LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

592 SENECA STREET SITE
BUFFALO, NEW YORK

July 2020 0538-020-001

Prepared for:

Swan Street Railyard, LLC

500 Seneca Street, Suite 504
Buffalo NY 14204

Prepared by:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

592 Seneca Street Site
Buffalo, New York

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1.0 INTRODUCTION

1.1 Background and Site Description

Benchmark Environmental Engineering & Science, PLLC (Benchmark) performed a Limited Phase II Environmental Investigation on behalf of Swan Street Railyard, LLC at the property addressed at 592 Seneca Street, City of Buffalo, Erie County, New York (Site).

The 2.4 acre site is located at the corner of Swan Street and Jefferson Avenue, and addressed at 592 Seneca Street. The site is vacant, primarily covered in vegetation, with former rail embankment and overpass to the south.

The site is located in a historic commercial and industrial area of the City of Buffalo. Past uses on-Site included railroad operations with multiple rail lines and associated buildings, ice storage, coal and coke storage. The purpose of this investigation was to assess subsurface conditions related to the recognized environmental conditions (RECs) identified for the Site in the Phase I Environmental Site Assessment (ESA)

1.2 Previous Environmental Study

The Phase I Environmental Site Assessment (July 2020) performed by Benchmark revealed the following RECs for the subject property:

- The long history of former railroad activities and rail lines present on Site;
- Historic use of the site for coal/coke storage and coal yard;
- Miscellaneous materials including mounds of discarded tires, wooden pallets, piles of concrete, rail lines, etc. as such will require segregation and proper off-site disposal.
- The potential for miscellaneous urban fill materials from unknown sources is considered a REC due to the potential for impacts.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 Subsurface Investigation

On June 29, 2020, Benchmark mobilized an excavator to the Site to assess subsurface conditions. A total of sixteen (16) test pits (TPs), identified as TP-1 through TP-16, were completed across the Site (see Figure 2).

The test pits were advanced to depths ranging from between 2 feet below ground surface (fbgs) and 13 fbgs. Benchmark field staff inspected the TPs for field characterization of the subsurface lithology, screening of the soil/fill using a photoionization detector (PID) and documenting visual and/or olfactory observations. Findings of the investigation are described in Section 3. Photolog of the field activities is provided in Appendix A, and laboratory analytical data report is provided in Appendix B.

2.2 Laboratory Analysis

A total of eight (8) investigation locations were selected for laboratory analysis. Certain samples were analyzed for Target Compound List (TCL) plus NYSDEC CP-51 List volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) list metals, and polychlorinated biphenyls (PCBs). Laboratory analytical results are presented below.

Soil/fill samples collected were placed in laboratory provided pre-cleaned sample containers using dedicated stainless-steel sampling equipment and cooled to 4º C in the field. The samples were transported under chain-of-custody command to NYSDOH ELAP-certified laboratory for analysis.

3.0 INVESTIGATION FINDINGS

Table 1 presents a summary of the soil/fill sample analytical results with comparison to applicable 6NYCRR Part 375 Soil Cleanup Objectives (SCOs). Laboratory analytical data package is provided electronically in Appendix B.

3.1 Site Observations

Multiple debris piles, including concrete, intermingled soil-fill and rubber tires were identified on-Site. The site is primarily covered by vegetation, some dense, with former elevated railroad berm and roadway overpass to the northeast, and former and active rail to the north.

3.2 Qualitative Soil-Fill Screening

Fill material was identified at all 16 TP locations across the Site at varying depths ranging from 0 to 8 fbgs. Fill material was generally characterized as ash, cinders, coal, brick, concrete, glass, and wood debris. Former rail ties were identified. Reworked fill material including dark grey-to-black sands were identified within the fill layer at multiple locations. The fill layer was underlain by red-brown sandy clay at depths ranging from 3.5 to greater than 8 fbgs.

A former concrete foundation was encountered in the northwestern corner of the Site at a depth of approximately 0.5 fbgs. Perched water was encountered at TP-6 at approximately 12-13 fbgs and TP-8 at approximately 8 fbgs.

3.3 Laboratory Analytical Results

Laboratory analytical results are summarized on Table 1 with comparison to applicable 6NYCRR Part 375 Soil Cleanup Objectives (SCOs). All samples were collected from the shallow soil fill layer ranging from 0-5 fbgs.

Elevated PAHs were detected at 4 of 6 sampled locations. Elevated constituents exceeding the Industrial Use SCOs (ISCOs), including benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were detected at multiple locations. Elevated indeno(1,2,3-cd)pyrene exceeding the Commercial Use SCOs (CSCOs) and multiple PAHs exceeding the Restricted Residential Use SCOs (RRSCOs) and Unrestricted

Use SCOs (USCOs) were detected. Elevated total PAHS were identified exceeding 100 ppm.

Elevated arsenic exceeding its ISCO was detected at 4 sampled locations, with highest value of 51.9 ppm. Elevated lead exceeding its RRSCO and USCOs were detected in 5 locations; elevated mercury exceeding its CSCO, RRSCO and USCO were detected in 6 locations; and, elevated silver was detected exceeding its USCO (see Table 1).

No elevated VOCs or PCBs were detected by the laboratory. A copy of the laboratory data package is provided electronically in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

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

- Suspected fill materials consisting of ash, cinders, black sands, brick, coal, concrete, and wood debris were encountered at all 16 locations across the Site.
- Elevated PAHs exceeding ISCOs were detected in 4 of the 6 sampled locations.
- Elevated metals, including arsenic, lead and mercury, were detected exceeding their ISCO, CSCO, RRSCO, and USCO in shallow fill across the Site.
- Based on the findings of this investigation, additional Site investigation and remediation appears warranted prior to Site redevelopment. We understand that Swan Street Railyard, LLC is considering redeveloping the property as a mixed use residential commercial development, and based on the environmental impacts noted above, the Site may be eligible for the New York Brownfield Cleanup Program.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of Swan Street Railyard, 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 Swan Street Railyard, 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.

TABLE

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT
592 SENECA STREET
BUFFALO, NEW YORK

PARAMETER	Unrestriced Use SCOs[2]	Restricted Residential Use SCOs[2]	Commercial Use SCOs[2]	Industrial Use SCOs[2]	Sample Location							
					TP-1 (0.5-3 fbgs)	TP-2 (0.5-3 fbgs)	TP-5 (1.5-3 fbgs)	TP-6 (1-2.5 fbgs)	TP-10 (4-5 fbgs)	TP-13 (1-3 fbgs)	TP-14 (0.5-2.5 fbgs)	TP-16 (0.5-1.5 fbgs)
					6/29/2020							
Polycyclic Aromatic Hydrocarbons (PAHs) - mg/Kg [3]												
Acenaphthene	**20**	**100**	**500**	**1000**	--	0.17	0.04 J	0.97	ND	0.82	--	0.32
Acenaphthylene	**100**	**100**	**500**	**1000**	--	0.21	0.15 J	2	0.04 J	0.61	--	0.5
Anthracene	**100**	**100**	**500**	**1000**	--	0.65	0.19	4.9	0.054 J	2.6	--	1.2
Benzo(a)anthracene	**1**	**1**	**5.6**	**11**	--	**2**	0.63	**14**	0.1 J	**4.3**	--	**2.3**
Benzo(a)pyrene	**1**	**1**	**1**	**1.1**	--	**1.8**	0.58	**12**	0.077 J	**3.5**	--	**1.9**
Benzo(b)fluoranthene	**1**	**1**	**5.6**	**11**	--	**2.1**	0.68	**14**	0.094 J	**4.2**	--	**3**
Benzo(ghi)perylene	**100**	**100**	**500**	**1000**	--	1.1	0.38	6.4	0.054 J	2.2	--	1.2
Benzo(k)fluoranthene	**0.8**	**3.9**	**56**	**110**	--	**0.82**	0.24	**2.6**	ND	**1.4**	--	0.71
Chrysene	**1**	**3.9**	**56**	**110**	--	**1.6**	0.56	**13**	0.1 J	**3.7**	--	**2.4**
Dibenzo(a,h)anthracene	**0.33**	**0.33**	**0.56**	**1.1**	--	0.23	0.076 J	**2.2**	ND	**0.52**	--	0.32
Fluoranthene	**100**	**100**	**500**	**1000**	--	3.6	1.2	30	0.15	12	--	4.8
Fluorene	**30**	**100**	**500**	**1000**	--	0.18	0.049 J	1.8	0.042 J	0.99	--	0.52
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	**5.6**	**11**	--	**1.1**	0.37	**6.9**	0.042 J	**2.3**	--	**1.3**
Naphthalene	**12**	**100**	**500**	**1000**	--	0.15 J	0.13 J	3.1	0.094 J	1.5	--	0.96
Phenanthrene	**100**	**100**	**500**	**1000**	--	2.1	0.69	22	0.23	11	--	5.1
Pyrene	**100**	**100**	**500**	**1000**	--	3.2	1.2	26	0.13 J	10	--	3.9
Total PAHs	--	**100**	**500**	--	--	21.0	7.2	**161.9**	1.2	61.6	--	30.4
Polychlorinated Biphenyls (PCBs) - mg/Kg [3]												
Aroclor 1254	**--**	**--**	**--**	**--**	--	--	--	0.0231 J	ND	--	ND	--
Aroclor 1260	**--**	**--**	**--**	**--**	--	--	--	0.0168 J	ND	--	ND	--
Total PCBs	**0.1**	**1**	**1**	**25**	--	--	--	0.0399 J	ND	--	ND	--
Metals - mg/Kg												
Arsenic	**13**	**16**	**16**	**16**	7.78	**22.1**	5.16	**41.3**	8.25	**51.9**	--	**23**
Barium	**350**	**400**	**400**	**10,000**	95	87.1	123	135	91.1	44.4	--	105
Cadmium	**2.5**	**4.3**	**9.3**	**60**	ND	0.228 J	0.078 J	ND	ND	0.052 J	--	ND
Chromium	**30**	**180**	**1500**	**6800**	9.46	10	11.5	13	7.56	5.26	--	8.76
Lead	**63**	**400**	**1000**	**3900**	35.7	**818**	**203**	**342**	**279**	55	--	**134**
Mercury	**0.18**	**0.81**	**2.8**	**5.7**	0.059 J	**3.24**	**0.36**	**0.469**	**2.38**	**0.292**	--	**0.186**
Selenium	**3.9**	**180**	**1500**	**6800**	1.3	1.01	0.19 J	3.02	0.893 J	2.04	--	2.07
Silver	**2**	**180**	**1500**	**6800**	ND	ND	ND	**6.55**	ND	ND	--	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Values per 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

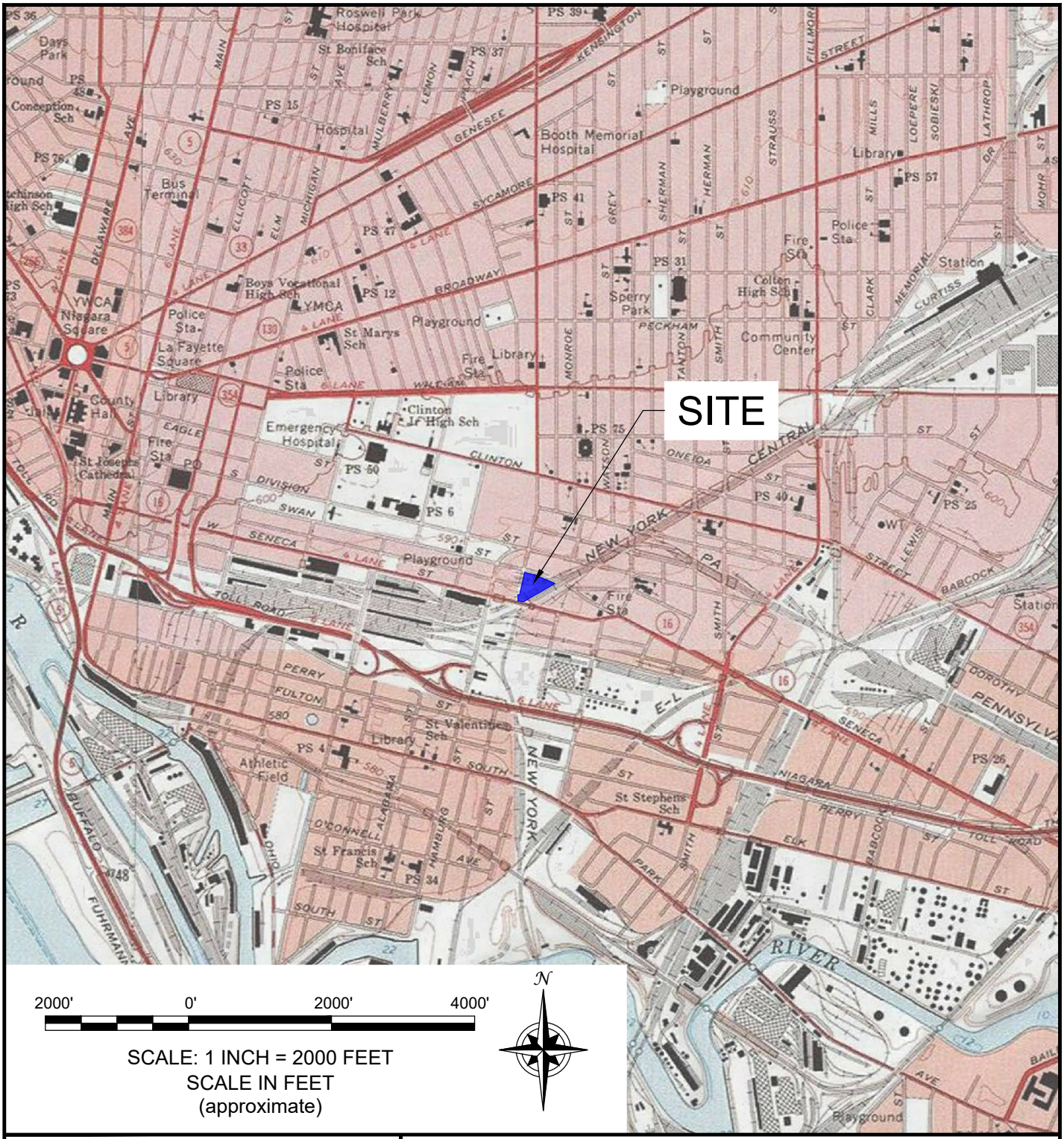
ND = Parameter not detected above laboratory detection limit.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.
Bold	= Result exceeds Industrial Use SCO's.

FIGURES

FIGURE 1



BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

SITE LOCATION AND VICINITY MAP

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION

592 SENECA STREET

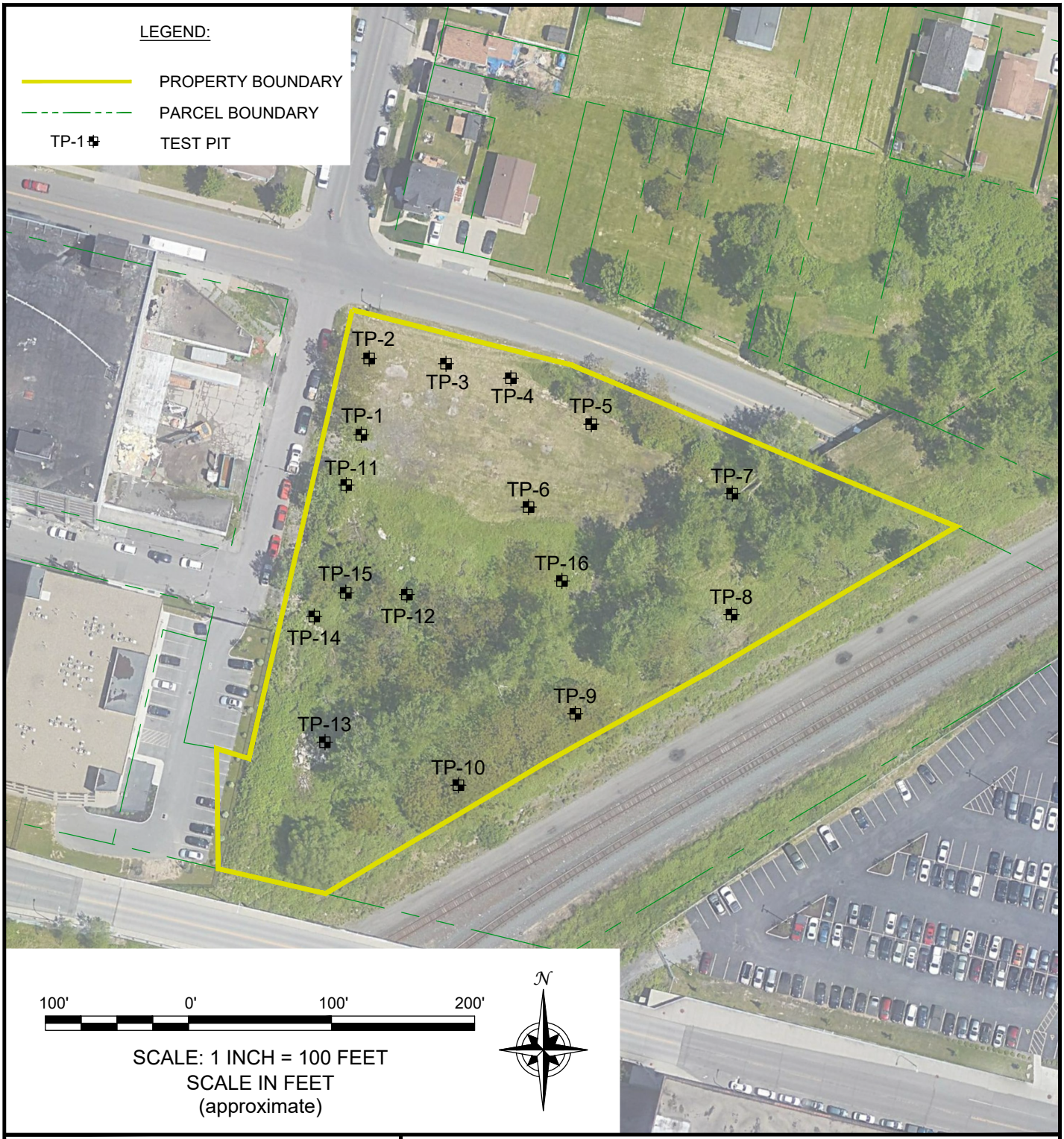
BUFFALO, NEW YORK

PREPARED FOR

SWAN STREET RAILYARD, LLC

PROJECT NO.:	0538-020-001
DATE:	JULY 2020
DRAFTED BY:	CEH

FIGURE 2



BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

2558 HAMBURG TURNPIKE
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BUFFALO, NY 14218
(716) 856-0599

PROJECT NO.: 0538-020-001

DATE: JULY 2020

DRAFTED BY: CEH

INVESTIGATION LOCATIONS

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION

592 SENECA STREET

BUFFALO, NEW YORK

PREPARED FOR

SWAN STREET RAILYARD, LLC

APPENDIX A

PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1: Site Conditions looking southwest. Note covered soil/fill piles.

Photo 2: Site Conditions – dumped tires pile.

Photo 3: Site Conditions – Concrete fill pile.

Photo 4: Fill identified in TP-6 from 1-2.5 fbgs with brick, ash, cinder, black stained sands.

592 Seneca Street Site **Buffalo, New York** Photo Date: June 29, 2020	BENCHMARK

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: Fill identified in TP-6 from 4-7 fbgs.

Photo 6: Fill identified in TP-7 from 0.5-3 fbgs.

Photo 7: TP-16 - Black sand fill, ash cinders, wood – typical across site.

Photo 8: Fill native clay interface – typical.

APPENDIX B

LABORATORY ANALYTICAL DATA SUMMARY PACKAGE

ANALYTICAL REPORT

Lab Number:	L2027656
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 225-3314
Project Name:	592 SENECA STREET
Project Number:	0538-020-001
Report Date:	07/08/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2027656-01	TP-1	SOIL	BUFFALO, NY	06/29/20 07:45	06/30/20
L2027656-02	TP-2	SOIL	BUFFALO, NY	06/29/20 08:00	06/30/20
L2027656-03	TP-5	SOIL	BUFFALO, NY	06/29/20 08:30	06/30/20
L2027656-04	TP-6	SOIL	BUFFALO, NY	06/29/20 08:45	06/30/20
L2027656-05	TP-10	SOIL	BUFFALO, NY	06/29/20 10:00	06/30/20
L2027656-06	TP-13	SOIL	BUFFALO, NY	06/29/20 12:20	06/30/20
L2027656-07	TP-14	SOIL	BUFFALO, NY	06/29/20 12:30	06/30/20
L2027656-08	TP-16	SOIL	BUFFALO, NY	06/29/20 13:00	06/30/20

Project Name:	592 SENECA STREET	**Lab Number:**	L2027656
Project Number:	0538-020-001	**Report Date:**	07/08/20

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name:	592 SENECA STREET	**Lab Number:**	L2027656
Project Number:	0538-020-001	**Report Date:**	07/08/20

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2027656-04 and -05: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L2027656-04: The internal standard (IS) response(s) for 1,4-dichlorobenzene-d4 (22%) and the surrogate recovery for 4-bromofluorobenzene (167%) were outside the acceptance criteria; however, re-analysis achieved similar results: fluorobenzene (25%), chlorobenzene-d5 (21%), 1,4-dichlorobenzene-d4 (13%), 1,2-dichloroethane-d4 (143%), and 4-bromofluorobenzene (144%). The results of both analyses are reported.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 07/08/20

ORGANICS

VOLATILES

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04
Client ID: TP-6
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 08:45
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/06/20 23:38
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: 592 SENECA STREET **Lab Number:** L2027656

Project Number: 0538-020-001 **Report Date:** 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04 Date Collected: 06/29/20 08:45

Client ID: TP-6 Date Received: 06/30/20

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
Methyl Acetate	ND		ug/kg	5.2	1.2	1
Cyclohexane	ND		ug/kg	13	0.71	1
1,4-Dioxane	ND		ug/kg	100	46.	1
Freon-113	ND		ug/kg	5.2	0.91	1
Methyl cyclohexane	ND		ug/kg	5.2	0.79	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	127		70-130
4-Bromofluorobenzene	**167**	Q	70-130
Dibromofluoromethane	104		70-130

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04 R
Client ID: TP-6
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 08:45
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/07/20 11:53
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: 592 SENECA STREET **Lab Number:** L2027656

Project Number: 0538-020-001 **Report Date:** 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04 R Date Collected: 06/29/20 08:45

Client ID: TP-6 Date Received: 06/30/20

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
Methyl Acetate	ND		ug/kg	4.7	1.1	1
Cyclohexane	ND		ug/kg	12	0.64	1
1,4-Dioxane	ND		ug/kg	95	42.	1
Freon-113	ND		ug/kg	4.7	0.82	1
Methyl cyclohexane	ND		ug/kg	4.7	0.71	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**143**	Q	70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	**144**	Q	70-130
Dibromofluoromethane	107		70-130

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-05
Client ID: TP-10
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 10:00
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/07/20 00:04
Analyst: JC
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 592 SENECA STREET **Lab Number:** L2027656

Project Number: 0538-020-001 **Report Date:** 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-05 Date Collected: 06/29/20 10:00

Client ID: TP-10 Date Received: 06/30/20

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.24	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	86		ug/kg	13	6.5	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.38	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Cyclohexane	ND		ug/kg	13	0.73	1
1,4-Dioxane	ND		ug/kg	110	47.	1
Freon-113	ND		ug/kg	5.4	0.93	1
Methyl cyclohexane	ND		ug/kg	5.4	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/07/20 07:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1389442-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/07/20 07:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1389442-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/07/20 07:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1389442-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	92		70-130

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/06/20 17:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04-05 Batch: WG1389447-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/06/20 17:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04-05 Batch: WG1389447-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/06/20 17:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04-05 Batch: WG1389447-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1389442-3 WG1389442-4								
Methylene chloride	82		88		70-130	7		30
1,1-Dichloroethane	103		112		70-130	8		30
Chloroform	92		99		70-130	7		30
Carbon tetrachloride	90		99		70-130	10		30
1,2-Dichloropropane	108		116		70-130	7		30
Dibromochloromethane	97		101		70-130	4		30
1,1,2-Trichloroethane	97		102		70-130	5		30
Tetrachloroethene	89		95		70-130	7		30
Chlorobenzene	89		94		70-130	5		30
Trichlorofluoromethane	75		83		70-139	10		30
1,2-Dichloroethane	102		108		70-130	6		30
1,1,1-Trichloroethane	92		101		70-130	9		30
Bromodichloromethane	100		105		70-130	5		30
trans-1,3-Dichloropropene	104		108		70-130	4		30
cis-1,3-Dichloropropene	107		114		70-130	6		30
Bromoform	96		100		70-130	4		30
1,1,2,2-Tetrachloroethane	101		105		70-130	4		30
Benzene	98		105		70-130	7		30
Toluene	92		97		70-130	5		30
Ethylbenzene	91		97		70-130	6		30
Chloromethane	58		62		52-130	7		30
Bromomethane	75		74		57-147	1		30
Vinyl chloride	72		78		67-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1389442-3 WG1389442-4								
Chloroethane	87		93		50-151	7		30
1,1-Dichloroethene	86		94		65-135	9		30
trans-1,2-Dichloroethene	93		100		70-130	7		30
Trichloroethene	94		102		70-130	8		30
1,2-Dichlorobenzene	92		99		70-130	7		30
1,3-Dichlorobenzene	93		99		70-130	6		30
1,4-Dichlorobenzene	91		98		70-130	7		30
Methyl tert butyl ether	100		103		66-130	3		30
p/m-Xylene	93		99		70-130	6		30
o-Xylene	94		100		70-130	6		30
cis-1,2-Dichloroethene	96		102		70-130	6		30
Styrene	94		100		70-130	6		30
Dichlorodifluoromethane	30		31		30-146	3		30
Acetone	87		88		54-140	1		30
Carbon disulfide	86		93		59-130	8		30
2-Butanone	80		87		70-130	8		30
4-Methyl-2-pentanone	96		97		70-130	1		30
2-Hexanone	80		78		70-130	3		30
Bromochloromethane	97		102		70-130	5		30
1,2-Dibromoethane	102		105		70-130	3		30
n-Butylbenzene	96		104		70-130	8		30
sec-Butylbenzene	95		104		70-130	9		30
1,2-Dibromo-3-chloropropane	86		90		68-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1389442-3 WG1389442-4								
Isopropylbenzene	97		105		70-130	8		30
p-Isopropyltoluene	97		104		70-130	7		30
n-Propylbenzene	96		104		70-130	8		30
1,2,3-Trichlorobenzene	88		94		70-130	7		30
1,2,4-Trichlorobenzene	90		96		70-130	6		30
1,3,5-Trimethylbenzene	98		105		70-130	7		30
1,2,4-Trimethylbenzene	99		106		70-130	7		30
Methyl Acetate	80		82		51-146	2		30
Cyclohexane	93		103		59-142	10		30
1,4-Dioxane	84		86		65-136	2		30
Freon-113	83		92		50-139	10		30
Methyl cyclohexane	89		98		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	109		109		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04-05 Batch: WG1389447-3 WG1389447-4								
Methylene chloride	90		91		70-130	1		30
1,1-Dichloroethane	115		118		70-130	3		30
Chloroform	102		104		70-130	2		30
Carbon tetrachloride	99		100		70-130	1		30
1,2-Dichloropropane	120		123		70-130	2		30
Dibromochloromethane	104		106		70-130	2		30
1,1,2-Trichloroethane	105		106		70-130	1		30
Tetrachloroethene	99		97		70-130	2		30
Chlorobenzene	98		98		70-130	0		30
Trichlorofluoromethane	82		83		70-139	1		30
1,2-Dichloroethane	114		114		70-130	0		30
1,1,1-Trichloroethane	102		103		70-130	1		30
Bromodichloromethane	109		110		70-130	1		30
trans-1,3-Dichloropropene	112		113		70-130	1		30
cis-1,3-Dichloropropene	117		117		70-130	0		30
Bromoform	101		101		70-130	0		30
1,1,2,2-Tetrachloroethane	109		108		70-130	1		30
Benzene	109		110		70-130	1		30
Toluene	102		102		70-130	0		30
Ethylbenzene	101		102		70-130	1		30
Chloromethane	69		68		52-130	1		30
Bromomethane	76		74		57-147	3		30
Vinyl chloride	82		82		67-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04-05 Batch: WG1389447-3 WG1389447-4								
Chloroethane	98		98		50-151	0		30
1,1-Dichloroethene	93		94		65-135	1		30
trans-1,2-Dichloroethene	103		105		70-130	2		30
Trichloroethene	105		105		70-130	0		30
1,2-Dichlorobenzene	101		102		70-130	1		30
1,3-Dichlorobenzene	102		102		70-130	0		30
1,4-Dichlorobenzene	101		100		70-130	1		30
Methyl tert butyl ether	103		106		66-130	3		30
p/m-Xylene	103		103		70-130	0		30
o-Xylene	104		104		70-130	0		30
cis-1,2-Dichloroethene	107		106		70-130	1		30
Styrene	105		105		70-130	0		30
Dichlorodifluoromethane	32		32		30-146	0		30
Acetone	92		88		54-140	4		30
Carbon disulfide	96		96		59-130	0		30
2-Butanone	81		75		70-130	8		30
4-Methyl-2-pentanone	99		101		70-130	2		30
2-Hexanone	83		84		70-130	1		30
Bromochloromethane	106		104		70-130	2		30
1,2-Dibromoethane	108		109		70-130	1		30
n-Butylbenzene	108		108		70-130	0		30
sec-Butylbenzene	106		106		70-130	0		30
1,2-Dibromo-3-chloropropane	92		91		68-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04-05 Batch: WG1389447-3 WG1389447-4								
Isopropylbenzene	108		108		70-130	0		30
p-Isopropyltoluene	107		107		70-130	0		30
n-Propylbenzene	108		107		70-130	1		30
1,2,3-Trichlorobenzene	96		97		70-130	1		30
1,2,4-Trichlorobenzene	98		99		70-130	1		30
1,3,5-Trimethylbenzene	109		109		70-130	0		30
1,2,4-Trimethylbenzene	109		110		70-130	1		30
Methyl Acetate	88		89		51-146	1		30
Cyclohexane	102		102		59-142	0		30
1,4-Dioxane	107		115		65-136	7		30
Freon-113	88		88		50-139	0		30
Methyl cyclohexane	95		95		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	110		107		70-130
Dibromofluoromethane	98		96		70-130

SEMIVOLATILES

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-02
Client ID: TP-2
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 08:00
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/04/20 05:43
Analyst: IM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	170		ug/kg	150	19.	1
Fluoranthene	3600		ug/kg	110	21.	1
Naphthalene	150	J	ug/kg	180	22.	1
Benzo(a)anthracene	2000		ug/kg	110	21.	1
Benzo(a)pyrene	1800		ug/kg	150	45.	1
Benzo(b)fluoranthene	2100		ug/kg	110	31.	1
Benzo(k)fluoranthene	820		ug/kg	110	29.	1
Chrysene	1600		ug/kg	110	19.	1
Acenaphthylene	210		ug/kg	150	28.	1
Anthracene	650		ug/kg	110	36.	1
Benzo(ghi)perylene	1100		ug/kg	150	22.	1
Fluorene	180		ug/kg	180	18.	1
Phenanthrene	2100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	230		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1100		ug/kg	150	26.	1
Pyrene	3200		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	67		18-120

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-03
Client ID: TP-5
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 08:30
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/04/20 06:06
Analyst: IM
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	40	J	ug/kg	160	21.	1
Fluoranthene	1200		ug/kg	120	23.	1
Naphthalene	130	J	ug/kg	200	25.	1
Benzo(a)anthracene	630		ug/kg	120	23.	1
Benzo(a)pyrene	580		ug/kg	160	50.	1
Benzo(b)fluoranthene	680		ug/kg	120	34.	1
Benzo(k)fluoranthene	240		ug/kg	120	32.	1
Chrysene	560		ug/kg	120	21.	1
Acenaphthylene	150	J	ug/kg	160	31.	1
Anthracene	190		ug/kg	120	40.	1
Benzo(ghi)perylene	380		ug/kg	160	24.	1
Fluorene	49	J	ug/kg	200	20.	1
Phenanthrene	690		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	76	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	370		ug/kg	160	28.	1
Pyrene	1200		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	66		18-120

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04
Client ID: TP-6
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 08:45
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/04/20 06:29
Analyst: IM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	970		ug/kg	160	21.	1
Fluoranthene	21000	E	ug/kg	120	23.	1
Naphthalene	3100		ug/kg	200	25.	1
Benzo(a)anthracene	12000	E	ug/kg	120	23.	1
Benzo(a)pyrene	9800	E	ug/kg	160	49.	1
Benzo(b)fluoranthene	13000	E	ug/kg	120	34.	1
Benzo(k)fluoranthene	2600		ug/kg	120	32.	1
Chrysene	10000	E	ug/kg	120	21.	1
Acenaphthylene	2000		ug/kg	160	31.	1
Anthracene	4900		ug/kg	120	39.	1
Benzo(ghi)perylene	6400		ug/kg	160	24.	1
Fluorene	1800		ug/kg	200	20.	1
Phenanthrene	17000	E	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	2200		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	6900		ug/kg	160	28.	1
Pyrene	18000	E	ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	70		18-120

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04 D
Client ID: TP-6
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 08:45
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/07/20 20:59
Analyst: IM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	30000		ug/kg	1200	230	10
Benzo(a)anthracene	14000		ug/kg	1200	230	10
Benzo(a)pyrene	12000		ug/kg	1600	490	10
Benzo(b)fluoranthene	14000		ug/kg	1200	340	10
Chrysene	13000		ug/kg	1200	210	10
Phenanthrene	22000		ug/kg	1200	250	10
Pyrene	26000		ug/kg	1200	200	10

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-05
Client ID: TP-10
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 10:00
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/04/20 06:51
Analyst: IM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	24.	1
Fluoranthene	150		ug/kg	140	27.	1
Naphthalene	94	J	ug/kg	230	28.	1
Benzo(a)anthracene	100	J	ug/kg	140	26.	1
Benzo(a)pyrene	77	J	ug/kg	190	57.	1
Benzo(b)fluoranthene	94	J	ug/kg	140	39.	1
Benzo(k)fluoranthene	ND		ug/kg	140	37.	1
Chrysene	100	J	ug/kg	140	24.	1
Acenaphthylene	40	J	ug/kg	190	36.	1
Anthracene	54	J	ug/kg	140	46.	1
Benzo(ghi)perylene	54	J	ug/kg	190	28.	1
Fluorene	42	J	ug/kg	230	23.	1
Phenanthrene	230		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	27.	1
Indeno(1,2,3-cd)pyrene	42	J	ug/kg	190	33.	1
Pyrene	130	J	ug/kg	140	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	58		18-120

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-06
Client ID: TP-13
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 12:20
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/04/20 07:14
Analyst: IM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	820		ug/kg	140	19.	1
Fluoranthene	9100	E	ug/kg	110	21.	1
Naphthalene	1500		ug/kg	180	22.	1
Benzo(a)anthracene	4300		ug/kg	110	20.	1
Benzo(a)pyrene	3500		ug/kg	140	44.	1
Benzo(b)fluoranthene	4200		ug/kg	110	30.	1
Benzo(k)fluoranthene	1400		ug/kg	110	29.	1
Chrysene	3700		ug/kg	110	19.	1
Acenaphthylene	610		ug/kg	140	28.	1
Anthracene	2600		ug/kg	110	35.	1
Benzo(ghi)perylene	2200		ug/kg	140	21.	1
Fluorene	990		ug/kg	180	18.	1
Phenanthrene	9000	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	520		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2300		ug/kg	140	25.	1
Pyrene	8000	E	ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	67		30-120
4-Terphenyl-d14	57		18-120

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-06 D
Client ID: TP-13
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 12:20
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/07/20 20:36
Analyst: IM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	12000		ug/kg	540	100	5
Phenanthrene	11000		ug/kg	540	110	5
Pyrene	10000		ug/kg	540	90.	5

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-08
Client ID: TP-16
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 13:00
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/04/20 07:37
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	320		ug/kg	160	20.	1
Fluoranthene	4800		ug/kg	120	22.	1
Naphthalene	960		ug/kg	190	24.	1
Benzo(a)anthracene	2300		ug/kg	120	22.	1
Benzo(a)pyrene	1900		ug/kg	160	47.	1
Benzo(b)fluoranthene	3000		ug/kg	120	33.	1
Benzo(k)fluoranthene	710		ug/kg	120	31.	1
Chrysene	2400		ug/kg	120	20.	1
Acenaphthylene	500		ug/kg	160	30.	1
Anthracene	1200		ug/kg	120	38.	1
Benzo(ghi)perylene	1200		ug/kg	160	23.	1
Fluorene	520		ug/kg	190	19.	1
Phenanthrene	5100		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	320		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	1300		ug/kg	160	27.	1
Pyrene	3900		ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	54		30-120
4-Terphenyl-d14	55		18-120

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/04/20 04:36
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/03/20 00:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-06,08 Batch: WG1388698-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	97	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
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	32.
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	23.
Pyrene	ND		ug/kg	97	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-06,08 Batch: WG1388698-2 WG1388698-3								
Acenaphthene	74		81		31-137	9		50
Fluoranthene	75		84		40-140	11		50
Naphthalene	72		75		40-140	4		50
Benzo(a)anthracene	74		82		40-140	10		50
Benzo(a)pyrene	74		82		40-140	10		50
Benzo(b)fluoranthene	70		78		40-140	11		50
Benzo(k)fluoranthene	81		91		40-140	12		50
Chrysene	75		82		40-140	9		50
Acenaphthylene	78		84		40-140	7		50
Anthracene	78		86		40-140	10		50
Benzo(ghi)perylene	79		87		40-140	10		50
Fluorene	77		83		40-140	8		50
Phenanthrene	73		80		40-140	9		50
Dibenzo(a,h)anthracene	81		89		40-140	9		50
Indeno(1,2,3-cd)pyrene	77		86		40-140	11		50
Pyrene	76		84		35-142	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 592 SENECA STREET

Project Number: 0538-020-001

Lab Number: L2027656

Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-06,08 Batch: WG1388698-2 WG1388698-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		72		25-120
Phenol-d6	76		80		10-120
Nitrobenzene-d5	75		78		23-120
2-Fluorobiphenyl	74		78		30-120
2,4,6-Tribromophenol	81		88		10-136
4-Terphenyl-d14	78		85		18-120

PCBS

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04
Client ID: TP-6
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 08:45
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/06/20 02:37
Analyst: JM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 07/02/20 22:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/04/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.8	3.53	1	A
Aroclor 1221	ND		ug/kg	39.8	3.98	1	A
Aroclor 1232	ND		ug/kg	39.8	8.43	1	A
Aroclor 1242	ND		ug/kg	39.8	5.36	1	A
Aroclor 1248	ND		ug/kg	39.8	5.96	1	A
Aroclor 1254	23.1	J	ug/kg	39.8	4.35	1	B
Aroclor 1260	16.8	J	ug/kg	39.8	7.35	1	A
Aroclor 1262	ND		ug/kg	39.8	5.05	1	A
Aroclor 1268	ND		ug/kg	39.8	4.12	1	A
PCBs, Total	39.9	J	ug/kg	39.8	3.53	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-05
Client ID: TP-10
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 10:00
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/06/20 02:44
Analyst: JM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 07/02/20 22:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/04/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	46.4	4.12	1	A
Aroclor 1221	ND		ug/kg	46.4	4.65	1	A
Aroclor 1232	ND		ug/kg	46.4	9.83	1	A
Aroclor 1242	ND		ug/kg	46.4	6.25	1	A
Aroclor 1248	ND		ug/kg	46.4	6.96	1	A
Aroclor 1254	ND		ug/kg	46.4	5.07	1	A
Aroclor 1260	ND		ug/kg	46.4	8.57	1	A
Aroclor 1262	ND		ug/kg	46.4	5.89	1	A
Aroclor 1268	ND		ug/kg	46.4	4.80	1	A
PCBs, Total	ND		ug/kg	46.4	4.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-07
Client ID: TP-14
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 12:30
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/06/20 02:51
Analyst: JM
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 07/02/20 22:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/04/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.2	3.93	1	A
Aroclor 1221	ND		ug/kg	44.2	4.43	1	A
Aroclor 1232	ND		ug/kg	44.2	9.37	1	A
Aroclor 1242	ND		ug/kg	44.2	5.96	1	A
Aroclor 1248	ND		ug/kg	44.2	6.63	1	A
Aroclor 1254	ND		ug/kg	44.2	4.84	1	A
Aroclor 1260	ND		ug/kg	44.2	8.17	1	A
Aroclor 1262	ND		ug/kg	44.2	5.62	1	A
Aroclor 1268	ND		ug/kg	44.2	4.58	1	A
PCBs, Total	ND		ug/kg	44.2	3.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/06/20 01:28
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 07/02/20 21:51
Cleanup Method: EPA 3665A
Cleanup Date: 07/04/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04-05,07 Batch: WG1388682-1						
Aroclor 1016	ND		ug/kg	31.5	2.80	A
Aroclor 1221	ND		ug/kg	31.5	3.16	A
Aroclor 1232	ND		ug/kg	31.5	6.69	A
Aroclor 1242	ND		ug/kg	31.5	4.25	A
Aroclor 1248	ND		ug/kg	31.5	4.73	A
Aroclor 1254	ND		ug/kg	31.5	3.45	A
Aroclor 1260	ND		ug/kg	31.5	5.83	A
Aroclor 1262	ND		ug/kg	31.5	4.01	A
Aroclor 1268	ND		ug/kg	31.5	3.27	A
PCBs, Total	ND		ug/kg	31.5	2.80	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	81		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 592 SENECA STREET

Project Number: 0538-020-001

Lab Number: L2027656

Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04-05,07 Batch: WG1388682-2 WG1388682-3									
Aroclor 1016	71		70		40-140	1		50	A
Aroclor 1260	65		64		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		67		30-150	A
Decachlorobiphenyl	70		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		72		30-150	B
Decachlorobiphenyl	70		71		30-150	B

METALS

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-01
Client ID: TP-1
Sample Location: BUFFALO, NY
Date Collected: 06/29/20 07:45
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.78		mg/kg	0.451	0.094	1	07/02/20 06:00	07/02/20 11:59	EPA 3050B	1,6010D	LC
Barium, Total	95.0		mg/kg	0.451	0.079	1	07/02/20 06:00	07/02/20 11:59	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.451	0.044	1	07/02/20 06:00	07/02/20 11:59	EPA 3050B	1,6010D	LC
Chromium, Total	9.46		mg/kg	0.451	0.043	1	07/02/20 06:00	07/02/20 11:59	EPA 3050B	1,6010D	LC
Lead, Total	35.7		mg/kg	2.26	0.121	1	07/02/20 06:00	07/02/20 11:59	EPA 3050B	1,6010D	LC
Mercury, Total	0.059	J	mg/kg	0.075	0.049	1	07/02/20 06:45	07/02/20 09:28	EPA 7471B	1,7471B	GD
Selenium, Total	1.30		mg/kg	0.902	0.116	1	07/02/20 06:00	07/02/20 11:59	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.451	0.128	1	07/02/20 06:00	07/02/20 11:59	EPA 3050B	1,6010D	LC

Project Name: 592 SENECA STREET
Lab Number: L2027656
Project Number: 0538-020-001
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-02
Client ID: TP-2
Sample Location: BUFFALO, NY
Date Collected: 06/29/20 08:00
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	22.1		mg/kg	0.439	0.091	1	07/02/20 06:00	07/02/20 12:04	EPA 3050B	1,6010D	LC
Barium, Total	87.1		mg/kg	0.439	0.076	1	07/02/20 06:00	07/02/20 12:04	EPA 3050B	1,6010D	LC
Cadmium, Total	0.228	J	mg/kg	0.439	0.043	1	07/02/20 06:00	07/02/20 12:04	EPA 3050B	1,6010D	LC
Chromium, Total	10.0		mg/kg	0.439	0.042	1	07/02/20 06:00	07/02/20 12:04	EPA 3050B	1,6010D	LC
Lead, Total	818		mg/kg	2.20	0.118	1	07/02/20 06:00	07/02/20 12:04	EPA 3050B	1,6010D	LC
Mercury, Total	3.24		mg/kg	0.140	0.092	2	07/02/20 06:45	07/02/20 12:26	EPA 7471B	1,7471B	GD
Selenium, Total	1.01		mg/kg	0.878	0.113	1	07/02/20 06:00	07/02/20 12:04	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.439	0.124	1	07/02/20 06:00	07/02/20 12:04	EPA 3050B	1,6010D	LC

Project Name: 592 SENECA STREET
Lab Number: L2027656
Project Number: 0538-020-001
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-03
Client ID: TP-5
Sample Location: BUFFALO, NY
Date Collected: 06/29/20 08:30
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.16		mg/kg	0.487	0.101	1	07/02/20 06:00	07/02/20 12:08	EPA 3050B	1,6010D	LC
Barium, Total	123		mg/kg	0.487	0.085	1	07/02/20 06:00	07/02/20 12:08	EPA 3050B	1,6010D	LC
Cadmium, Total	0.078	J	mg/kg	0.487	0.048	1	07/02/20 06:00	07/02/20 12:08	EPA 3050B	1,6010D	LC
Chromium, Total	11.5		mg/kg	0.487	0.047	1	07/02/20 06:00	07/02/20 12:08	EPA 3050B	1,6010D	LC
Lead, Total	203		mg/kg	2.43	0.130	1	07/02/20 06:00	07/02/20 12:08	EPA 3050B	1,6010D	LC
Mercury, Total	0.360		mg/kg	0.078	0.051	1	07/02/20 06:45	07/02/20 09:44	EPA 7471B	1,7471B	GD
Selenium, Total	0.190	J	mg/kg	0.974	0.126	1	07/02/20 06:00	07/02/20 12:08	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.487	0.138	1	07/02/20 06:00	07/02/20 12:08	EPA 3050B	1,6010D	LC

Project Name: 592 SENECA STREET
Lab Number: L2027656
Project Number: 0538-020-001
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04
Client ID: TP-6
Sample Location: BUFFALO, NY
Date Collected: 06/29/20 08:45
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	41.3		mg/kg	0.478	0.100	1	07/02/20 06:00	07/02/20 12:13	EPA 3050B	1,6010D	LC
Barium, Total	135		mg/kg	0.478	0.083	1	07/02/20 06:00	07/02/20 12:13	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.478	0.047	1	07/02/20 06:00	07/02/20 12:13	EPA 3050B	1,6010D	LC
Chromium, Total	13.0		mg/kg	0.478	0.046	1	07/02/20 06:00	07/02/20 12:13	EPA 3050B	1,6010D	LC
Lead, Total	342		mg/kg	2.39	0.128	1	07/02/20 06:00	07/02/20 12:13	EPA 3050B	1,6010D	LC
Mercury, Total	0.469		mg/kg	0.078	0.051	1	07/02/20 06:45	07/02/20 09:47	EPA 7471B	1,7471B	GD
Selenium, Total	3.02		mg/kg	0.957	0.123	1	07/02/20 06:00	07/02/20 12:13	EPA 3050B	1,6010D	LC
Silver, Total	6.55		mg/kg	0.478	0.135	1	07/02/20 06:00	07/02/20 12:13	EPA 3050B	1,6010D	LC

Project Name: 592 SENECA STREET
Lab Number: L2027656
Project Number: 0538-020-001
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-05
Client ID: TP-10
Sample Location: BUFFALO, NY
Date Collected: 06/29/20 10:00
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.25		mg/kg	0.545	0.113	1	07/02/20 06:00	07/02/20 12:17	EPA 3050B	1,6010D	LC
Barium, Total	91.1		mg/kg	0.545	0.095	1	07/02/20 06:00	07/02/20 12:17	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.545	0.053	1	07/02/20 06:00	07/02/20 12:17	EPA 3050B	1,6010D	LC
Chromium, Total	7.56		mg/kg	0.545	0.052	1	07/02/20 06:00	07/02/20 12:17	EPA 3050B	1,6010D	LC
Lead, Total	279		mg/kg	2.72	0.146	1	07/02/20 06:00	07/02/20 12:17	EPA 3050B	1,6010D	LC
Mercury, Total	2.38		mg/kg	0.088	0.058	1	07/02/20 06:45	07/02/20 09:50	EPA 7471B	1,7471B	GD
Selenium, Total	0.893	J	mg/kg	1.09	0.140	1	07/02/20 06:00	07/02/20 12:17	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.545	0.154	1	07/02/20 06:00	07/02/20 12:17	EPA 3050B	1,6010D	LC

Project Name: 592 SENECA STREET
Lab Number: L2027656
Project Number: 0538-020-001
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-06
Client ID: TP-13
Sample Location: BUFFALO, NY
Date Collected: 06/29/20 12:20
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	51.9		mg/kg	0.433	0.090	1	07/02/20 06:00	07/02/20 12:21	EPA 3050B	1,6010D	LC
Barium, Total	44.4		mg/kg	0.433	0.075	1	07/02/20 06:00	07/02/20 12:21	EPA 3050B	1,6010D	LC
Cadmium, Total	0.052	J	mg/kg	0.433	0.042	1	07/02/20 06:00	07/02/20 12:21	EPA 3050B	1,6010D	LC
Chromium, Total	5.26		mg/kg	0.433	0.042	1	07/02/20 06:00	07/02/20 12:21	EPA 3050B	1,6010D	LC
Lead, Total	55.0		mg/kg	2.16	0.116	1	07/02/20 06:00	07/02/20 12:21	EPA 3050B	1,6010D	LC
Mercury, Total	0.292		mg/kg	0.071	0.046	1	07/02/20 06:45	07/02/20 09:54	EPA 7471B	1,7471B	GD
Selenium, Total	2.04		mg/kg	0.866	0.112	1	07/02/20 06:00	07/02/20 12:21	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.433	0.122	1	07/02/20 06:00	07/02/20 12:21	EPA 3050B	1,6010D	LC

Project Name: 592 SENECA STREET
Lab Number: L2027656
Project Number: 0538-020-001
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-08
Client ID: TP-16
Sample Location: BUFFALO, NY
Date Collected: 06/29/20 13:00
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	23.0		mg/kg	0.461	0.096	1	07/02/20 06:00	07/02/20 12:26	EPA 3050B	1,6010D	LC
Barium, Total	105		mg/kg	0.461	0.080	1	07/02/20 06:00	07/02/20 12:26	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.461	0.045	1	07/02/20 06:00	07/02/20 12:26	EPA 3050B	1,6010D	LC
Chromium, Total	8.76		mg/kg	0.461	0.044	1	07/02/20 06:00	07/02/20 12:26	EPA 3050B	1,6010D	LC
Lead, Total	134		mg/kg	2.30	0.124	1	07/02/20 06:00	07/02/20 12:26	EPA 3050B	1,6010D	LC
Mercury, Total	0.186		mg/kg	0.074	0.048	1	07/02/20 06:45	07/02/20 09:57	EPA 7471B	1,7471B	GD
Selenium, Total	2.07		mg/kg	0.922	0.119	1	07/02/20 06:00	07/02/20 12:26	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.461	0.130	1	07/02/20 06:00	07/02/20 12:26	EPA 3050B	1,6010D	LC

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

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): 01-06,08 Batch: WG1388221-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/02/20 06:00	07/02/20 08:27	1,6010D	PE
Barium, Total	ND		mg/kg	0.400	0.070	1	07/02/20 06:00	07/02/20 08:27	1,6010D	PE
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/02/20 06:00	07/02/20 08:27	1,6010D	PE
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/02/20 06:00	07/02/20 08:27	1,6010D	PE
Lead, Total	ND		mg/kg	2.00	0.107	1	07/02/20 06:00	07/02/20 08:27	1,6010D	PE
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/02/20 06:00	07/02/20 08:27	1,6010D	PE
Silver, Total	ND		mg/kg	0.400	0.113	1	07/02/20 06:00	07/02/20 08:27	1,6010D	PE

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): 01-06,08 Batch: WG1388223-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/02/20 06:45	07/02/20 09:05	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 592 SENECA STREET

Project Number: 0538-020-001

Lab Number: L2027656

Report Date: 07/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,08 Batch: WG1388221-2 SRM Lot Number: D109-540								
Arsenic, Total	100		-		70-130	-		
Barium, Total	94		-		75-125	-		
Cadmium, Total	94		-		75-125	-		
Chromium, Total	92		-		70-130	-		
Lead, Total	95		-		72-128	-		
Selenium, Total	103		-		68-132	-		
Silver, Total	95		-		68-131	-		
Total Metals - Mansfield Lab Associated sample(s): 01-06,08 Batch: WG1388223-2 SRM Lot Number: D109-540								
Mercury, Total	90		-		60-140	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

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): 01-06,08 QC Batch ID: WG1388221-3 WG1388221-4 QC Sample: L2027896-01 Client ID: MS Sample												
Arsenic, Total	1.73	12	9.73	**67**	Q	9.98	**69**	Q	75-125	3		20
Barium, Total	62.2	200	212	75		216	77		75-125	2		20
Cadmium, Total	ND	5.1	2.99	**59**	Q	3.11	**61**	Q	75-125	4		20
Chromium, Total	37.2	20	50.0	**64**	Q	49.4	**61**	Q	75-125	1		20
Lead, Total	5.68	51	40.4	**68**	Q	40.8	**69**	Q	75-125	1		20
Selenium, Total	ND	12	6.71	**56**	Q	6.87	**58**	Q	75-125	2		20
Silver, Total	ND	30	22.4	75		23.2	78		75-125	4		20
Total Metals - Mansfield Lab Associated sample(s): 01-06,08 QC Batch ID: WG1388223-3 WG1388223-4 QC Sample: L2027896-01 Client ID: MS Sample												
Mercury, Total	ND	0.165	0.215	**130**	Q	0.178	108		80-120	19		20

INORGANICS
&
MISCELLANEOUS

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-01
Client ID: TP-1
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/29/20 07:45
Date Received: 06/30/20
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	84.1		%	0.100	NA	1	-	07/01/20 11:28	121,2540G	RI

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SAMPLE RESULTS

Lab ID: L2027656-02
Client ID: TP-2
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/29/20 08:00
Date Received: 06/30/20
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	89.6		%	0.100	NA	1	-	07/01/20 11:28	121,2540G	RI

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-03
Client ID: TP-5
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/29/20 08:30
Date Received: 06/30/20
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	80.0		%	0.100	NA	1	-	07/01/20 11:28	121,2540G	RI

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-04
Client ID: TP-6
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/29/20 08:45
Date Received: 06/30/20
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	81.6		%	0.100	NA	1	-	07/01/20 11:28	121,2540G	RI

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-05
Client ID: TP-10
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/29/20 10:00
Date Received: 06/30/20
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	71.2		%	0.100	NA	1	-	07/01/20 11:28	121,2540G	RI

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-06
Client ID: TP-13
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 12:20
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	07/01/20 11:28	121,2540G	RI

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-07
Client ID: TP-14
Sample Location: BUFFALO, NY

Date Collected: 06/29/20 12:30
Date Received: 06/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	07/01/20 11:28	121,2540G	RI

Project Name: 592 SENECA STREET
Project Number: 0538-020-001
Lab Number: L2027656
Report Date: 07/08/20

SAMPLE RESULTS

Lab ID: L2027656-08
Client ID: TP-16
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/29/20 13:00
Date Received: 06/30/20
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	84.6		%	0.100	NA	1	-	07/01/20 11:28	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 592 SENECA STREET

Project Number: 0538-020-001

Lab Number: L2027656

Report Date: 07/08/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1388019-1 QC Sample: L2027703-01 Client ID: DUP Sample						
Solids, Total	87.6	87.4	%	0		20

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2027656-01A	Glass 60ml unpreserved split	A	NA		4.1	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2027656-01B	Glass 250ml/8oz unpreserved	A	NA		4.1	Y	Absent		TS(7)
L2027656-02A	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2027656-02B	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYCP51-PAH(14),TS(7)
L2027656-03A	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2027656-03B	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYCP51-PAH(14),TS(7)
L2027656-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2027656-04B	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2027656-04C	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYCP51-PAH(14),TS(7),NYTCL-8082(14)
L2027656-04D	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYCP51-PAH(14),TS(7),NYTCL-8082(14)
L2027656-04X	Vial MeOH preserved split	A	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2027656-04Y	Vial Water preserved split	A	NA		4.1	Y	Absent	**06-JUL-20 13:41**	NYTCL-8260-R2(14)
L2027656-04Z	Vial Water preserved split	A	NA		4.1	Y	Absent	**06-JUL-20 13:41**	NYTCL-8260-R2(14)
L2027656-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2027656-05B	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2027656-05C	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYCP51-PAH(14),TS(7),NYTCL-8082(14)
L2027656-05D	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYCP51-PAH(14),TS(7),NYTCL-8082(14)
L2027656-05X	Vial MeOH preserved split	A	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2027656-05Y	Vial Water preserved split	A	NA		4.1	Y	Absent	**06-JUL-20 13:41**	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 592 SENECA STREET
Project Number: 0538-020-001

Lab Number: L2027656
Report Date: 07/08/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2027656-05Z	Vial Water preserved split	A	NA		4.1	Y	Absent	**06-JUL-20 13:41**	NYTCL-8260-R2(14)
L2027656-06A	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2027656-06B	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYCP51-PAH(14),TS(7)
L2027656-07A	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		TS(7),NYTCL-8082(14)
L2027656-08A	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2027656-08B	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYCP51-PAH(14),TS(7)

*Values in parentheses indicate holding time in days

Project Name:	592 SENECA STREET	**Lab Number:**	L2027656
Project Number:	0538-020-001	**Report Date:**	07/08/20

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name:	592 SENECA STREET	**Lab Number:**	L2027656
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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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

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 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.

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).

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

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

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

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	592 SENECA STREET	**Lab Number:**	L2027656
Project Number:	0538-020-001	**Report Date:**	07/08/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, 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, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, 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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

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

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

Page 1 of 1

Date Rec'd in Lab: 7/1/20

ALPHA Job #: L2027656

Client Information
Client: Benchmark
Address: 3558 Hamburg Turnpike
Buffal NY 14218
Phone: 716-856-0599
Fax:
Email: NMuniey@bd-ek.com

Project Information
Project Name: 592 Seneca Street
Project Location: Buffalo, NY
Project # 0538-020-001
(Use Project name as Project #) ☐
Project Manager:
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	8260 TCL + CP-51 VOCs	8270 PAHs	RCRA Metals	PCBs	Sample Specific Comments
27656-01	TP-1	6-29-20	0745	Soil	CEH			X		
-02	TP-2		0800				X	X		
-03	TP-5		0830				X	X		
-04	TP-6		0845			X	X	X	X	
-05	TP-10		1000			X	X	X	X	
-06	TP-13		1220				X	X		
-07	TP-14		1230						X	
-08	TP-16	↓	1300	↓	↓		X	X		
~~-09~~										

Container Type	A	A	A	A					
Preservative	A	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
Charles Hochreiter	6/29/20 1600		1535 6/30
			7/1/20 0045

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)