November 10, 2017

Limited Phase II Environmental Site Assessment Cohoes/Saratoga Road Site Saratoga Street City of Cohoes Albany County, New York

Prepared for:

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C.T. Male Project No: 17.7666

LIMITED PHASE II
ENVIRONMENTAL SITE ASSESSMENT REPORT
COHOES/SARATOGA ROAD SITE

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1.0 INTRODUCTION

This report presents the findings of a Limited Phase II Environmental Site Assessment conducted at the Cohoes/Saratoga Road Site, which is located in the City of Cohoes, Albany County, New York. A Site Location Map is provided as Attachment A.

The Limited Phase II ESA was conducted to further evaluate subsurface conditions and the quality of fill/soil within the Site. Two (2) previous Phase II ESAs had been conducted on a larger tract of land that in part encompassed the Site boundaries. Three (3) test borings, which were converted into monitoring wells, were completed within the Site boundaries during the previous Phase II ESAs to evaluate subsurface conditions, to aid in the collection of fill/soil samples for subjective and laboratory analysis, and to aid in the collection of groundwater samples for laboratory analysis. The results of these Phase II ESA investigations are presented in the following reports, which have been submitted under separate cover.

- Limited Phase II Environmental Site Assessment; Juncta Historic Site, 401 Saratoga Street City of Cohoes, Albany County, New York; prepared by C.T. Male Associates, dated January 10, 2017.
- Phase II Environmental Site Assessment; Southern Portion of the Juncta Historic Site, 401 Saratoga Street City of Cohoes, Albany County, New York; prepared by C.T. Male Associates, dated April 11, 2017.

The Limited Phase II ESA activities included the advancement of five (5) test borings to further evaluate the Site's subsurface conditions and to aid in the collection of fill/soil samples for subjective and laboratory analysis. None of the test borings were converted into monitoring wells. Groundwater samples were not collected for laboratory analysis.

2.0 METHOD OF PHASE II ESA INVESTIGATION

2.1 Test Boring Locations

Five (5) test boring locations (GP-A through GP-E) were completed to provide general assessment of the Site's fill/soil conditions. The test borings were located as follows:

- GP-A and GP-B were advanced in areas of the Site that were used by a nearby towing entity to park trucks, and along portions of the Site closest to a building that was formerly located on the Site's south adjoining property that was historically used as a power plant, for manufacturing purposes, and as a machine shop.
- GP-C and GP-D were advanced in areas of the Site that historically where traversed by canals.
- GP-E was advanced in the northern portion of the Site in an area that was not previously investigated.

A sixth test boring was planned for the eastern portion of the Site, but due to driller equipment failure, this boring could not be completed.

The test boring locations are depicted on the Sampling Location Plan which is included as Attachment B.

2.2 Drilling Method

The drilling activities were completed on Thursday, November 2, 2017 by SJB Services, Inc (SJB) of Malta, New York as a subcontractor to C.T. Male. For the purpose of this investigation, Geoprobe drilling techniques were utilized.

At each test location, a two-inch diameter MacroCore sampler was advanced at continuous four (4) foot intervals to the termination depths of the borings. The recovered fill/soil samples were visually classified and recorded on individual Subsurface Exploration Logs.

2.3 Soil Screening

Following the recovery of the fill/soil samples from the test borings, each sample was screened for the presence of detectable volatile organic compounds (VOCs) with a MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. The PID meter was calibrated according to manufacturer recommendations prior to use.

2.4 Soil Sampling

One fill/soil sample was collected from each of the five (5) soil borings as follows:

- GP-A from 4-8 feet below grade surface (bgs);
- GP-B from 3-4 feet bgs;
- GP-C from 6-8 feet bgs;
- GP-D from 3-4 feet bgs; and
- GP-E from 0-2 feet bgs.

The fill/soil samples from the borings were selected to be representative of fill material mantling the Site and on the results of the subjective soil screening activities. The samples were jarred in laboratory provided containers, placed in a cooler with ice, and forwarded under chain-of-custody to Alpha Analytical for laboratory analysis for the Target Compound List (TCL) of semi-volatile organic compounds (SVOCs) and PCBs, and the Target Analyte List (TAL) of metals, including mercury. Because the soil samples did not appear subjectively impacted, they were not analyzed for VOCs.

2.5 Decontamination

To preclude the potential for cross contamination between boring locations, all drilling tools and sampling equipment that would contact the Site fill/soil were decontaminated prior to the start of the drilling activities and between test boring locations utilizing a detergent/water wash and tap water rinse. All fill/soil samples were handled with a new pair of gloves to deter cross contamination of the fill/soil samples collected for soil screening and laboratory analysis. The decontamination water was discharged to the ground surface near the test boring locations at the completion of the field investigation.

3.0 FINDINGS OF THE PHASE II ESA INVESTIGATION

3.1 Fill/Soil Conditions at Boring Locations

At GP-1, fill material was noted from the surface to approximately 7.8 feet bgs. The fill was primarily comprised of asphalt at the surface underlain by fine to coarse sands intermixed with gravel and silt with occurrences of red stained wood and metal scrap. Beneath the fill material, the native soil consisted of gray fine sand and

silt from 7.8 to 8 feet bgs followed by gray silt and clay with occurrences of fine sand and organics to 11.5 feet bgs. Gray sand with traces of ash and gravel were encountered at the terminus of the boring at 11.5 feet bgs, where driller refusal was encountered. The soils became saturated at approximately 8 feet bgs.

At GP-B, fill material was noted from the surface to approximately 5 feet bgs. The fill was primarily comprised of fine to coarse sand, gravel and silt with occurrences of milled asphalt, brick, ash and roots. Pulverized shale was encountered from 4 to 5 feet bgs. Beneath the fill material, the native soil consisted of fine sand with occurrences of silt and gravel to 10.5 feet bgs followed by silt with occurrences of fine sand, silt, clay and organics to the terminus of the boring at 13.8 feet bgs, where driller refusal was encountered. The soils became saturated at approximately 6 feet bgs.

At GP-C, fill material was noted from the surface to approximately 8.5 feet bgs. The fill was primarily comprised of fine sand, gravel and silt with occurrences of milled asphalt, brick, metal, cinder, ash, glass, slag and organics. Beneath the fill material, the native soil consisted of sand and silt with occurrences of gravel to 12 feet bgs. Trace amounts of coal and ash were encountered at 11 feet bgs but may be attributed to carry down from a shallower boring depth interval. There was no recovery from the 12 to 16 foot depth interval. Gray coarse sand and gravel was encountered from 16 feet to the boring terminus depth of 19 feet bgs. The soils became saturated at approximately 8 feet bgs.

At GP-D, fill material was noted from the surface to approximately 9 feet bgs. The fill was primarily comprised of fine sand, gravel and silt with occurrences of slag, cinder, glass, coal and wood. Beneath the fill material, the native soil consisted of clay and silt with occurrences of fine sand to 14 feet bgs followed by sand and gravel with occurrences of silt to 15 feet bgs. Sand, silt, gravel and shale were encountered from 15 feet bgs to the boring terminus depth of 17.9 feet bgs, where driller refusal was encountered. The soils became saturated at approximately 12 feet bgs.

At GP-E, the soils consisted of fine sand with occurrences of silt and gravel to 4 feet bgs followed by fine sand to 8 feet bgs. Silt and clay was encountered from 8 feet bgs to the boring terminus depth of 8.5 feet bgs, where driller equipment failure was encountered.

The subsurface exploration logs are included as Attachment C.

3.2 Soil Screening Results

As presented on the Organic Vapor Headspace Analysis Logs in Attachment D, the PID readings were 16 parts per million (ppm) or less above background in the recovered soil samples. None of the recovered samples exhibited petrochemical-type odors and staining and/or sheens were not observed.

3.3 Groundwater Conditions

The fill/soil became saturated generally from 6 to 12 feet bgs in the test borings. None of the recovered saturated fill/soil samples exhibited petrochemical-type odors and staining and/or sheens were not observed. None of the test borings were converted to monitoring wells and groundwater samples were not collected. The direction of groundwater flow was not determined and is inferred to be from west to east across the site based on area topography.

4.0 ANALYTICAL RESULTS

4.1 Soil

The fill/soil samples collected from each of the borings were analyzed for the TCL SVOCs and PCBs, and the TAL metals. Because the soil samples did not appear subjectively impacted, they were not analyzed for VOCs. The analytical results were compared to Soil Cleanup Objectives (SCOs) for Unrestricted and Restricted-Residential Use Sites. The fill/soil sampling analytical results summary is presented in the table in Attachment E. The Analytical Laboratory Report is included as Attachment F. Compounds and analytes that were detected at concentrations exceeding their respective SCOs are depicted on the Sampling Location Plan in Attachment B.

Fill/soil beneath the Site is impacted by eight (8) metals exceeding SCOs for Unrestricted Use Sites (the intended Track 1 cleanup level for the Site) and three (3) metals exceeding SCOs for Restricted Residential Use Sites (the intended use for the Site). Metals exceeding SCOs for Unrestricted Use Sites include arsenic, cadmium,

chromium, copper, lead, mercury, nickel and zinc. Metals exceeding SCOs for Restricted Residential Use Sites include arsenic, cadmium and copper.

5.0 CONCLUSIONS

A Limited Phase II ESA was conducted to further evaluate the Site's subsurface conditions and the environmental quality of the Site's fill/soil. The Phase II ESA activities included a subsurface investigation which included the advancement of five (5) test borings; a subsurface evaluation to delineate fill material from native soil; and the collection of subsurface fill/soil samples for field vapor screening and laboratory analysis.

Fill material was observed mantling the Site at five (5) test boring locations. The fill material generally consists of sand, gravel and silt with heterogeneous occurrences of slag, wood, metal, brick, ash, cinder, glass and coal. The fill material extended to depths that range from five (5) to 12 feet below the ground surface (bgs). Underlying the fill material are interbedded layers of gray fine sand with varying percentages of gravel and/or silt, and clay and silt. Organics, consisting of rootlets and wood, were noted in the native soil horizon. Shale was encountered at an approximate depth of 17.9 feet bgs at one (1) of the boring locations. Saturated soil conditions were encountered at depths that ranged from six (6) to eight (8) feet bgs in borings completed within southern portions of the Site, 10 feet bgs in borings completed within central portions of the Site, and 12 feet bgs in borings completed within northern portions of the Site. Based on surrounding topography, the inferred groundwater flow direction is towards the Hudson River.

Subjective assessment of the recovered fill/soil samples did not reveal elevated PID readings, petrochemical-type odors and staining and/or sheens.

Fill/soil beneath the Site is impacted by eight (8) metals exceeding SCOs for Unrestricted Use Sites (the intended Track 1 cleanup level for the Site) and three (3) metals exceeding SCOs for Restricted Residential Use Sites (the intended use for the Site). Metals exceeding SCOs for Unrestricted Use Sites include arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc. Metals exceeding SCOs for Restricted Residential Use Sites include arsenic, cadmium and copper.

6.0 RECOMMENDATIONS

Consideration of soil will be necessary for future development activities as fill materials exist within the Site which contains elevated levels of metals at concentrations exceeding Unrestricted and Restricted-Residential Use SCOs.

The findings and conclusions of this Limited Phase II ESA represent the Site conditions as disclosed through the investigations performed at the time completed, and may not be representative of the entire Site. No other warranties, expressed or implied are made.

If you have any questions regarding this report, please contact the undersigned at 518.860.9737 or s.bieber@ctmale.com.

Respectfully submitted,
C.T. MALE ASSOCIATES

Stephen Bieber, CHMM
Environmental Scientist

Reviewed and approved by:

Kirk Moline
Project Manager

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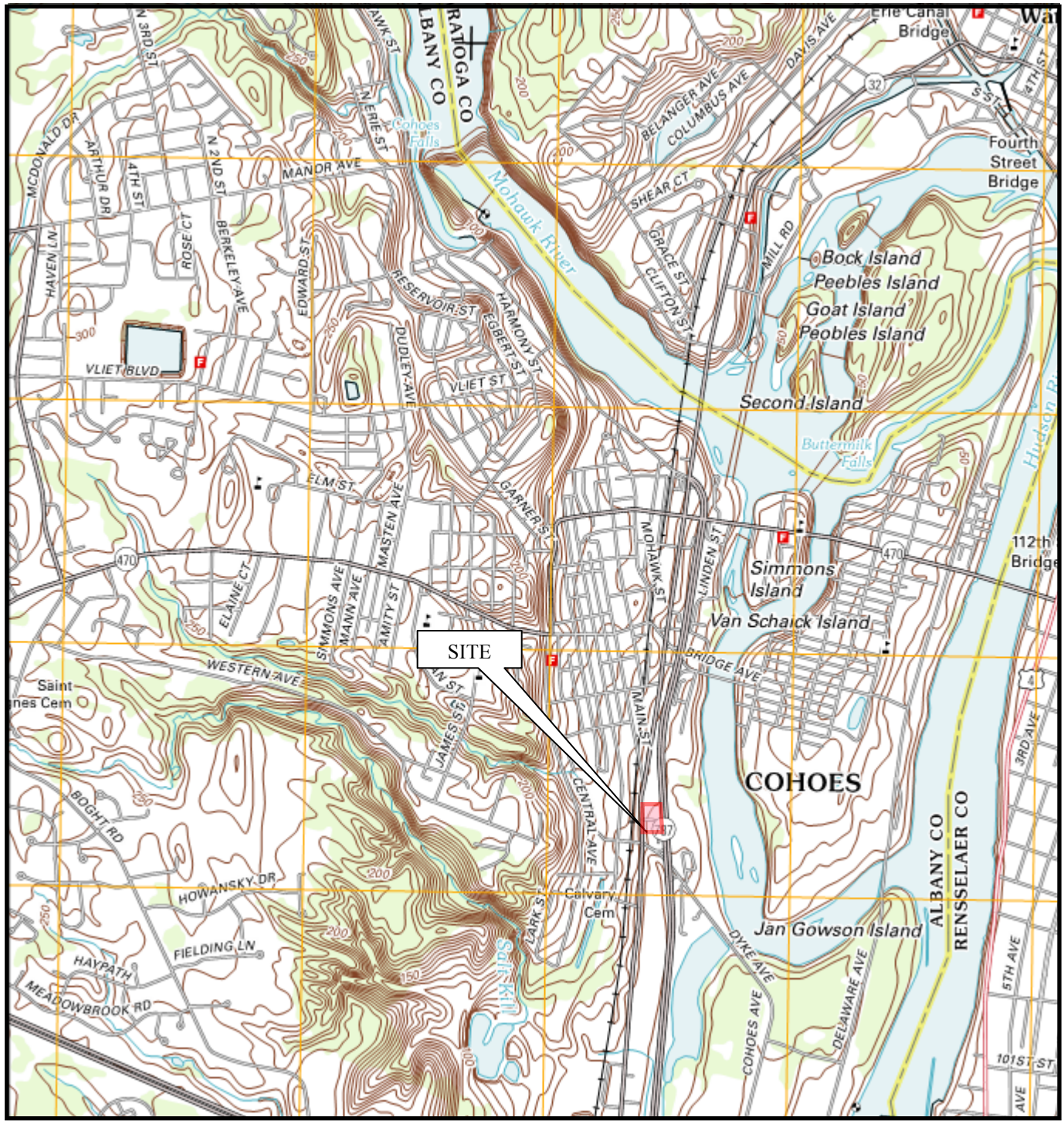
ATTACHMENT A

SITE LOCATION MAP



MAP REFERENCE
United States Geological Survey
7.5 Minute Series Topographic Map
Quadrangle: Troy North, NY
Date: 2013

N

C.T.MALE ASSOCIATES
ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, D.P.C.

50 CENTURY HILL DRIVE
LATHAM, NY 12110

FIGURE 1 - SITE LOCATION MAP

CITY OF COHOES	ALBANY COUNTY, NY
SCALE: 1:2,000±	The locations and features depicted on this map are approximate and do not represent an actual survey.
DRAFTER: ASG	
PROJECT No: 16.6648	

ATTACHMENT B

SAMPLING LOCATION PLAN

MAP NOTES:

1. Boundary lines shown hereon are based on the field location of monumentation shown on map reference no. 1 and now a result of a boundary survey prepared by this office.
2. North orientation and bearings are referenced to Grid North and are based on the New York State Plane Coordinate System, East Zone, NAD 83/2011 epoch 2010.00. The labeled distances shown are Grid distances.
3. Vertical datum shown hereon is NAVD 88 and was obtained from RTK GPS observations using Hudson Falls and Saratoga CORS as base stations and averaging the results.

MAP REFERENCE:

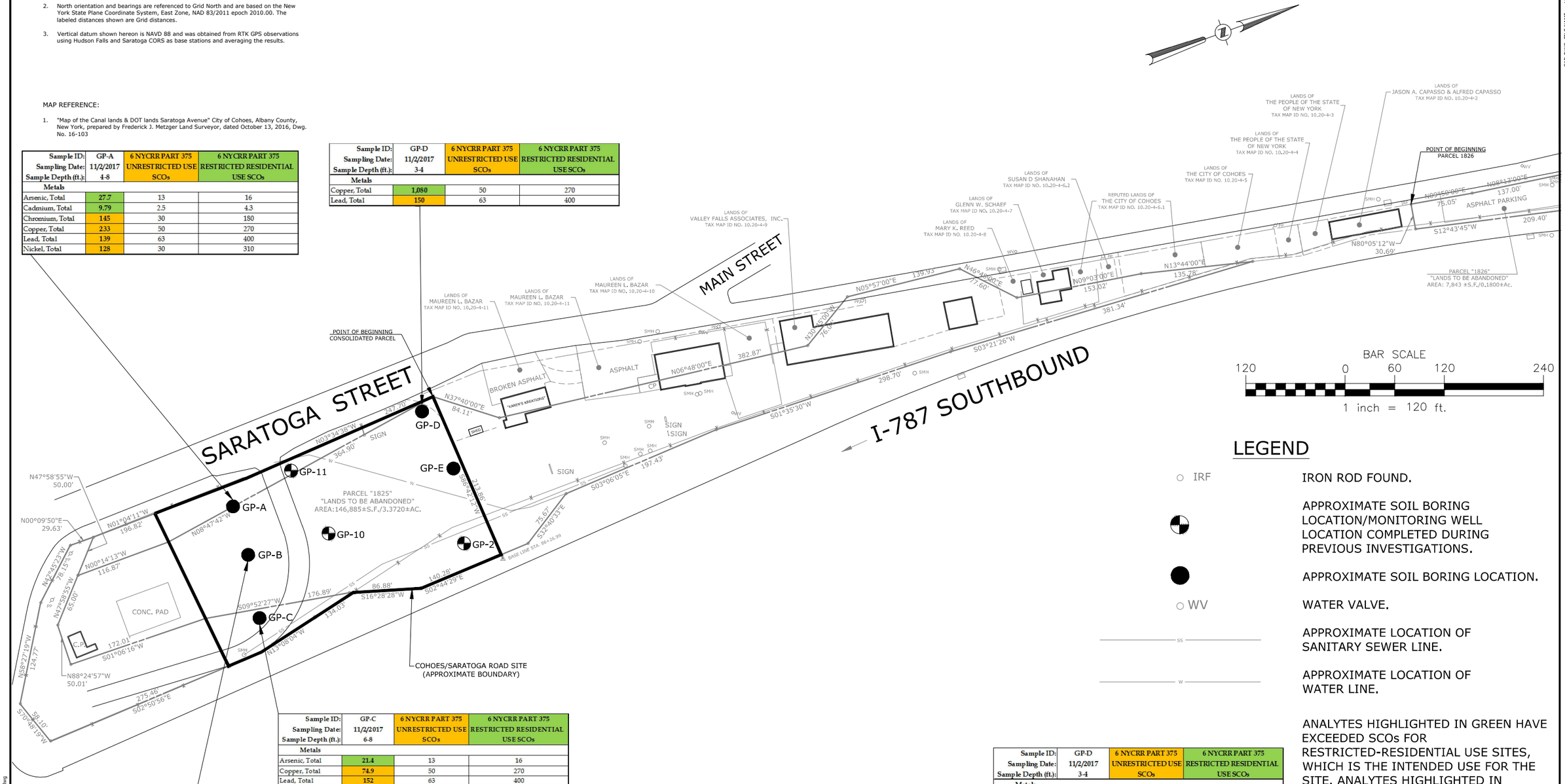
1. "Map of the Canal lands & DOT lands Saratoga Avenue" City of Cohoes, Albany County, New York, prepared by Frederick J. Metzger Land Surveyor, dated October 13, 2016, Dwg. No. 16-103

Sample ID:	GP-A	6 NYCRR PART 375	6 NYCRR PART 375
Sampling Date:	11/2/2017	UNRESTRICTED USE	RESTRICTED RESIDENTIAL
Sample Depth (ft.):	4-8	SCOs	USE SCOs
Metals			
Arsenic, Total	27.7	13	16
Cadmium, Total	9.79	2.5	4.3
Chromium, Total	145	30	180
Copper, Total	233	50	270
Lead, Total	139	63	400
Nickel, Total	128	30	310

Sample ID:	GP-D	6 NYCRR PART 375	6 NYCRR PART 375
Sampling Date:	11/2/2017	UNRESTRICTED USE	RESTRICTED RESIDENTIAL
Sample Depth (ft.):	3-4	SCOs	USE SCOs
Metals			
Copper, Total	1,080	50	270
Lead, Total	150	63	400

Sample ID:	GP-C	6 NYCRR PART 375	6 NYCRR PART 375
Sampling Date:	11/2/2017	UNRESTRICTED USE	RESTRICTED RESIDENTIAL
Sample Depth (ft.):	6-8	SCOs	USE SCOs
Metals			
Arsenic, Total	21.4	13	16
Copper, Total	74.9	50	270
Lead, Total	152	63	400

Sample ID:	GP-B	6 NYCRR PART 375	6 NYCRR PART 375
Sampling Date:	11/2/2017	UNRESTRICTED USE	RESTRICTED RESIDENTIAL
Sample Depth (ft.):	3-4	SCOs	USE SCOs
Metals			
Arsenic, Total	21.4	13	16
Cadmium, Total	5.73	2.5	4.3
Chromium, Total	74.8	30	180
Copper, Total	162	50	270
Lead, Total	140	63	400
Mercury, Total	0.28	0.18	0.81
Nickel, Total	56.9	30	310
Zinc, Total	119	109	10,000



LEGEND

○ IRF	IRON ROD FOUND.
◐	APPROXIMATE SOIL BORING LOCATION/MONITORING WELL LOCATION COMPLETED DURING PREVIOUS INVESTIGATIONS.
●	APPROXIMATE SOIL BORING LOCATION.
○ WV	WATER VALVE.
——SS——	APPROXIMATE LOCATION OF SANITARY SEWER LINE.
——W——	APPROXIMATE LOCATION OF WATER LINE.

ANALYTES HIGHLIGHTED IN GREEN HAVE EXCEEDED SCOs FOR RESTRICTED-RESIDENTIAL USE SITES, WHICH IS THE INTENDED USE FOR THE SITE. ANALYTES HIGHLIGHTED IN ORANGE HAVE EXCEEDED SCOs FOR UNRESTRICTED USE SITES, WHICH IS THE PROPOSED TRACK 1 CLEANUP GOAL FOR THE SITE.

Sample ID:	GP-D	6 NYCRR PART 375	6 NYCRR PART 375
Sampling Date:	11/2/2017	UNRESTRICTED USE	RESTRICTED RESIDENTIAL
Sample Depth (ft.):	3-4	SCOs	USE SCOs
Metals			
Copper, Total	1,080	50	270
Lead, Total	150	63	400

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			

APPROVED:
DRAFTED : JAB
CHECKED : SHB
PROJ. NO : 17.7652
SCALE : 1" = 120'
DATE : 11/10/2017

FIGURE 2: ANALYTES IN FILL/SOIL EXCEEDING UNRESTRICTED AND RESTRICTED-RESIDENTIAL USE SCOs

COHOES/SARATOGA ROAD SITE

CITY OF COHOES — ALBANY COUNTY, NY

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518.786.7400 * FAX 518.786.7299

SHEET 1 OF 1
DWG. NO: 17-0611

ATTACHMENT C

SUBSURFACE EXPLORATION LOGS

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-A**		
ELEV.:		**DATUM:**	
START DATE:	**11/2/17**	**FINISH DATE:**	**11/2/17**
SHEET	**1 of 1**		

PROJECT:	Cohoes/Saratoga Road Site	CTM PROJECT NO.:	17.7652
LOCATION:	Saratoga Street, City of Cohoes, New York	CTM OBSERVER:	D. Achtyl

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	2.5	ASPHALT 1.5' Brown fine SAND, Some Silt, trace gravel (moist)	
4					
6		2	0.6	Reddish-brown SAND & GRAVEL, Some Wood, trace metal scrap	
8				7.8' Gray fine SAND & SILT	wet ±8' bgs
10		3	2.7	Gray SILT & CLAY, Some fine Sand, trace organics (wet)	
12				Light Gray SAND, trace ash and gravel (wet)	
14				Boring Terminated ±11.5' bgs (Refusal)	
16					

DRILLING CONTRACTOR:	SJB Services, Inc.
DIRECT-PUSH TYPE:	Truck Mounted Geoprobe Unit
METHOD OF SAMPLING:	4' Macro-Core Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:
D. Achtyl

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-B**		
ELEV.:		**DATUM:**	
START DATE:	**11/2/17**	**FINISH DATE:**	**11/2/17**
SHEET	**1 of 1**		

PROJECT:	Cohoes/Saratoga Road Site	CTM PROJECT NO.:	17.7652
LOCATION:	Saratoga Street, City of Cohoes, New York	CTM OBSERVER:	D. Achtyl

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	3.2	Gray medium to coarse SAND & GRAVEL, & milled ASPHALT	
4				Brown fine SAND & SILT, trace brick, ash & roots	
		2	2.8	Pulverised SHALE (moist)	
6				Mottled brown/gray/red fine SAND, Some Silt, trace gravel (wet)	wet ±6' bgs
				7.5' bgs	
8				Gray fine SAND	
		3	4.0	Gray fine SAND, Some Silt, trace gravel	
10				10.5' bgs	
				Gray SILT, trace organics & gravel (moist)	
12					
		4	2.0	Gray/brown SILT, Some fine Sand, trace clay, gravel, organics	(moist)
14					
				Boring Terminated ±13.8' bgs (Refusal)	
16					

DRILLING CONTRACTOR:	SJB Services, Inc.
DIRECT-PUSH TYPE:	Truck Mounted Geoprobe Unit
METHOD OF SAMPLING:	4' Macro-Core Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:
D. Achtyl

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-C**		
ELEV.:		**DATUM:**	
START DATE:	**11/2/17**	**FINISH DATE:**	**11/2/17**
SHEET	**1 of 1**		

PROJECT:	Cohoes/Saratoga Road Site	CTM PROJECT NO.:	17.7652
LOCATION:	Saratoga Street, City of Cohoes, New York	CTM OBSERVER:	D. Achtyl

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	3.0	ASPHALT, MILLINGS	
2				Brown fine SAND, Some Gravel, trace brick & metal (moist)	
4				Dark Brown fine SAND & SILT, Some Cinder & Ash, trace organics	(moist)
		2	3.1	ASH, CINDERS, little clay, trace glass (moist)	
6					
8					
				8.5' bgs	
		3	2.5	Gray fine SAND, Some Silt, trace gravel (moist/wet)	
10					
				trace coal & ash	
12				Gray fine SAND & SILT, little gravel (moist)	
		4	0.0		No Recovery-Rock in Shoe
16					
		5	1.0	Gray coarse SAND & GRAVEL (wet)	
20				Boring Terminated ±19' bgs	

DRILLING CONTRACTOR:	SJB Services, Inc.
DIRECT-PUSH TYPE:	Truck Mounted Geoprobe Unit
METHOD OF SAMPLING:	4' Macro-Core Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:
D. Achtyl

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-D**		
ELEV.:		**DATUM:**	
START DATE:	**11/2/17**	**FINISH DATE:**	**11/2/17**
SHEET	**1 of 1**		

PROJECT:	Cohoes/Saratoga Road Site	CTM PROJECT NO.:	17.7652
LOCATION:	Saratoga Street, City of Cohoes, New York	CTM OBSERVER:	D. Achtyl

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	3.2	Gray coarse SAND & GRAVEL (moist)	
2				Red Brown fine SAND (moist)	
4				CINDERS, SLAG, med. to coarse SAND & GRAVEL (moist)	
		2	2.5	Dark Brown coarse SAND, little silt & gravel (moist)	
6				Red Brown mottled SILT, little fine sand, trace glass (moist)	
8					
		3	2.6	Gray CLAY & SILT, little fine sand, trace coal (moist)	
10					
12					(wet ±12' bgs)
		4	2.2		
16				Dark Gray SAND & GRAVEL, Some Silt (wet)	
		5	2.0	Gray coarse SAND & GRAVEL, Some Silt (wet)	
18				SHALE & GRAVEL, Some fine to coarse Sand (wet)	Boring Terminated ±17.9' bgs (Refusal)

DRILLING CONTRACTOR:	SJB Services, Inc.
DIRECT-PUSH TYPE:	Truck Mounted Geoprobe Unit
METHOD OF SAMPLING:	4' Macro-Core Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:
D. Achtyl

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-E**		
ELEV.:		**DATUM:**	
START DATE:	**11/2/17**	**FINISH DATE:**	**11/2/17**
SHEET	**1 of 1**		

PROJECT:	Cohoes/Saratoga Road Site	CTM PROJECT NO.:	17.7652
LOCATION:	Saratoga Street, City of Cohoes, New York	CTM OBSERVER:	D. Achtyl

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	3.0	TOPSOIL (ground surface to ±0.5' bgs) Brown fine SAND, Some Silt & Cobbles, little gravel (moist)	
4					
6		2	3.0	Brown fine SAND	
8					
10				Boring Terminated ±8' bgs (Driller Equipment Failed)	
12					
16					
18					

DRILLING CONTRACTOR:	SJB Services, Inc.
DIRECT-PUSH TYPE:	Truck Mounted Geoprobe Unit
METHOD OF SAMPLING:	4' Macro-Core Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:
D. Achtyl

ATTACHMENT D

ORGANIC VAPOR HEADSPACE ANALYSIS LOGS

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	Cohoes/Saratoga Road Site		**PROJECT #:**	17.7652	**PAGE 1 OF 2**
CLIENT:	Cohoes II Limited Partnership				**DATE**
LOCATION:	Saratoga Street, City of Cohoes, New York				**COLLECTED: 11/2/2017**
INSTRUMENT USED:	MiniRae 3000	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	11/2/2017	**BY:**	D. Achtyl		**ANALYZED: 11/2/2017**
TEMPERATURE OF SOIL:	ambient				**ANALYST: D. Achtyl**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-A	1	0-2	Fill/Soil	1.1	0.0	NO/NS
GP-A	2	2-4	Fill/Soil	4.2	0.0	NO, red iron staining, metal
GP-A	3	4-8	Fill/Soil	4.0	0.0	NO/NS
GP-A	4	8-10	Fill/Soil	6.6	0.0	NO/NS
GP-A	5	10-11	Fill/Soil	7.7	0.0	NO/NS
GP-A	6	11-11.5	Fill/Soil	9.7	0.0	NO/NS, ash
GP-B	1	0-3	Fill/Soil	3.8	0.0	NO/NS
GP-B	2	3-4	Fill/Soil	10.4	0.0	NO/NS, brick, ash
GP-B	3	4-6	Fill/Soil	10.1	0.0	NO/NS
GP-B	4	6-8	Fill/Soil	16.0	0.0	NO/NS
GP-B	5	8-10	Fill/Soil	12.6	0.0	NO/NS
GP-B	6	10-12	Fill/Soil	9.7	0.0	NO/NS
GP-B	7	12-14	Fill/Soil	10.0	0.0	NO/NS
GP-C	1	0-2	Fill/Soil	3.0	0.0	NO/NS
GP-C	2	2-4	Fill/Soil	10.9	0.0	NO/NS
GP-C	3	4-6	Fill/Soil	10.6	0.0	NO/NS, ash, cinder
GP-C	4	6-8	Fill/Soil	8.1	0.0	NO/NS, ash, cinder, glass, slag
GP-C	5	8-10	Fill/Soil	13.1	0.0	NO/NS
GP-C	6	10-12	Fill/Soil	11.1	0.0	NO/NS, ash
GP-C	7	16-19	Fill/Soil	11.6	0.0	NO/NS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.
*** represents feet below the ground surface.

(1) NO/NS denotes No Odors and No Staining was noted in the sample.

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	Cohoes/Saratoga Road Site		**PROJECT #:**	17.7652	**PAGE 2 OF 2**
CLIENT:	Cohoes II Limited Partnership				**DATE**
LOCATION:	Saratoga Street, City of Cohoes, New York				**COLLECTED: 11/2/2017**
INSTRUMENT USED:	MiniRae 3000	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	11/2/2017	**BY:**	D. Achtyl		**ANALYZED: 11/2/2017**
TEMPERATURE OF SOIL:	ambient				**ANALYST: D. Achtyl**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-D	1	0-3	Fill/Soil	3.5	0.0	NO/NS
GP-D	2	3-4	Fill/Soil	2.6	0.0	NO/NS, cinders, slag
GP-D	3	4-6	Fill/Soil	11.8	0.0	NO/NS
GP-D	4	6-8	Fill/Soil	10.1	0.0	NO/NS
GP-D	5	8-10	Fill/Soil	11.2	0.0	NO/NS
GP-D	6	10-12	Fill/Soil	10.7	0.0	NO/NS
GP-D	7	12-14	Fill/Soil	10.8	0.0	NO/NS
GP-D	8	14-16	Fill/Soil	7.7	0.0	NO/NS
GP-D	9	16-17.5	Fill/Soil	7.1	0.0	NO/NS
GP-E	1	0-2	Fill/Soil	6.8	0.0	NO/NS
GP-E	2	2-4	Fill/Soil	5.5	0.0	NO/NS
GP-E	3	4-6	Fill/Soil	4.5	0.0	NO/NS
GP-E	4	6-8	Fill/Soil	6.1	0.0	NO/NS
GP-E	5	8-8.5	Fill/Soil	7.1	0.0	NO/NS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.
*** represents feet below the ground surface.

(1) NO/NS denotes No Odors and No Staining was noted in the sample.

ATTACHMENT E

TABLE: FILL/SOIL ANALYTICAL RESULTS SUMMARY

Data Not Validated

SOIL SAMPLING ANALYTICAL RESULTS SUMMARY
COHOES/SARATOGA ROAD SITE
CITY OF COHOES, ALBANY COUNTY

SAMPLE ID:	GP-A		GP-B		GP-C		GP-D		GP-E		6 NYCRR PART 375 UNRESTRICTED USE SCOs[(1)]	6 NYCRR PART 375 RESTRICTED RESIDENTIAL USE SCOs[(1)]
LAB ID:	L1740211-01		L1740211-02		L1740211-03		L1740211-04		L1740211-05			
COLLECTION DATE:	11/2/2017		11/2/2017		11/2/2017		11/2/2017		11/2/2017			
SAMPLE DEPTH (FT):	4-8		3-4		6-8		3-4		0-2			
ANALYTE	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**		
Semi-Volatile Organic Compounds												
2-Methylnaphthalene	ND		0.026	J	ND		ND		ND		No Standard	No Standard
Acenaphthene	ND		0.043	J	ND		ND		ND		20	100
Anthracene	0.042	J	0.1	J	ND		ND		ND		100	100
Benzo(a)anthracene	0.12		0.3		ND		0.19	J	0.081	J	1	1
Benzo(a)pyrene	0.082	J	0.26		ND		0.18	J	0.073	J	1	1
Benzo(b)fluoranthene	0.1	J	0.36		ND		0.2	J	0.09	J	1	1
Benzo(ghi)perylene	0.04	J	0.16		ND		0.14	J	0.05	J	100	100
Benzo(k)fluoranthene	0.034	J	0.094	J	ND		ND		ND		0.8	3.9
Carbazole	ND		0.06	J	ND		ND		ND		No Standard	No Standard
Chrysene	0.11	J	0.28		ND		0.18	J	0.065	J	1	3.9
Dibenzo(a,h)anthracene	ND		0.045	J	ND		ND		ND		0.33	0.33
Dibenzofuran	ND		0.042	J	ND		ND		ND		7	59
Fluoranthene	0.14		0.6		ND		0.32	J	0.16		100	100
Fluorene	ND		0.053	J	ND		ND		ND		30	100
Indeno(1,2,3-cd)pyrene	0.04	J	0.18		ND		0.14	J	0.049	J	0.5	0.5
Naphthalene	ND		0.069	J	ND		ND		ND		12	100
Phenanthrene	0.073	J	0.48		ND		ND		0.094	J	100	100
Pyrene	0.14		0.49		ND		0.31	J	0.14		100	100
PCBs												
Aroclor 1260	ND		ND		0.058		0.00539	J	ND		0.1	1
Aroclor 1268	ND		0.00552	J	ND		ND		ND		0.1	1
PCBs, Total	ND		0.00552	J	0.058		0.00539	J	ND		0.1	1
Metals												
Aluminum, Total	5760		6780		5480		7200		8710		No Standard	No Standard
Antimony, Total	6.08		ND		ND		3.38	J	ND		No Standard	No Standard
Arsenic, Total	**27.7**		**21.4**		**21.4**		5.8		4.2		13	16
Barium, Total	31.3		81.8		91.3		81.5		86		350	400
Beryllium, Total	0.19	J	0.319	J	0.655		0.407		0.512		7.2	72
Cadmium, Total	**9.79**		**5.73**		0.898	J	0.51	J	0.444	J	2.5	4.3
Calcium, Total	11200		8010		4890		25000		8740		No Standard	No Standard
Chromium, Total	**145**		**74.8**		11.5		12.2		12.2		30	180
Cobalt, Total	22.8		14.8		5.84		7.45		7.9		No Standard	No Standard
Copper, Total	**233**		**162**		**74.9**		**1,080**		27		50	270
Iron, Total	251000		157000		9210		18100		19100		No Standard	No Standard
Lead, Total	**139**		**140**		**152**		**150**		25.5		63	400
Magnesium, Total	5180		4450		1090		12900		4550		No Standard	No Standard
Manganese, Total	1600		906		108		486		336		1,600	2000
Mercury, Total	0.12		**0.28**		ND		0.05	J	0.14		0.18	0.81
Nickel, Total	**128**		**56.9**		17		17.4		15.8		30	310
Potassium, Total	453		648		474		797		699		No Standard	No Standard
Selenium, Total	ND		ND		1.2	J	0.343	J	0.222	J	3.9	180
Silver, Total	0.615	J	0.561	J	ND		ND		ND		2	180
Sodium, Total	90.8	J	115	J	228	J	186		66.9	J	No Standard	No Standard
Thallium, Total	1.47	J	0.86	J	ND		0.287	J	ND		No Standard	No Standard
Vanadium, Total	38.2		29.6		28.3		33.5		18.7		No Standard	No Standard
Zinc, Total	47.8		**119**		86.5		109		62		109	10,000

(1) Soil Cleanup Objectives (SCOs) for Unrestricted and Restricted-Residential Use Sites promulgatred at 6 NYCRR Part 375.
ND denotes Non Detect.
Analyte concentrations denoted in miligrams per kilogram (mg/kg) or parts per million (ppm).
Analyte concentrations highlighted in green have exceeded SCOs for Restricted-Residential Use Sites promulgated ay 6 NYCRR Part 375.
Analyte concentrations highlighted in orange have exceeded SCOs for Unrestricted Use Sites promulgated ay 6 NYCRR Part 375.

APPENDIX E

ANALYTICAL LABORATORY REPORT

ANALYTICAL REPORT

Lab Number:	L1740211
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Steve Bieber
Phone:	(518) 786-7400
Project Name:	COHOES/SARATOGA RD. SITE
Project Number:	17-7652
Report Date:	11/03/17

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

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

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1740211-01	GP-A_04.0-08.0	SOIL	COHOES, NY	11/02/17 09:10	11/02/17
L1740211-02	GP-B_03.0-04.0	SOIL	COHOES, NY	11/02/17 10:00	11/02/17
L1740211-03	GP-C_06.0-08.0	SOIL	COHOES, NY	11/02/17 11:00	11/02/17
L1740211-04	GP-D_03.0-04.0	SOIL	COHOES, NY	11/02/17 12:00	11/02/17
L1740211-05	GP-E_00.0-02.0	SOIL	COHOES, NY	11/02/17 16:30	11/02/17

Project Name:	COHOES/SARATOGA RD. SITE	**Lab Number:**	L1740211
Project Number:	17-7652	**Report Date:**	11/03/17

Case Narrative

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

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

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

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

HOLD POLICY

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

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

Project Name:	COHOES/SARATOGA RD. SITE	**Lab Number:**	L1740211
Project Number:	17-7652	**Report Date:**	11/03/17

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.

Semivolatile Organics

L1740211-04: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L1740211-01 through -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 11/03/17

ORGANICS

SEMIVOLATILES

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-01
Client ID: GP-A_04.0-08.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/17 12:02
Analyst: RC
Percent Solids: 85%

Date Collected: 11/02/17 09:10
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	140		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	120		ug/kg	120	22.	1
Benzo(a)pyrene	82	J	ug/kg	160	47.	1
Benzo(b)fluoranthene	100	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	34	J	ug/kg	120	31.	1

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-01 Date Collected: 11/02/17 09:10

Client ID: GP-A_04.0-08.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	110	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	42	J	ug/kg	120	38.	1
Benzo(ghi)perylene	40	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	73	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	40	J	ug/kg	160	27.	1
Pyrene	140		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	ND		ug/kg	190	19.	1
Atrazine	ND		ug/kg	160	68.	1
Benzaldehyde	ND		ug/kg	260	52.	1
Caprolactam	ND		ug/kg	190	59.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-01 Date Collected: 11/02/17 09:10

Client ID: GP-A_04.0-08.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	69		18-120

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-02
Client ID: GP-B_03.0-04.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/17 12:29
Analyst: RC
Percent Solids: 81%

Date Collected: 11/02/17 10:00
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	43	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	600		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	69	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	300		ug/kg	120	22.	1
Benzo(a)pyrene	260		ug/kg	160	49.	1
Benzo(b)fluoranthene	360		ug/kg	120	34.	1
Benzo(k)fluoranthene	94	J	ug/kg	120	32.	1

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-02 Date Collected: 11/02/17 10:00

Client ID: GP-B_03.0-04.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	280		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	100	J	ug/kg	120	39.	1
Benzo(ghi)perylene	160		ug/kg	160	24.	1
Fluorene	53	J	ug/kg	200	19.	1
Phenanthrene	480		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	45	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	160	28.	1
Pyrene	490		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	42	J	ug/kg	200	19.	1
2-Methylnaphthalene	26	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	60	J	ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-02 Date Collected: 11/02/17 10:00

Client ID: GP-B_03.0-04.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	60		18-120

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-03
Client ID: GP-C_06.0-08.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/17 12:57
Analyst: RC
Percent Solids: 62%

Date Collected: 11/02/17 11:00
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	210	28.	1
Hexachlorobenzene	ND		ug/kg	160	30.	1
Bis(2-chloroethyl)ether	ND		ug/kg	240	36.	1
2-Chloronaphthalene	ND		ug/kg	270	26.	1
3,3'-Dichlorobenzidine	ND		ug/kg	270	71.	1
2,4-Dinitrotoluene	ND		ug/kg	270	53.	1
2,6-Dinitrotoluene	ND		ug/kg	270	46.	1
Fluoranthene	ND		ug/kg	160	30.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	270	28.	1
4-Bromophenyl phenyl ether	ND		ug/kg	270	41.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	320	46.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	290	27.	1
Hexachlorobutadiene	ND		ug/kg	270	39.	1
Hexachlorocyclopentadiene	ND		ug/kg	760	240	1
Hexachloroethane	ND		ug/kg	210	43.	1
Isophorone	ND		ug/kg	240	34.	1
Naphthalene	ND		ug/kg	270	32.	1
Nitrobenzene	ND		ug/kg	240	39.	1
NDPA/DPA	ND		ug/kg	210	30.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	270	41.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	270	92.	1
Butyl benzyl phthalate	ND		ug/kg	270	67.	1
Di-n-butylphthalate	ND		ug/kg	270	50.	1
Di-n-octylphthalate	ND		ug/kg	270	91.	1
Diethyl phthalate	ND		ug/kg	270	25.	1
Dimethyl phthalate	ND		ug/kg	270	56.	1
Benzo(a)anthracene	ND		ug/kg	160	30.	1
Benzo(a)pyrene	ND		ug/kg	210	65.	1
Benzo(b)fluoranthene	ND		ug/kg	160	45.	1
Benzo(k)fluoranthene	ND		ug/kg	160	43.	1

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-03 Date Collected: 11/02/17 11:00

Client ID: GP-C_06.0-08.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	160	28.	1
Acenaphthylene	ND		ug/kg	210	41.	1
Anthracene	ND		ug/kg	160	52.	1
Benzo(ghi)perylene	ND		ug/kg	210	31.	1
Fluorene	ND		ug/kg	270	26.	1
Phenanthrene	ND		ug/kg	160	32.	1
Dibenzo(a,h)anthracene	ND		ug/kg	160	31.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	210	37.	1
Pyrene	ND		ug/kg	160	26.	1
Biphenyl	ND		ug/kg	610	62.	1
4-Chloroaniline	ND		ug/kg	270	48.	1
2-Nitroaniline	ND		ug/kg	270	51.	1
3-Nitroaniline	ND		ug/kg	270	50.	1
4-Nitroaniline	ND		ug/kg	270	110	1
Dibenzofuran	ND		ug/kg	270	25.	1
2-Methylnaphthalene	ND		ug/kg	320	32.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	270	28.	1
Acetophenone	ND		ug/kg	270	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	160	50.	1
p-Chloro-m-cresol	ND		ug/kg	270	40.	1
2-Chlorophenol	ND		ug/kg	270	32.	1
2,4-Dichlorophenol	ND		ug/kg	240	43.	1
2,4-Dimethylphenol	ND		ug/kg	270	88.	1
2-Nitrophenol	ND		ug/kg	580	100	1
4-Nitrophenol	ND		ug/kg	370	110	1
2,4-Dinitrophenol	ND		ug/kg	1300	120	1
4,6-Dinitro-o-cresol	ND		ug/kg	690	130	1
Pentachlorophenol	ND		ug/kg	210	59.	1
Phenol	ND		ug/kg	270	40.	1
2-Methylphenol	ND		ug/kg	270	41.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	380	42.	1
2,4,5-Trichlorophenol	ND		ug/kg	270	51.	1
Carbazole	ND		ug/kg	270	26.	1
Atrazine	ND		ug/kg	210	93.	1
Benzaldehyde	ND		ug/kg	350	72.	1
Caprolactam	ND		ug/kg	270	81.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	270	54.	1

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-03 Date Collected: 11/02/17 11:00

Client ID: GP-C_06.0-08.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	66		18-120

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-04 D
Client ID: GP-D_03.0-04.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/17 13:53
Analyst: RC
Percent Solids: 95%

Date Collected: 11/02/17 12:00
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	550	71.	4
Hexachlorobenzene	ND		ug/kg	410	77.	4
Bis(2-chloroethyl)ether	ND		ug/kg	620	93.	4
2-Chloronaphthalene	ND		ug/kg	690	68.	4
3,3'-Dichlorobenzidine	ND		ug/kg	690	180	4
2,4-Dinitrotoluene	ND		ug/kg	690	140	4
2,6-Dinitrotoluene	ND		ug/kg	690	120	4
Fluoranthene	320	J	ug/kg	410	79.	4
4-Chlorophenyl phenyl ether	ND		ug/kg	690	74.	4
4-Bromophenyl phenyl ether	ND		ug/kg	690	100	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	820	120	4
Bis(2-chloroethoxy)methane	ND		ug/kg	740	69.	4
Hexachlorobutadiene	ND		ug/kg	690	100	4
Hexachlorocyclopentadiene	ND		ug/kg	2000	620	4
Hexachloroethane	ND		ug/kg	550	110	4
Isophorone	ND		ug/kg	620	89.	4
Naphthalene	ND		ug/kg	690	84.	4
Nitrobenzene	ND		ug/kg	620	100	4
NDPA/DPA	ND		ug/kg	550	78.	4
n-Nitrosodi-n-propylamine	ND		ug/kg	690	110	4
Bis(2-ethylhexyl)phthalate	ND		ug/kg	690	240	4
Butyl benzyl phthalate	ND		ug/kg	690	170	4
Di-n-butylphthalate	ND		ug/kg	690	130	4
Di-n-octylphthalate	ND		ug/kg	690	230	4
Diethyl phthalate	ND		ug/kg	690	64.	4
Dimethyl phthalate	ND		ug/kg	690	140	4
Benzo(a)anthracene	190	J	ug/kg	410	77.	4
Benzo(a)pyrene	180	J	ug/kg	550	170	4
Benzo(b)fluoranthene	200	J	ug/kg	410	120	4
Benzo(k)fluoranthene	ND		ug/kg	410	110	4

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-04 D Date Collected: 11/02/17 12:00
Client ID: GP-D_03.0-04.0 Date Received: 11/02/17
Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	180	J	ug/kg	410	72.	4
Acenaphthylene	ND		ug/kg	550	110	4
Anthracene	ND		ug/kg	410	130	4
Benzo(ghi)perylene	140	J	ug/kg	550	81.	4
Fluorene	ND		ug/kg	690	67.	4
Phenanthrene	ND		ug/kg	410	84.	4
Dibenzo(a,h)anthracene	ND		ug/kg	410	79.	4
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	550	96.	4
Pyrene	310	J	ug/kg	410	68.	4
Biphenyl	ND		ug/kg	1600	160	4
4-Chloroaniline	ND		ug/kg	690	120	4
2-Nitroaniline	ND		ug/kg	690	130	4
3-Nitroaniline	ND		ug/kg	690	130	4
4-Nitroaniline	ND		ug/kg	690	280	4
Dibenzofuran	ND		ug/kg	690	65.	4
2-Methylnaphthalene	ND		ug/kg	820	83.	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	690	72.	4
Acetophenone	ND		ug/kg	690	85.	4
2,4,6-Trichlorophenol	ND		ug/kg	410	130	4
p-Chloro-m-cresol	ND		ug/kg	690	100	4
2-Chlorophenol	ND		ug/kg	690	81.	4
2,4-Dichlorophenol	ND		ug/kg	620	110	4
2,4-Dimethylphenol	ND		ug/kg	690	230	4
2-Nitrophenol	ND		ug/kg	1500	260	4
4-Nitrophenol	ND		ug/kg	960	280	4
2,4-Dinitrophenol	ND		ug/kg	3300	320	4
4,6-Dinitro-o-cresol	ND		ug/kg	1800	330	4
Pentachlorophenol	ND		ug/kg	550	150	4
Phenol	ND		ug/kg	690	100	4
2-Methylphenol	ND		ug/kg	690	110	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	990	110	4
2,4,5-Trichlorophenol	ND		ug/kg	690	130	4
Carbazole	ND		ug/kg	690	67.	4
Atrazine	ND		ug/kg	550	240	4
Benzaldehyde	ND		ug/kg	910	180	4
Caprolactam	ND		ug/kg	690	210	4
2,3,4,6-Tetrachlorophenol	ND		ug/kg	690	140	4

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-04 D Date Collected: 11/02/17 12:00

Client ID: GP-D_03.0-04.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**21**	Q	25-120
Phenol-d6	24		10-120
Nitrobenzene-d5	29		23-120
2-Fluorobiphenyl	**22**	Q	30-120
2,4,6-Tribromophenol	16		10-136
4-Terphenyl-d14	20		18-120

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-05
Client ID: GP-E_00.0-02.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/17 13:24
Analyst: RC
Percent Solids: 91%

Date Collected: 11/02/17 16:30
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	160		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	81	J	ug/kg	110	20.	1
Benzo(a)pyrene	73	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	90	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-05 Date Collected: 11/02/17 16:30

Client ID: GP-E_00.0-02.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	65	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	50	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	94	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	49	J	ug/kg	140	25.	1
Pyrene	140		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	140	63.	1
Benzaldehyde	ND		ug/kg	240	49.	1
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-05 Date Collected: 11/02/17 16:30

Client ID: GP-E_00.0-02.0 Date Received: 11/02/17

Sample Location: COHOES, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	69		18-120

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/17 08:14
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 11/02/17 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1058891-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/17 08:14
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 11/02/17 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1058891-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/17 08:14
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 11/02/17 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1058891-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	57		10-136
4-Terphenyl-d14	76		18-120

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/17 09:22
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 11/02/17 18:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1059081-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/17 09:22
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 11/02/17 18:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1059081-1					
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	31.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	37.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/17 09:22
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 11/02/17 18:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1059081-1					
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	56.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	88		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1058891-2 WG1058891-3								
Acenaphthene	74		91		31-137	21		50
Hexachlorobenzene	77		93		40-140	19		50
Bis(2-chloroethyl)ether	81		92		40-140	13		50
2-Chloronaphthalene	80		92		40-140	14		50
3,3'-Dichlorobenzidine	**39**	Q	**26**	Q	40-140	40		50
2,4-Dinitrotoluene	79		96		40-132	19		50
2,6-Dinitrotoluene	85		95		40-140	11		50
Fluoranthene	76		92		40-140	19		50
4-Chlorophenyl phenyl ether	74		90		40-140	20		50
4-Bromophenyl phenyl ether	71		89		40-140	23		50
Bis(2-chloroisopropyl)ether	83		91		40-140	9		50
Bis(2-chloroethoxy)methane	85		95		40-117	11		50
Hexachlorobutadiene	72		86		40-140	18		50
Hexachlorocyclopentadiene	71		88		40-140	21		50
Hexachloroethane	79		89		40-140	12		50
Isophorone	85		95		40-140	11		50
Naphthalene	76		89		40-140	16		50
Nitrobenzene	85		95		40-140	11		50
NDPA/DPA	76		87		36-157	13		50
n-Nitrosodi-n-propylamine	85		96		32-121	12		50
Bis(2-ethylhexyl)phthalate	81		97		40-140	18		50
Butyl benzyl phthalate	82		94		40-140	14		50
Di-n-butylphthalate	79		94		40-140	17		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1058891-2 WG1058891-3								
Di-n-octylphthalate	84		100		40-140	17		50
Diethyl phthalate	76		92		40-140	19		50
Dimethyl phthalate	80		91		40-140	13		50
Benzo(a)anthracene	75		92		40-140	20		50
Benzo(a)pyrene	80		94		40-140	16		50
Benzo(b)fluoranthene	79		95		40-140	18		50
Benzo(k)fluoranthene	80		92		40-140	14		50
Chrysene	75		92		40-140	20		50
Acenaphthylene	81		94		40-140	15		50
Anthracene	76		94		40-140	21		50
Benzo(ghi)perylene	78		94		40-140	19		50
Fluorene	75		91		40-140	19		50
Phenanthrene	73		91		40-140	22		50
Dibenzo(a,h)anthracene	76		95		40-140	22		50
Indeno(1,2,3-cd)pyrene	77		96		40-140	22		50
Pyrene	73		89		35-142	20		50
Biphenyl	81		94		54-104	15		50
4-Chloroaniline	41		49		40-140	18		50
2-Nitroaniline	85		97		47-134	13		50
3-Nitroaniline	49		47		26-129	4		50
4-Nitroaniline	79		88		41-125	11		50
Dibenzofuran	73		89		40-140	20		50
2-Methylnaphthalene	78		91		40-140	15		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1058891-2 WG1058891-3								
1,2,4,5-Tetrachlorobenzene	79		93		40-117	16		50
Acetophenone	89		100		14-144	12		50
2,4,6-Trichlorophenol	80		93		30-130	15		50
p-Chloro-m-cresol	84		96		26-103	13		50
2-Chlorophenol	85		96		25-102	12		50
2,4-Dichlorophenol	88		98		30-130	11		50
2,4-Dimethylphenol	89		101		30-130	13		50
2-Nitrophenol	85		98		30-130	14		50
4-Nitrophenol	93		112		11-114	19		50
2,4-Dinitrophenol	33		51		4-130	43		50
4,6-Dinitro-o-cresol	78		96		10-130	21		50
Pentachlorophenol	75		92		17-109	20		50
Phenol	87		**98**	Q	26-90	12		50
2-Methylphenol	87		97		30-130.	11		50
3-Methylphenol/4-Methylphenol	86		100		30-130	15		50
2,4,5-Trichlorophenol	82		95		30-130	15		50
Carbazole	77		89		54-128	14		50
Atrazine	58		52		40-140	11		50
Benzaldehyde	76		83		40-140	9		50
Caprolactam	93		104		15-130	11		50
2,3,4,6-Tetrachlorophenol	75		90		40-140	18		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE

Project Number: 17-7652

Lab Number: L1740211

Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1058891-2 WG1058891-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		87		25-120
Phenol-d6	77		86		10-120
Nitrobenzene-d5	75		85		23-120
2-Fluorobiphenyl	69		81		30-120
2,4,6-Tribromophenol	71		87		10-136
4-Terphenyl-d14	67		80		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1059081-2 WG1059081-3								
Acenaphthene	84		74		31-137	13		50
Hexachlorobenzene	96		83		40-140	15		50
Bis(2-chloroethyl)ether	85		79		40-140	7		50
2-Chloronaphthalene	91		81		40-140	12		50
3,3'-Dichlorobenzidine	87		78		40-140	11		50
2,4-Dinitrotoluene	109		92		40-132	17		50
2,6-Dinitrotoluene	102		89		40-140	14		50
Fluoranthene	101		86		40-140	16		50
4-Chlorophenyl phenyl ether	96		83		40-140	15		50
4-Bromophenyl phenyl ether	94		82		40-140	14		50
Bis(2-chloroisopropyl)ether	87		80		40-140	8		50
Bis(2-chloroethoxy)methane	92		80		40-117	14		50
Hexachlorobutadiene	84		79		40-140	6		50
Hexachlorocyclopentadiene	86		78		40-140	10		50
Hexachloroethane	83		78		40-140	6		50
Isophorone	95		81		40-140	16		50
Naphthalene	83		78		40-140	6		50
Nitrobenzene	89		82		40-140	8		50
NDPA/DPA	99		84		36-157	16		50
n-Nitrosodi-n-propylamine	94		85		32-121	10		50
Bis(2-ethylhexyl)phthalate	116		98		40-140	17		50
Butyl benzyl phthalate	121		99		40-140	20		50
Di-n-butylphthalate	108		94		40-140	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1059081-2 WG1059081-3								
Di-n-octylphthalate	116		100		40-140	15		50
Diethyl phthalate	102		85		40-140	18		50
Dimethyl phthalate	99		84		40-140	16		50
Benzo(a)anthracene	100		86		40-140	15		50
Benzo(a)pyrene	113		98		40-140	14		50
Benzo(b)fluoranthene	107		92		40-140	15		50
Benzo(k)fluoranthene	108		93		40-140	15		50
Chrysene	94		82		40-140	14		50
Acenaphthylene	95		83		40-140	13		50
Anthracene	97		83		40-140	16		50
Benzo(ghi)perylene	104		89		40-140	16		50
Fluorene	94		81		40-140	15		50
Phenanthrene	93		81		40-140	14		50
Dibenzo(a,h)anthracene	104		89		40-140	16		50
Indeno(1,2,3-cd)pyrene	106		93		40-140	13		50
Pyrene	96		79		35-142	19		50
Biphenyl	94		83		54-104	12		50
4-Chloroaniline	81		70		40-140	15		50
2-Nitroaniline	110		95		47-134	15		50
3-Nitroaniline	95		82		26-129	15		50
4-Nitroaniline	105		88		41-125	18		50
Dibenzofuran	94		81		40-140	15		50
2-Methylnaphthalene	88		79		40-140	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE

Project Number: 17-7652

Lab Number: L1740211

Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1059081-2 WG1059081-3								
1,2,4,5-Tetrachlorobenzene	92		81		40-117	13		50
Acetophenone	97		88		14-144	10		50
2,4,6-Trichlorophenol	100		89		30-130	12		50
p-Chloro-m-cresol	**104**	Q	89		26-103	16		50
2-Chlorophenol	95		88		25-102	8		50
2,4-Dichlorophenol	101		88		30-130	14		50
2,4-Dimethylphenol	104		90		30-130	14		50
2-Nitrophenol	100		90		30-130	11		50
4-Nitrophenol	110		90		11-114	20		50
2,4-Dinitrophenol	52		34		4-130	42		50
4,6-Dinitro-o-cresol	92		77		10-130	18		50
Pentachlorophenol	96		79		17-109	19		50
Phenol	**98**	Q	88		26-90	11		50
2-Methylphenol	97		87		30-130.	11		50
3-Methylphenol/4-Methylphenol	100		87		30-130	14		50
2,4,5-Trichlorophenol	105		90		30-130	15		50
Carbazole	99		86		54-128	14		50
Atrazine	104		92		40-140	12		50
Benzaldehyde	86		81		40-140	6		50
Caprolactam	119		96		15-130	21		50
2,3,4,6-Tetrachlorophenol	98		84		40-140	15		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE

Project Number: 17-7652

Lab Number: L1740211

Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1059081-2 WG1059081-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	93		85		25-120
Phenol-d6	94		86		10-120
Nitrobenzene-d5	87		81		23-120
2-Fluorobiphenyl	89		78		30-120
2,4,6-Tribromophenol	103		87		10-136
4-Terphenyl-d14	99		81		18-120

PCBS

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-01
Client ID: GP-A_04.0-08.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/17 15:50
Analyst: WR
Percent Solids: 85%

Date Collected: 11/02/17 09:10
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:39
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/17
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.8	4.40	1	A
Aroclor 1221	ND		ug/kg	38.8	5.90	1	A
Aroclor 1232	ND		ug/kg	38.8	3.82	1	A
Aroclor 1242	ND		ug/kg	38.8	4.75	1	A
Aroclor 1248	ND		ug/kg	38.8	4.35	1	A
Aroclor 1254	ND		ug/kg	38.8	3.16	1	A
Aroclor 1260	ND		ug/kg	38.8	4.05	1	A
Aroclor 1262	ND		ug/kg	38.8	3.19	1	A
Aroclor 1268	ND		ug/kg	38.8	2.74	1	A
PCBs, Total	ND		ug/kg	38.8	2.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-02
Client ID: GP-B_03.0-04.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/17 16:02
Analyst: WR
Percent Solids: 81%

Date Collected: 11/02/17 10:00
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:39
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/17
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.4	4.47	1	A
Aroclor 1221	ND		ug/kg	39.4	6.00	1	A
Aroclor 1232	ND		ug/kg	39.4	3.88	1	A
Aroclor 1242	ND		ug/kg	39.4	4.83	1	A
Aroclor 1248	ND		ug/kg	39.4	4.42	1	A
Aroclor 1254	ND		ug/kg	39.4	3.22	1	A
Aroclor 1260	ND		ug/kg	39.4	4.12	1	A
Aroclor 1262	ND		ug/kg	39.4	3.24	1	A
Aroclor 1268	5.52	J	ug/kg	39.4	2.79	1	B
PCBs, Total	5.52	J	ug/kg	39.4	2.79	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-03
Client ID: GP-C_06.0-08.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/17 16:15
Analyst: WR
Percent Solids: 62%

Date Collected: 11/02/17 11:00
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:39
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/17
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.3	5.93	1	A
Aroclor 1221	ND		ug/kg	52.3	7.96	1	A
Aroclor 1232	ND		ug/kg	52.3	5.14	1	A
Aroclor 1242	ND		ug/kg	52.3	6.40	1	A
Aroclor 1248	ND		ug/kg	52.3	5.87	1	A
Aroclor 1254	ND		ug/kg	52.3	4.27	1	A
Aroclor 1260	58.0		ug/kg	52.3	5.46	1	B
Aroclor 1262	ND		ug/kg	52.3	4.30	1	A
Aroclor 1268	ND		ug/kg	52.3	3.70	1	A
PCBs, Total	58.0		ug/kg	52.3	3.70	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-04
Client ID: GP-D_03.0-04.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/17 15:09
Analyst: WR
Percent Solids: 95%

Date Collected: 11/02/17 12:00
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:39
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/17
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	3.79	1	A
Aroclor 1221	ND		ug/kg	33.4	5.09	1	A
Aroclor 1232	ND		ug/kg	33.4	3.29	1	A
Aroclor 1242	ND		ug/kg	33.4	4.09	1	A
Aroclor 1248	ND		ug/kg	33.4	3.75	1	A
Aroclor 1254	ND		ug/kg	33.4	2.73	1	A
Aroclor 1260	5.39	J	ug/kg	33.4	3.49	1	B
Aroclor 1262	ND		ug/kg	33.4	2.75	1	A
Aroclor 1268	ND		ug/kg	33.4	2.36	1	A
PCBs, Total	5.39	J	ug/kg	33.4	2.36	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-05
Client ID: GP-E_00.0-02.0
Sample Location: COHOES, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/17 15:23
Analyst: WR
Percent Solids: 91%

Date Collected: 11/02/17 16:30
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:39
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/17
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	4.12	1	A
Aroclor 1221	ND		ug/kg	36.4	5.53	1	A
Aroclor 1232	ND		ug/kg	36.4	3.58	1	A
Aroclor 1242	ND		ug/kg	36.4	4.45	1	A
Aroclor 1248	ND		ug/kg	36.4	4.08	1	A
Aroclor 1254	ND		ug/kg	36.4	2.97	1	A
Aroclor 1260	ND		ug/kg	36.4	3.80	1	A
Aroclor 1262	ND		ug/kg	36.4	2.99	1	A
Aroclor 1268	ND		ug/kg	36.4	2.57	1	A
PCBs, Total	ND		ug/kg	36.4	2.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/03/17 14:23
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 11/03/17 03:39
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/17
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1059169-1						
Aroclor 1016	ND		ug/kg	32.2	3.65	A
Aroclor 1221	ND		ug/kg	32.2	4.89	A
Aroclor 1232	ND		ug/kg	32.2	3.16	A
Aroclor 1242	ND		ug/kg	32.2	3.94	A
Aroclor 1248	ND		ug/kg	32.2	3.61	A
Aroclor 1254	ND		ug/kg	32.2	2.62	A
Aroclor 1260	ND		ug/kg	32.2	3.36	A
Aroclor 1262	ND		ug/kg	32.2	2.64	A
Aroclor 1268	ND		ug/kg	32.2	2.28	A
PCBs, Total	ND		ug/kg	32.2	2.28	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE

Project Number: 17-7652

Lab Number: L1740211

Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1059169-2 WG1059169-3									
Aroclor 1016	70		73		40-140	4		50	A
Aroclor 1260	65		69		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		72		30-150	A
Decachlorobiphenyl	56		60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	B
Decachlorobiphenyl	61		65		30-150	B

METALS

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-01
Client ID: GP-A_04.0-08.0
Sample Location: COHOES, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 11/02/17 09:10
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5760		mg/kg	9.04	2.44	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Antimony, Total	6.08		mg/kg	4.52	0.343	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Arsenic, Total	27.7		mg/kg	0.904	0.188	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Barium, Total	31.3		mg/kg	0.904	0.157	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Beryllium, Total	0.190	J	mg/kg	0.452	0.030	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Cadmium, Total	9.79		mg/kg	0.904	0.089	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Calcium, Total	11200		mg/kg	9.04	3.16	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Chromium, Total	145		mg/kg	0.904	0.087	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Cobalt, Total	22.8		mg/kg	1.81	0.150	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Copper, Total	233		mg/kg	0.904	0.233	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Iron, Total	251000		mg/kg	45.2	8.16	20	11/03/17 07:15	11/03/17 13:37	EPA 3050B	1,6010C	PS
Lead, Total	139		mg/kg	4.52	0.242	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Magnesium, Total	5180		mg/kg	9.04	1.39	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Manganese, Total	1600		mg/kg	0.904	0.144	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Mercury, Total	0.12		mg/kg	0.07	0.02	1	11/03/17 08:00	11/03/17 11:25	EPA 7471B	1,7471B	BV
Nickel, Total	128		mg/kg	2.26	0.219	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Potassium, Total	453		mg/kg	226	13.0	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.81	0.233	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Silver, Total	0.615	J	mg/kg	0.904	0.256	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Sodium, Total	90.8	J	mg/kg	181	2.85	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Thallium, Total	1.47	J	mg/kg	1.81	0.285	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Vanadium, Total	38.2		mg/kg	0.904	0.183	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS
Zinc, Total	47.8		mg/kg	4.52	0.265	2	11/03/17 07:15	11/03/17 13:33	EPA 3050B	1,6010C	PS

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-02
Client ID: GP-B_03.0-04.0
Sample Location: COHOES, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 11/02/17 10:00
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6780		mg/kg	9.67	2.61	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.83	0.367	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Arsenic, Total	21.4		mg/kg	0.967	0.201	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Barium, Total	81.8		mg/kg	0.967	0.168	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Beryllium, Total	0.319	J	mg/kg	0.483	0.032	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Cadmium, Total	5.73		mg/kg	0.967	0.095	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Calcium, Total	8010		mg/kg	9.67	3.38	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Chromium, Total	74.8		mg/kg	0.967	0.093	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Cobalt, Total	14.8		mg/kg	1.93	0.160	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Copper, Total	162		mg/kg	0.967	0.249	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Iron, Total	157000		mg/kg	48.3	8.73	20	11/03/17 07:15	11/03/17 13:42	EPA 3050B	1,6010C	PS
Lead, Total	140		mg/kg	4.83	0.259	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Magnesium, Total	4450		mg/kg	9.67	1.49	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Manganese, Total	906		mg/kg	0.967	0.154	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Mercury, Total	0.28		mg/kg	0.08	0.02	1	11/03/17 08:00	11/03/17 11:32	EPA 7471B	1,7471B	BV
Nickel, Total	56.9		mg/kg	2.42	0.234	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Potassium, Total	648		mg/kg	242	13.9	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.93	0.249	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Silver, Total	0.561	J	mg/kg	0.967	0.274	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Sodium, Total	115	J	mg/kg	193	3.04	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Thallium, Total	0.860	J	mg/kg	1.93	0.304	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Vanadium, Total	29.6		mg/kg	0.967	0.196	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Zinc, Total	119		mg/kg	4.83	0.283	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-03
Client ID: GP-C_06.0-08.0
Sample Location: COHOES, NY
Matrix: Soil
Percent Solids: 62%

Date Collected: 11/02/17 11:00
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5480		mg/kg	12.1	3.28	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	6.07	0.461	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Arsenic, Total	21.4		mg/kg	1.21	0.252	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Barium, Total	91.3		mg/kg	1.21	0.211	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Beryllium, Total	0.655		mg/kg	0.607	0.040	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Cadmium, Total	0.898	J	mg/kg	1.21	0.119	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Calcium, Total	4890		mg/kg	12.1	4.25	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Chromium, Total	11.5		mg/kg	1.21	0.116	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Cobalt, Total	5.84		mg/kg	2.43	0.201	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Copper, Total	74.9		mg/kg	1.21	0.313	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Iron, Total	9210		mg/kg	6.07	1.10	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Lead, Total	152		mg/kg	6.07	0.325	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Magnesium, Total	1090		mg/kg	12.1	1.87	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Manganese, Total	108		mg/kg	1.21	0.193	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Mercury, Total	ND		mg/kg	0.10	0.02	1	11/03/17 08:00	11/03/17 11:34	EPA 7471B	1,7471B	BV
Nickel, Total	17.0		mg/kg	3.03	0.294	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Potassium, Total	474		mg/kg	303	17.5	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Selenium, Total	1.20	J	mg/kg	2.43	0.313	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	1.21	0.343	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Sodium, Total	228	J	mg/kg	243	3.82	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	2.43	0.382	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Vanadium, Total	28.3		mg/kg	1.21	0.246	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS
Zinc, Total	86.5		mg/kg	6.07	0.356	2	11/03/17 07:15	11/03/17 13:29	EPA 3050B	1,6010C	PS

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-04
Client ID: GP-D_03.0-04.0
Sample Location: COHOES, NY
Matrix: Soil
Percent Solids: 95%

Date Collected: 11/02/17 12:00
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7200		mg/kg	7.97	2.15	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Antimony, Total	3.38	J	mg/kg	3.99	0.303	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Arsenic, Total	5.80		mg/kg	0.797	0.166	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Barium, Total	81.5		mg/kg	0.797	0.139	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Beryllium, Total	0.407		mg/kg	0.399	0.026	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Cadmium, Total	0.510	J	mg/kg	0.797	0.078	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Calcium, Total	25000		mg/kg	7.97	2.79	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Chromium, Total	12.2		mg/kg	0.797	0.077	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Cobalt, Total	7.45		mg/kg	1.59	0.132	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Copper, Total	1080		mg/kg	0.797	0.206	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Iron, Total	18100		mg/kg	3.99	0.720	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Lead, Total	150		mg/kg	3.99	0.214	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Magnesium, Total	12900		mg/kg	7.97	1.23	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Manganese, Total	486		mg/kg	0.797	0.127	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Mercury, Total	0.05	J	mg/kg	0.07	0.01	1	11/03/17 08:00	11/03/17 11:35	EPA 7471B	1,7471B	BV
Nickel, Total	17.4		mg/kg	1.99	0.193	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Potassium, Total	797		mg/kg	199	11.5	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Selenium, Total	0.343	J	mg/kg	1.59	0.206	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.797	0.226	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Sodium, Total	186		mg/kg	159	2.51	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Thallium, Total	0.287	J	mg/kg	1.59	0.251	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Vanadium, Total	33.5		mg/kg	0.797	0.162	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS
Zinc, Total	109		mg/kg	3.99	0.234	2	11/03/17 07:15	11/03/17 13:24	EPA 3050B	1,6010C	PS

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-05
Client ID: GP-E_00.0-02.0
Sample Location: COHOES, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 11/02/17 16:30
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8710		mg/kg	8.53	2.30	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.26	0.324	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Arsenic, Total	4.20		mg/kg	0.853	0.177	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Barium, Total	86.0		mg/kg	0.853	0.148	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Beryllium, Total	0.512		mg/kg	0.426	0.028	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Cadmium, Total	0.444	J	mg/kg	0.853	0.084	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Calcium, Total	8740		mg/kg	8.53	2.98	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Chromium, Total	12.2		mg/kg	0.853	0.082	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Cobalt, Total	7.90		mg/kg	1.71	0.142	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Copper, Total	27.0		mg/kg	0.853	0.220	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Iron, Total	19100		mg/kg	4.26	0.770	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Lead, Total	25.5		mg/kg	4.26	0.229	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Magnesium, Total	4550		mg/kg	8.53	1.31	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Manganese, Total	336		mg/kg	0.853	0.136	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Mercury, Total	0.14		mg/kg	0.07	0.01	1	11/03/17 08:00	11/03/17 11:37	EPA 7471B	1,7471B	BV
Nickel, Total	15.8		mg/kg	2.13	0.206	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Potassium, Total	699		mg/kg	213	12.3	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Selenium, Total	0.222	J	mg/kg	1.71	0.220	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.853	0.241	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Sodium, Total	66.9	J	mg/kg	171	2.69	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.71	0.269	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Vanadium, Total	18.7		mg/kg	0.853	0.173	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS
Zinc, Total	62.0		mg/kg	4.26	0.250	2	11/03/17 07:15	11/03/17 13:28	EPA 3050B	1,6010C	PS

Project Name: COHOES/SARATOGA RD. SITE **Lab Number:** L1740211

Project Number: 17-7652 **Report Date:** 11/03/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1059200-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Barium, Total	ND		mg/kg	0.400	0.070	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Copper, Total	ND		mg/kg	0.400	0.103	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Iron, Total	0.868	J	mg/kg	2.00	0.361	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Manganese, Total	0.104	J	mg/kg	0.400	0.064	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Potassium, Total	ND		mg/kg	100	5.76	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Silver, Total	ND		mg/kg	0.400	0.113	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Sodium, Total	1.56	J	mg/kg	80.0	1.26	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/03/17 07:15	11/03/17 10:00	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1059201-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	11/03/17 08:00	11/03/17 11:22	1,7471B	BV

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE

Project Number: 17-7652

Lab Number: L1740211

Report Date: 11/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1059200-2 SRM Lot Number: D098-540								
Aluminum, Total	92		-		47-153	-		
Antimony, Total	172		-		6-194	-		
Arsenic, Total	111		-		83-117	-		
Barium, Total	101		-		82-118	-		
Beryllium, Total	105		-		83-117	-		
Cadmium, Total	103		-		82-117	-		
Calcium, Total	101		-		81-118	-		
Chromium, Total	109		-		83-119	-		
Cobalt, Total	106		-		84-116	-		
Copper, Total	108		-		84-116	-		
Iron, Total	116		-		60-140	-		
Lead, Total	105		-		82-117	-		
Magnesium, Total	90		-		76-124	-		
Manganese, Total	99		-		82-118	-		
Nickel, Total	105		-		82-117	-		
Potassium, Total	99		-		69-131	-		
Selenium, Total	108		-		78-121	-		
Silver, Total	108		-		80-120	-		
Sodium, Total	106		-		74-126	-		
Thallium, Total	110		-		80-119	-		
Vanadium, Total	106		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE

Project Number: 17-7652

Lab Number: L1740211

Report Date: 11/03/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1059200-2 SRM Lot Number: D098-540					
Zinc, Total	102	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1059201-2 SRM Lot Number: D098-540					
Mercury, Total	94	-	50-149	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1059200-3 QC Sample: L1740153-01 Client ID: MS Sample												
Aluminum, Total	4900	164	5600	**428**	Q	-	-		75-125	-		20
Antimony, Total	ND	40.9	40.8	100		-	-		75-125	-		20
Arsenic, Total	1.70	9.82	11.7	102		-	-		75-125	-		20
Barium, Total	1240	164	1860	**379**	Q	-	-		75-125	-		20
Beryllium, Total	0.096J	4.09	3.99	98		-	-		75-125	-		20
Cadmium, Total	0.291J	4.17	4.49	108		-	-		75-125	-		20
Calcium, Total	247.	818	1100	104		-	-		75-125	-		20
Chromium, Total	119.	16.4	136	104		-	-		75-125	-		20
Cobalt, Total	0.864	40.9	39.0	93		-	-		75-125	-		20
Copper, Total	241.	20.4	269	**137**	Q	-	-		75-125	-		20
Iron, Total	5980	81.8	6300	**391**	Q	-	-		75-125	-		20
Lead, Total	549.	41.7	586	89		-	-		75-125	-		20
Magnesium, Total	288.	818	1060	94		-	-		75-125	-		20
Manganese, Total	24.2	40.9	62.8	94		-	-		75-125	-		20
Nickel, Total	4.08	40.9	42.2	93		-	-		75-125	-		20
Potassium, Total	134.	818	992	105		-	-		75-125	-		20
Selenium, Total	0.323J	9.82	9.85	100		-	-		75-125	-		20
Silver, Total	ND	24.5	23.6	96		-	-		75-125	-		20
Sodium, Total	13.4J	818	878	107		-	-		75-125	-		20
Thallium, Total	ND	9.82	9.31	95		-	-		75-125	-		20
Vanadium, Total	8.07	40.9	48.7	99		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1059200-3 QC Sample: L1740153-01 Client ID: MS Sample										
Zinc, Total	534.	40.9	626	**225**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1059201-3 QC Sample: L1740211-01 Client ID: GP-A_04.0-08.0										
Mercury, Total	0.12	0.148	0.24	81		-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1059200-4 QC Sample: L1740153-01 Client ID: DUP Sample						
Chromium, Total	119.	109	mg/kg	9		20
Copper, Total	241.	258	mg/kg	7		20
Lead, Total	549.	515	mg/kg	6		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1059200-4 QC Sample: L1740153-01 Client ID: DUP Sample						
Barium, Total	1240	1000	mg/kg	**21**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1059201-4 QC Sample: L1740211-01 Client ID: GP-A_04.0-08.0						
Mercury, Total	0.12	0.07J	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-01
Client ID: GP-A_04.0-08.0
Sample Location: COHOES, NY
Matrix: Soil
Date Collected: 11/02/17 09:10
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	11/03/17 03:37	121,2540G	SH

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-02
Client ID: GP-B_03.0-04.0
Sample Location: COHOES, NY
Matrix: Soil
Date Collected: 11/02/17 10:00
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	11/03/17 03:37	121,2540G	SH

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-03
Client ID: GP-C_06.0-08.0
Sample Location: COHOES, NY
Matrix: Soil
Date Collected: 11/02/17 11:00
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.9		%	0.100	NA	1	-	11/03/17 03:37	121,2540G	SH

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-04
Client ID: GP-D_03.0-04.0
Sample Location: COHOES, NY
Matrix: Soil
Date Collected: 11/02/17 12:00
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	11/03/17 03:37	121,2540G	SH

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652
Lab Number: L1740211
Report Date: 11/03/17

SAMPLE RESULTS

Lab ID: L1740211-05
Client ID: GP-E_00.0-02.0
Sample Location: COHOES, NY
Matrix: Soil
Date Collected: 11/02/17 16:30
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	11/03/17 03:37	121,2540G	SH

Lab Duplicate Analysis
Batch Quality Control

Project Name: COHOES/SARATOGA RD. SITE
Project Number: 17-7652

Lab Number: L1740211
Report Date: 11/03/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1059166-1 QC Sample: L1740021-01 Client ID: DUP Sample						
Solids, Total	90.0	90.1	%	0		20

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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(*)
L1740211-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1740211-01B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)
L1740211-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1740211-02B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)
L1740211-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1740211-03B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)
L1740211-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1740211-04B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)
L1740211-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1740211-05B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

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

Footnotes

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

Terms

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.

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.

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 Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	COHOES/SARATOGA RD. SITE	**Lab Number:**	L1740211
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Data Qualifiers

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.

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

L1790211

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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8 Walkup Dr.
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FAX: 508-898-9193

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320 Forbes Blvd
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FAX: 508-822-3288

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

Page: 1 of 1

Date Rec'd in Lab: 11/3/17

ALPHA Job #: ~~L1790211~~ 11/3/17

Client Information

Client: C.T. Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518 786 7400
Fax:
Email: S.Bieber@ctmale.com

Project Information

Project Name: ~~Saratoga Road Cohoes/Waterford Rd Site~~
Project Location: Cohoes, NY Cohoes/Saratoga Rd site
Project #: 17.7652
(Use Project name as Project #) ☐
Project Manager: Steve Bieber
ALPHAQuote #:

Turn-Around Time

Standard ☐
Rush (only if pre approved) ☒
Due Date: * 24 hour *
# 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	TCL SVOCs	PCBs	TAL Metals	Total Bottle	Sample Specific Comments
L1790211-01	GP-A_04.0-08.0	11/2/17	0910	Soil	DA	X	X	X	2	
-02	GP-B_03.0-04.0		1000	Soil	DA	X	X	X	2	
-03	GP-C_06.0-08.0		1100	Soil	DA	X	X	X	2	
-04	GP-D_03.0-04.0		1200	Soil	DA	X	X	X	2	
-05	GP-E_00.0-02.0		1630	Soil	DA	X	X	X	2	

Container Type: A A
Preservative: - -

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
	11/2/17 1710	AAL	11-2-17 17:10
	11-2-17 17:10		11/3/17 01:20

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)