, Total	0.01904	0.25	0.2500	92		0.2611	97		75-125	4		20
Lead, Total	0.01134	0.51	0.5274	101		0.5451	105		75-125	3		20
Manganese, Total	1.204	0.5	1.658	91		1.756	110		75-125	6		20
Nickel, Total	0.00891	0.5	0.4832	95		0.4965	98		75-125	3		20
Selenium, Total	ND	0.12	0.112	93		0.100	83		75-125	11		20
Silver, Total	ND	0.05	0.04794	96		0.04854	97		75-125	1		20
Zinc, Total	0.03719	0.5	0.4841	89		0.4682	86		75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG975601-3 QC Sample: L1703306-01 Client ID: TMW-2									
Arsenic, Dissolved	0.00931	0.12	0.1386	108	-	-	75-125	-	20
Barium, Dissolved	0.06266	2	2.204	107	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04886	98	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05492	108	-	-	75-125	-	20
Chromium, Dissolved	0.00094J	0.2	0.2268	113	-	-	75-125	-	20
Copper, Dissolved	0.00179	0.25	0.2764	110	-	-	75-125	-	20
Lead, Dissolved	0.00086J	0.51	0.5607	110	-	-	75-125	-	20
Manganese, Dissolved	0.06176	0.5	0.6408	116	-	-	75-125	-	20
Nickel, Dissolved	0.00137J	0.5	0.5641	113	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.116	97	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05318	106	-	-	75-125	-	20
Zinc, Dissolved	0.00586J	0.5	0.5339	107	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG976322-3 QC Sample: L1703306-01 Client ID: TMW-2									
Mercury, Dissolved	ND	0.005	0.00492	98	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG975080-4 QC Sample: L1703305-14 Client ID: DUP Sample						
Mercury, Total	0.00065	0.00045	mg/l	**35**	Q	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG975601-4 QC Sample: L1703306-01 Client ID: TMW-2						
Arsenic, Dissolved	0.00931	0.00954	mg/l	2		20
Barium, Dissolved	0.06266	0.06608	mg/l	5		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	0.00094J	0.00115	mg/l	NC		20
Copper, Dissolved	0.00179	0.00201	mg/l	12		20
Lead, Dissolved	0.00086J	0.00088J	mg/l	NC		20
Manganese, Dissolved	0.06176	0.06472	mg/l	5		20
Nickel, Dissolved	0.00137J	0.00209	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	0.00586J	0.00555J	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG976322-4 QC Sample: L1703306-01 Client ID: TMW-2						
Mercury, Dissolved	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703306-01
Client ID: TMW-2
Sample Location: BUFFALO, NY
Matrix: Water

Date Collected: 02/01/17 11:00
Date Received: 02/01/17
Field Prep: Field Filtered (Dissolved Metals,CN, Hexcr)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/02/17 15:15	02/03/17 13:32	1,9010C/9012B	DE
Cyanide, Dissolved	0.002	J	mg/l	0.005	0.001	1	02/02/17 15:15	02/03/17 13:11	1,9010C/9012B	DE
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	02/02/17 03:48	02/02/17 04:04	1,7196A	VB

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003
Lab Number: L1703306
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG974627-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	02/02/17 03:48	02/02/17 04:03	1,7196A	VB
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG974819-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/02/17 16:05	02/03/17 14:29	1,9010C/9012B	DE
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG974820-1										
Cyanide, Dissolved	ND		mg/l	0.005	0.001	1	02/02/17 15:15	02/03/17 13:04	1,9010C/9012B	DE

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE

Project Number: 0378-017-003

Lab Number: L1703306

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG974627-2								
Chromium, Hexavalent	99		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG974819-2 WG974819-3								
Cyanide, Total	101		104		85-115	3		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG974820-2 WG974820-3								
Cyanide, Dissolved	101		103		80-120	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG974627-3 QC Sample: L1703306-01 Client ID: TMW-2												
Chromium, Hexavalent	ND	0.1	0.106	106		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG974819-4 WG974819-5 QC Sample: L1703315-16 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.198	99		0.199	100		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG974820-4 WG974820-5 QC Sample: L1703306-01 Client ID: TMW-2												
Cyanide, Dissolved	0.002J	0.2	0.197	98		0.196	98		80-120	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG974627-4 QC Sample: L1703306-01 Client ID: TMW-2						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: 980 ELLICOTT ST. SITE
Project Number: 0378-017-003

Lab Number: L1703306
Report Date: 03/14/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1703306-01A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1703306-01B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1703306-01C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1703306-01D	Amber 1000ml unpreserved	A	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1703306-01E	Amber 1000ml unpreserved	A	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1703306-01F	Plastic 250ml unpreserved	A	7	3.1	Y	Absent	HEXCR-7196(1)
L1703306-01G	Plastic 250ml NaOH preserved	A	>12	3.1	Y	Absent	TCN-9010(14)
L1703306-01H	Plastic 250ml NaOH preserved	A	>12	3.1	Y	Absent	SCN-9010(14)
L1703306-01I	Plastic 500ml HNO3 preserved	A	<2	3.1	Y	Absent	BA-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1703306-01J	Plastic 250ml unpreserved	A	7	3.1	Y	Absent	HOLD-WETCHEM()
L1703306-01X	Plastic 500ml HNO3 preserved	A	<2	3.1	Y	Absent	CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28)
L1703306-02A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1703306-02B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	980 ELLICOTT ST. SITE	**Lab Number:**	L1703306
Project Number:	0378-017-003	**Report Date:**	03/14/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	980 ELLICOTT ST. SITE	**Lab Number:**	L1703306
Project Number:	0378-017-003	**Report Date:**	03/14/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	980 ELLICOTT ST. SITE	**Lab Number:**	L1703306
Project Number:	0378-017-003	**Report Date:**	03/14/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 2/2/17

ALPHA Job #: L703306

Client Information

Client: Turnkey Environmental
Address: 2558 Hamburg Turnpike Suite 300 Lackawanna NY 14218
Phone: (716) 818-8558
Fax:
Email: PBehrendt@TurnkeyLLC.com

Project Information

Project Name: 480 Ellicott st site
Project Location: Buffalo NY
Project #: 0378-017-603
(Use Project name as Project #) ☒
Project Manager: Bryanne Hamm
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375 VOC 8260	Part 375 SVOC 8270	Part 375 TAL Metals	Part 375 TCN	CR+6 Total	Part 375 Sol. Metals	Sol. CN	Sol. CR+6	Sample Specific Comments	Total Bottle
03306-01	TMW-1	1/30/17	1100	water	TAB	3	15	1	1	1	1	1	1	Limited Volume	11
02	Trip Blank					2									

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	2/1/17 1317	AAL	2/01/17 13:55
AAL	2/01/17 1435		2/2/17 0000

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1703189
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Bryan Hann
Phone:	(716) 856-0599
Project Name:	980 ELLICOTT ST SITE
Project Number:	0378-017-003
Report Date:	03/14/17

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1703189-01	SB-6 (0.4-2.0)	SOIL	BUFFALO NY	01/30/17 10:10	01/30/17
L1703189-02	SB-4 (0.4-4.0)	SOIL	BUFFALO NY	01/30/17 11:40	01/30/17
L1703189-03	SB-7 (1-3)	SOIL	BUFFALO NY	01/30/17 13:00	01/30/17

Project Name:	980 ELLICOTT ST SITE	**Lab Number:**	L1703189
Project Number:	0378-017-003	**Report Date:**	03/14/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	980 ELLICOTT ST SITE	**Lab Number:**	L1703189
Project Number:	0378-017-003	**Report Date:**	03/14/17

Case Narrative (continued)

Report Submission

This report replaces the report issued February 6, 2017. The Client IDs were changed on L1703189-02 and -03.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Cyanide, Total

The WG974301-2 LCS recovery (127%), associated with L1703189-02 and -03, is above our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG974301-2/-3 LCS/LCSD RPD (43%), associated with L1703189-02 and -03, is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Melissa Cripps

Title: Technical Director/Representative Date: 03/14/17

ORGANICS

VOLATILES

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-01
Client ID: SB-6 (0.4-2.0)
Sample Location: BUFFALO NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/02/17 13:13
Analyst: MV
Percent Solids: 76%

Date Collected: 01/30/17 10:10
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	11	J	ug/kg	15	1.6	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.13	1
Chloroform	ND		ug/kg	2.2	0.55	1
Carbon tetrachloride	ND		ug/kg	1.5	0.31	1
1,2-Dichloropropane	ND		ug/kg	5.2	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.45	1
Tetrachloroethene	ND		ug/kg	1.5	0.21	1
Chlorobenzene	ND		ug/kg	1.5	0.52	1
Trichlorofluoromethane	ND		ug/kg	7.4	0.58	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.16	1
Bromodichloromethane	ND		ug/kg	1.5	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.17	1
Bromoform	ND		ug/kg	5.9	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.15	1
Benzene	ND		ug/kg	1.5	0.18	1
Toluene	0.52	J	ug/kg	2.2	0.29	1
Ethylbenzene	ND		ug/kg	1.5	0.19	1
Chloromethane	ND		ug/kg	7.4	0.44	1
Bromomethane	ND		ug/kg	3.0	0.50	1
Vinyl chloride	ND		ug/kg	3.0	0.17	1
Chloroethane	ND		ug/kg	3.0	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.32	1
Trichloroethene	ND		ug/kg	1.5	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	7.4	0.23	1
1,3-Dichlorobenzene	0.62	J	ug/kg	7.4	0.20	1
1,4-Dichlorobenzene	0.83	J	ug/kg	7.4	0.20	1

Project Name: 980 ELLICOTT ST SITE **Lab Number:** L1703189

Project Number: 0378-017-003 **Report Date:** 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-01 Date Collected: 01/30/17 10:10

Client ID: SB-6 (0.4-2.0) Date Received: 01/30/17

Sample Location: BUFFALO NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.0	0.12	1
p/m-Xylene	ND		ug/kg	3.0	0.52	1
o-Xylene	ND		ug/kg	3.0	0.50	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Styrene	ND		ug/kg	3.0	0.60	1
Dichlorodifluoromethane	ND		ug/kg	15	0.28	1
Acetone	9.5	J	ug/kg	15	1.5	1
Carbon disulfide	ND		ug/kg	15	1.6	1
2-Butanone	ND		ug/kg	15	0.40	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.36	1
2-Hexanone	ND		ug/kg	15	0.99	1
Bromochloromethane	ND		ug/kg	7.4	0.41	1
1,2-Dibromoethane	ND		ug/kg	5.9	0.26	1
n-Butylbenzene	ND		ug/kg	1.5	0.17	1
sec-Butylbenzene	0.18	J	ug/kg	1.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.4	0.59	1
Isopropylbenzene	ND		ug/kg	1.5	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.18	1
n-Propylbenzene	ND		ug/kg	1.5	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.4	0.22	1
1,2,4-Trichlorobenzene	49		ug/kg	7.4	0.27	1
1,3,5-Trimethylbenzene	0.22	J	ug/kg	7.4	0.21	1
1,2,4-Trimethylbenzene	0.31	J	ug/kg	7.4	0.21	1
Methyl Acetate	ND		ug/kg	30	0.40	1
Cyclohexane	ND		ug/kg	30	0.22	1
1,4-Dioxane	ND		ug/kg	150	21.	1
Freon-113	ND		ug/kg	30	0.41	1
Methyl cyclohexane	0.63	J	ug/kg	5.9	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-02
Client ID: SB-4 (0.4-4.0)
Sample Location: BUFFALO NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/02/17 13:40
Analyst: MV
Percent Solids: 87%

Date Collected: 01/30/17 11:40
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	2.0	J	ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	0.29	J	ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1

Project Name: 980 ELLICOTT ST SITE
Lab Number: L1703189
Project Number: 0378-017-003
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-02
Client ID: SB-4 (0.4-4.0)
Sample Location: BUFFALO NY
Date Collected: 01/30/17 11:40
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.43	1
o-Xylene	ND		ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.1	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.17	1
Methyl Acetate	ND		ug/kg	24	0.33	1
Cyclohexane	ND		ug/kg	24	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	24	0.33	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-03
Client ID: SB-7 (1-3)
Sample Location: BUFFALO NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/03/17 16:50
Analyst: BN
Percent Solids: 73%

Date Collected: 01/30/17 13:00
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	21	J	ug/kg	36	4.0	1
1,1-Dichloroethane	ND		ug/kg	5.4	0.31	1
Chloroform	ND		ug/kg	5.4	1.3	1
Carbon tetrachloride	ND		ug/kg	3.6	0.76	1
1,2-Dichloropropane	ND		ug/kg	13	0.82	1
Dibromochloromethane	ND		ug/kg	3.6	0.55	1
1,1,2-Trichloroethane	ND		ug/kg	5.4	1.1	1
Tetrachloroethene	ND		ug/kg	3.6	0.51	1
Chlorobenzene	ND		ug/kg	3.6	1.2	1
Trichlorofluoromethane	ND		ug/kg	18	1.4	1
1,2-Dichloroethane	ND		ug/kg	3.6	0.41	1
1,1,1-Trichloroethane	ND		ug/kg	3.6	0.40	1
Bromodichloromethane	ND		ug/kg	3.6	0.62	1
trans-1,3-Dichloropropene	ND		ug/kg	3.6	0.44	1
cis-1,3-Dichloropropene	ND		ug/kg	3.6	0.42	1
Bromoform	ND		ug/kg	14	0.85	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.6	0.36	1
Benzene	ND		ug/kg	3.6	0.42	1
Toluene	4.4	J	ug/kg	5.4	0.70	1
Ethylbenzene	ND		ug/kg	3.6	0.46	1
Chloromethane	ND		ug/kg	18	1.1	1
Bromomethane	ND		ug/kg	7.2	1.2	1
Vinyl chloride	ND		ug/kg	7.2	0.42	1
Chloroethane	ND		ug/kg	7.2	1.1	1
1,1-Dichloroethene	ND		ug/kg	3.6	0.94	1
trans-1,2-Dichloroethene	ND		ug/kg	5.4	0.76	1
Trichloroethene	ND		ug/kg	3.6	0.45	1
1,2-Dichlorobenzene	ND		ug/kg	18	0.55	1
1,3-Dichlorobenzene	ND		ug/kg	18	0.49	1
1,4-Dichlorobenzene	ND		ug/kg	18	0.50	1

Project Name: 980 ELLICOTT ST SITE **Lab Number:** L1703189

Project Number: 0378-017-003 **Report Date:** 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-03 Date Collected: 01/30/17 13:00

Client ID: SB-7 (1-3) Date Received: 01/30/17

Sample Location: BUFFALO NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	7.2	0.30	1
p/m-Xylene	ND		ug/kg	7.2	1.3	1
o-Xylene	ND		ug/kg	7.2	1.2	1
cis-1,2-Dichloroethene	ND		ug/kg	3.6	0.52	1
Styrene	ND		ug/kg	7.2	1.4	1
Dichlorodifluoromethane	ND		ug/kg	36	0.69	1
Acetone	8.7	J	ug/kg	36	3.7	1
Carbon disulfide	ND		ug/kg	36	4.0	1
2-Butanone	ND		ug/kg	36	0.98	1
4-Methyl-2-pentanone	ND		ug/kg	36	0.88	1
2-Hexanone	ND		ug/kg	36	2.4	1
Bromochloromethane	ND		ug/kg	18	1.0	1
1,2-Dibromoethane	ND		ug/kg	14	0.63	1
n-Butylbenzene	ND		ug/kg	3.6	0.41	1
sec-Butylbenzene	ND		ug/kg	3.6	0.44	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	18	1.4	1
Isopropylbenzene	ND		ug/kg	3.6	0.37	1
p-Isopropyltoluene	ND		ug/kg	3.6	0.45	1
n-Propylbenzene	ND		ug/kg	3.6	0.39	1
1,2,3-Trichlorobenzene	ND		ug/kg	18	0.53	1
1,2,4-Trichlorobenzene	ND		ug/kg	18	0.66	1
1,3,5-Trimethylbenzene	ND		ug/kg	18	0.52	1
1,2,4-Trimethylbenzene	ND		ug/kg	18	0.51	1
Methyl Acetate	ND		ug/kg	72	0.97	1
Cyclohexane	ND		ug/kg	72	0.53	1
1,4-Dioxane	ND		ug/kg	360	52.	1
Freon-113	ND		ug/kg	72	0.99	1
Methyl cyclohexane	0.94	J	ug/kg	14	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	98		70-130

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/17 09:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG975060-5					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/17 09:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG975060-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/17 09:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG975060-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	91		70-130

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/03/17 10:01
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG975169-5					
Methylene chloride	3.3	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/03/17 10:01
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG975169-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/03/17 10:01
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG975169-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG975060-3 WG975060-4								
Methylene chloride	98		92		70-130	6		30
1,1-Dichloroethane	103		95		70-130	8		30
Chloroform	104		98		70-130	6		30
Carbon tetrachloride	78		70		70-130	11		30
1,2-Dichloropropane	105		100		70-130	5		30
Dibromochloromethane	83		84		70-130	1		30
1,1,2-Trichloroethane	104		101		70-130	3		30
Tetrachloroethene	100		87		70-130	14		30
Chlorobenzene	101		95		70-130	6		30
Trichlorofluoromethane	132		110		70-139	18		30
1,2-Dichloroethane	106		103		70-130	3		30
1,1,1-Trichloroethane	96		86		70-130	11		30
Bromodichloromethane	95		94		70-130	1		30
trans-1,3-Dichloropropene	88		86		70-130	2		30
cis-1,3-Dichloropropene	98		95		70-130	3		30
Bromoform	**67**	Q	**68**	Q	70-130	1		30
1,1,2,2-Tetrachloroethane	99		100		70-130	1		30
Benzene	105		97		70-130	8		30
Toluene	100		91		70-130	9		30
Ethylbenzene	100		90		70-130	11		30
Chloromethane	93		84		52-130	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG975060-3 WG975060-4								
Bromomethane	146		130		57-147	12		30
Vinyl chloride	115		99		67-130	15		30
Chloroethane	129		113		50-151	13		30
1,1-Dichloroethene	102		88		65-135	15		30
trans-1,2-Dichloroethene	107		95		70-130	12		30
Trichloroethene	104		94		70-130	10		30
1,2-Dichlorobenzene	98		95		70-130	3		30
1,3-Dichlorobenzene	97		91		70-130	6		30
1,4-Dichlorobenzene	98		93		70-130	5		30
Methyl tert butyl ether	107		105		66-130	2		30
p/m-Xylene	102		93		70-130	9		30
o-Xylene	102		95		70-130	7		30
cis-1,2-Dichloroethene	107		101		70-130	6		30
Styrene	103		96		70-130	7		30
Dichlorodifluoromethane	97		78		30-146	22		30
Acetone	106		105		54-140	1		30
Carbon disulfide	95		82		59-130	15		30
2-Butanone	102		100		70-130	2		30
4-Methyl-2-pentanone	105		102		70-130	3		30
2-Hexanone	95		96		70-130	1		30
Bromochloromethane	113		109		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG975060-3 WG975060-4								
1,2-Dibromoethane	103		100		70-130	3		30
n-Butylbenzene	100		87		70-130	14		30
sec-Butylbenzene	96		86		70-130	11		30
1,2-Dibromo-3-chloropropane	75		81		68-130	8		30
Isopropylbenzene	96		86		70-130	11		30
p-Isopropyltoluene	97		88		70-130	10		30
n-Propylbenzene	97		87		70-130	11		30
1,2,3-Trichlorobenzene	99		96		70-130	3		30
1,2,4-Trichlorobenzene	99		96		70-130	3		30
1,3,5-Trimethylbenzene	98		90		70-130	9		30
1,2,4-Trimethylbenzene	98		91		70-130	7		30
Methyl Acetate	99		100		51-146	1		30
Cyclohexane	100		82		59-142	20		30
1,4-Dioxane	122		125		65-136	2		30
Freon-113	104		86		50-139	19		30
Methyl cyclohexane	102		84		70-130	19		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST SITE

Project Number: 0378-017-003

Lab Number: L1703189

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG975060-3 WG975060-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG975169-3 WG975169-4								
Methylene chloride	**133**	Q	124		70-130	7		30
1,1-Dichloroethane	111		105		70-130	6		30
Chloroform	111		103		70-130	7		30
Carbon tetrachloride	84		84		70-130	0		30
1,2-Dichloropropane	111		104		70-130	7		30
Dibromochloromethane	86		86		70-130	0		30
1,1,2-Trichloroethane	109		103		70-130	6		30
Tetrachloroethene	108		102		70-130	6		30
Chlorobenzene	106		100		70-130	6		30
Trichlorofluoromethane	**148**	Q	139		70-139	6		30
1,2-Dichloroethane	111		107		70-130	4		30
1,1,1-Trichloroethane	105		102		70-130	3		30
Bromodichloromethane	101		98		70-130	3		30
trans-1,3-Dichloropropene	91		88		70-130	3		30
cis-1,3-Dichloropropene	103		99		70-130	4		30
Bromoform	70		72		70-130	3		30
1,1,2,2-Tetrachloroethane	105		100		70-130	5		30
Benzene	114		107		70-130	6		30
Toluene	108		101		70-130	7		30
Ethylbenzene	107		100		70-130	7		30
Chloromethane	103		96		52-130	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG975169-3 WG975169-4								
Bromomethane	**159**	Q	145		57-147	9		30
Vinyl chloride	129		121		67-130	6		30
Chloroethane	140		135		50-151	4		30
1,1-Dichloroethene	112		105		65-135	6		30
trans-1,2-Dichloroethene	115		109		70-130	5		30
Trichloroethene	112		107		70-130	5		30
1,2-Dichlorobenzene	103		96		70-130	7		30
1,3-Dichlorobenzene	103		96		70-130	7		30
1,4-Dichlorobenzene	102		96		70-130	6		30
Methyl tert butyl ether	112		106		66-130	6		30
p/m-Xylene	109		102		70-130	7		30
o-Xylene	107		101		70-130	6		30
cis-1,2-Dichloroethene	114		109		70-130	4		30
Styrene	106		101		70-130	5		30
Dichlorodifluoromethane	106		97		30-146	9		30
Acetone	114		108		54-140	5		30
Carbon disulfide	107		99		59-130	8		30
2-Butanone	107		103		70-130	4		30
4-Methyl-2-pentanone	106		99		70-130	7		30
2-Hexanone	96		90		70-130	6		30
Bromochloromethane	118		113		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG975169-3 WG975169-4								
1,2-Dibromoethane	105		102		70-130	3		30
n-Butylbenzene	107		99		70-130	8		30
sec-Butylbenzene	106		98		70-130	8		30
1,2-Dibromo-3-chloropropane	78		78		68-130	0		30
Isopropylbenzene	104		98		70-130	6		30
p-Isopropyltoluene	105		98		70-130	7		30
n-Propylbenzene	105		99		70-130	6		30
1,2,3-Trichlorobenzene	102		94		70-130	8		30
1,2,4-Trichlorobenzene	104		94		70-130	10		30
1,3,5-Trimethylbenzene	105		98		70-130	7		30
1,2,4-Trimethylbenzene	104		97		70-130	7		30
Methyl Acetate	102		98		51-146	4		30
Cyclohexane	109		102		59-142	7		30
1,4-Dioxane	108		108		65-136	0		30
Freon-113	114		108		50-139	5		30
Methyl cyclohexane	114		106		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST SITE

Project Number: 0378-017-003

Lab Number: L1703189

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG975169-3 WG975169-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		95		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	100		100		70-130

SEMIVOLATILES

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-01
Client ID: SB-6 (0.4-2.0)
Sample Location: BUFFALO NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/02/17 09:14
Analyst: PS
Percent Solids: 76%

Date Collected: 01/30/17 10:10
Date Received: 01/30/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/01/17 12:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	74	J	ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	41	J	ug/kg	130	25.	1
Naphthalene	49	J	ug/kg	220	26.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	42	J	ug/kg	220	21.	1
Phenanthrene	39	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	38	J	ug/kg	130	21.	1
Dibenzofuran	32	J	ug/kg	220	20.	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 980 ELLICOTT ST SITE
Lab Number: L1703189
Project Number: 0378-017-003
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-01
Client ID: SB-6 (0.4-2.0)
Sample Location: BUFFALO NY
Date Collected: 01/30/17 10:10
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	67		18-120

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-02
Client ID: SB-4 (0.4-4.0)
Sample Location: BUFFALO NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/02/17 10:30
Analyst: PS
Percent Solids: 87%

Date Collected: 01/30/17 11:40
Date Received: 01/30/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/01/17 12:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1500		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	14000	E	ug/kg	110	22.	1
Naphthalene	1200		ug/kg	190	23.	1
Benzo(a)anthracene	5200		ug/kg	110	21.	1
Benzo(a)pyrene	4500		ug/kg	150	46.	1
Benzo(b)fluoranthene	5900		ug/kg	110	32.	1
Benzo(k)fluoranthene	1900		ug/kg	110	30.	1
Chrysene	5200		ug/kg	110	20.	1
Acenaphthylene	120	J	ug/kg	150	29.	1
Anthracene	2900		ug/kg	110	37.	1
Benzo(ghi)perylene	2800		ug/kg	150	22.	1
Fluorene	1400		ug/kg	190	18.	1
Phenanthrene	14000	E	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	740		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	3100		ug/kg	150	26.	1
Pyrene	11000	E	ug/kg	110	19.	1
Dibenzofuran	1200		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	51	J	ug/kg	270	29.	1

Project Name: 980 ELLICOTT ST SITE **Lab Number:** L1703189

Project Number: 0378-017-003 **Report Date:** 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-02 Date Collected: 01/30/17 11:40

Client ID: SB-4 (0.4-4.0) Date Received: 01/30/17

Sample Location: BUFFALO NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	105		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	59		18-120

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-02 D
Client ID: SB-4 (0.4-4.0)
Sample Location: BUFFALO NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/06/17 14:42
Analyst: PS
Percent Solids: 87%

Date Collected: 01/30/17 11:40
Date Received: 01/30/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/01/17 12:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	13000		ug/kg	450	86.	4
Phenanthrene	13000		ug/kg	450	91.	4
Pyrene	10000		ug/kg	450	75.	4

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-03
Client ID: SB-7 (1-3)
Sample Location: BUFFALO NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/02/17 02:58
Analyst: PS
Percent Solids: 73%

Date Collected: 01/30/17 13:00
Date Received: 01/30/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/01/17 12:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Fluoranthene	170		ug/kg	140	26.	1
Naphthalene	ND		ug/kg	220	27.	1
Benzo(a)anthracene	80	J	ug/kg	140	25.	1
Benzo(a)pyrene	ND		ug/kg	180	55.	1
Benzo(b)fluoranthene	75	J	ug/kg	140	38.	1
Benzo(k)fluoranthene	ND		ug/kg	140	36.	1
Chrysene	140		ug/kg	140	23.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	44.	1
Benzo(ghi)perylene	40	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	150		ug/kg	140	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	36	J	ug/kg	180	31.	1
Pyrene	170		ug/kg	140	22.	1
Dibenzofuran	ND		ug/kg	220	21.	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 980 ELLICOTT ST SITE
Lab Number: L1703189
Project Number: 0378-017-003
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-03
Client ID: SB-7 (1-3)
Sample Location: BUFFALO NY
Date Collected: 01/30/17 13:00
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	79		18-120

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/02/17 00:27
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/01/17 12:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG974397-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/02/17 00:27
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/01/17 12:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG974397-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	84		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG974397-2 WG974397-3								
Acenaphthene	82		91		31-137	10		50
Hexachlorobenzene	92		99		40-140	7		50
Fluoranthene	88		97		40-140	10		50
Naphthalene	82		92		40-140	11		50
Benzo(a)anthracene	86		96		40-140	11		50
Benzo(a)pyrene	94		103		40-140	9		50
Benzo(b)fluoranthene	92		101		40-140	9		50
Benzo(k)fluoranthene	88		100		40-140	13		50
Chrysene	86		97		40-140	12		50
Acenaphthylene	88		95		40-140	8		50
Anthracene	89		99		40-140	11		50
Benzo(ghi)perylene	90		100		40-140	11		50
Fluorene	88		94		40-140	7		50
Phenanthrene	86		95		40-140	10		50
Dibenzo(a,h)anthracene	90		98		40-140	9		50
Indeno(1,2,3-cd)pyrene	91		100		40-140	9		50
Pyrene	89		99		35-142	11		50
Dibenzofuran	85		93		40-140	9		50
Pentachlorophenol	67		78		17-109	15		50
Phenol	76		85		26-90	11		50
2-Methylphenol	84		95		30-130.	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST SITE

Project Number: 0378-017-003

Lab Number: L1703189

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG974397-2 WG974397-3								
3-Methylphenol/4-Methylphenol	84		92		30-130	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	82		91		25-120
Phenol-d6	81		89		10-120
Nitrobenzene-d5	80		88		23-120
2-Fluorobiphenyl	86		96		30-120
2,4,6-Tribromophenol	100		106		10-136
4-Terphenyl-d14	91		98		18-120

METALS

Project Name: 980 ELLICOTT ST SITE
Lab Number: L1703189
Project Number: 0378-017-003
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-01
Client ID: SB-6 (0.4-2.0)
Sample Location: BUFFALO NY
Matrix: Soil
Percent Solids: 76%

Date Collected: 01/30/17 10:10
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14		mg/kg	0.51	0.11	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Barium, Total	94		mg/kg	0.51	0.09	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Beryllium, Total	0.56		mg/kg	0.26	0.02	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Cadmium, Total	0.76		mg/kg	0.51	0.05	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Chromium, Total	15		mg/kg	0.51	0.05	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Copper, Total	32		mg/kg	0.51	0.13	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Lead, Total	46		mg/kg	2.6	0.14	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Manganese, Total	480		mg/kg	0.51	0.08	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Mercury, Total	0.16		mg/kg	0.08	0.02	1	02/02/17 10:15	02/02/17 13:27	EPA 7471B	1,7471B	BV
Nickel, Total	14		mg/kg	1.3	0.12	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.0	0.13	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.51	0.14	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
Zinc, Total	55		mg/kg	2.6	0.15	1	02/02/17 18:30	02/03/17 02:38	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	15		mg/kg	1.0	1.0	1		02/03/17 02:38	NA	107,-	

Project Name: 980 ELLICOTT ST SITE
Lab Number: L1703189
Project Number: 0378-017-003
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-02
Client ID: SB-4 (0.4-4.0)
Sample Location: BUFFALO NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 01/30/17 11:40
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.0		mg/kg	0.44	0.09	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Barium, Total	150		mg/kg	0.44	0.08	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Beryllium, Total	0.32		mg/kg	0.22	0.01	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Cadmium, Total	0.32	J	mg/kg	0.44	0.04	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Chromium, Total	7.9		mg/kg	0.44	0.04	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Copper, Total	20		mg/kg	0.44	0.11	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Lead, Total	260		mg/kg	2.2	0.12	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Manganese, Total	200		mg/kg	0.44	0.07	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Mercury, Total	0.60		mg/kg	0.08	0.02	1	02/02/17 10:15	02/02/17 13:29	EPA 7471B	1,7471B	BV
Nickel, Total	7.1		mg/kg	1.1	0.11	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	0.88	0.11	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.44	0.12	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
Zinc, Total	100		mg/kg	2.2	0.13	1	02/02/17 18:30	02/03/17 02:43	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.9		mg/kg	0.92	0.92	1		02/03/17 02:43	NA	107,-	

Project Name: 980 ELLICOTT ST SITE
Lab Number: L1703189
Project Number: 0378-017-003
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-03
Client ID: SB-7 (1-3)
Sample Location: BUFFALO NY
Matrix: Soil
Percent Solids: 73%

Date Collected: 01/30/17 13:00
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.5		mg/kg	0.53	0.11	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Barium, Total	73		mg/kg	0.53	0.09	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Beryllium, Total	0.47		mg/kg	0.26	0.02	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Cadmium, Total	0.35	J	mg/kg	0.53	0.05	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Chromium, Total	12		mg/kg	0.53	0.05	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Copper, Total	8.0		mg/kg	0.53	0.14	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Lead, Total	35		mg/kg	2.6	0.14	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Manganese, Total	230		mg/kg	0.53	0.08	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Mercury, Total	0.39		mg/kg	0.09	0.02	1	02/02/17 10:15	02/02/17 13:31	EPA 7471B	1,7471B	BV
Nickel, Total	7.1		mg/kg	1.3	0.13	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.1	0.14	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.53	0.15	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
Zinc, Total	54		mg/kg	2.6	0.16	1	02/02/17 18:30	02/03/17 02:48	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	1.1	1.1	1		02/03/17 02:48	NA	107,-	

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG974644-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/02/17 10:15	02/02/17 12:49	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG974903-1										
Arsenic, Total	0.10	J	mg/kg	0.40	0.08	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Barium, Total	ND		mg/kg	0.40	0.07	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.20	0.01	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.40	0.04	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Chromium, Total	ND		mg/kg	0.40	0.04	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Copper, Total	ND		mg/kg	0.40	0.10	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Lead, Total	ND		mg/kg	2.0	0.11	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Manganese, Total	ND		mg/kg	0.40	0.06	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Nickel, Total	ND		mg/kg	1.0	0.10	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Selenium, Total	ND		mg/kg	0.80	0.10	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Silver, Total	ND		mg/kg	0.40	0.11	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB
Zinc, Total	ND		mg/kg	2.0	0.12	1	02/02/17 18:30	02/03/17 00:40	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST SITE

Project Number: 0378-017-003

Lab Number: L1703189

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG974644-2 SRM Lot Number: D091-540								
Mercury, Total	106		-		72-128	-		
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG974903-2 SRM Lot Number: D091-540								
Arsenic, Total	96		-		80-121	-		
Barium, Total	86		-		84-117	-		
Beryllium, Total	88		-		83-117	-		
Cadmium, Total	97		-		83-117	-		
Chromium, Total	91		-		80-119	-		
Copper, Total	92		-		82-117	-		
Lead, Total	96		-		82-118	-		
Manganese, Total	91		-		82-118	-		
Nickel, Total	93		-		83-117	-		
Selenium, Total	90		-		79-121	-		
Silver, Total	89		-		75-124	-		
Zinc, Total	93		-		82-118	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG974644-3 QC Sample: L1703221-01 Client ID: MS Sample												
Mercury, Total	0.24	0.168	0.54	**179**	Q	-	-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG974903-3 QC Sample: L1703343-01 Client ID: MS Sample												
Arsenic, Total	5.7	11.2	18	110		-	-		75-125	-		20
Barium, Total	46.	187	240	104		-	-		75-125	-		20
Beryllium, Total	0.60	4.67	5.5	105		-	-		75-125	-		20
Cadmium, Total	0.32J	4.76	4.9	103		-	-		75-125	-		20
Chromium, Total	18.	18.7	39	112		-	-		75-125	-		20
Copper, Total	12.	23.3	37	107		-	-		75-125	-		20
Lead, Total	27.	47.6	59	**67**	Q	-	-		75-125	-		20
Manganese, Total	540	46.7	530	**0**	Q	-	-		75-125	-		20
Nickel, Total	10.	46.7	53	92		-	-		75-125	-		20
Selenium, Total	ND	11.2	9.0	80		-	-		75-125	-		20
Silver, Total	ND	28	28	100		-	-		75-125	-		20
Zinc, Total	43.	46.7	94	109		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG974644-4 QC Sample: L1703221-01 Client ID: DUP Sample						
Mercury, Total	0.24	0.32	mg/kg	**29**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG974903-4 QC Sample: L1703343-01 Client ID: DUP Sample						
Arsenic, Total	5.7	6.8	mg/kg	18		20
Barium, Total	46.	48	mg/kg	4		20
Beryllium, Total	0.60	0.57	mg/kg	5		20
Cadmium, Total	0.32J	0.43J	mg/kg	NC		20
Chromium, Total	18.	21	mg/kg	15		20
Copper, Total	12.	12	mg/kg	0		20
Lead, Total	27.	14	mg/kg	**63**	Q	20
Manganese, Total	540	440	mg/kg	20		20
Nickel, Total	10.	11	mg/kg	10		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	43.	53	mg/kg	**21**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-01
Client ID: SB-6 (0.4-2.0)
Sample Location: BUFFALO NY
Matrix: Soil
Date Collected: 01/30/17 10:10
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.4		%	0.100	NA	1	-	02/01/17 04:34	121,2540G	RM
Cyanide, Total	0.42	J	mg/kg	1.3	0.21	1	02/01/17 21:25	02/02/17 13:57	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.0	0.21	1	02/01/17 13:43	02/01/17 22:27	1,7196A	WR

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-02
Client ID: SB-4 (0.4-4.0)
Sample Location: BUFFALO NY
Matrix: Soil
Date Collected: 01/30/17 11:40
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	02/01/17 04:34	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.1	0.18	1	02/01/17 09:42	02/01/17 13:51	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.92	0.18	1	02/01/17 13:43	02/01/17 22:27	1,7196A	WR

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1703189-03
Client ID: SB-7 (1-3)
Sample Location: BUFFALO NY
Matrix: Soil
Date Collected: 01/30/17 13:00
Date Received: 01/30/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.9		%	0.100	NA	1	-	02/01/17 04:34	121,2540G	RM
Cyanide, Total	0.25	J	mg/kg	1.3	0.21	1	02/01/17 09:42	02/01/17 13:51	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.1	0.22	1	02/01/17 13:43	02/01/17 22:27	1,7196A	WR

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003
Lab Number: L1703189
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG974301-1										
Cyanide, Total	ND		mg/kg	0.90	0.15	1	02/01/17 09:42	02/01/17 13:29	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG974426-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	02/01/17 13:43	02/01/17 22:27	1,7196A	WR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG974567-1										
Cyanide, Total	ND		mg/kg	0.94	0.16	1	02/01/17 21:25	02/02/17 13:47	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT ST SITE

Project Number: 0378-017-003

Lab Number: L1703189

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG974301-2 WG974301-3								
Cyanide, Total	**127**	Q	84		80-120	**43**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG974426-2								
Chromium, Hexavalent	84		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG974567-2 WG974567-3								
Cyanide, Total	99		82		80-120	19		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG974301-4 WG974301-5 QC Sample: L1703155-01 Client ID: MS Sample												
Cyanide, Total	ND	13	14	110		13	99		65-135	7		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG974426-4 QC Sample: L1703189-02 Client ID: SB-4 (0.4-4.0)												
Chromium, Hexavalent	ND	1220	1000	82		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG974567-4 WG974567-5 QC Sample: L1703189-01 Client ID: SB-6 (0.4-2.0)												
Cyanide, Total	0.42J	13	12	90		12	96		65-135	6		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG974239-1 QC Sample: L1703079-01 Client ID: DUP Sample						
Solids, Total	82.4	78.3	%	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG974426-6 QC Sample: L1703189-02 Client ID: SB-4 (0.4-4.0)						
Chromium, Hexavalent	ND	0.22J	mg/kg	NC		20

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 01-FEB-17 09:02

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1703189-01A	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-01B	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-01C	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-01D	Glass 120ml/4oz unpreserved	A	N/A	2.7	Y	Absent	TS(7)
L1703189-01E	Glass 120ml/4oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14),TCN-9010(14)
L1703189-01F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1703189-01X	Vial MeOH preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1703189-01Y	Vial Water preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1703189-01Z	Vial Water preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1703189-02A	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-02B	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-02C	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-02D	Glass 120ml/4oz unpreserved	A	N/A	2.7	Y	Absent	TS(7)
L1703189-02E	Glass 120ml/4oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14),TCN-9010(14)
L1703189-02F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1703189-02X	Vial MeOH preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1703189-02Y	Vial Water preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1703189-02Z	Vial Water preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 980 ELLICOTT ST SITE
Project Number: 0378-017-003

Lab Number: L1703189
Report Date: 03/14/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1703189-03A	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-03B	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-03C	5 gram Encore Sampler	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(2)
L1703189-03D	Glass 120ml/4oz unpreserved	A	N/A	2.7	Y	Absent	TS(7)
L1703189-03E	Glass 120ml/4oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14),TCN-9010(14)
L1703189-03F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1703189-03X	Vial MeOH preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1703189-03Y	Vial Water preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1703189-03Z	Vial Water preserved split	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	980 ELLICOTT ST SITE	**Lab Number:**	L1703189
Project Number:	0378-017-003	**Report Date:**	03/14/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	980 ELLICOTT ST SITE	**Lab Number:**	L1703189
Project Number:	0378-017-003	**Report Date:**	03/14/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	980 ELLICOTT ST SITE	**Lab Number:**	L1703189
Project Number:	0378-017-003	**Report Date:**	03/14/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Page 1 of 1

Date Rec'd in Lab: 2/1/17

ALPHA Job #: L1703189

Project Information
Project Name: 980 Ellicott st site
Project Location: Buffalo NY
Project #: 0378-017-003
(Use Project name as Project #) ☒
Project Manager: Bryan Hann
ALPHAQuote #:

Turn-Around Time
Standard ☒
Rush (only if pre approved) ☐
Due Date:
# of Days:

Client Information
Client: Turnkey Environmental
Address: 2558 Hamburg Turnpike Suite 300 Lackawanna NY 14218
Phone: (716) 818-8358
Fax:
Email: [illegible]@turnkeyllc.com

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Part 375 VOC	Part 375 SVOC	Part 375 metals						Sample Specific Comments	Total Bottles
03189-01	SB-6(0.4-2.0)	1/30/16	1010	Soil	TAB	X	X	X							6
02	SB-7(0.4-4.0)	↓	1140	↓	↓	X	X	X							6
03	SB-8 (1-3)	↓	1300	↓	↓	X	X	X							6

	Part 375 VOC	Part 375 SVOC	Part 375 metals
Container Type	E	A	A
Preservative	A	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	1/30/17 422	Eric Swartzmeyer AAL	1/30/17 17:10
Eric Swartzmeyer AAL	1/30/17 17:10	[signature]	2/1/17 0035

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1705948
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Bryan Hann
Phone:	(716) 856-0599
Project Name:	980 ELLICOTT
Project Number:	0378-017-004
Report Date:	03/14/17

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1705948-01	SB-8 (9-11)	SOIL	BUFFALO, NY	02/24/17 09:56	02/24/17
L1705948-02	SB-9 (9-11)	SOIL	BUFFALO, NY	02/24/17 10:48	02/24/17
L1705948-03	TMW-3	WATER	BUFFALO, NY	02/24/17 11:45	02/24/17
L1705948-04	TRIP BLANK	WATER	BUFFALO, NY	02/24/17 00:00	02/24/17

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Case Narrative (continued)

Report Submission

This report replaces the report issued March 7, 2017. The Client ID was changed on L1705948-03.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

A Trip Blank was received in the laboratory, but not listed on the Chain of Custody, and was not analyzed.
L1705948-03: The sample was received above the appropriate pH for the Metals analysis. The laboratory added additional HNO3 to a pH <2.

Volatile Organics

L1705948-01 and -02: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (155% and 140%); however, the sample was not re-analyzed due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report.

Semivolatile Organics by SIM

L1705948-03: The sample has elevated detection limits due to the dilution required by the sample matrix.
L1705948-03: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals

L1705948-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
L1705948-03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the prep dilution required by matrix interferences encountered during analysis.

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Case Narrative (continued)

WG981716-1: The Method Blank, associated with L1705948-01 and -02, has a concentrations above the reporting limit for manganese. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

Dissolved Metals

WG982634-1: The Method Blank, associated with L1705948-03, has a concentration above the reporting limit for manganese. Since the associated sample concentration is greater than 10x the blank concentration for this analyte, no corrective action is required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 03/14/17

ORGANICS

VOLATILES

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-01 D
Client ID: SB-8 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/01/17 10:33
Analyst: JC
Percent Solids: 87%

Date Collected: 02/24/17 09:56
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10000	1100	20
1,1-Dichloroethane	ND		ug/kg	1500	88.	20
Chloroform	ND		ug/kg	1500	380	20
Carbon tetrachloride	ND		ug/kg	1000	220	20
Tetrachloroethene	ND		ug/kg	1000	140	20
Chlorobenzene	ND		ug/kg	1000	360	20
1,2-Dichloroethane	ND		ug/kg	1000	120	20
1,1,1-Trichloroethane	ND		ug/kg	1000	110	20
Benzene	ND		ug/kg	1000	120	20
Toluene	ND		ug/kg	1500	200	20
Ethylbenzene	1700		ug/kg	1000	130	20
Vinyl chloride	ND		ug/kg	2000	120	20
1,1-Dichloroethene	ND		ug/kg	1000	270	20
trans-1,2-Dichloroethene	ND		ug/kg	1500	220	20
Trichloroethene	ND		ug/kg	1000	130	20
1,2-Dichlorobenzene	ND		ug/kg	5100	160	20
1,3-Dichlorobenzene	ND		ug/kg	5100	140	20
1,4-Dichlorobenzene	ND		ug/kg	5100	140	20
Methyl tert butyl ether	ND		ug/kg	2000	87.	20
p/m-Xylene	5700		ug/kg	2000	360	20
o-Xylene	ND		ug/kg	2000	350	20
cis-1,2-Dichloroethene	ND		ug/kg	1000	150	20
Acetone	ND		ug/kg	10000	1100	20
2-Butanone	ND		ug/kg	10000	280	20
n-Butylbenzene	8900		ug/kg	1000	120	20
sec-Butylbenzene	7800		ug/kg	1000	120	20
tert-Butylbenzene	ND		ug/kg	5100	140	20
n-Propylbenzene	10000		ug/kg	1000	110	20
1,3,5-Trimethylbenzene	31000		ug/kg	5100	150	20
1,2,4-Trimethylbenzene	140000		ug/kg	5100	140	20

Project Name: 980 ELLICOTT **Lab Number:** L1705948

Project Number: 0378-017-004 **Report Date:** 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-01 D Date Collected: 02/24/17 09:56

Client ID: SB-8 (9-11) Date Received: 02/24/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	41000	15000	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	**155**	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-02 D
Client ID: SB-9 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/01/17 10:58
Analyst: JC
Percent Solids: 87%

Date Collected: 02/24/17 10:48
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5600	610	10
1,1-Dichloroethane	ND		ug/kg	830	48.	10
Chloroform	ND		ug/kg	830	200	10
Carbon tetrachloride	ND		ug/kg	560	120	10
Tetrachloroethene	ND		ug/kg	560	78.	10
Chlorobenzene	ND		ug/kg	560	190	10
1,2-Dichloroethane	ND		ug/kg	560	63.	10
1,1,1-Trichloroethane	ND		ug/kg	560	62.	10
Benzene	ND		ug/kg	560	66.	10
Toluene	390	J	ug/kg	830	110	10
Ethylbenzene	740		ug/kg	560	71.	10
Vinyl chloride	ND		ug/kg	1100	65.	10
1,1-Dichloroethene	ND		ug/kg	560	140	10
trans-1,2-Dichloroethene	ND		ug/kg	830	120	10
Trichloroethene	ND		ug/kg	560	70.	10
1,2-Dichlorobenzene	ND		ug/kg	2800	85.	10
1,3-Dichlorobenzene	ND		ug/kg	2800	75.	10
1,4-Dichlorobenzene	ND		ug/kg	2800	77.	10
Methyl tert butyl ether	ND		ug/kg	1100	47.	10
p/m-Xylene	4400		ug/kg	1100	200	10
o-Xylene	4200		ug/kg	1100	190	10
cis-1,2-Dichloroethene	ND		ug/kg	560	79.	10
Acetone	ND		ug/kg	5600	580	10
2-Butanone	ND		ug/kg	5600	150	10
n-Butylbenzene	3900		ug/kg	560	64.	10
sec-Butylbenzene	3000		ug/kg	560	68.	10
tert-Butylbenzene	ND		ug/kg	2800	75.	10
n-Propylbenzene	3800		ug/kg	560	61.	10
1,3,5-Trimethylbenzene	22000		ug/kg	2800	80.	10
1,2,4-Trimethylbenzene	79000		ug/kg	2800	79.	10

Project Name: 980 ELLICOTT **Lab Number:** L1705948

Project Number: 0378-017-004 **Report Date:** 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-02 D Date Collected: 02/24/17 10:48

Client ID: SB-9 (9-11) Date Received: 02/24/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,4-Dioxane	ND		ug/kg	22000	8000	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	**140**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-03 D
Client ID: TMW-3
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/03/17 19:42
Analyst: NL

Date Collected: 02/24/17 11:45
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
Tetrachloroethene	ND		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Benzene	1.0	J	ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Vinyl chloride	ND		ug/l	5.0	0.36	5
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Trichloroethene	ND		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	16		ug/l	12	3.5	5
o-Xylene	15		ug/l	12	3.5	5
cis-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Acetone	8.5	J	ug/l	25	7.3	5
2-Butanone	ND		ug/l	25	9.7	5
n-Butylbenzene	6.3	J	ug/l	12	3.5	5
sec-Butylbenzene	4.2	J	ug/l	12	3.5	5
tert-Butylbenzene	ND		ug/l	12	3.5	5
n-Propylbenzene	7.1	J	ug/l	12	3.5	5
1,3,5-Trimethylbenzene	74		ug/l	12	3.5	5
1,2,4-Trimethylbenzene	230		ug/l	12	3.5	5

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-03 D
Client ID: TMW-3
Sample Location: BUFFALO, NY
Date Collected: 02/24/17 11:45
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dioxane	ND		ug/l	1200	300	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/01/17 08:50
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG981903-5					
Methylene chloride	ND		ug/kg	500	55.
1,1-Dichloroethane	ND		ug/kg	75	4.3
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
1,2-Dichloroethane	ND		ug/kg	50	5.7
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	9.7
Ethylbenzene	ND		ug/kg	50	6.4
Vinyl chloride	ND		ug/kg	100	5.9
1,1-Dichloroethene	ND		ug/kg	50	13.
trans-1,2-Dichloroethene	ND		ug/kg	75	11.
Trichloroethene	ND		ug/kg	50	6.2
1,2-Dichlorobenzene	ND		ug/kg	250	7.7
1,3-Dichlorobenzene	ND		ug/kg	250	6.8
1,4-Dichlorobenzene	ND		ug/kg	250	6.9
Methyl tert butyl ether	ND		ug/kg	100	4.2
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.1
Acetone	ND		ug/kg	500	52.
2-Butanone	ND		ug/kg	500	14.
n-Butylbenzene	ND		ug/kg	50	5.7
sec-Butylbenzene	ND		ug/kg	50	6.1
tert-Butylbenzene	ND		ug/kg	250	6.8
n-Propylbenzene	ND		ug/kg	50	5.5
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/01/17 08:50
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG981903-5					
1,2,4-Trimethylbenzene	ND		ug/kg	250	7.1
1,4-Dioxane	ND		ug/kg	2000	720
Tentatively Identified Compounds					
Total TIC Compounds	110	J	ug/kg		
Unknown	110	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/03/17 10:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG982745-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
2-Butanone	ND		ug/l	5.0	1.9
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/03/17 10:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG982745-5					
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG981903-3 WG981903-4								
Methylene chloride	107		96		70-130	11		30
1,1-Dichloroethane	111		107		70-130	4		30
Chloroform	106		104		70-130	2		30
Carbon tetrachloride	112		109		70-130	3		30
Tetrachloroethene	106		102		70-130	4		30
Chlorobenzene	100		100		70-130	0		30
1,2-Dichloroethane	100		98		70-130	2		30
1,1,1-Trichloroethane	114		110		70-130	4		30
Benzene	108		105		70-130	3		30
Toluene	108		106		70-130	2		30
Ethylbenzene	110		109		70-130	1		30
Vinyl chloride	118		107		67-130	10		30
1,1-Dichloroethene	116		108		65-135	7		30
trans-1,2-Dichloroethene	111		104		70-130	7		30
Trichloroethene	106		102		70-130	4		30
1,2-Dichlorobenzene	97		98		70-130	1		30
1,3-Dichlorobenzene	101		99		70-130	2		30
1,4-Dichlorobenzene	98		97		70-130	1		30
Methyl tert butyl ether	106		105		66-130	1		30
p/m-Xylene	110		109		70-130	1		30
o-Xylene	107		108		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG981903-3 WG981903-4								
cis-1,2-Dichloroethene	106		102		70-130	4		30
Acetone	104		103		54-140	1		30
2-Butanone	88		89		70-130	1		30
n-Butylbenzene	114		111		70-130	3		30
sec-Butylbenzene	114		111		70-130	3		30
tert-Butylbenzene	111		109		70-130	2		30
n-Propylbenzene	114		110		70-130	4		30
1,3,5-Trimethylbenzene	113		109		70-130	4		30
1,2,4-Trimethylbenzene	112		109		70-130	3		30
1,4-Dioxane	84		86		65-136	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	108		104		70-130
Dibromofluoromethane	101		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG982745-3 WG982745-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		110		75-130	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		100		70-130	10		20
Vinyl chloride	110		110		55-140	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	110		105		70-130	5		20
o-Xylene	105		105		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG982745-3 WG982745-4								
cis-1,2-Dichloroethene	110		110		70-130	0		20
Acetone	100		100		58-148	0		20
2-Butanone	91		97		63-138	6		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
n-Propylbenzene	110		110		69-130	0		20
1,3,5-Trimethylbenzene	120		110		64-130	9		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	110		106		56-162	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	106		102		70-130
Dibromofluoromethane	102		104		70-130

SEMIVOLATILES

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-01
Client ID: SB-8 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/28/17 12:32
Analyst: KV
Percent Solids: 87%

Date Collected: 02/24/17 09:56
Date Received: 02/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/27/17 07:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1400		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	690		ug/kg	110	21.	1
Naphthalene	5600		ug/kg	180	23.	1
Benzo(a)anthracene	130		ug/kg	110	21.	1
Benzo(a)pyrene	57	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	59	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	100	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	290		ug/kg	110	36.	1
Benzo(ghi)perylene	38	J	ug/kg	150	22.	1
Fluorene	920		ug/kg	180	18.	1
Phenanthrene	2200		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	540		ug/kg	110	18.	1
Dibenzofuran	620		ug/kg	180	18.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-01
Client ID: SB-8 (9-11)
Sample Location: BUFFALO, NY
Date Collected: 02/24/17 09:56
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	110		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	77		18-120

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-02
Client ID: SB-9 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/28/17 12:58
Analyst: KV
Percent Solids: 87%

Date Collected: 02/24/17 10:48
Date Received: 02/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/27/17 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1800		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	1300		ug/kg	110	22.	1
Naphthalene	8900	E	ug/kg	190	23.	1
Benzo(a)anthracene	190		ug/kg	110	21.	1
Benzo(a)pyrene	65	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	100	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	180		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	510		ug/kg	110	37.	1
Benzo(ghi)perylene	24	J	ug/kg	150	22.	1
Fluorene	1400		ug/kg	190	18.	1
Phenanthrene	3300		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	830		ug/kg	110	19.	1
Dibenzofuran	1100		ug/kg	190	18.	1
Pentachlorophenol	1800		ug/kg	150	42.	1
Phenol	530		ug/kg	190	29.	1
2-Methylphenol	320		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	670		ug/kg	270	30.	1

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-02
Client ID: SB-9 (9-11)
Sample Location: BUFFALO, NY
Date Collected: 02/24/17 10:48
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	62		18-120

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-02 D
Client ID: SB-9 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/01/17 16:01
Analyst: CB
Percent Solids: 87%

Date Collected: 02/24/17 10:48
Date Received: 02/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/27/17 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	11000		ug/kg	380	46.	2

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-03
Client ID: TMW-3
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/03/17 19:35
Analyst: CB

Date Collected: 02/24/17 11:45
Date Received: 02/24/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 03/02/17 16:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	580	E	ug/l	2.0	0.68	1
Dibenzofuran	28.		ug/l	2.0	0.66	1
2-Methylphenol	14.		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	21.		ug/l	5.0	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	53		41-149

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-03 D
Client ID: TMW-3
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/07/17 12:55
Analyst: PS

Date Collected: 02/24/17 11:45
Date Received: 02/24/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 03/02/17 16:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	530		ug/l	10	3.4	5

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-03 D
Client ID: TMW-3
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/05/17 14:22
Analyst: KL

Date Collected: 02/24/17 11:45
Date Received: 02/24/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 03/02/17 16:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	53		ug/l	2.0	0.70	20
Fluoranthene	4.0		ug/l	4.0	0.76	20
Naphthalene	530		ug/l	4.0	0.86	20
Benzo(a)anthracene	0.44	J	ug/l	4.0	0.36	20
Benzo(a)pyrene	ND		ug/l	4.0	0.78	20
Benzo(b)fluoranthene	ND		ug/l	4.0	0.32	20
Benzo(k)fluoranthene	ND		ug/l	4.0	0.84	20
Chrysene	ND		ug/l	4.0	0.76	20
Acenaphthylene	ND		ug/l	4.0	0.70	20
Anthracene	5.3		ug/l	4.0	0.70	20
Benzo(ghi)perylene	ND		ug/l	4.0	0.84	20
Fluorene	26		ug/l	4.0	0.74	20
Phenanthrene	29		ug/l	4.0	0.30	20
Dibenzo(a,h)anthracene	ND		ug/l	4.0	0.78	20
Indeno(1,2,3-cd)pyrene	ND		ug/l	4.0	0.80	20
Pyrene	2.5	J	ug/l	4.0	0.80	20
Pentachlorophenol	60		ug/l	16	4.4	20
Hexachlorobenzene	ND		ug/l	16	0.64	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	21-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	15-120
2,4,6-Tribromophenol	**0**	Q	10-120
4-Terphenyl-d14	**0**	Q	41-149

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/28/17 01:30
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/27/17 07:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG981188-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	97	18.
Fluoranthene	ND		ug/kg	97	18.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	31.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/28/17 01:30
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/27/17 07:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG981188-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	83		18-120

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/02/17 09:09
Analyst: KV

Extraction Method: EPA 3510C
Extraction Date: 03/02/17 00:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG982119-1					
Naphthalene	ND		ug/l	2.0	0.68
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	58		41-149

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/02/17 09:08
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 03/02/17 00:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03 Batch: WG982120-1					
Acenaphthene	ND		ug/l	0.10	0.04
Fluoranthene	ND		ug/l	0.20	0.04
Naphthalene	ND		ug/l	0.20	0.04
Benzo(a)anthracene	ND		ug/l	0.20	0.02
Benzo(a)pyrene	ND		ug/l	0.20	0.04
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04
Chrysene	ND		ug/l	0.20	0.04
Acenaphthylene	ND		ug/l	0.20	0.04
Anthracene	ND		ug/l	0.20	0.04
Benzo(ghi)perylene	ND		ug/l	0.20	0.04
Fluorene	ND		ug/l	0.20	0.04
Phenanthrene	ND		ug/l	0.20	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04
Pyrene	ND		ug/l	0.20	0.04
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	60		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG981188-2 WG981188-3								
Acenaphthene	66		69		31-137	4		50
Hexachlorobenzene	73		76		40-140	4		50
Fluoranthene	74		78		40-140	5		50
Naphthalene	66		70		40-140	6		50
Benzo(a)anthracene	72		76		40-140	5		50
Benzo(a)pyrene	81		83		40-140	2		50
Benzo(b)fluoranthene	77		80		40-140	4		50
Benzo(k)fluoranthene	76		80		40-140	5		50
Chrysene	69		72		40-140	4		50
Acenaphthylene	73		76		40-140	4		50
Anthracene	72		76		40-140	5		50
Benzo(ghi)perylene	76		80		40-140	5		50
Fluorene	70		74		40-140	6		50
Phenanthrene	70		73		40-140	4		50
Dibenzo(a,h)anthracene	75		79		40-140	5		50
Indeno(1,2,3-cd)pyrene	76		79		40-140	4		50
Pyrene	73		77		35-142	5		50
Dibenzofuran	70		74		40-140	6		50
Pentachlorophenol	64		70		17-109	9		50
Phenol	68		71		26-90	4		50
2-Methylphenol	68		70		30-130.	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG981188-2 WG981188-3								
3-Methylphenol/4-Methylphenol	70		72		30-130	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		71		25-120
Phenol-d6	68		73		10-120
Nitrobenzene-d5	66		70		23-120
2-Fluorobiphenyl	69		73		30-120
2,4,6-Tribromophenol	86		92		10-136
4-Terphenyl-d14	71		78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG982119-2 WG982119-3								
Naphthalene	53		60		40-140	12		30
Dibenzofuran	52		61		40-140	16		30
2-Methylphenol	52		63		30-130	19		30
3-Methylphenol/4-Methylphenol	51		62		30-130	19		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	36		45		21-120
Phenol-d6	27		34		10-120
Nitrobenzene-d5	60		70		23-120
2-Fluorobiphenyl	58		67		15-120
2,4,6-Tribromophenol	50		60		10-120
4-Terphenyl-d14	50		59		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG982120-2 WG982120-3								
Acenaphthene	57		57		37-111	0		40
Fluoranthene	60		59		40-140	2		40
Naphthalene	55		58		40-140	5		40
Benzo(a)anthracene	61		59		40-140	3		40
Benzo(a)pyrene	62		60		40-140	3		40
Benzo(b)fluoranthene	64		61		40-140	5		40
Benzo(k)fluoranthene	62		59		40-140	5		40
Chrysene	60		58		40-140	3		40
Acenaphthylene	64		64		40-140	0		40
Anthracene	61		59		40-140	3		40
Benzo(ghi)perylene	60		58		40-140	3		40
Fluorene	61		60		40-140	2		40
Phenanthrene	58		57		40-140	2		40
Dibenzo(a,h)anthracene	61		59		40-140	3		40
Indeno(1,2,3-cd)pyrene	62		59		40-140	5		40
Pyrene	59		58		26-127	2		40
Pentachlorophenol	73		72		9-103	1		40
Hexachlorobenzene	59		58		40-140	2		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG982120-2 WG982120-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	43		40		21-120
Phenol-d6	33		29		10-120
Nitrobenzene-d5	76		81		23-120
2-Fluorobiphenyl	57		57		15-120
2,4,6-Tribromophenol	70		69		10-120
4-Terphenyl-d14	69		66		41-149

METALS

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-01
Client ID: SB-8 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 02/24/17 09:56
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.6		mg/kg	0.90	0.19	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Barium, Total	48		mg/kg	0.90	0.16	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Beryllium, Total	0.06	J	mg/kg	0.45	0.03	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.90	0.09	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Chromium, Total	5.6		mg/kg	0.90	0.09	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Copper, Total	8.4		mg/kg	0.90	0.23	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Lead, Total	9.2		mg/kg	4.5	0.24	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Manganese, Total	280		mg/kg	0.90	0.14	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Mercury, Total	ND		mg/kg	0.07	0.02	1	03/01/17 08:40	03/01/17 11:21	EPA 7471B	1,7471B	BV
Nickel, Total	6.4		mg/kg	2.2	0.22	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.8	0.23	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.90	0.26	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC
Zinc, Total	54		mg/kg	4.5	0.26	2	02/28/17 21:35	03/01/17 16:54	EPA 3050B	1,6010C	MC

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-02
Client ID: SB-9 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 02/24/17 10:48
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.4		mg/kg	0.91	0.19	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Barium, Total	69		mg/kg	0.91	0.16	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Beryllium, Total	0.12	J	mg/kg	0.45	0.03	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.91	0.09	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Chromium, Total	7.9		mg/kg	0.91	0.09	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Copper, Total	12		mg/kg	0.91	0.23	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Lead, Total	13		mg/kg	4.5	0.24	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Manganese, Total	340		mg/kg	0.91	0.14	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Mercury, Total	ND		mg/kg	0.08	0.02	1	03/01/17 08:40	03/01/17 11:22	EPA 7471B	1,7471B	BV
Nickel, Total	10		mg/kg	2.3	0.22	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.8	0.23	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.91	0.26	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC
Zinc, Total	47		mg/kg	4.5	0.27	2	02/28/17 21:35	03/01/17 16:58	EPA 3050B	1,6010C	MC

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-03
Client ID: TMW-3
Sample Location: BUFFALO, NY
Matrix: Water
Date Collected: 02/24/17 11:45
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.08631		mg/l	0.00250	0.00082	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Barium, Total	1.989		mg/l	0.00250	0.00086	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00670		mg/l	0.00250	0.00053	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00339		mg/l	0.00100	0.00029	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Chromium, Total	0.2297		mg/l	0.00500	0.00089	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Copper, Total	0.4002		mg/l	0.00500	0.00192	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Lead, Total	0.4950		mg/l	0.00250	0.00171	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Manganese, Total	11.07		mg/l	0.00500	0.00220	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Mercury, Total	0.00021		mg/l	0.00020	0.00006	1	02/27/17 11:06	02/28/17 19:56	EPA 7470A	1,7470A	EA
Nickel, Total	0.2458		mg/l	0.01000	0.00278	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Selenium, Total	0.0537		mg/l	0.0250	0.00865	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Silver, Total	0.00082	J	mg/l	0.00200	0.00081	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Zinc, Total	0.9213		mg/l	0.05000	0.01705	1	02/28/17 11:40	03/01/17 11:18	EPA 3005A	1,6020A	AM
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	0.00528		mg/l	0.00050	0.00016	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Barium, Dissolved	0.1481		mg/l	0.00050	0.00017	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Cadmium, Dissolved	0.00013	J	mg/l	0.00020	0.00005	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Chromium, Dissolved	0.00333		mg/l	0.00100	0.00017	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Copper, Dissolved	0.04222		mg/l	0.00100	0.00038	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Lead, Dissolved	0.00077	J	mg/l	0.00100	0.00034	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Manganese, Dissolved	0.1039		mg/l	0.00100	0.00044	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	03/02/17 14:34	03/02/17 20:53	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.00936		mg/l	0.00200	0.00055	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Silver, Dissolved	0.00033	J	mg/l	0.00040	0.00016	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV
Zinc, Dissolved	0.00837	J	mg/l	0.01000	0.00341	1	03/03/17 13:20	03/04/17 12:38	EPA 3005A	1,6020A	BV

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG981265-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/27/17 11:06	02/28/17 19:41	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG981568-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Lead, Total	ND		mg/l	0.00050	0.00034	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	02/28/17 11:40	03/01/17 11:45	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG981716-1										
Arsenic, Total	0.15	J	mg/kg	0.40	0.08	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Barium, Total	ND		mg/kg	0.40	0.07	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	0.01	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	0.04	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Chromium, Total	ND		mg/kg	0.40	0.04	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Copper, Total	ND	mg/kg	0.40	0.10	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Lead, Total	ND	mg/kg	2.0	0.11	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Manganese, Total	0.45	mg/kg	0.40	0.06	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Nickel, Total	ND	mg/kg	1.0	0.10	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Selenium, Total	ND	mg/kg	0.80	0.10	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Silver, Total	ND	mg/kg	0.40	0.11	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS
Zinc, Total	ND	mg/kg	2.0	0.12	1	02/28/17 21:35	03/01/17 14:27	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG981798-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	03/01/17 08:40	03/01/17 10:50	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 03 Batch: WG982360-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	03/02/17 14:34	03/02/17 20:50	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 03 Batch: WG982634-1										
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV

Project Name: 980 ELLICOTT
Project Number: 0378-017-004
Lab Number: L1705948
Report Date: 03/14/17

Method Blank Analysis
Batch Quality Control

Chromium, Dissolved	0.00031	J	mg/l	0.00100	0.00017	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Manganese, Dissolved	0.00712		mg/l	0.00100	0.00044	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	03/03/17 13:20	03/04/17 12:59	1,6020A	BV

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG981265-2								
Mercury, Total	95		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG981568-2								
Arsenic, Total	116		-		80-120	-		
Barium, Total	108		-		80-120	-		
Beryllium, Total	108		-		80-120	-		
Cadmium, Total	115		-		80-120	-		
Chromium, Total	106		-		80-120	-		
Copper, Total	107		-		80-120	-		
Lead, Total	113		-		80-120	-		
Manganese, Total	111		-		80-120	-		
Nickel, Total	106		-		80-120	-		
Selenium, Total	115		-		80-120	-		
Silver, Total	107		-		80-120	-		
Zinc, Total	111		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG981716-2 SRM Lot Number: D091-540					
Arsenic, Total	110	-	80-121	-	
Barium, Total	105	-	84-117	-	
Beryllium, Total	103	-	83-117	-	
Cadmium, Total	99	-	83-117	-	
Chromium, Total	98	-	80-119	-	
Copper, Total	104	-	82-117	-	
Lead, Total	103	-	82-118	-	
Manganese, Total	104	-	82-118	-	
Nickel, Total	101	-	83-117	-	
Selenium, Total	101	-	79-121	-	
Silver, Total	105	-	75-124	-	
Zinc, Total	98	-	82-118	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG981798-2 SRM Lot Number: D091-540					
Mercury, Total	81	-	72-128	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 03 Batch: WG982360-2					
Mercury, Dissolved	94	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 980 ELLICOTT

Project Number: 0378-017-004

Lab Number: L1705948

Report Date: 03/14/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03 Batch: WG982634-2					
Arsenic, Dissolved	102	-	80-120	-	
Barium, Dissolved	100	-	80-120	-	
Beryllium, Dissolved	96	-	80-120	-	
Cadmium, Dissolved	98	-	80-120	-	
Chromium, Dissolved	101	-	80-120	-	
Copper, Dissolved	97	-	80-120	-	
Lead, Dissolved	104	-	80-120	-	
Manganese, Dissolved	99	-	80-120	-	
Nickel, Dissolved	96	-	80-120	-	
Selenium, Dissolved	97	-	80-120	-	
Silver, Dissolved	98	-	80-120	-	
Zinc, Dissolved	96	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG981265-3 QC Sample: L1705769-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00515	103		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG981568-3 QC Sample: L1705903-01 Client ID: MS Sample												
Arsenic, Total	0.00894	0.12	0.1449	113		-	-		75-125	-		20
Barium, Total	0.0439	2	2.131	104		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05410	108		-	-		75-125	-		20
Cadmium, Total	0.00006J	0.051	0.05906	116		-	-		75-125	-		20
Chromium, Total	0.00144	0.2	0.2126	106		-	-		75-125	-		20
Copper, Total	0.00455	0.25	0.2852	112		-	-		75-125	-		20
Lead, Total	0.00289	0.51	0.5612	109		-	-		75-125	-		20
Manganese, Total	0.6416	0.5	1.161	104		-	-		75-125	-		20
Nickel, Total	0.00117J	0.5	0.5195	104		-	-		75-125	-		20
Selenium, Total	0.00233J	0.12	0.150	125		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05305	106		-	-		75-125	-		20
Zinc, Total	0.00720J	0.5	0.5613	112		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG981716-3 QC Sample: L1705960-01 Client ID: MS Sample										
Arsenic, Total	1.3	11.1	9.8	77		-	-	75-125	-	20
Barium, Total	83.	185	210	**69**	Q	-	-	75-125	-	20
Beryllium, Total	0.30	4.62	3.5	**69**	Q	-	-	75-125	-	20
Cadmium, Total	ND	4.71	3.1	**66**	Q	-	-	75-125	-	20
Chromium, Total	14.	18.5	26	**65**	Q	-	-	75-125	-	20
Copper, Total	15.	23.1	37	95		-	-	75-125	-	20
Lead, Total	16.	47.1	46	**64**	Q	-	-	75-125	-	20
Manganese, Total	1000B	46.2	970	**0**	Q	-	-	75-125	-	20
Nickel, Total	10.	46.2	42	**69**	Q	-	-	75-125	-	20
Selenium, Total	ND	11.1	7.7	**69**	Q	-	-	75-125	-	20
Silver, Total	ND	27.7	22	79		-	-	75-125	-	20
Zinc, Total	42.	46.2	70	**61**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG981798-3 QC Sample: L1705710-04 Client ID: MS Sample										
Mercury, Total	0.19	0.15	0.35	106		-	-	80-120	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG982360-3 QC Sample: L1705948-03 Client ID: TMW-3										
Mercury, Dissolved	ND	0.005	0.00455	91		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG982634-3 QC Sample: L1706392-04 Client ID: MS Sample									
Arsenic, Dissolved	0.00623	0.12	0.1327	105	-	-	75-125	-	20
Barium, Dissolved	0.00626	2	2.080	104	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04909	98	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05431	106	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1918	96	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2455	98	-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5389	106	-	-	75-125	-	20
Manganese, Dissolved	0.04672B	0.5	0.5279	96	-	-	75-125	-	20
Nickel, Dissolved	0.01509	0.5	0.4834	94	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.109	91	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05121	102	-	-	75-125	-	20
Zinc, Dissolved	ND	0.5	0.4723	94	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG981265-4 QC Sample: L1705769-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG981568-4 QC Sample: L1705903-01 Client ID: DUP Sample						
Arsenic, Total	0.00894	0.00937	mg/l	5		20
Cadmium, Total	0.00006J	0.00006J	mg/l	NC		20
Chromium, Total	0.00144	0.00159	mg/l	10		20
Copper, Total	0.00455	0.00505	mg/l	10		20
Lead, Total	0.00289	0.00321	mg/l	10		20
Nickel, Total	0.00117J	0.00172J	mg/l	NC		20
Selenium, Total	0.00233J	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.00720J	0.00583J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG981716-4 QC Sample: L1705960-01 Client ID: DUP Sample						
Lead, Total	16.	81	mg/kg	**134**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG981798-4 QC Sample: L1705710-04 Client ID: DUP Sample						
Mercury, Total	0.19	0.14	mg/kg	**30**	Q	20
Dissolved Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG982360-4 QC Sample: L1705948-03 Client ID: TMW-3						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG982634-4 QC Sample: L1706392-04 Client ID: DUP Sample					
Arsenic, Dissolved	0.00623	0.00708	mg/l	13	20
Barium, Dissolved	0.00626	0.00620	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Nickel, Dissolved	0.01509	0.01422	mg/l	6	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-01
Client ID: SB-8 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 02/24/17 09:56
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	02/25/17 15:01	121,2540G	SB

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

SAMPLE RESULTS

Lab ID: L1705948-02
Client ID: SB-9 (9-11)
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 02/24/17 10:48
Date Received: 02/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	02/25/17 15:01	121,2540G	SB

Lab Duplicate Analysis
Batch Quality Control

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG981041-1 QC Sample: L1705944-05 Client ID: DUP Sample						
Solids, Total	83.6	83.8	%	0		20

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 25-FEB-17 05:21

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705948-01A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1705948-01B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1705948-01C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1705948-01D	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1705948-01E	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	NYTCL-8270(14)
L1705948-01F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.9	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1705948-01X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1705948-01Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1705948-01Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1705948-02A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1705948-02B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1705948-02C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1705948-02D	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1705948-02E	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	NYTCL-8270(14)
L1705948-02F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.9	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1705948-02X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1705948-02Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1705948-02Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1705948-03A	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1705948-03B	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1705948-03C	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 980 ELLICOTT
Project Number: 0378-017-004

Lab Number: L1705948
Report Date: 03/14/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705948-03D	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1705948-03E	Amber 1000ml unpreserved	A	7	2.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1705948-03F	Plastic 250ml HNO3 preserved	A	<2	2.9	Y	Absent	BA-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1705948-03G	Plastic 250ml unpreserved	A	7	2.9	Y	Absent	-
L1705948-03X	Plastic 120ml HNO3 preserved Fil	A	<2	2.9	Y	Absent	CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),HOLD-METAL-DISSOLVED(180),ZN-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28)
L1705948-04A	Vial HCl preserved	A	N/A	2.9	Y	Absent	HOLD-8260(14)
L1705948-04B	Vial HCl preserved	A	N/A	2.9	Y	Absent	HOLD-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	980 ELLICOTT	**Lab Number:**	L1705948
Project Number:	0378-017-004	**Report Date:**	03/14/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	980 ELLICOTT	**Lab Number:**	L1705948
Project Number:	0378-017-004	**Report Date:**	03/14/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	980 ELLICOTT	**Lab Number:**	L1705948
Project Number:	0378-017-004	**Report Date:**	03/14/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 2/24/17

ALPHA Job #: L1705948

Project Information

Project Name: 980 Ellicott
Project Location: Buffalo NY
Project #: 0378-017-004
(Use Project name as Project #) ☒
Project Manager: Bryan Hann
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information

Client: Benchmark Eng
Address: 2558 Hamburg Turnpike
Lackawanna NY 14218
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: Bhann@Turnkeyllc.com

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please hold Soluble Metals. If Requested please Filter and preserve In Lab.

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375 8260 VOC	Part 375 Metals	Part 375 SVOC 8270	Part 375 S. Metals	Total Solids				Sample Specific Comments	Total Bottles
05948-01	SB-8 (9-11)	2/24/16	956	Soil	TAB	X	X	X		X					6
-02	SB-9 (9-11)	↓	1048	↓	↓	X	X	X		X					6
-03	TMW-2	↓	1145	water	↓	X	X	X	X						7

	Part 375 8260 VOC	Part 375 Metals	Part 375 SVOC 8270	Part 375 S. Metals
Container Type	E	P	A	A
Preservative	A	C	A	A

Preservative Code	Container Code
A = None	P = Plastic
B = HCl	A = Amber Glass
C = HNO_3	V = Vial
D = H_2SO_4	G = Glass
E = NaOH	B = Bacteria Cup
F = MeOH	C = Cube
G = $NaHSO_4$	O = Other
H = $Na_2S_2O_3$	E = Encore
K/E = Zn Ac/NaOH	D = BOD Bottle
O = Other	

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/24/17 1347	Eric S. AAL	2/24/17 1615
Eric S. AAL	2/24/17 1615	[signature]	2/24/17 2340

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

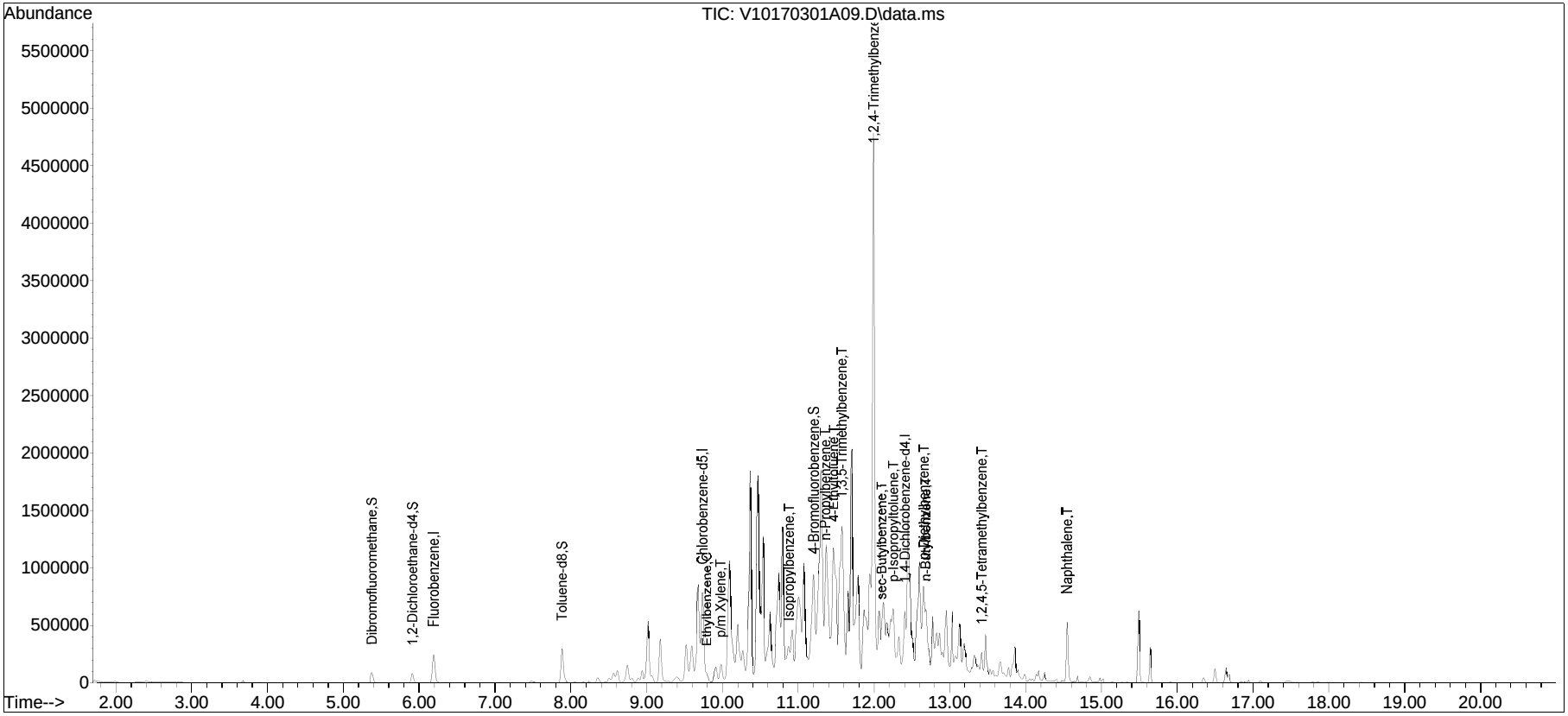
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA110\2017\170301A\
Data File : V10170301A09.D
Acq On : 1 Mar 2017 10:33
Operator : VOA110:JC
Sample : l1705948-01D,31H,6.5,5,0.005,,x
Misc : WG981903,ICAL13423
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 13:35:28 2017
Quant Method : I:\VOLATILES\VOA110\2017\170301A\V110_170221N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 22 08:30:01 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox70301A\V10170301A01.D•



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA110\2017\170301A\
Data File : V10170301A10.D
Acq On : 1 Mar 2017 10:58
Operator : VOA110:JC
Sample : l1705948-02D,31H,6.0,5,0.010,,x
Misc : WG981903,ICAL13423
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 01 13:38:20 2017
Quant Method : I:\VOLATILES\VOA110\2017\170301A\V110_170221N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 22 08:30:01 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox70301A\V10170301A01.D•