AEI Consultants

August 28, 2018

LIMITED PHASE II SUBSURFACE INVESTIGATION REPORT

Property Identification:
127 Pearl Street
Port Chester, New York 10573

AEI Project No. 391628

Prepared for:
Shorewood Properties, LLC
201 West 17th Street, Apartment 3D
New York, New York 10011

Prepared by:
AEI Consultants
30 Montgomery Street, Suite 220
Jersey City, New Jersey 07302

Environmental Due Diligence

Site Investigation & Remediation

Energy Performance & Benchmarking

Industrial Hygiene

Construction Consulting

Construction, Site Stabilization & Stormwater Services

Zoning Analysis Reports & ALTA Surveys

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August 28, 2018

Mr. Ryan Shore
Shorewood Properties, LLC
201 West 17th Street, Apartment 3D
New York, New York 10011

Subject: **Limited Phase II Subsurface Investigation**
127 Pearl Street
Port Chester, New York 10573
AEI Project No. 391628

AEI Consultants (AEI) is pleased to provide this report which describes the activities and results of the Limited Phase II Subsurface Investigation (Phase II) performed at the above-referenced property, hereinafter referred to as the "Site". This investigation was completed in general accordance with the authorized scope of services outlined in our proposal number 59469 dated August 1, 2018.

1.0 SITE DESCRIPTION

The Site is located in an urban, mixed use area of Port Chester, New York consisting of residential, retail, commercial and light industrial properties on the Southeast side of Pearl Street and northwest side of New Broad Street. The Site is located south of Pearl Street and is developed with two buildings. The property was reportedly developed with these improvements in 1934 and 1950.

According to information obtained from the United States Geological Survey (USGS), the area surrounding the Site is underlain by Sedimentary deposits of the Mesozoic era. Based on a review of the United States Department of Agriculture (USDA) Soil Survey, the majority of the soils in the vicinity of the Site are classified as Urban Land. The Urban Land designation indicates that more than 85 percent of the original soils have been disturbed or covered by paved surfaces, buildings, or other structures. Due to the variability of the soil material, onsite investigation would be required to determine the specific soil composition at the Site.

Refer to Section 4.2 below for additional information on the Site geology and groundwater conditions.

2.0 BACKGROUND

A Phase I Environmental Site Assessment (ESA) was performed by AEI as described in our report dated July 31, 2018 (AEI Project Number 391628). As detailed in the Phase I ESA, the following Recognized Environmental Condition (REC) was identified at the Site:

- A vent pipe and fill port characteristic of an underground storage tank (UST) were observed on the southeastern exterior side of the mixed-use building at 127 Pearl Street. According to the property owner, the UST was formerly utilized for heating oil.

The UST has been out of service since the Site building was connected to natural gas in 2004. No information regarding the date of installation or size of the UST was found at regulatory agencies or identified during interviews. Based on the lack of information regarding the UST closure, it is possible that a release of heating oil from the UST has resulted in an impact to the subsurface of the Site. Based on this information, the out-of-use UST on the Site represents an REC.

3.0 INVESTIGATION EFFORTS

Based on the above findings, AEI was retained by Shorewood Properties, LLC ("Client") to perform an investigation to evaluate the subsurface for evidence of a UST and impacts associated with the possible UST.

3.1 Health and Safety Plan

A Site-specific health and safety plan was prepared and kept onsite for the duration of the fieldwork.

3.2 Permitting and Utility Clearance

Drilling permits were not required for this investigation. New York 811 was contacted to provide a mark out of public utilities servicing the Site. Delta Geophysics Inc. ("Delta") of Catasauqua, Pennsylvania provided geophysical services to investigate the presence, or absence, of a UST and to survey the areas of the potential boring locations to investigate potential underground hazards.

3.3 Geophysical Survey

On August 14, 2018, a geophysical survey was conducted by Delta. The purpose of the survey was to identify the presence, or absence, of a UST and to clear boring locations to evaluate the presence of underground structures, including utilities, disturbed soils, and/or cavities, using ground penetrating radar (GPR) and other geophysical methods.

3.4 Drilling and Soil Sample Collection

On August 14, 2018, three (3) soil borings (SB-1, SB-2, and SB-3) were advanced at the Site. The borings were advanced by Core Down Drilling LLC ("Core Down") of Brewster, New York using a direct-push drill rig (Geoprobe®). The location and depth of each boring is listed below:

- Boring SB-1 was advanced to 15 feet below ground surface (bgs) to the southwest of the former UST. One soil sample was collected within the 9.5-10-foot bgs depth interval.
- Boring SB-2 was advanced to 15 feet bgs to the southeast of the former UST. One soil sample was collected within the 9.5-10-foot bgs depth interval. This boring location was also converted into a temporary well point for the collection of a groundwater sample (SB-2).
- Boring SB-3 was advanced to 15 feet bgs to the northeast of the former UST. One soil sample was collected within the 9.5-10-foot bgs depth interval.

Each boring was installed for the purpose of soil sample collection with the possibility of a temporary well point for groundwater sampling based on field screening results and groundwater flow direction. One (1) temporary well point was installed at boring location SB-2

for the collection of a groundwater sample (SB-1). Depth to groundwater was observed at approximately 12-13 feet bgs.

The borings were advanced using 2.25-inch outer diameter Macro-Core® samplers (rods), and samples were collected continuously by advancing the five-foot-long rods equipped with acetate sample liners. After each interval, the core was retrieved, core barrel disassembled, and the sample liner was removed and transferred to the onsite geologist. The target depth of 15 feet bgs was achieved at all boring locations.

The soil borings were logged using the Unified Soil Classification System. A photo ionization detector (PID) was used to screen soil samples in the field and the PID readings for each sample were recorded on the boring logs (Appendix A). Since no PID readings above background concentrations were detected and no staining/odors were observed, soil samples were collected from each boring location at a depth of 9.5-10 feet bgs, the likely depth of the invert of the former UST. The samples were then transferred into laboratory supplied glassware, and placed into a cooler containing ice.

3.5 Groundwater Sample Collection

On August 14, 2018, groundwater was sampled from a temporary well point installed at boring location SB-2. Groundwater was observed at approximately 12-13 feet bgs. The temporary well point was installed by using a PVC well screen inserted into the borehole. The groundwater sample was collected using a peristaltic pump and transferred into properly preserved laboratory-supplied bottles.

3.6 Boring Abandonment

Following completion of sample collection and removal of tooling, the borings were backfilled with drill cuttings and hydrated bentonite chips and completed at the surface with concrete patch to match surrounding conditions.

3.7 Laboratory Analyses

The soil and groundwater samples were labeled, placed in a cooler with ice for preservation, packaged, and transferred under appropriate chain-of-custody documentation to Alpha Analytical Laboratories (Alpha) of Westborough, Massachusetts. Laboratory analytical documentation is provided in Appendix B. The samples were analyzed as follows:

- Soil samples SB-1 and SB-3 were analyzed for New York Commissioner Policy (CP)-51 Fuel Oil Contaminant List Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compound (SVOC) Base/Neutral Extractable Compounds (B/Ns)
- Groundwater sample SB-2 was analyzed for New York CP-51 Fuel Oil Contaminant List VOCs and SVOC B/Ns

The remaining soil sample from SB-2 was placed “on hold” at the laboratory for potential analysis of New York CP-51 Fuel Oil Contaminant List VOCs and SVOC B/Ns pending the initial soil and groundwater results.

3.8 Investigation Derived Wastes

No investigation derived waste was created during this investigation.

4.0 FINDINGS

For the purpose of providing context to the data obtained during this investigation, analytical results are compared to available regulatory screening levels. The New York State Department of Environmental Conservation (NYSDEC) has the responsibility for overseeing environmental cleanups which are managed under a variety of different regulatory programs. The results of this investigation were reviewed along with the NYSDEC CP-51 Soil Cleanup Levels for soil, New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Commercial Criteria for soil, NYCRR Part 375 Unrestricted Use Criteria for soil, and New York Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) Criteria for groundwater.

4.1 Geophysical Survey

The results of the geophysical survey revealed an anomaly consistent with that of a UST located to the rear of the northwestern onsite building (**Figure 1**). Additionally, the survey indicated no underground utilities were identified in the vicinity of the boring locations. As such, the boring locations were cleared of subsurface hazards.

The Client should be aware of the inherent limitations of geophysical surveying methods and that above and underground utilities and other man-made or natural features (i.e. automobiles, debris piles, tree roots, reinforced concrete, certain soil conditions, etc.), if in the area of the survey, may decrease the effectiveness of the survey. The Client should be aware that the lack of a detection of a feature from a geophysical survey does not mean that the feature does not exist only that it was not detected.

4.2 Geology and Hydrogeology

Material encountered in each of the borings generally consisted of brown fine sand (Appendix A). No odors, staining, or elevated PID readings were observed in any of the borings advanced at the Site. Since no evidence of contamination was observed during field screening, soil samples were collected for laboratory analysis from the 9.5-10-foot bgs depth interval, which is the estimated invert of the former UST.

Groundwater was encountered at approximately 12-13 feet bgs at boring location SB-2.

4.3 Soil Sample Analytical Results

The following information is a summary of the soil sample analytical test results (Appendix B). This information has also been included in Table 1**.**

- No VOCs or SVOC B/Ns were detected in the soil samples analyzed (SB-1 and SB-3) above their respective laboratory method detection limits (MDLs). Additionally, the soil results were below the Unrestricted Use Criteria for soil, the most stringent of the NYSDEC soil cleanup objectives (SCOs).

Based on the absence of impacts in the two soil samples analyzed, analysis of the remaining soil sample (SB-2) placed “on hold” was not warranted.

4.4 Groundwater Sample Analytical Results

The following information is a summary of the groundwater sample analytical test results (Appendix B). This information has also been included in Table 2.

- No SVOC B/Ns were detected in the groundwater sample analyzed (SB-2) above their respective laboratory MDLs.
- With the exception of naphthalene, no VOCs were detected in the groundwater sample analyzed (SB-2) above their respective laboratory MDLs. Naphthalene was detected at a concentration of 0.07 micrograms per liter (ug/L), which is below the NYSDEC AWQS of 10 ug/L for naphthalene.

Based on the absence of VOCs and SVOC B/Ns in exceedance of the applicable NYSDEC AWQS in the groundwater sample analyzed, analysis of the soil sample placed “on hold” was not warranted.

5.0 SUMMARY AND CONCLUSIONS

AEI has completed a limited Phase II investigation at the Site that including a geophysical survey and the collection of soil and groundwater samples to evaluate the subsurface for evidence of a UST and impacts associated with the possible UST. A total of three (3) borings were advanced at the Site for the collection of soil samples. One (1) temporary well point was installed at boring location SB-2 for the collection of a groundwater sample.

The geophysical investigation identified an anomalous area consistent with that of a UST. The field screening results indicated no odors, staining, or elevated PID readings in the three borings advanced at the Site.

The soil and groundwater results indicated no detections of VOCs or SVOC B/Ns above the NYSDEC soil cleanup levels or AWQS in any of the samples analyzed.

Based on the above findings, AEI recommends no further investigation at this time.

6.0 REPORT LIMITATIONS AND RELIANCE

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of Site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the Site. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

This investigation was prepared for the sole use and benefit of Shorewood Properties, LLC. All reports, both verbal and written, whether in draft or final, are for the benefit of Shorewood Properties, LLC. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Shorewood Properties, LLC. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

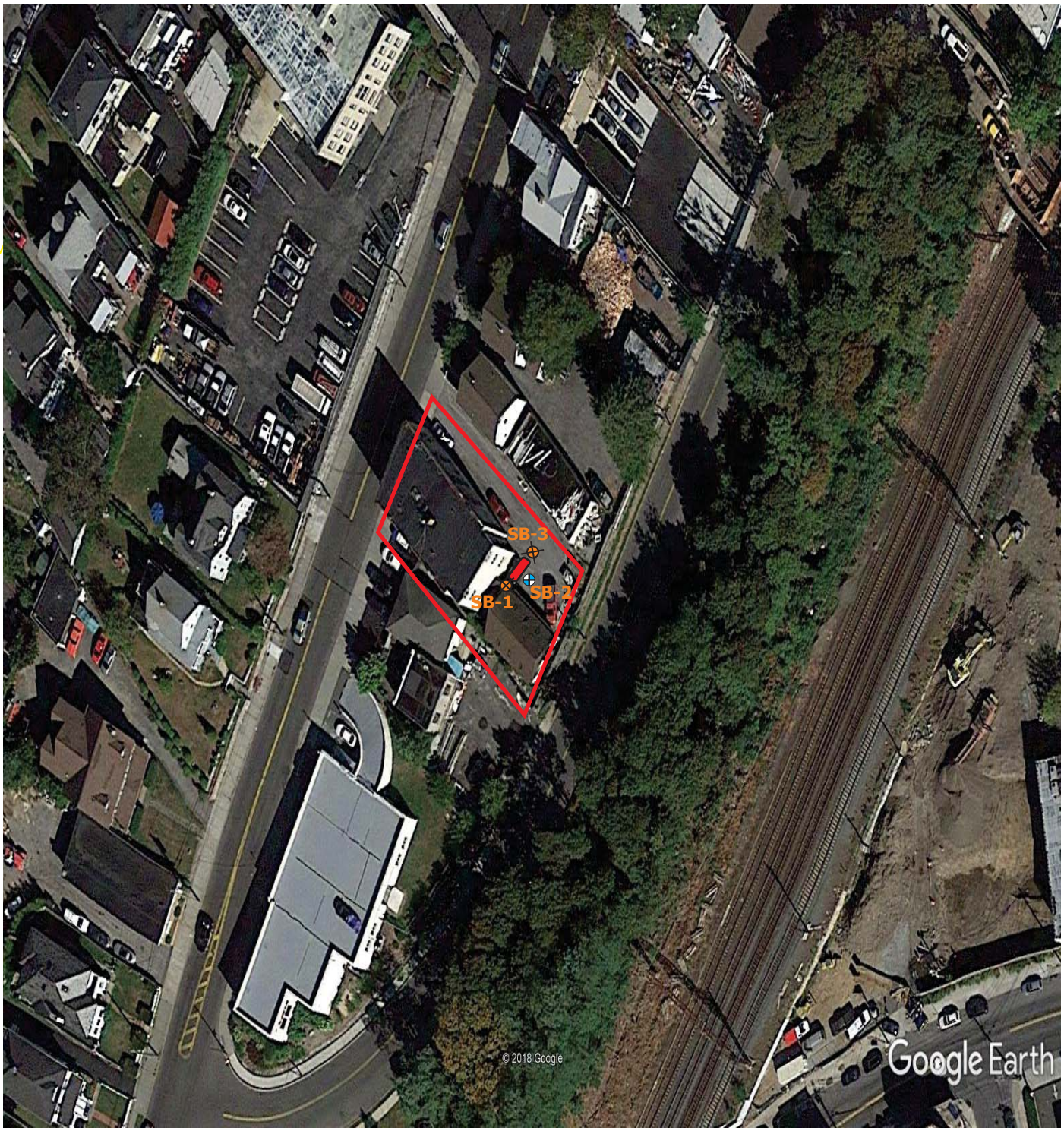
If there are any questions regarding our investigation, please do not hesitate to contact AEI at (732) 414-2720.

Sincerely,
AEI Consultants

Joseph Maggiulli
Project Scientist

Anthony Cauterucci, CHMM
Senior Author

FIGURES



Legend

Approximate Property Boundary

Out-of-Use Heating Oil UST

Soil Boring/Temp Well

Soil Boring

N

Figure 1: SAMPLE LOCATION MAP

127 Pearl Street, Port Chester, New York 10573
Project Number: 391628

AEI Consultants

TABLES

Table 1: Soil Sample Analytical Summary
123,125,127 Pearl Street, Port Chester, NY
AEI Project Number: 391628

LOCATION					SB-1		SB-3	
SAMPLING DATE					8/14/2018		8/14/2018	
SAMPLE TYPE					SOIL		SOIL	
SAMPLE DEPTH (ft.)					9.5-10.0		9.5-10.0	
	NY-RESC	NY-RESR	NY-UNRES	Units	Results	Qual	Results	Qual
General Chemistry								
Solids, Total				%	91.7		91.1	
Semivolatile Organics by GC/MS								
Acenaphthene	500	100	20	mg/kg	ND		ND	
Acenaphthylene	500	100	100	mg/kg	ND		ND	
Anthracene	500	100	100	mg/kg	ND		ND	
Benzo(a)anthracene	5.6	1	1	mg/kg	ND		ND	
Benzo(a)pyrene	1	1	1	mg/kg	ND		ND	
Benzo(b)fluoranthene	5.6	1	1	mg/kg	ND		ND	
Benzo(ghi)perylene	500	100	100	mg/kg	ND		ND	
Benzo(k)fluoranthene	56	1	0.8	mg/kg	ND		ND	
Chrysene	56	1	1	mg/kg	ND		ND	
Dibenzo(a,h)anthracene	0.56	0.33	0.33	mg/kg	ND		ND	
Fluoranthene	500	100	100	mg/kg	ND		ND	
Fluorene	500	100	30	mg/kg	ND		ND	
Indeno(1,2,3-cd)pyrene	5.6	0.5	0.5	mg/kg	ND		ND	
Naphthalene	500	100	12	mg/kg	ND		ND	
Phenanthrene	500	100	100	mg/kg	ND		ND	
Pyrene	500	100	100	mg/kg	ND		ND	
Volatile Organics by 8260/5036								
1,2,4-Trimethylbenzene	190	47	3.6	mg/kg	ND		ND	
1,3,5-Trimethylbenzene	190	47	8.4	mg/kg	ND		ND	
Benzene	44	2.9	0.06	mg/kg	ND		ND	
Ethylbenzene	390	30	1	mg/kg	ND		ND	
Isopropylbenzene				mg/kg	ND		ND	
Methyl tert butyl ether	500	62	0.93	mg/kg	ND		ND	
n-Butylbenzene	500	100	12	mg/kg	ND		ND	
n-Propylbenzene	500	100	3.9	mg/kg	ND		ND	
Naphthalene	500	100	12	mg/kg	ND		ND	
o-Xylene				mg/kg	ND		ND	
p-Isopropyltoluene				mg/kg	ND		ND	
p/m-Xylene				mg/kg	ND		ND	
sec-Butylbenzene	500	100	11	mg/kg	ND		ND	
tert-Butylbenzene	500	100	5.9	mg/kg	ND		ND	
Toluene	500	100	0.7	mg/kg	ND		ND	
Xylenes, Total	500	100	0.26	mg/kg	ND		ND	

ND= Non Detect
mg/kg = Milligrams per kilogram
NY-RESC: New York NYCRR Part 375 Commercial Criteria, New Restricted use
NY-RESR: New York NYCRR Part 375 Residential Criteria, Restricted use
NY-UNRES: New York NYCRR Part 375 Unrestricted use

Table 2: Groundwater Sample Analytical Summary
123,125,127 Pearl Street, Port Chester, NY
AEI Project Number: 391628

LOCATION			**SB-2**	
SAMPLING DATE			**8/14/2018**	
LAB SAMPLE ID			**L1831817-04**	
SAMPLE TYPE			**WATER**	
SAMPLE DEPTH (ft.)				
	NY-AWQS	**Units**	**Results**	**Qual**
Semivolatile Organics by GC/MS-SIM				
Acenaphthene	20	ug/l	ND	
Fluoranthene	50	ug/l	ND	
Naphthalene	10	ug/l	0.07	J
Benzo(a)anthracene	0.002	ug/l	ND	
Benzo(a)pyrene	0	ug/l	ND	
Benzo(b)fluoranthene	0.002	ug/l	ND	
Benzo(k)fluoranthene	0.002	ug/l	ND	
Chrysene	0.002	ug/l	ND	
Acenaphthylene		ug/l	ND	
Anthracene	50	ug/l	ND	
Benzo(ghi)perylene		ug/l	ND	
Fluorene	50	ug/l	ND	
Phenanthrene	50	ug/l	ND	
Dibenzo(a,h)anthracene		ug/l	ND	
Indeno(1,2,3-cd)pyrene	0.002	ug/l	ND	
Pyrene	50	ug/l	ND	
Volatile Organics by GC/MS				
Benzene	1	ug/l	ND	
Toluene	5	ug/l	ND	
Ethylbenzene	5	ug/l	ND	
Methyl tert butyl ether	10	ug/l	ND	
p/m-Xylene	5	ug/l	ND	
o-Xylene	5	ug/l	ND	
Xylenes, Total		ug/l	ND	
n-Butylbenzene	5	ug/l	ND	
sec-Butylbenzene	5	ug/l	ND	
tert-Butylbenzene	5	ug/l	ND	
Isopropylbenzene	5	ug/l	ND	
p-Isopropyltoluene	5	ug/l	ND	
Naphthalene	10	ug/l	ND	
n-Propylbenzene	5	ug/l	ND	
1,3,5-Trimethylbenzene	5	ug/l	ND	
1,2,4-Trimethylbenzene	5	ug/l	ND	

ND = Non Detect
ug/l = Micrograms per liter
J = Estimated Value

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria

APPENDIX A

SOIL BORING LOGS

AEI CONSULTANTS
2500 CAMINO DIABLE
WALNUT CREEK CA 94597
Telephone: 925 746-6000
Fax: 925 746-6099

BORING NUMBER SB-1

CLIENT Shorewood Properties, LLC
PROJECT NAME
PROJECT NUMBER 391628
PROJECT LOCATION 127 Pearl Street, Port Chester NY
DATE STARTED 8/14/18 **COMPLETED** 8/14/18
GROUND ELEVATION **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Core Down Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY Joe Maggiulli **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
			0.0		asphalt	
			0.0		1.0 Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
5			0.0		5.0	
			0.0		Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
			0.0			
10	SB-1		0.0		10.0	
			0.0		Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
			0.0			
15			0.0		15.0	
			0.0		Bottom of borehole at 15.0 feet.	

AEI CONSULTANTS
2500 CAMINO DIABLE
WALNUT CREEK CA 94597
Telephone: 925 746-6000
Fax: 925 746-6099

BORING NUMBER SB-2

CLIENT Shorewood Properties, LLC
PROJECT NAME
PROJECT NUMBER 391628
PROJECT LOCATION 127 Pearl Street, Port Chester NY
DATE STARTED 8/14/18 **COMPLETED** 8/14/18
GROUND ELEVATION **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Core Down Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY Joe Maggiulli **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
			0.0		asphalt	
			0.0		1.0 Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
5			0.0		5.0	
			0.0		Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
			0.0			
10	SB-2		0.0		10.0	
			0.0		Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
			0.0			
15			0.0		15.0	
			0.0		Bottom of borehole at 15.0 feet.	

AEI CONSULTANTS
2500 CAMINO DIABLE
WALNUT CREEK CA 94597
Telephone: 925 746-6000
Fax: 925 746-6099

BORING NUMBER SB-3

CLIENT Shorewood Properties, LLC
PROJECT NAME
PROJECT NUMBER 391628
PROJECT LOCATION 127 Pearl Street, Port Chester NY
DATE STARTED 8/14/18 **COMPLETED** 8/14/18
GROUND ELEVATION **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Core Down Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY Joe Maggiulli **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0					asphalt	
			0.0		1.0 Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
			0.0			
5			0.0		5.0 Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
			0.0			
			0.0			
10	SB-3		0.0		10.0 Fine SAND brown tan with silt, dry	
			0.0			
			0.0			
			0.0			
			0.0			
15			0.0		15.0 Bottom of borehole at 15.0 feet.	

APPENDIX B

LABORATORY ANALYTICAL REPORT

ANALYTICAL REPORT

Lab Number:	L1831817
Client:	AEI Consultants 30 Montgomery Street Suite 220 Jersey City, NJ 07302
ATTN:	Joseph Maggiulli
Phone:	(201) 332-1844
Project Name:	PORT CHESTER
Project Number:	391628
Report Date:	08/23/18

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

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

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1831817-01	SB-1	SOIL	127 PEARL STREET, PORT CHESTER, NY	08/14/18 09:00	08/14/18
L1831817-02	SB-2	SOIL	127 PEARL STREET, PORT CHESTER, NY	08/14/18 10:00	08/14/18
L1831817-03	SB-3	SOIL	127 PEARL STREET, PORT CHESTER, NY	08/14/18 11:00	08/14/18
L1831817-04	SB-2	WATER	127 PEARL STREET, PORT CHESTER, NY	08/14/18 12:00	08/14/18

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

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: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

Case Narrative (continued)

Report Submission

August 23, 2018: This final report includes the results of all requested analyses.

August 23, 2018: This preliminary report includes the results of the Semivolatile Organics by SIM analysis performed on L1831817-04.

August 22, 2018: This is a preliminary report.

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

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 08/23/18

ORGANICS

VOLATILES

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1831817-01
Client ID: SB-1
Sample Location: 127 PEARL STREET, PORT CHESTER, NY
Date Collected: 08/14/18 09:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/17/18 21:20
Analyst: MKS
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.47	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
Xylenes, Total	ND		ug/kg	0.86	0.25	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.13	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
Naphthalene	ND		ug/kg	3.5	0.56	1
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	112		70-130

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1831817-03
Client ID: SB-3
Sample Location: 127 PEARL STREET, PORT CHESTER, NY
Date Collected: 08/14/18 11:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/17/18 21:46
Analyst: MKS
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.94	0.27	1
Xylenes, Total	ND		ug/kg	0.94	0.27	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.8	0.61	1
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	109		70-130

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1831817-04
Client ID: SB-2
Sample Location: 127 PEARL STREET, PORT CHESTER, NY
Date Collected: 08/14/18 12:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/17/18 15:49
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/17/18 09:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1147945-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/17/18 18:39
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03 Batch: WG1148260-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1147945-3 WG1147945-4								
Benzene	99		110		70-130	11		20
Toluene	110		120		70-130	9		20
Ethylbenzene	100		110		70-130	10		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	100		110		70-130	10		20
o-Xylene	100		110		70-130	10		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	98		110		70-130	12		20
tert-Butylbenzene	99		110		70-130	11		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	99		110		70-130	11		20
Naphthalene	75		76		70-130	1		20
n-Propylbenzene	99		110		69-130	11		20
1,3,5-Trimethylbenzene	98		110		64-130	12		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		101		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	104		102		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PORT CHESTER

Project Number: 391628

Lab Number: L1831817

Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03 Batch: WG1148260-3 WG1148260-4								
Benzene	97		95		70-130	2		30
Toluene	96		96		70-130	0		30
Ethylbenzene	100		100		70-130	0		30
Methyl tert butyl ether	88		90		66-130	2		30
p/m-Xylene	98		97		70-130	1		30
o-Xylene	94		93		70-130	1		30
n-Butylbenzene	109		109		70-130	0		30
sec-Butylbenzene	100		99		70-130	1		30
tert-Butylbenzene	91		91		70-130	0		30
Isopropylbenzene	93		92		70-130	1		30
p-Isopropyltoluene	93		90		70-130	3		30
Naphthalene	82		84		70-130	2		30
n-Propylbenzene	103		100		70-130	3		30
1,3,5-Trimethylbenzene	99		100		70-130	1		30
1,2,4-Trimethylbenzene	100		97		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		116		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	112		107		70-130
Dibromofluoromethane	103		100		70-130

SEMIVOLATILES

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1831817-01
Client ID: SB-1
Sample Location: 127 PEARL STREET, PORT CHESTER, NY

Date Collected: 08/14/18 09:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/20/18 23:15
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/16/18 23:05

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	79		18-120

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1831817-03
Client ID: SB-3
Sample Location: 127 PEARL STREET, PORT CHESTER, NY

Date Collected: 08/14/18 11:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/20/18 23:40
Analyst: EK
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 08/16/18 23:05

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	76		18-120

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1831817-04
Client ID: SB-2
Sample Location: 127 PEARL STREET, PORT CHESTER, NY

Date Collected: 08/14/18 12:00
Date Received: 08/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/23/18 15:56
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/18/18 02:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	85		41-149

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/17/18 19:52
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/16/18 23:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1147517-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	97	18.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.

Tentatively Identified Compounds			
Total TIC Compounds	912	J	ug/kg
Unknown	438	J	ug/kg
Aldol Condensates	312	J	ug/kg
Unknown	162	J	ug/kg

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/17/18 19:52
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/16/18 23:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1147517-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	79		18-120

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/20/18 15:02
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 08/18/18 02:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04 Batch: WG1148001-1					
Acenaphthene	ND		ug/l	0.10	0.01
Fluoranthene	0.05	J	ug/l	0.10	0.02
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02
Benzo(b)fluoranthene	0.01	J	ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	0.02	J	ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.05	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	0.05	J	ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	112		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1147517-2 WG1147517-3								
Acenaphthene	70		70		31-137	0		50
Fluoranthene	75		74		40-140	1		50
Naphthalene	68		69		40-140	1		50
Benzo(a)anthracene	70		72		40-140	3		50
Benzo(a)pyrene	76		76		40-140	0		50
Benzo(b)fluoranthene	73		74		40-140	1		50
Benzo(k)fluoranthene	72		73		40-140	1		50
Chrysene	73		74		40-140	1		50
Acenaphthylene	72		73		40-140	1		50
Anthracene	74		74		40-140	0		50
Benzo(ghi)perylene	74		74		40-140	0		50
Fluorene	72		72		40-140	0		50
Phenanthrene	74		72		40-140	3		50
Dibenzo(a,h)anthracene	73		73		40-140	0		50
Indeno(1,2,3-cd)pyrene	74		72		40-140	3		50
Pyrene	74		74		35-142	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PORT CHESTER

Project Number: 391628

Lab Number: L1831817

Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1147517-2 WG1147517-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		77		25-120
Phenol-d6	80		80		10-120
Nitrobenzene-d5	78		77		23-120
2-Fluorobiphenyl	73		72		30-120
2,4,6-Tribromophenol	77		79		10-136
4-Terphenyl-d14	76		73		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04 Batch: WG1148001-2 WG1148001-3								
Acenaphthene	87		104		40-140	18		40
Fluoranthene	101		128		40-140	24		40
Naphthalene	80		96		40-140	18		40
Benzo(a)anthracene	90		100		40-140	11		40
Benzo(a)pyrene	98		113		40-140	14		40
Benzo(b)fluoranthene	96		109		40-140	13		40
Benzo(k)fluoranthene	89		104		40-140	16		40
Chrysene	86		98		40-140	13		40
Acenaphthylene	110		122		40-140	10		40
Anthracene	92		105		40-140	13		40
Benzo(ghi)perylene	62		92		40-140	39		40
Fluorene	96		111		40-140	14		40
Phenanthrene	86		97		40-140	12		40
Dibenzo(a,h)anthracene	100		123		40-140	21		40
Indeno(1,2,3-cd)pyrene	99		119		40-140	18		40
Pyrene	104		118		40-140	13		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: PORT CHESTER

Project Number: 391628

Lab Number: L1831817

Report Date: 08/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04 Batch: WG1148001-2 WG1148001-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		74		21-120
Phenol-d6	63		71		10-120
Nitrobenzene-d5	88		97		23-120
2-Fluorobiphenyl	91		108		15-120
2,4,6-Tribromophenol	105		116		10-120
4-Terphenyl-d14	101		122		41-149

INORGANICS
&
MISCELLANEOUS

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1831817-01
Client ID: SB-1
Sample Location: 127 PEARL STREET, PORT CHESTER, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/14/18 09:00
Date Received: 08/14/18
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	91.7		%	0.100	NA	1	-	08/15/18 14:00	121,2540G	RI

Project Name: PORT CHESTER
Project Number: 391628
Lab Number: L1831817
Report Date: 08/23/18

SAMPLE RESULTS

Lab ID: L1831817-03
Client ID: SB-3
Sample Location: 127 PEARL STREET, PORT CHESTER, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/14/18 11:00
Date Received: 08/14/18
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	91.1		%	0.100	NA	1	-	08/15/18 14:00	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PORT CHESTER

Project Number: 391628

Lab Number: L1831817

Report Date: 08/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1146856-1 QC Sample: L1831737-01 Client ID: DUP Sample						
Solids, Total	87.2	88.3	%	1		20

Project Name: PORT CHESTER
Project Number: 391628

Lab Number: L1831817
Report Date: 08/23/18

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(*)
L1831817-01A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1831817-01B	Vial water preserved	A	NA		3.8	Y	Absent	15-AUG-18 07:30	NYTCL-8260HLW(14)
L1831817-01C	Vial water preserved	A	NA		3.8	Y	Absent	15-AUG-18 07:30	NYTCL-8260HLW(14)
L1831817-01D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1831817-01E	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14)
L1831817-02A	Vial MeOH preserved	A	NA		3.8	Y	Absent		HOLD-8260HLW(14)
L1831817-02B	Vial water preserved	A	NA		3.8	Y	Absent	15-AUG-18 07:30	HOLD-8260HLW(14)
L1831817-02C	Vial water preserved	A	NA		3.8	Y	Absent	15-AUG-18 07:30	HOLD-8260HLW(14)
L1831817-02D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		HOLD-WETCHEM()
L1831817-02E	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		HOLD-8270(14)
L1831817-03A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1831817-03B	Vial water preserved	A	NA		3.8	Y	Absent	15-AUG-18 07:30	NYTCL-8260HLW(14)
L1831817-03C	Vial water preserved	A	NA		3.8	Y	Absent	15-AUG-18 07:30	NYTCL-8260HLW(14)
L1831817-03D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1831817-03E	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14)
L1831817-04A	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260(14)
L1831817-04B	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260(14)
L1831817-04C	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260(14)
L1831817-04D	Amber 250ml unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270-SIM-LVI(7)
L1831817-04E	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	PORT CHESTER	**Lab Number:**	L1831817
Project Number:	391628	**Report Date:**	08/23/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PORT CHESTER	**Lab Number:**	L1831817
Project Number:	391628	**Report Date:**	08/23/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PORT CHESTER	**Lab Number:**	L1831817
Project Number:	391628	**Report Date:**	08/23/18

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: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

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

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, 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, SM9222D.**

Mansfield Facility:

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

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

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

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 8/14/18

ALPHA Job #: L1831817

Client Information

Client: AEI
Address: 20 Wilson Place
Freehold NJ
Phone: 732-414-2220
Fax:
Email:

Project Information

Project Name: Portchester
Project Location: 127 Pearl Street Portchester NY
Project #: 30116.18
(Use Project name as Project #) ☐
Project Manager: Joe Margiotti
ALPHAQuote #:

Turn-Around Time

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

Deliverables

☒ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information

☐ Same as Client Info
PO # 169099

Site Information

Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

CP-51 VOC
CP-51 B/N

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

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	CP-51 VOC	CP-51 B/N	Sample Specific Comments
31817-01	SB-1	8/14	0900	SG	JH	X	X	
-02	SB-2		1000	SO	JH	H	H	Hold
-03	SB-3		1100	SO	JH	X	X	
-04	SB-2	↓	1200	AQ	JH	X	X	

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

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

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

Container Type	V	A
Preservative	B/A	A

Relinquished By:	Date/Time	Received By:	Date/Time
AEI	1300 8/14	Scan Link AAL	8/14/18 1633
Scan Link	8/14/18 1715	D. Santos AAL	8/14/18 1810
D. Santos AAL	8/14/18 2245		8/14/18 2245

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: 01-14 HC (rev. 30-Sept-2013)