



William C. Hennessy, Jr. P.E.

September 8, 2020

Mr. Anthony DeThomasis
DeThomasis Companies
1 Rapp Rd.
Albany, NY 12203

Re: 60 Colvin Avenue
City of Albany, New York

Dear Mr. DeThomasis:

This report describes additional subsurface investigation activities completed at the 60 Colvin Avenue property. Three test pits were excavated along the north property line per suggestion by the City of Albany.

1.0 Location/and Property Improvements

The Property is located in the uptown portion of the City of Albany and northern portion of Albany County (see Figure 1 - Site Location map). A mix of land uses exist in this area: Westland Hill Park exists to the west, commercial and residential uses exist to the south, and commercial uses exist to the east and north.



Figure 1. Site Location

The land is currently vacant without physical improvements. It consists of wooded areas, low lying vegetation and scrub brush. As depicted on Figure 2, the Property totals approximately 1.79 acres.



Figure 2. Property

3.0 Test Pit Investigation

A Test Pit investigation was completed August 26, 2020. Mr. Anthony Dethomasis, representative of the Property owner, excavated the test pits utilizing a Kobelco Mini-excavator. Environmental sampling was included to assess soil conditions. The undersigned, William C. Hennessy, Jr. P.E., a NYS Professional Engineer, observed, screened, and collected soil samples to documented soil conditions.



Three test pits were completed in areas requested by the City. Locations are depicted on Figure 1 prepared by Hershberg & Hershberg Consulting Engineers and Land Surveyors, Albany, NY. One (TP-H1) included the purported area of interest from the July, 2001 Clough Harbour report. Soil types encountered generally consisted of unconsolidated fill, sand and silt with brick/rubble.

3.0 Field Screening:

During site investigation and test pit excavation, the Engineer screened soil to provide field indication of possible petroleum contamination. Collected soil samples were classified with respect to soil type and field screened utilizing a properly calibrated Minirae 3000 Photo Ionization Detector (PID) to determine the presence of volatile organic compounds (VOCs). Screening involved sealing representative portions of the acquired sample in clean plastic bags, allowing for equilibration and scanning the headspace using the PID.

No elevated readings were obtained on the PID. Therefore no Volatile Organic Compound impacts are expected.

4.0 Analytical Testing

Soil samples were obtained and submitted under Chain Of Custody to Alpha Analytical for analysis. Alpha is certified by the NYS Department of Health for the analyses requested (ELAP #11148). See Table 1. Analytical results are contained in Appendix A.

Soil

Soil was sampled for the eight RCRA metals via EPA 6010B, for semivolatile organic compounds (SVOCs) via EPA Method 8270D, and for Volatile Organic Compounds (VOCs) via EPA Method 8260. Constituents were compared to NYSDEC Part 375 Soil Cleanup Objectives (SCOs). SCOs are typically levels of contaminants allowed to remain in soil and Part 375 SCOs presented in mg/kg (parts per million). Thresholds are most stringent for “unrestricted” site use and diminish in severity in the following order of site use classification: residential, restricted residential, commercial, and industrial.

Regarding metals, five of the eight RCRA metals were detected, but all were below the least stringent “unrestricted use” SCO. This indicates restriction of land use is not warranted based on metals analysis.

Table 1
 60 Colvin Avenue
 Albany, New York
 Supplemental Subsurface Investigation Report of Findings

TABLE 1									
Analyte	August 26, 2020			NYSDEC Subpart 375-6 Remedial Program Soil Cleanup Objectives					Protection of GW
	TP-H1	TP-H2	TP-H3	Unrestricted Use	Restricted Use				
					Residential	Restricted Residential	Commercial	Industrial	
Semi Volatiles -mg/kg (ppm)									
Acenaphthene	ND	ND	ND	20	100	100	500	1,000	98
Acenaphthylene	ND	0.68	ND	100	100	100	500	1,000	107
Anthracene	ND	0.31	ND	100	100	100	500	1,000	1,000
Benzo(a)anthracene	ND	0.28	ND	1	1	1	5.6	11	1
Benzo(a)pyrene	ND	0.39	ND	1	1	1	1	1.1	22
Benzo(b)fluoranthene	ND	0.13	ND	1	1	1	5.6	11	1.7
Benzo(g,h,i)perylene	ND	0.32	ND	100	100	100	500	1,000	1,000
Benzo(k)fluoranthene	ND	ND	ND	0.8	1	3.9	56	110	1.7
Chrysene	ND	0.10J	ND	1	1	3.9	56	110	1
Dibenz(a,h)anthracene	ND	0.18	ND	0.33	0.33	0.33	0.56	1.1	1,000
Fluoranthene	ND	0.060J	ND	100	100	100	500	1,000	1,000
Fluorene	ND	0.44	ND	30	100	100	500	1,000	386
Indeno(1,2,3-cd)pyrene	ND	0.042J	ND	0.5	0.5	0.5	5.6	11	8.2
Phenanthrene	ND	0.19	ND	100	100	100	500	1,000	1,000
Pyrene	ND	0.54	ND	100	100	100	500	1,000	1,000
Volatiles Detected- mg/kg (ppm)									
Toluene	ND	ND	ND	0.7	100	100	500	1000	0.7
Chloroform	ND	ND	ND	0.37	10	49	350	700	0.37
Methylene Chloride	ND	ND	ND	0.05	51	100 a	500 b	1,000 c	0.05
Metals - mg/kg (ppm)									
Arsenic	2.88	1.65	1.19	13	16	16	16	16	16
Barium	28.3	21	12.8	350	350	400	400	10,000	820
Cadmium	0.178J	0.142J	0.088J	2.5	2.5	4.3	9.3	60	7.5
Chromium	7.9	5.8	4.14	30	36	180	1,500	6,800	N/A
Lead	8.28	8.36	7.25	63	400	400	1,000	3,900	450
Mercury	ND	ND	ND	0.18	0.81	0.81	2.8	5.7	0.73
Selenium	ND	ND	ND	3.9	36	180	1,500	6,800	4
Silver	ND	ND	ND	2	36	180	1,500	6,800	8.3

All soil results reported in mg/kg (parts per million)
 Highlighted Values Concentration Exceeds Corresponding NYS Standard or Objective
 ND = Not detected above the laboratories method detection limit
 J = Estimated value, target analyte is above the MDL but below the Reporting Limit.

Regarding SVOCs, no constituents were detected in TP-1 (purported area of interest from the July, 2001 Clough Harbour report). Constituents were detected in only TP-2, however all were below the least stringent “unrestricted use” SCO. This indicates restriction of land use is not warranted based on SVOCs analysis.

Regarding VOCs, no constituents were detected. This indicates restriction of land use is not warranted based on SVOCs analysis.

Conclusions

A Test Pit investigation was completed August 26, 2020 to supplement prior environmental investigations at the 60 Colvin Property. This included test pits, soil screening, soil sample collection, and laboratory analysis. In regard to the information and data for the 60 Colvin Property:

- No elevated VOCs were detected in field screening;
- Metals detected were below NYSDEC Part 375 SCOs.
- SVOCs detected were below NYSDEC Part 375 SCOs.

It is important to note that any existing surface or subsurface soil in these areas will be filled over and partially covered by asphalt based on the proposed grades for the development.

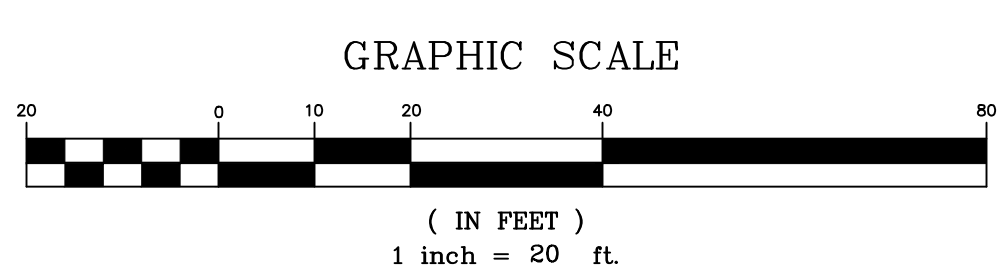
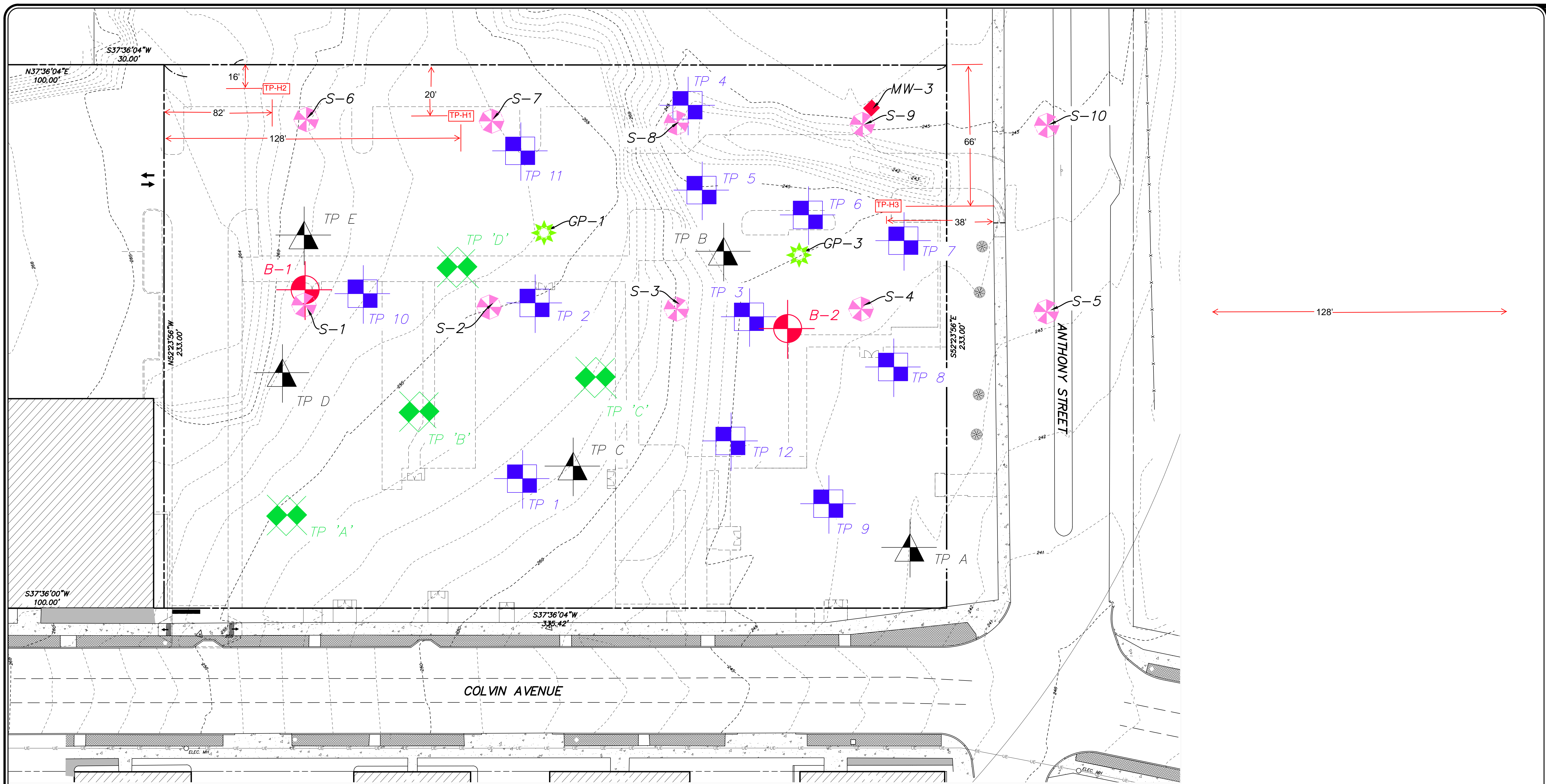
In light of these findings, it is our opinion that no further site investigation is warranted and no restriction of land use is recommended.

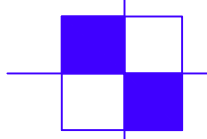


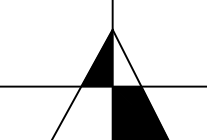
The conclusions presented in this Report were based upon the services described and not on scientific tasks or procedures beyond the scope of those described services. Services were provided in a manner with the level of care and skill ordinarily exercised by members of the profession under similar conditions. No warranty, express or implied is made. The report is a statement of professional opinion based on the information available during the assessment and formed by the judgment of the engineer from the knowledge of the available facts and other identified information. The owner must be aware that the assessment reflects conditions at a specific point in time which is clearly identified.





Sincerely,

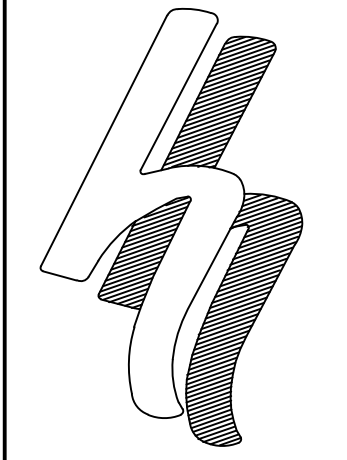


William C. Hennessy, Jr. PE



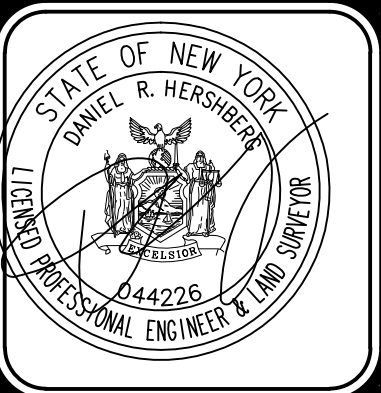
-  TEST PIT FROM DENTE ENGINEERING
-  BORING FROM DENTE ENGINEERING
-  TEST PITS FROM THE LOUCKS REPORT
-  TEST PITS FROM HENNESSY ENGINEERING

-  MONITORING WELL LOCATION (CHA)
-  EXISTING SURFICIAL SOIL SAMPLE LOCATION (CHA)
-  EXISTING GEOPROBE LOCATION (CHA)
-  TEST PITS AUGUST 26, 2020 FROM HENNESSY ENGINEERING



HERSHBERG & HERSHBERG
 Consulting Engineers and Land Surveyors
 18 Locust Street
 Albany, New York 12203

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, IS ILLEGAL.



DATE	REVISIONS
7/10/2020	GENERAL REVISIONS

SOIL INVESTIGATION PLAN
60 COLVIN AVENUE
ALBANY, NEW YORK

FILE: 190162
 SCALE: AS SHOWN
 DATE: 6/25/2020
 CHK: DPH
 EY: AS



William C. Hennessy, Jr. P.E.

APPENDIX A

Analytical Results



ANALYTICAL REPORT

Lab Number:	L1950151
Client:	Hennessy Engineering & Consulting PO Box 118 Voorheesville, NY 12186
ATTN:	William Hennessy
Phone:	(518) 475-1670
Project Name:	60 COLVIN AVE
Project Number:	Not Specified
Report Date:	10/31/19

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1950151-01	TP-A, 1-4'	SOIL	60 COLVIN AVE, ALBANY, NY	10/24/19 09:00	10/24/19
L1950151-02	TP-B, 1-4'	SOIL	60 COLVIN AVE, ALBANY, NY	10/24/19 09:30	10/24/19
L1950151-03	TP-C, 1-4'	SOIL	60 COLVIN AVE, ALBANY, NY	10/24/19 10:15	10/24/19
L1950151-04	TP-D, 1-3'	SOIL	60 COLVIN AVE, ALBANY, NY	10/24/19 11:00	10/24/19
L1950151-05	TP-E, 1-5'	SOIL	60 COLVIN AVE, ALBANY, NY	10/24/19 11:35	10/24/19

Project Name: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

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: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

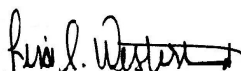
Case Narrative (continued)

Report Submission

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

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:



Lisa Westerlind

Title: Technical Director/Representative

Date: 10/31/19

ORGANICS

SEMIVOLATILES

Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-01
 Client ID: TP-A, 1-4'
 Sample Location: 60 COLVIN AVE, ALBANY, NY

Date Collected: 10/24/19 09:00
 Date Received: 10/24/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/28/19 01:07
 Analyst: IM
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 10/27/19 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	79	J	ug/kg	110	22.	1
Benzo(a)anthracene	46	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	50	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	39	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	24	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	50	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	64	J	ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	54		30-120
4-Terphenyl-d14	49		18-120

Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-02
 Client ID: TP-B, 1-4'
 Sample Location: 60 COLVIN AVE, ALBANY, NY

Date Collected: 10/24/19 09:30
 Date Received: 10/24/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/28/19 01:30
 Analyst: IM
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 10/27/19 04:43

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	58		18-120

Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-03
 Client ID: TP-C, 1-4'
 Sample Location: 60 COLVIN AVE, ALBANY, NY

Date Collected: 10/24/19 10:15
 Date Received: 10/24/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/28/19 02:16
 Analyst: IM
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 10/27/19 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	ND		ug/kg	110	22.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	55		30-120
4-Terphenyl-d14	52		18-120

Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-04
 Client ID: TP-D, 1-3'
 Sample Location: 60 COLVIN AVE, ALBANY, NY

Date Collected: 10/24/19 11:00
 Date Received: 10/24/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/28/19 01:53
 Analyst: IM
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 10/27/19 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	240		ug/kg	110	20.	1
Benzo(a)anthracene	120		ug/kg	110	20.	1
Benzo(a)pyrene	130	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	180		ug/kg	110	30.	1
Benzo(k)fluoranthene	56	J	ug/kg	110	29.	1
Chrysene	120		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	97	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	89	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	93	J	ug/kg	140	25.	1
Pyrene	200		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	59		18-120

Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-05
 Client ID: TP-E, 1-5'
 Sample Location: 60 COLVIN AVE, ALBANY, NY

Date Collected: 10/24/19 11:35
 Date Received: 10/24/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/28/19 02:39
 Analyst: IM
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 10/27/19 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	ND		ug/kg	110	21.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	58		30-120
4-Terphenyl-d14	54		18-120

Project Name: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 10/30/19 14:13
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 10/27/19 00:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1301153-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	102		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	84		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 COLVIN AVE

Lab Number: L1950151

Project Number: Not Specified

Report Date: 10/31/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1301153-2 WG1301153-3								
Acenaphthene	71		82		31-137	14		50
Fluoranthene	71		75		40-140	5		50
Benzo(a)anthracene	77		91		40-140	17		50
Benzo(a)pyrene	75		82		40-140	9		50
Benzo(b)fluoranthene	74		92		40-140	22		50
Benzo(k)fluoranthene	79		78		40-140	1		50
Chrysene	70		84		40-140	18		50
Acenaphthylene	69		81		40-140	16		50
Anthracene	72		87		40-140	19		50
Benzo(ghi)perylene	72		94		40-140	27		50
Fluorene	78		85		40-140	9		50
Phenanthrene	70		84		40-140	18		50
Dibenzo(a,h)anthracene	76		101		40-140	28		50
Indeno(1,2,3-cd)pyrene	83		106		40-140	24		50
Pyrene	67		75		35-142	11		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	78		90		25-120
Phenol-d6	82		95		10-120
Nitrobenzene-d5	75		92		23-120
2-Fluorobiphenyl	62		70		30-120
2,4,6-Tribromophenol	71		76		10-136
4-Terphenyl-d14	71		66		18-120

METALS

Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-01

Date Collected: 10/24/19 09:00

Client ID: TP-A, 1-4'

Date Received: 10/24/19

Sample Location: 60 COLVIN AVE, ALBANY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.95		mg/kg	0.444	0.092	1	10/29/19 21:24	10/30/19 03:46	EPA 3050B	1,6010D	MC
Barium, Total	14.8		mg/kg	0.444	0.077	1	10/29/19 21:24	10/30/19 03:46	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.444	0.044	1	10/29/19 21:24	10/30/19 03:46	EPA 3050B	1,6010D	MC
Chromium, Total	6.58		mg/kg	0.444	0.043	1	10/29/19 21:24	10/30/19 03:46	EPA 3050B	1,6010D	MC
Lead, Total	9.64		mg/kg	2.22	0.119	1	10/29/19 21:24	10/30/19 03:46	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.077	0.050	1	10/29/19 12:56	10/29/19 16:17	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	0.888	0.114	1	10/29/19 21:24	10/30/19 03:46	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.444	0.126	1	10/29/19 21:24	10/30/19 03:46	EPA 3050B	1,6010D	MC



Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-02

Date Collected: 10/24/19 09:30

Client ID: TP-B, 1-4'

Date Received: 10/24/19

Sample Location: 60 COLVIN AVE, ALBANY, NY

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	2.16		mg/kg	0.435	0.091	1	10/29/19 21:24	10/30/19 03:50	EPA 3050B	1,6010D	MC
Barium, Total	13.5		mg/kg	0.435	0.076	1	10/29/19 21:24	10/30/19 03:50	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.435	0.043	1	10/29/19 21:24	10/30/19 03:50	EPA 3050B	1,6010D	MC
Chromium, Total	4.12		mg/kg	0.435	0.042	1	10/29/19 21:24	10/30/19 03:50	EPA 3050B	1,6010D	MC
Lead, Total	5.09		mg/kg	2.18	0.117	1	10/29/19 21:24	10/30/19 03:50	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.088	0.057	1	10/29/19 12:56	10/29/19 16:27	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	0.871	0.112	1	10/29/19 21:24	10/30/19 03:50	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.435	0.123	1	10/29/19 21:24	10/30/19 03:50	EPA 3050B	1,6010D	MC



Project Name: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

SAMPLE RESULTS

Lab ID: L1950151-03
 Client ID: TP-C, 1-4'
 Sample Location: 60 COLVIN AVE, ALBANY, NY

Date Collected: 10/24/19 10:15
 Date Received: 10/24/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.92		mg/kg	0.448	0.093	1	10/29/19 21:24	10/30/19 03:54	EPA 3050B	1,6010D	MC
Barium, Total	19.0		mg/kg	0.448	0.078	1	10/29/19 21:24	10/30/19 03:54	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.448	0.044	1	10/29/19 21:24	10/30/19 03:54	EPA 3050B	1,6010D	MC
Chromium, Total	6.16		mg/kg	0.448	0.043	1	10/29/19 21:24	10/30/19 03:54	EPA 3050B	1,6010D	MC
Lead, Total	9.02		mg/kg	2.24	0.120	1	10/29/19 21:24	10/30/19 03:54	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.084	0.055	1	10/29/19 12:56	10/29/19 16:30	EPA 7471B	1,7471B	GD
Selenium, Total	0.219	J	mg/kg	0.896	0.116	1	10/29/19 21:24	10/30/19 03:54	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.448	0.127	1	10/29/19 21:24	10/30/19 03:54	EPA 3050B	1,6010D	MC



Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-04

Date Collected: 10/24/19 11:00

Client ID: TP-D, 1-3'

Date Received: 10/24/19

Sample Location: 60 COLVIN AVE, ALBANY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.72		mg/kg	0.414	0.086	1	10/29/19 21:24	10/30/19 03:59	EPA 3050B	1,6010D	MC
Barium, Total	23.4		mg/kg	0.414	0.072	1	10/29/19 21:24	10/30/19 03:59	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.414	0.041	1	10/29/19 21:24	10/30/19 03:59	EPA 3050B	1,6010D	MC
Chromium, Total	5.45		mg/kg	0.414	0.040	1	10/29/19 21:24	10/30/19 03:59	EPA 3050B	1,6010D	MC
Lead, Total	41.7		mg/kg	2.07	0.111	1	10/29/19 21:24	10/30/19 03:59	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.079	0.052	1	10/29/19 12:56	10/29/19 16:33	EPA 7471B	1,7471B	GD
Selenium, Total	0.199	J	mg/kg	0.829	0.107	1	10/29/19 21:24	10/30/19 03:59	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.414	0.117	1	10/29/19 21:24	10/30/19 03:59	EPA 3050B	1,6010D	MC



Project Name: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

SAMPLE RESULTS

Lab ID: L1950151-05
 Client ID: TP-E, 1-5'
 Sample Location: 60 COLVIN AVE, ALBANY, NY

Date Collected: 10/24/19 11:35
 Date Received: 10/24/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.32		mg/kg	0.441	0.092	1	10/29/19 21:24	10/30/19 04:03	EPA 3050B	1,6010D	MC
Barium, Total	21.6		mg/kg	0.441	0.077	1	10/29/19 21:24	10/30/19 04:03	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.441	0.043	1	10/29/19 21:24	10/30/19 04:03	EPA 3050B	1,6010D	MC
Chromium, Total	5.04		mg/kg	0.441	0.042	1	10/29/19 21:24	10/30/19 04:03	EPA 3050B	1,6010D	MC
Lead, Total	14.1		mg/kg	2.21	0.118	1	10/29/19 21:24	10/30/19 04:03	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.090	0.059	1	10/29/19 12:56	10/29/19 16:36	EPA 7471B	1,7471B	GD
Selenium, Total	0.124	J	mg/kg	0.883	0.114	1	10/29/19 21:24	10/30/19 04:03	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.441	0.125	1	10/29/19 21:24	10/30/19 04:03	EPA 3050B	1,6010D	MC



Project Name: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

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): 01-05 Batch: WG1301862-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	10/29/19 12:56	10/29/19 15:50	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1302134-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	10/29/19 21:24	10/30/19 00:57	1,6010D	MC
Barium, Total	ND	mg/kg	0.400	0.070	1	10/29/19 21:24	10/30/19 00:57	1,6010D	MC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	10/29/19 21:24	10/30/19 00:57	1,6010D	MC
Chromium, Total	ND	mg/kg	0.400	0.038	1	10/29/19 21:24	10/30/19 00:57	1,6010D	MC
Lead, Total	ND	mg/kg	2.00	0.107	1	10/29/19 21:24	10/30/19 00:57	1,6010D	MC
Selenium, Total	ND	mg/kg	0.800	0.103	1	10/29/19 21:24	10/30/19 00:57	1,6010D	MC
Silver, Total	ND	mg/kg	0.400	0.113	1	10/29/19 21:24	10/30/19 00:57	1,6010D	MC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1301862-2 SRM Lot Number: D105-540								
Mercury, Total	98		-		60-141	-		
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1302134-2 SRM Lot Number: D105-540								
Arsenic, Total	95		-		70-130	-		
Barium, Total	90		-		75-125	-		
Cadmium, Total	95		-		75-125	-		
Chromium, Total	84		-		70-130	-		
Lead, Total	82		-		71-128	-		
Selenium, Total	93		-		63-137	-		
Silver, Total	84		-		69-131	-		

Matrix Spike Analysis Batch Quality Control

Project Name: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

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): 01-05 QC Batch ID: WG1301862-3 QC Sample: L1950150-01 Client ID: MS Sample												
Mercury, Total	ND	0.138	0.144	104		-	-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1302134-3 QC Sample: L1950042-14 Client ID: MS Sample												
Arsenic, Total	1.32	10	11.9	106		-	-		75-125	-		20
Barium, Total	34.8	167	206	103		-	-		75-125	-		20
Cadmium, Total	ND	4.25	3.45	81		-	-		75-125	-		20
Chromium, Total	15.1	16.7	30.5	92		-	-		75-125	-		20
Lead, Total	2.18J	42.5	39.8	94		-	-		75-125	-		20
Selenium, Total	ND	10	9.54	95		-	-		75-125	-		20
Silver, Total	ND	25	24.5	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 60 COLVIN AVE

Project Number: Not Specified

Lab Number: L1950151

Report Date: 10/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1301862-4 QC Sample: L1950150-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1302134-4 QC Sample: L1950042-14 Client ID: DUP Sample						
Arsenic, Total	1.32	1.40	mg/kg	6		20
Barium, Total	34.8	40.2	mg/kg	14		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	15.1	15.6	mg/kg	3		20
Lead, Total	2.18J	1.68J	mg/kg	NC		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 60 COLVIN AVE

Lab Number: L1950151

Project Number: Not Specified

Report Date: 10/31/19

SAMPLE RESULTS

Lab ID: L1950151-01

Date Collected: 10/24/19 09:00

Client ID: TP-A, 1-4'

Date Received: 10/24/19

Sample Location: 60 COLVIN AVE, ALBANY, NY

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	87.3		%	0.100	NA	1	-	10/25/19 09:48	121,2540G	RI



Project Name: 60 COLVIN AVE**Project Number:** Not Specified**Lab Number:** L1950151**Report Date:** 10/31/19**SAMPLE RESULTS****Lab ID:** L1950151-02**Client ID:** TP-B, 1-4'**Sample Location:** 60 COLVIN AVE, ALBANY, NY**Date Collected:** 10/24/19 09:30**Date Received:** 10/24/19**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	-	10/25/19 09:48	121,2540G	RI



Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-03

Date Collected: 10/24/19 10:15

Client ID: TP-C, 1-4'

Date Received: 10/24/19

Sample Location: 60 COLVIN AVE, ALBANY, NY

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	87.9		%	0.100	NA	1	-	10/25/19 09:48	121,2540G	RI



Project Name: 60 COLVIN AVE**Lab Number:** L1950151**Project Number:** Not Specified**Report Date:** 10/31/19**SAMPLE RESULTS**

Lab ID: L1950151-04

Date Collected: 10/24/19 11:00

Client ID: TP-D, 1-3'

Date Received: 10/24/19

Sample Location: 60 COLVIN AVE, ALBANY, NY

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	92.1		%	0.100	NA	1	-	10/25/19 09:48	121,2540G	RI



Project Name: 60 COLVIN AVE

Project Number: Not Specified

Lab Number: L1950151

Report Date: 10/31/19

SAMPLE RESULTS

Lab ID: L1950151-05

Client ID: TP-E, 1-5'

Sample Location: 60 COLVIN AVE, ALBANY, NY

Date Collected: 10/24/19 11:35

Date Received: 10/24/19

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	88.5		%	0.100	NA	1	-	10/25/19 09:48	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 60 COLVIN AVE

Project Number: Not Specified

Lab Number: L1950151

Report Date: 10/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1300598-1 QC Sample: L1949794-01 Client ID: DUP Sample						
Solids, Total	82.6	81.2	%	2		20

Project Name: 60 COLVIN AVE

Project Number: Not Specified

Serial_No:10311912:04

Lab Number: L1950151

Report Date: 10/31/19

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(*)
L1950151-01A	Glass 120ml/4oz unpreserved	A	NA		4.5	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)
L1950151-01B	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYCP51-PAH(14),TS(7)
L1950151-02A	Glass 120ml/4oz unpreserved	A	NA		4.5	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)
L1950151-02B	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYCP51-PAH(14),TS(7)
L1950151-03A	Glass 120ml/4oz unpreserved	A	NA		4.5	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)
L1950151-03B	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYCP51-PAH(14),TS(7)
L1950151-04A	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L1950151-04B	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYCP51-PAH(14),TS(7)
L1950151-05A	Glass 120ml/4oz unpreserved	A	NA		4.5	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)
L1950151-05B	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYCP51-PAH(14),TS(7)

Project Name: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

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: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

- 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.

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.

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 Standard exceedances 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: 60 COLVIN AVE
Project Number: Not Specified

Lab Number: L1950151
Report Date: 10/31/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

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.

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.

CHAIN OF CUSTODY

PAGE 1 OF 1



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 10/24/19

ALPHA Job #: 61950151

Project Information

Project Name: 60 Colvin Ave

Project Location: 60 Colvin Ave, Albany NY

Project #: _____

Project Manager: Bill Hennessy

ALPHA Quote #: _____

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Billing Information

Same as Client info PO #: _____

Client Information

Client: Hennessy Engineering

Address: P.O. Box 118
Voorheesville NY 12186

Phone: 518-813-3597

Fax: _____

Email: bill@hennessyec.com

These samples have been previously analyzed by Alpha

Regulatory Requirements/Report Limits

State /Fed Program _____ Criteria _____

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: _____ Time: _____

Other Project Specific Requirements/Comments/Detection Limits:
Sampler: Curtis Cappellano

ANALYSIS
8270 STARS
BARCA METALS

SAMPLE HANDLING

Filtration _____

Done

Not needed

Lab to do

Preservation _____

Lab to do

(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials			TOTAL # BOTTLES
		Date	Time					
<u>50151-01</u>	<u>TP-A, 1-4'</u>	<u>10/24/19</u>	<u>9:00</u>	<u>S</u>	<u>CC</u>	<u>1</u>	<u>1</u>	<u>2</u>
<u>02</u>	<u>TP-B, 1-4'</u>	<u>↓</u>	<u>9:30</u>	<u>↓</u>	<u>CC</u>	<u>1</u>	<u>1</u>	<u>2</u>
<u>03</u>	<u>TP-C, 1-4'</u>	<u>↓</u>	<u>10:15</u>	<u>↓</u>	<u>CC</u>	<u>1</u>	<u>1</u>	<u>2</u>
<u>04</u>	<u>TP-D, 1-3'</u>	<u>↓</u>	<u>11:00</u>	<u>↓</u>	<u>CC</u>	<u>1</u>	<u>1</u>	<u>2</u>
<u>05</u>	<u>TP-E, 1-5'</u>	<u>↓</u>	<u>11:35</u>	<u>↓</u>	<u>CC</u>	<u>1</u>	<u>1</u>	<u>2</u>

Container Type: Cum

Preservative: ful sic

Relinquished By: Curtis Cappellano Date/Time: 10/24/19 13:40

Received By: Alana Rigg Date/Time: 10/24/19 12:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.