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2017 PERIODIC REVIEW REPORT
FORMER SIGNORE, INC.
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
Site Number C905034

April 11, 2017
File No. 21.0056367.80

PREPARED FOR:
Iskalo Ellicottville Holdings, LLC
Williamsville, New York

GZA GeoEnvironmental of New York
535 Washington Street, 11th Floor | Buffalo, New York 14203
716-685-2300

26 Offices Nationwide
www.gza.com

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GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203
T: 716.685.2300
F: 716.685.3629
www.gza.com

VIA EMAIL

April 11, 2017
File No. 21.0056367.80

Mr. Jaspal Walia
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, New York 14203

Re: 2017 Periodic Review Report
Former Signore, Inc.
Ellicottville, New York
Brownfield Cleanup Program Site (Number C905034)

Dear Mr. Walia:

GZA GeoEnvironmental of New York (GZA) is pleased to submit this Periodic Review Report (PRR) on behalf of Iskalo Ellicottville Holdings, LLC (Iskalo). Iskalo is the owner and operator of the Former Signore, Inc. Brownfield Cleanup Program (BCP) Site (No. 905034; Site) located at 55-57 Jefferson Street in Ellicottville, New York. This is the first PRR to be submitted for the Site for which a Certificate of Completion (COC) was issued by the New York State Department of Environmental Conservation (NYSDEC) on December 11, 2015. GZA prepared this PRR in general conformance with the guidelines provided to Iskalo by the NYSDEC in their reminder notice letter dated January 27, 2017.

If you have any questions or need additional information, please call Jim Richert at (716) 844-7048.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Jim Richert

James J. Richert, C.P.G.
Senior Project Manager

Bart A. Klettke

Bart A. Klettke, P.E.
Principal

Cc: David Chiazza (Iskalo Ellicottville Holdings, LLC)
David Szymanski (NYSDEC Region 9)

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APPENDICES

1.0 EXECUTIVE SUMMARY

1.1 BACKGROUND

The Former Signore, Inc. Site (Site) is located in the village of Ellicottville, Cattaraugus County, New York (Figure 1). The 8.43-acre BCP Site is part of the larger approximate 55-acre former Signore property addressed at 55-57 Jefferson Street. The greater former Signore property is currently listed as a Class 4 site on the NYSDEC's Registry of Inactive Hazardous Waste sites (Site No. 905023), and involves groundwater contaminated with chlorinated volatile organic compounds (cVOCs).

The 8.43-acre BCP Site is currently occupied by a concrete slab (associated with the former 168,000 square foot main building that was demolished in July and August 2012) and three smaller ancillary buildings. Additional Site features include a paved parking area along the eastern and southern side of the concrete slab, and gravel and short vegetative cover surrounding the concrete slab on its northern, southern, and western sides. The Site is bounded by residences and the rest of the former Signore property to the north; residences, the rest of the former Signore property, and wooded vacant land to the south; Jefferson Street, residences, and a cemetery to the east; and the rest of the former Signore property to the west.

Environmental investigations identified localized petroleum-impacted soil and groundwater in historical underground storage tank (UST) areas. Groundwater sampling confirmed the presence of chlorinated volatile organic compounds (cVOCs) at concentrations above groundwater criteria. Two interim remedial measures (IRMs) were completed in 2011 and 2013 to remove several USTs, septic tanks and associated impacted soils.

The remedial action objectives (RAOs) for groundwater targeted compliance with the NYSDEC Class GA criteria, and reducing the potential exposure from inhalation of organic vapors, ingestion, and dermal contact with contaminated groundwater.

In July 2015, GZA implemented an organic carbon electron donor substrate (OCEDS) injection program to enhance and accelerate natural attenuation of cVOCs in the groundwater.

A Certificate of Completion (COC) of the BCP remedy was issued by NYSDEC to Iskalo on December 11, 2015.

Institutional Controls Include:

- Property use may include restricted residential, restricted commercial, and/or restricted industrial uses;
- Groundwater may not be used without prior treatment and approval of the regulator;
- All future activities that will disturb remaining subsurface contaminated material must be conducted as defined in the SMP (in the Excavation Work Plan);
- Access to the Site must be provided to representatives of the State of New York;

Engineering Controls Include:

- Evaluation of vapor intrusion on new buildings and/or installation and operation of vapor mitigation systems;
- Groundwater monitoring must be performed and reported as defined in the SMP;

1.2 EFFECTIVENESS OF THE REMEDIAL PROGRAM

Contaminant sources have been removed from the Site. Natural attenuation of cVOCs in the groundwater continues to reduce their concentrations as indicated by data collected during semi-annual groundwater monitoring program. Potential impacts of vapor intrusion will be evaluated for any new on-site buildings and vapor mitigation implemented as necessary. Therefore, the Site remedy continues to be effective at meeting the Site's RAOs.

1.3 COMPLIANCE

GZA observed the Site to be in compliance with the SMP. The Institutional Controls and Engineering Controls (IC/ECs) remain in place and there are no active remedial systems requiring monitoring or operation and maintenance.

1.4 RECOMMENDATIONS

GZA and Iskalo recommend no changes to the SMP or to the frequency of PRR submittals. Implementation of the SMP, including the Excavation Work Plan and maintenance of the Site cover system, will continue as the Site is redeveloped for the planned and approved restricted residential and/or commercial use.

2.0 SITE OVERVIEW

2.1 SITE LOCATION AND FEATURES

The Former Signore, Inc. Site is located in the Village of Ellicottville, Cattaraugus County, New York (Figure 1). The 8.43-acre BCP Site is part of the larger approximate 55-acre former Signore property addressed at 55-57 Jefferson Street. The greater former Signore property is currently listed as a Class 4 site on the NYSDEC's Registry of Inactive Hazardous Waste sites (Site No. 905023), and includes groundwater contaminated with chlorinated volatile organic compounds (cVOCs).

The BCP Site is currently occupied by of the concrete slab foundation associated with the former main building, as well as three smaller ancillary buildings. Areas not occupied by the concrete slab include a paved parking area along the eastern and southern side of the slab, and gravel and short vegetative cover surrounding the slab on its northern, southern, and western sides. The Site is bounded by residences and the rest of the former Signore property to the north; residences, the rest of the former Signore property, and wooded vacant land to the south; Jefferson Street, residences, and a cemetery to the east; and the rest of the former Signore property to the west.

2.2 INVESTIGATION AND REMEDIAL HISTORY

The Site formerly included localized petroleum-impacted soil and groundwater in historical UST areas, which were remediated during two IRMs in 2011 and 2013. Several USTs and septic tanks and associated impacted soils were removed during these IRMs. Groundwater sampling events conducted prior to and following the IRMs indicated the presence of chlorinated volatile organic compounds (cVOCs) at concentrations above groundwater criteria. GZA determined that the cVOC-impacted groundwater at the Site would require remediation to reduce contaminant concentrations prior to the anticipated redevelopment.

The Remedial Action Objectives (RAOs) for the Site included:

Groundwater:

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.
- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

Soil:

- Prevent ingestion/direct contact with contaminated soil; and
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.
- Prevent migration of contaminants that would result in groundwater or surface water contamination; and
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

Soil Vapor:

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

In July 2015, GZA implemented an organic carbon electron donor substrate (OCEDS) injection program to enhance and accelerate natural attenuation of cVOCs.

Remediation of the Site under the BCP followed Track 2 of the program to achieve restricted residential cleanup status. Soils with constituents exceeding the NYSDEC Part 375 Soil Cleanup Objectives (SCOs) for Restricted Residential Use (RRSCOs) were remediated during the IRM activities conducted in 2011 and 2013. Additional remedial actions pertaining to subsurface soils were not required as part of the final remedy. Based on the results of the groundwater sampling conducted following the full-scale OCEDS injection program, the OCEDS injections were successful in reducing total cVOC concentrations, and continued reductions in concentrations by enhanced natural attenuation are anticipated. If the RAOs for groundwater are not met within three years of implementation of the full-scale injections, the need to evaluate additional in-situ remediation will be considered at that time.

3.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

GZA performed a Site Inspection on November 9, 2016, during the reporting period. A log of photographs taken during the inspection is provided in Appendix A, a Site inspection form was completed(Appendix B), and a map showing the locations and orientation of the Site photographs is provided as Figure 2. No evidence of Site activity or excavations were observed during the inspection. The Site groundwater monitoring wells remain present for

continued monitoring use and the Site remains vacant and undeveloped (excepting the remaining concrete slab and three ancillary buildings).

Appendix D provides copies of two semi-annual post-injection groundwater monitoring reports (June 2016 and October 2016) completed since the October 2015 event (report provided to NYSDEC on February 23, 2016). Data collected under semi-annual post-injection groundwater monitoring program confirm that natural attenuation of cVOCs in the groundwater continues. Therefore, the Site remedy continues to be effective at meeting the Site RAOs for protection of potential current and future Site users.

4.0 INSTITUTIONAL CONTROL/ENGINEERING CONTROL (IC/EC) PLAN COMPLIANCE REPORT

4.1 IC/EC REQUIREMENTS AND COMPLIANCE

IC/ECs for the Site were determined by NYSDEC and specified in the Decision Document (DD) issued by NYSDEC on July 24, 2015. The IC/ECs were carried forward in the Environmental Easement (EE), issued by NYSDEC on July 28, 2015, and later again included in the Site Management Plan (SMP) (prepared by GZA and approved by NYSDEC on October 6, 2015). Complete lists of the Site IC and ECs are provided in Sections 3.2 and 3.3 of the SMP. Summary lists of the ICs and ECs for the Site are provided as follow:

Summary of Site Institutional Controls:

- Property use may include restricted residential, restricted commercial, and/or restricted industrial uses;
- Groundwater may not be used without prior treatment and approval of the regulator;
- Access to the Site must be provided to representatives of the State of New York;
- Groundwater monitoring must be performed and reported as defined in the SMP;
- All future activities that will disturb remaining subsurface contaminated material must be conducted as defined in the SMP;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site and any potential impacts identified must be monitored or mitigated.

Summary of Site Engineering Controls:

- Vapor intrusion will be evaluated on new buildings and mitigation systems. Sub-slab depressurization system(s), if installed, will be operated and monitored with NYSDEC and NYSDOH concurrence.
- Groundwater monitoring to assess natural attenuation will continue, as determined by NYSDEC in consultation with NYSDOH, until residual groundwater concentrations are found consistently below ambient water quality standards or have become asymptotic at an acceptable level over an extended period.

No on-Site activity has occurred since completion of the Site remedy in the summer of 2015.

Based on observations made during the Site inspection and discussions with Iskalo, the Site owner is complying with the IC/ECs. The Site remains undeveloped and inactive. Site groundwater monitoring wells remain in place and functional. No occupied building structures are present on-Site and Site groundwater is not being used.

4.2 IC/EC CERTIFICATION

The Site-specific IC/EC Certification Form, for reporting period of December 11, 2015 to March 12, 2017, was provided to Iskalo as an attachment to the January 27, 2017 Reminder Notice letter sent by NYSDEC. This form has been completed by Iskalo as Site owner and Certified by GZA as Qualified Environmental Professional (QEP). The completed IC/EC Certification Form for this reporting period is provided in Appendix D of this PRR.

5.0 PRR CONCLUSIONS AND RECOMMENDATIONS

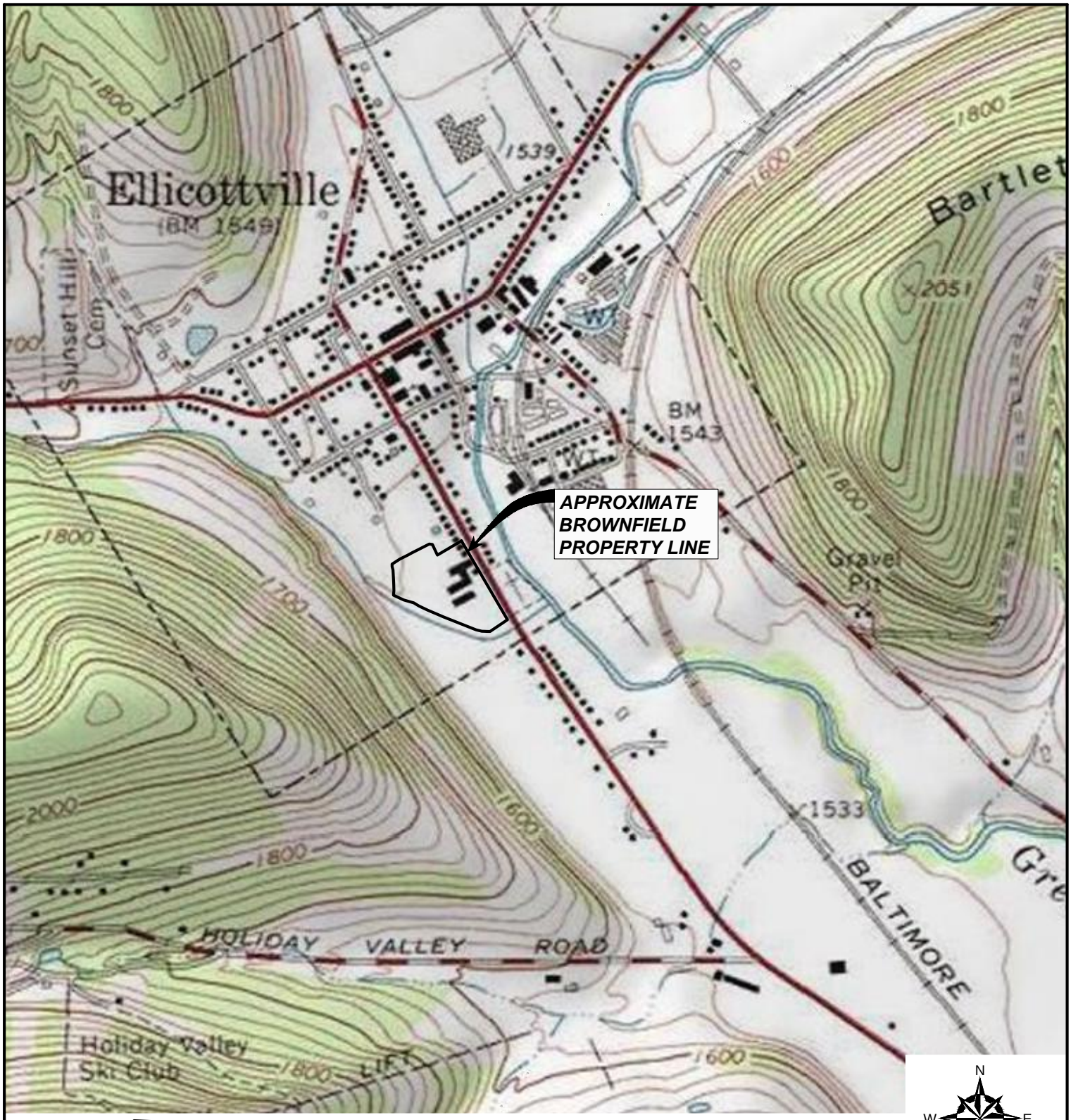
5.1 PRR CONCLUSIONS

GZA observed the BCP Site to be in compliance with provisions of the SMP. The IC/ECs remain in place and are unchanged since issuance of the COC. There are no active remedial systems requiring operation, monitoring, or maintenance.

5.2 PRR RECOMMENDATIONS

GZA and Iskalo recommend no changes to the SMP nor to the frequency of PRR submittals at this time. Implementation of the SMP, including the Excavation Work Plan and evaluation for soil vapor intrusion, will proceed as the Site is redeveloped in compliance with the Environmental Easement.

FIGURES



NEW YORK

NOTE:
BASE MAP ADAPTED FROM USA TOPO MAPS USING ArcGIS AUTOCAD PLUGIN

0 500 1000 2000
APPROXIMATE SCALE IN FEET

N
W E
S

NO.	ISSUE/DESCRIPTION	BY	DATE

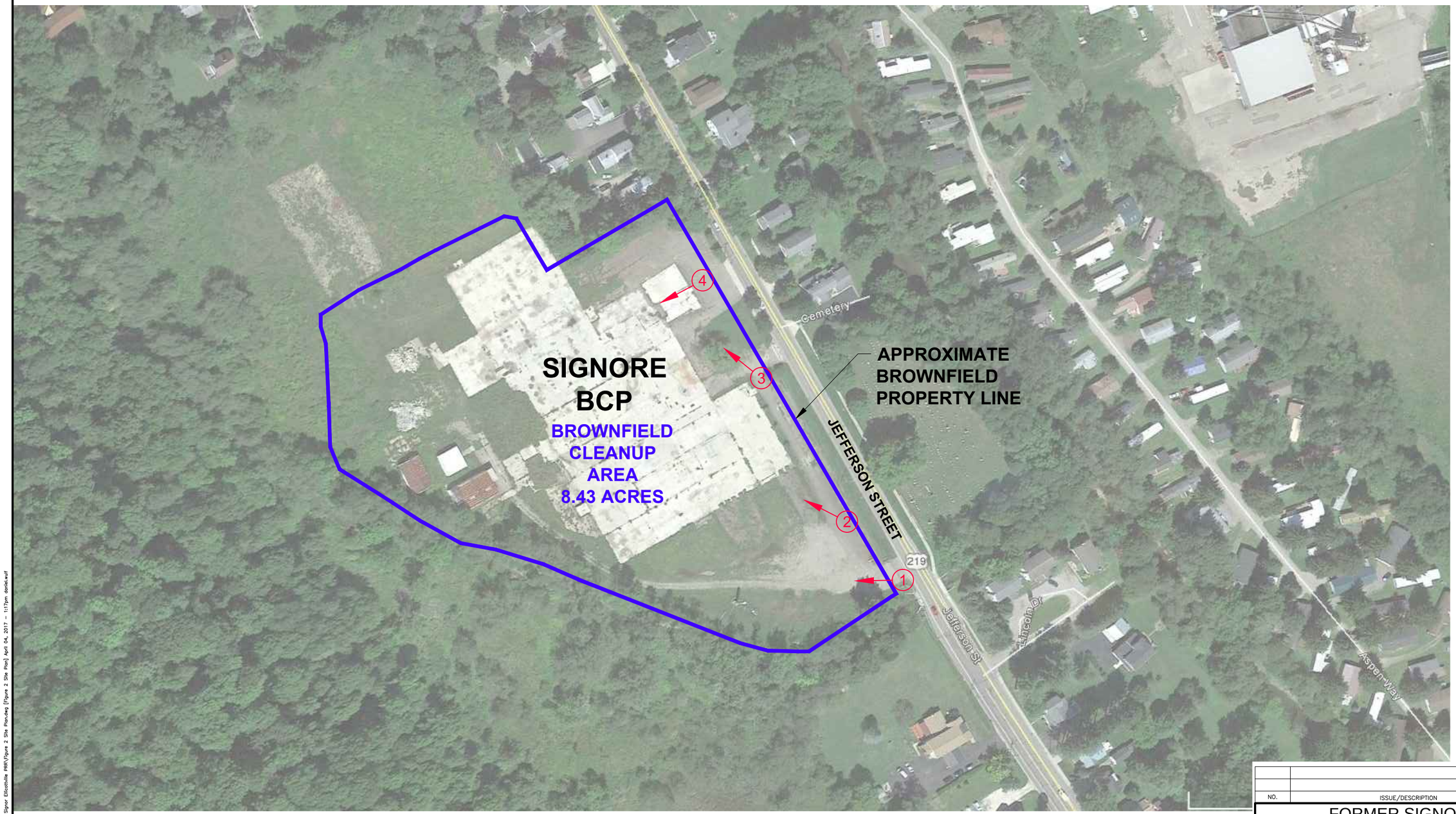
PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
ISKALO DEVELOPMENT CORPORATION

FORMER SIGNORE, INC.
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
SITE NO. C905034
PERIODIC REVIEW REPORT
LOCUS PLAN

FIGURE
1

PROJ MGR:	TB	REVIEWED BY:	JJR	CHECKED BY:	BAK	DATE	PROJECT NO.	REVISION NO.
DESIGNED BY:	TB	DRAWN BY:	DEW	SCALE:	AS SHOWN	APRIL 2016	21.0056367.80	



NOTES:

1. BASE MAP ADAPTED FROM A 2016 AERIAL PHOTO DOWNLOADED FROM GOOGLE EARTH PRO AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

1 → APPROXIMATE LOCATION AND ORIENTATION OF INSPECTION PHOTOGRAPHS (SEE APPENDIX A)

0 75 150 300

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE, INC.
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
SITE NO. C905034

PERIODIC REVIEW REPORT
PHOTOGRAPH ORIENTATION MAP

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
ISKALO DEVELOPMENT INCORPORATED

PROJ MGR: TB	REVIEWED BY: JJR	CHECKED BY: BAK	FIGURE 2
DESIGNED BY: TB	DRAWN BY: DEW	SCALE: AS SHOWN	
DATE APRIL 2017	PROJECT NO. 21.0056367.80	REVISION NO.	

APPENDIX A

PHOTOGRAPH LOG

Photo 1 – Southwest area of Site looking northwest

Photo 3 – North side of Site looking northwest

Photo 2 – Northwest portion of Site looking northwest

Photo 4 – west side of Site looking west.

APPENDIX B

SITE MANAGEMENT FORM

Former Signore Site,Ellicottville, NY
BCP Site No.: C905034
Site Management Form

SITE DETAILS						
Site No.: C905034	Site Name: Former Signore, Inc.					
Site Address: 55-57- Jefferson St., Ellicottville, NY						
PERSON PERFORMING INSPECTION						
Name: Jim Richert	Email: James.Richert@GZA.com					
Company: GZA	Phone Number: 716/844-7048					
Others Present: None						
INSPECTION DATE AND SITE CONDITIONS						
Inspection Date: November 9, 2016	Inspection Time: 1:30 PM					
Weather Conditions: Overcast, Temp ~ 35 degrees F						
REASON FOR SITE INSPECTION						
Type of Inspection: ☑ Annual Inspection ☐ Routine Maintenance Inspection ☐ Non-Routine Inspection						
Inspection after a Severe Condition that could effect Site control ☐ Yes ☑ No						
Describe severe condition triggering inspection: NA						
VERIFICATION OF SITE DETAILS						
Current Site Owner: Iskalo Ellicottville Holdings LLC						
Current Site Operator: Iskalo Ellicottville Holdings LLC						
Describe Current Site Use (*check all that apply*)						
☐ Industrial		☐ Commercial		☐ Residential		☑ Other Vacant, awaiting redevelopment
Briefly describe observed site uses:						
Site remains vacant and awaits redevelopment. No physical changes observed since December 11, 2015 when						
Certificate of Completion of the Brownfield Cleanup Program was issued.						
Note any additional pertinent information to Verification of Site Details (use additional pages if necessary.						
DESCRIPTION OF ENGINEERING CONTROLS						
Are the Engineering Controls still in place: ☑ Yes ☐ No						
If No, explain:						
Is the Site Management Plan still in place: ☑ Yes ☐ No						
If No, explain:						
AREAS IN NEED OF REPAIR OR MAINTENANCE						
Area discussed in this section must be shown on a figure and have photographic documentation.						
None						
INTRUSIVE ACTIVITIES PERFORMED AT SITE DURING INSPECTION PERIOD						
Location:	Date:					
Description of activities being performed:						
None observed and none reported by Site owner/operator						

Are Site records being properly generated and maintained: ☑ Yes ☐ No
Provide a summary of recordkeeping review and adeuacy:
ADDITIONAL NOTES & COMMENTS
None
INSPECTION CERTIFICATION
I hereby certify that the information included in this report is complete and accurate to the best of my knowledge
Inspector Signature: Jim Richert / Date: April 3, 2017

APPENDIX C

POST-INJECTION GROUNDWATER MONITORING REPORTS
(JUNE 2016 AND OCTOBER 2016)

Proactive by Design

JUNE 2016
POST-INJECTION GROUNDWATER MONITORING DATA REPORT
Former Signore Inc.
55-57 Jefferson Street
Ellicottville New York 14731

August 30, 2016
File No. 21.0056367.61

PREPARED FOR:
Iskalo Ellicottville Holdings LLC
Williamsville, New York

GZA GeoEnvironmental of New York
535 Washington Street, 11th Floor | Buffalo, New York 14203
716-685-2300

26 Offices Nationwide
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GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203
T: 716.685.2300
F: 716.685.3629
www.gza.com

VIA EMAIL

August 30, 2016
File No. 21.0056367.61

Mr. Matthew Roland
Iskalo Ellicottville Holdings LLC
Harbinger Square
5166 Main Street
Williamsville, NY 14221

Re: June 2016 Post-Injection Groundwater Monitoring Data Report
Former Signore, Inc.
55-57 Jefferson Street
Ellicottville, NY 14731
NYSDEC Site No. C905034

Dear Matt:

GZA GeoEnvironmental of New York (GZA) is pleased to submit this post-injection groundwater monitoring data report to Iskalo Ellicottville Holdings LLC (Iskalo) presenting the analytical results of a seven well sampling event conducted in June 2016 at the above referenced Site. The post-injection groundwater monitoring was performed as required by New York State Department of Environmental Conservation (NYSDEC) as specified in the Decision Document for Brownfield Site No. C905034 dated July 2015. The post-injection monitoring was conducted in conjunction with the semi-annual groundwater monitoring of 12 other wells that has been performed since 1992 as required by NYSDEC and specified in the Record of Decision (ROD) dated January 1992.

Details of the remedial injection program and the first (August 2015) round of post-injection monitoring were provided in the Final Engineering Report for the Site, dated October 2015.

This data report provides well development forms, an analytical data summary table, graphs of pre- and post- injection concentrations of chlorinated solvents in groundwater, and the laboratory data report for the eight wells sampled.

The analytical results of the groundwater sampling provide useful information for documentation of concentrations of chlorinated volatile organic compounds (cVOCs) present in the on-Site groundwater. Groundwater cVOC concentrations measured at eleven months post-OCEDS injection (June 2016) follow trends typical for this stage of enhanced reductive dechlorination, with PCE and TCE concentrations decreasing in conjunction with production of DCE, VC, and ethene. Groundwater biogeochemical parameters are generally conducive to reductive dechlorination, with predominately low DO, nitrate, and sulfate in conjunction with higher groundwater concentrations of methane and reduced iron and manganese. The TOC concentrations are lower than they were at three months post-OCEDS injection. This is expected, as the OCEDS additive, by design, provides organic carbon for indigenous bacteria to consume while reducing electron acceptors that compete with cVOCs. Typically, biomass generated by bacterial growth cycles provides a sustainable source of organic carbon, helping to maintain groundwater conditions conducive to reductive

dechlorination as the injected OCEDS is consumed. In GZA's opinion, groundwater conditions are generally conducive to continued reductive dechlorination. Continued monitoring will allow us to more fully assess the long-term impacts of the OCEDS injections on groundwater quality at the Site and continue documentation of the dechlorination process.

Per the Site Management Plan, continued post-injection groundwater monitoring is required on a semi-annual basis. The required monitoring is intended to more fully assess the long-term impacts of the injections on groundwater quality at the Site and provide necessary data for documentation of the dechlorination process. The next post-injection groundwater monitoring event is scheduled for fall of 2016.

Should you have any questions or require additional information following your review, please contact Jim Richert at 716-844-7048.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen
Project Manager

Karen Kinsella, Ph. D.
Technical Specialist

James J. Richert, P.G.
Senior Project Manager

Bart A. Klettke, P.E.
Principal

ATTACHMENTS

ATTACHMENT A	LIMITATIONS
ATTACHMENT B	WELL DEVELOPMENT FORMS
ATTACHMENT C	GROUNDWATER ANALYTICAL RESULTS SUMMARY
ATTACHMENT D	CONCENTRATIONS OF CVOC PARENT MATERIAL AND DAUGHTER PRODUCTS MEASURED IN GROUNDWATER
ATTACHMENT E	LABORATORY REPORT

ATTACHMENT A

LIMITATIONS

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

ATTACHMENT B

WELL DEVELOPMENT FORMS

File: 21.0056491.76

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**EW-1.25**	Ground Surface Elevation: 1532.29	Riser/Screen Material: Steel/Stainless Steel
Installation Date:	7/90	Protective Casing Elevation: 1532.29 ft.	Top of Screen Depth: 15 ft.
Installed By:	Empire Soils	Monitoring Point Elevation: 1531.96 ft.	Bottom of Screen Depth: 25 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color

Notes:

Field Observations

Exterior Observations: All good

Interior Observations: All good

Signs of Damage/Tampering:

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: NONE

Parameters +/-

pH	+/- 0.1
Conductivity	+/- 3%
Temperature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10mV
DO	+/- 10%

Sampling Information

Sample ID: EW-1.25 -061516
Sample Time: 1115
# of Sample Containers: 9
Duplicate Sample ID: NA
Sample Analysis: VOCs 8260 + MNA

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (~~uMhos/cm~~ mS)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
6-15-16	1035	11.38	0	6.84	0.626	12.6	61.5	clear	1.44	360.3	Depth of Water: 11.26
	1055	11.40	0.70	6.77	0.636	12.2	77.2	clear	0.35	174.9	Length of Water Column: 12.68
	1100	11.40	1.00	6.81	0.649	12.2	31.7	clear	0.33	116.8	Depth of Well: 23.94
	1105	11.40	1.30	6.79	0.652	12.4	21.5	clear	0.32	161.3	Sheen Observed: Y (N)
	1110	11.40	1.60	6.78	0.652	12.4	20.6	clear	0.31	156.7	DNAPL Observed: Y (N)
	1115	11.40	1.90	6.79	0.653	12.4	20.1	clear	0.29	161.4	Did Well Go Dry: Y (N)
											Other:
											Pump set @ ~20'
											1 well Vol. ~ 2.0 gal.

File: 21.0056367.61

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-32**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	9/27/2012	Protective Casing Elevation:	Top of Screen Depth: 9 ft.
Installed By:	TREC	Monitoring Point Elevation:	Bottom of Screen Depth: 19 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.23	6.45	0.65	16.5	6.76	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations: All good	pH +/- 0.1	Sample ID: SP-32-0615/e
	Conductivity +/- 3%	Sample Time: 1325
Interior Observations All good	Temperature +/- 10%	# of Sample Containers: 9
	Turbidity +/- 10%	Duplicate Sample ID:
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering: NONE	DO +/- 10%	MNA PARAMETERS

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 ppm | Odors: NONE

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (~~uMhos~~/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
6-15-16	1249	9.76	0	7.08	0.252	16.9	10.29	clear	3.63	309.1	Depth of Water: 9.38
	1305	10.07	0.30	6.21	0.228	16.3	9.97	clear	0.54	246.2	Length of Water Column:
	1310	10.10	0.40	6.20	0.230	16.1	9.89	clear	0.53	248.1	Depth of Well: 18.68
	1315	10.10	0.50	6.20	0.230	16.0	7.81	clear	0.56	247.3	Sheen Observed: Y (N)
	1320	10.10	0.60	6.22	0.232	15.8	7.67	clear	0.54	239.4	DNAPL Observed: Y (N)
	1325	10.10	0.70	6.22	0.232	15.8	7.60	clear	0.53	236.7	Did Well Go Dry: Y (N)
											Other:
											Pump inlet @ ~15'

File: 21.0056367.61

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-38**	Ground Surface Elevation:		Riser/Screen Material: PVC
Installation Date:	9/27/2012	Protective Casing Elevation:		Top of Screen Depth: 9 ft.
Installed By:	TREC	Monitoring Point Elevation:		Bottom of Screen Depth: 19 ft.
		Elevation Datum:		

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.93	6.72	0.412	15.2	2.12	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations: All good.	pH +/- 0.1	Sample ID: SP-38-061516
	Conductivity +/- 3%	Sample Time: 1415
Interior Observations All good.	Temperature +/- 10%	# of Sample Containers: 9
	Turbidity +/- 10%	Duplicate Sample ID: NA
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering: NONE	DO +/- 10%	MNA PARAMETERS

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0ppm | Odors:

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
6-15-16	1353	9.99	0	6.52	0.413	15.1	12.70	clear	1.98	259.3	Depth of Water: 9.88
	1405	9.99	0.3	6.59	0.418	16.5	6.50	clear	1.30	252.3	Length of Water Column:
	1410	9.99	0.4	6.60	0.419	16.3	6.46	clear	1.31	246.7	Depth of Well: 18.66
	1415	9.99	0.5	6.59	0.419	16.1	6.39	clear	1.32	241.8	Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:
											Pump inlet @ ~15'

File: 21.0056367.61

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-43**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	10/1/2012	Protective Casing Elevation:	Top of Screen Depth: 10 ft.
Installed By:	TREC	Monitoring Point Elevation:	Bottom of Screen Depth: 20 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
10.03	5.88	0.513	18.4	4.04	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations: All good	pH +/- 0.1	Sample ID: SP-43-061616
	Conductivity +/- 3%	Sample Time: 810
Interior Observations All good	Temperature +/- 10%	# of Sample Containers: 9
	Turbidity +/- 10%	Duplicate Sample ID: NA
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering: NONE	DO +/- 10%	MNA PARAMETERS

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 ppm | Odors:

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
6-16-16	728	10.60	0	6.84	0.239	15.1	8.31	clear	1.74	531.5	Depth of Water: 10.35
	740	10.58	0.30	5.94	0.237	14.7	6.99	clear	1.13	401.7	Length of Water Column:
	745	10.60	0.50	5.91	0.236	14.7	6.87	clear	1.21	360.6	Depth of Well: 19.95
	750	10.60	0.80	5.89	0.236	14.7	6.81	clear	1.19	341.6	Sheen Observed: Y (N)
	800	10.60	1.00	5.88	0.236	14.8	6.72	clear	1.26	320.0	DNAPL Observed: Y (N)
	805	10.60	1.10	5.88	0.236	14.8	6.67	clear	1.25	315.3	Did Well Go Dry: Y (N)
	810	10.60	1.20	5.87	0.237	14.6	6.70	clear	1.23	310.9	Other:
											Pump set @ 15'
											1 well vol. ~

File: 21.0056367.61

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-37**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	9/27/2012	Protective Casing Elevation:	Top of Screen Depth: 9 ft.
Installed By:	TREC	Monitoring Point Elevation:	Bottom of Screen Depth: 19 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.59	6.39	0.535	17	9.35	Clear

Notes:

Field Observations

Exterior Observations: All good.

Interior Observations: All good

Signs of Damage/Tampering: None

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 ppm | Odors:

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: SP-37-061616
Conductivity	+/- 3%	Sample Time: 900
Temperature	+/- 10%	# of Sample Containers: 9
Turbidity	+/- 10%	Duplicate Sample ID: NA
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (~~uMhos~~ mS/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
6-16-16	830	9.72	0	6.04	0.283	13.9	15.0	clear	1.74	456.1	Depth of Water: 9.63
	850	9.74	0.80	6.00	0.287	13.2	5.93	clear	0.31	318.4	Length of Water Column:
	855	9.74	1.00	6.01	0.289	13.3	5.82	clear	0.30	311.5	Depth of Well: 19.07
	900	9.74	1.20	6.03	0.291	13.3	5.93	clear	0.29	306.5	Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:
											Pump set ~15'
											1 well vol. =

File: 21.0056367.61

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-45**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	10/1/2012	Protective Casing Elevation:	Top of Screen Depth: 9.2 ft.
Installed By:	TREC	Monitoring Point Elevation:	Bottom of Screen Depth: 19.2 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
11.25	6.83	0.363	17.8	2.3	Clear

Notes:

Field Observations

Exterior Observations: All good

Interior Observations: All good

Signs of Damage/Tampering: NONE

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: NONE

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: SP-45-061616
Conductivity	+/- 3%	Sample Time: 1005
Temperature	+/- 10%	# of Sample Containers: 9
Turbidity	+/- 10%	Duplicate Sample ID:
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
6-16-16	9:23	11.20	0	6.47	0.459	15.3	52.5	clear	2.80	372.2	Depth of Water: 11.17
	935	11.20	0.30	6.81	0.477	15.0	11.10	clear	1.13	289.6	Length of Water Column:
	940	11.20	0.40	6.83	0.481	15.1	11.86	clear	1.03	287.0	Depth of Well: 17.00
	945	11.20	0.50	6.86	0.486	15.1	11.67	clear	0.84	278.9	Sheen Observed: Y (N)
	950	11.20	0.60	6.88	0.491	15.2	11.59	clear	0.64	272.5	DNAPL Observed: Y (N)
	955	11.20	0.70	6.90	0.497	15.2	11.26	clear	0.56	266.5	Did Well Go Dry: Y (N)
	1000	11.20	0.80	6.92	0.500	15.2	11.17	clear	0.53	261.9	Other:
	1005	11.20	0.90	6.91	0.503	15.2	11.25	clear	0.50	250.7	Pump inlet @ ~15'
											1 well vol.

File: 21.0056367.61

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	~~EW-1.25~~ TP-11	Ground Surface Elevation: 1532.29	Riser/Screen Material: Steel/Stainless Steel
Installation Date:	7/90	Protective Casing Elevation: 1532.29 ft.	Top of Screen Depth: 15 ft.
Installed By:	Empire Soils	Monitoring Point Elevation: 1531.96 ft.	Bottom of Screen Depth: 25 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color

Notes:

Field Observations

Exterior Observations: All good

Interior Observations: All good

Signs of Damage/Tampering: None

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: ~~EW-1.25~~ TP-11-061616
Conductivity	+/- 3%	Sample Time: 1055
Temperature	+/- 10%	# of Sample Containers: 3
Turbidity	+/- 10%	Duplicate Sample ID: NA
ORP	+/- 10mV	Sample Analysis: VOCs 8260 TCL
DO	+/- 10%	~~MNA PARAMETERS~~

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: None

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (~~uMhos~~ mS/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
6-16-16	1026	11.53	0	7.06	0.499	14.3	36.8	clear	4.02	421.6	Depth of Water: 11.48
	1035	11.53	0.30	6.91	0.492	11.8	15.2	clear	3.16	312.4	Length of Water Column:
	1040	11.53	0.40	6.90	0.489	12.5	8.11	clear	2.81	289.5	Depth of Well: 19.52
	1045	11.53	0.50	6.90	0.497	12.6	7.67	clear	2.84	276.9	Sheen Observed: Y ~~N~~
	1050	11.53	0.60	6.90	0.492	12.4	7.71	clear	2.86	271.9	DNAPL Observed: Y ~~N~~
	1055	11.53	0.70	6.90	0.493	12.4	7.69	clear	2.84	267.4	Did Well Go Dry: Y ~~N~~
											Other:
											Pump inlet @ ~14'

ATTACHMENT C

GROUNDWATER ANALYTICAL RESULTS SUMMARY

Attachment C
June 2016 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	EW-1.25 6/25/2013	Q	EW-1.25 10/16/2013	Q	EW-1.25 6/10/2014	Q	EW-1.25 6/4/2015	Q	EW-1.25 8/21/2015	Q	EW-1.25 10/21/2015	Q	EW-1.25 6/15/2016	Q	SP-32 10/3/2012	Q	SP-32 10/17/2013	Q	SP-32 6/10/2014	Q	SP-32 6/4/2015	Q	SP-32 8/21/2015	Q	SP-32 10/22/2015	Q	SP-32 6/15/2016	Q
Volatile Organic Compounds - EPA Method SW-846, 8260B (ug/L)																													
Acetone	50	<		<		<		<		<		3.8	J	2.3	J	<		240	D	<		<		<		<		2.8	J
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	0.77	J	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	4.1		4.1		2.9		3		2.6		4.2		2.9		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		0.25	J	0.19	J	0.36	J	0.24	J	<		<		<		<		<		<		<	
Vinyl chloride	2	4.6		5		2.4		2.6		<		3.3		3.2		<		<		<		0.18	J	0.23	J	<		<	
2-Butanone	50	<		<		<		<		<		<		<		<		45		<		<		<		<		<	
cis-1,2-Dichloroethene	5	31		32		23		29		28		44		28		<		26		11		4.5		4.7		2.7		3.3	
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	3.3		3.8		3.6		<		1.4		1.8		3.1		2.1		<		<		0.25	J	0.46	J	0.62		0.44	J
Trichloroethene	5	51		59		41		47		42		58		47		120		3.4		6.4		5.8		6.5		6.7		14	
Total VOCs	2	94.77		103.9		72.9		81.85		75.01		115.46		86.74		122.1		314.4		17.4		10.73		11.89		10.02		20.54	
Field Parameters																													
Temperature (Deg. C)	NV	13		13.5		10.4		9.1		13.1		13.4		12.4		13.2		16.5		13.1		11.0		17.7		16.6		15.8	
Specific Conductance (mS/cm)	NV	0.7		0.68		0.7		0.757		0.67		0.68		0.653		0.418		0.65		0.392		0.326		0.272		0.223		0.232	
Dissolved Oxygen (mg/L)	NV	0.05		0.18		0.06		0.17		0.12		0.22		0.29		4.92		0.18		0.12		0.15		0.16		0.48		0.53	
Oxygen Reduction Potential (mv)	NV	-88.5		-99.3		-91.2		-130.5		-86.2		-91.6		161.4		50.3		-95.3		-21.9		104.4		57.7		169.9		236.7	
pH (std. units)	NV	7.35		6.85		6.78		6.73		6.77		6.89		6.79		7.23		6.45		6.48		6.28		6.34		6.25		6.22	
Turbidity (NTUs)	NV	9.12		3.31		11.71		7.7		14.2		10.7		20.1		35		6.76		4.95		0.6		7.15		4.42		7.6	
Inorganics (ug/L)																													
Iron	300	NS		1,000		14,000		14,000		11,500		11,900		27,300		NS		3,480		16,000		339		246		206		541	
Manganese	NV	NS		1,300		1,600		1,482		1,265		1,465		1,453		NS		24,600		19,000		6,468		8,331		2,897		2,668	
Miscellaneous Water Quality Parameters																													
Methane (ug/L)	NV	NS		1,000		170		237		218		190		244		NS		120		660		725		932		208		205	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		NS		<		<		0.659		0.841		<		<	
Ethene (ug/L)	NV	NS		1.7		<		<		0.535		<		0.558		NS		1.7		<		<		<		<		<	
Total Organic Carbon (mg/L)	NV	NS		<		<		2.07		2.47		1.92		2.26		NS		51		<		1.35		1.7		1.02		1.45	
Chloride (mg/L)	NV	NS		66	B	69		62		57		56		49		NS		5	B	3.1		3.46		3.12		2.83		2.72	
Nitrate (mg/L)	NV	NS		<		<		0.015	J	0.020	J	<		<		NS		<		<		1.92		0.93		4.2		3.9	
Nitrite (mg/L)	NV	NS		<		<		NS		NS		NS		NS		NS		<		<		NS		NS		NS		NS	
Sulfate (mg/L)	NV	NS		7.6		7.4	B	12.8		10.3		10.5		10.2		NS		4.9	J	14	B	14.6		16.8		16.1		16.3	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica and Alpha Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation;
   * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Shaded concentrations exceed Class GA criteria.

Attachment C
June 2016 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-37 10/5/2012	Q	SP-37 10/17/2013	Q	SP-37 6/10/2014	Q	SP-37 6/4/2015	Q	SP-37 8/21/2015	Q	SP-37 10/23/2015	Q	SP-37 6/16/2016	Q	SP-38 10/4/2012	Q	SP-38 10/17/2013	Q	SP-38 6/10/2014	Q	SP-38 8/21/2015	Q	SP-38 10/23/2015	Q	SP-38 6/15/2016	Q
Volatile Organic Compounds - EPA Method SW-84																											
Acetone	50	<		<		<		<		<		<		2.6	J	<		<		<		<		<		1.6	J
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		1.8	J	1.9		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		2	J	1.9	J	<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		0.21	J	0.42	J	<		<		<		<		22		0.39	J
2-Butanone	50	<		<		<		<		<		<		<		<		<		<		26		2.1	J	<	
cis-1,2-Dichloroethene	5	1.8		7.3		0.99	J	3.4		9.9		9.4		6.7		<		1.5		1.2		46		0.82	J	<	
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		1	J	<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		2.4		<		<		0.86	J	<		<	
Tetrachloroethene	5	9.6		24		13		18		15		26		14		5		<		5.2		0.22	J	0.37	J	0.28	J
Trichloroethene	5	13		20		7.2		10		11		19		13		17		7.8		19		0.45	J	0.29	J	5.5	J
Total VOCs	2	24.4		51.3		27.2		31.4		36.72		54.61		36.72		24.4		9.3		25.4		77.33		30.38		7.77	
Field Parameters																											
Temperature (Deg. C)	NV	13.5		17		11.9		10		17		15.3		13.3		13.1		15.2		11.6		15.2		15.1		16.1	
Specific Conductance (mS/cm)	NV	0.452		0.535		0.305		0.449		0.432		0.396		0.291		0.437		0.412		0.437		1.03		0.69		0.419	
Dissolved Oxygen (mg/L)	NV	0.28		0.2		0.58		0.68		0.07		0.13		0.29		3.25		2.88		4.65		0.07		0.11		1.32	
Oxygen Reduction Potential (mv)	NV	-122.4		74.8		107.7		117.6		16.1		82.8		306.5		31.7		103.5		136		-124.2		-172.7		241.8	
pH (std. units)	NV	6.6		6.39		6.28		6.12		6.28		6.3		6.03		6.81		6.72		6.72		7.1		7.39		6.59	
Turbidity (NTUs)	NV	2.5		9.35		12.5		1.4		5.27		2.3		5.93		27.4		2.12		19.2		12.3		2.12		6.39	
Inorganics (ug/L)																											
Iron	300	NS		61.7	B	900		81.4		409		66		85		<		<		1,500		5,660		3,040		352	
Manganese	NV	NS		336		150		1,021		6,015		2,035		1,137		5,100		41.1	B	180		24,820		12,680		2762	
Miscellaneous Water Quality Parameters																											
Methane (ug/L)	NV	NS		26		2.5		28		108		67.4		47.2		<		20		1.1		807.0		636.0		3.9	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		NM		<		<		<		2.57		<	
Ethene (ug/L)	NV	NS		<		<		<		<		<		<		NM		<		<		3.45		4.56		<	
Total Organic Carbon (mg/L)	NV	NS		4	J	2.8	J	2.51		4.75		2.62		2.47		<		<		<		86.9		2.22		1.21	
Chloride (mg/L)	NV	NS		12	B	3.8		28.8		16.4		14.7		7.11		31		40	B	34		29		27.1		36.1	
Nitrate (mg/L)	NV	NS		4.8		5.2		2.98		0.04		0.27		1.40		4.7		1.4		3.3		0.0	J	<		0.6	
Nitrite (mg/L)	NV	NS		<		<		NS		NS		NS		NS						<		<		NS		NS	
Sulfate (mg/L)	NV	NS		36		24	B	23.3		18		21.1		18.3		23		11		13	B	0.063	J	5.99		11.5	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica and Alpha Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation;
   * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Shaded concentrations exceed Class GA criteria.

Attachment C
June 2016 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-43 10/4/2012	Q	SP-43 10/17/2013	Q	SP-43 6/10/2014	Q	SP-43 6/4/2015	Q	SP-43 8/21/2015	Q	SP-43 10/23/2015	Q	SP-43 6/16/2016	Q	SP-45 10/4/2012	Q	SP-45 10/17/2013	Q	SP-45 6/10/2014	Q	SP-45 6/4/2015	Q	SP-45 8/21/2015	Q	SP-45 10/23/2015	Q	SP-45 6/16/2016	Q	TP-11 6/3/2015	Q	TP-11 10/22/2015	Q	TP-11 6/16/2016	Q
Volatile Organic Compounds - EPA Method SW-84																																			
Acetone	50	<		53		<		<		<		<		1.9	J	<		<		<		<		<		<		1.5	J	<		<		2	J
Methylene Chloride	5	<		<		<		<		<		<		<		3.2	DJ	<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		1.3		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		0.48	J	6.6		<		<		<		<		<		<		6.3		5.5		<		<		<	
2-Butanone	50	<		84		<		<		21		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	<		5.4		3.9		1.1	J	9.4		9.2		4.6		6.8		1.1		1.9		2.9		1.4	J	5.7		3.7		19		12		18	
Toluene	5	<		<		<		<		<		84.0		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	93		24		14		14		10		17		7.7		260	D	69		130		160		16		45		16		0.58		1.5		0.53	
Trichloroethene	5	5.2		2.6		<		0.72		2.20		8.30		0.71		13		3.6		6.4		8.5		1.5		7.5		7.2		88		74		77	
Total VOCs	2	98.2		170.3		17.9		15.82		43.08		125.10		14.91		283.0		73.7		138.3		171.4		18.9		171.4		33.9		107.58		87.50		97.53	
Field Parameters																																			
Temperature (Deg. C)	NV	14.1		18.4		13		12.2		16.6		15.9		14.6		14.6		17.8		16.5		14		19.1		15.8		15.2		9.1		14.4		12.4	
Specific Conductance (mS/cm)	NV	0.445		0.513		0.304		0.773		0.66		0.68		0.237		0.543		0.363		0.391		0.584		0.6		0.62		0.503		0.574		0.535		0.493	
Dissolved Oxygen (mg/L)	NV	1.48		0.22		0.23		1.1		0.12		0.12		1.23		1.07		5.21		3.02		3.58		0.09		0.07		0.5		5.27		1.57		2.84	
Oxygen Reduction Potential (mv)	NV	44.2		-39.3		149		175.8		-15.1		-88.2		310.9		-29.5		88.3		143.1		73.3		-62.7		-61.7		250.7		96.2		90.7		267.4	
pH (std. units)	NV	6.55		5.88		6.13		5.82		6.31		6.83		5.87		6.48		6.83		6.71		6.71		7.05		7.05		6.91		6.91		7.04		6.9	
Turbidity (NTUs)	NV	39.8		4.04		18		0.2		31.7		4.26		6.7		3.95		2.3		3.17		0.5		14.91		5.06		11.25		1.9		1.87		7.69	
Inorganics (ug/L)																																			
Iron	300	NS		6,150		7,100		54		5,780		6,220		127		NS		32.1	B	170	J	27.2	J	45	J	1,260		197		NS		NS		NS	
Manganese	NV	NS		5,510		1,600		1,254		8,919		10,240		171.8		NS		<		<		1.93		296.4		3,510		1447		NS		NS		NS	
Miscellaneous Water Quality Parameters																																			
Methane (ug/L)	NV	NS		16		12		0.756	J	2,490.000		6,520.000		0.612		NS		14		1.1		0.762	J	96.9		958		1500		NS		NS		NS	
Ethane (ug/L)	NV	NS		2.4		<		<		<		<		<		NS		<		<		<		<		<		1.18		NS		NS		NS	
Ethene (ug/L)	NV	NS		3.7		<		<		<		2.13		<		NS		<		<		<		<		1.08		2.59		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		80		<		1.84		28.8		3.62		2.09		NS		<		<		1.64		3.93		1.86		1.69		NS		NS		NS	
Chloride (mg/L)	NV	NS		6.3	B	2.2		136.0		62.2		40.0		12.2		NS		5.1	B	4.2		35.0		9.4		17.3		15.4		NS		NS		NS	
Nitrate (mg/L)	NV	NS		0.36		8.30		8.65		0.59		0.21		2.10		NS		6		5.2		2.68		1.2		1.9		0.39		NS		NS		NS	
Nitrite (mg/L)	NV	NS		<		0.042	J	NS		NS		NS		NS		NS		<		<		NS		NS		NS		NS		NS		NS		NS	
Sulfate (mg/L)	NV	NS		12		25	B	19.8		18.3		13.3		22		NS		39		33	B	32.7		43.4		22.4		24		NS		NS		NS	

Notes:

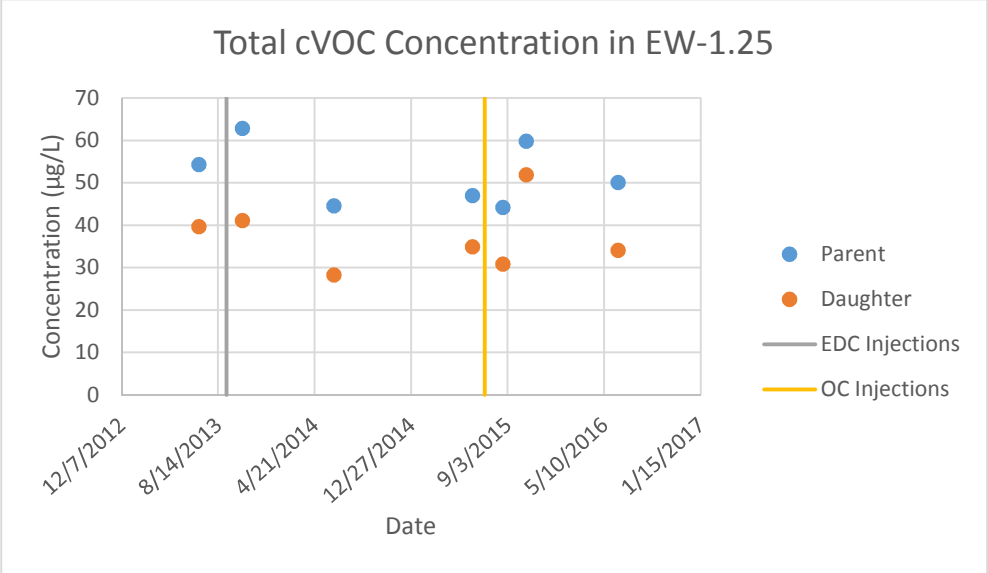
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica and Alpha Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation;
   * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Shaded concentrations exceed Class GA criteria.

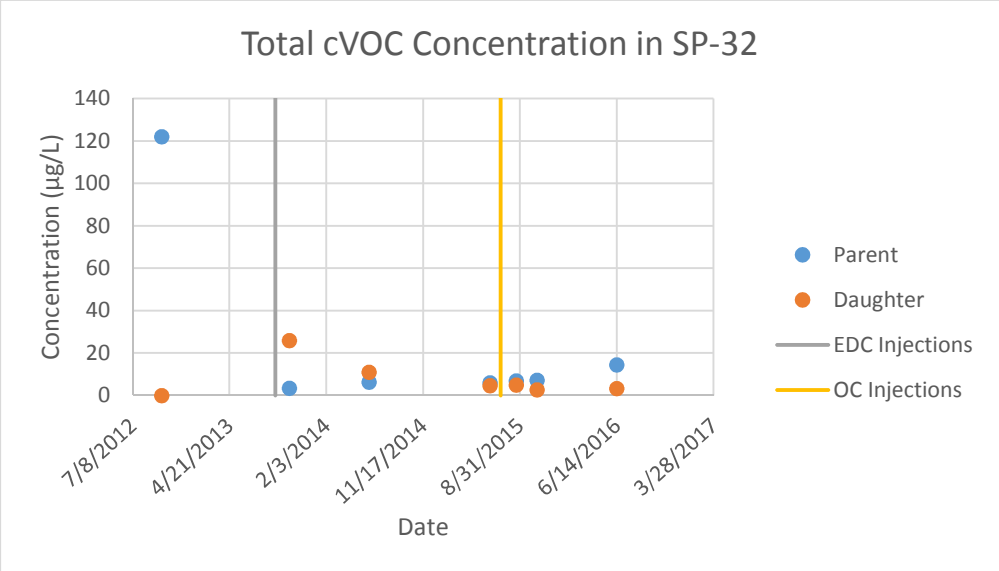
ATTACHMENT D

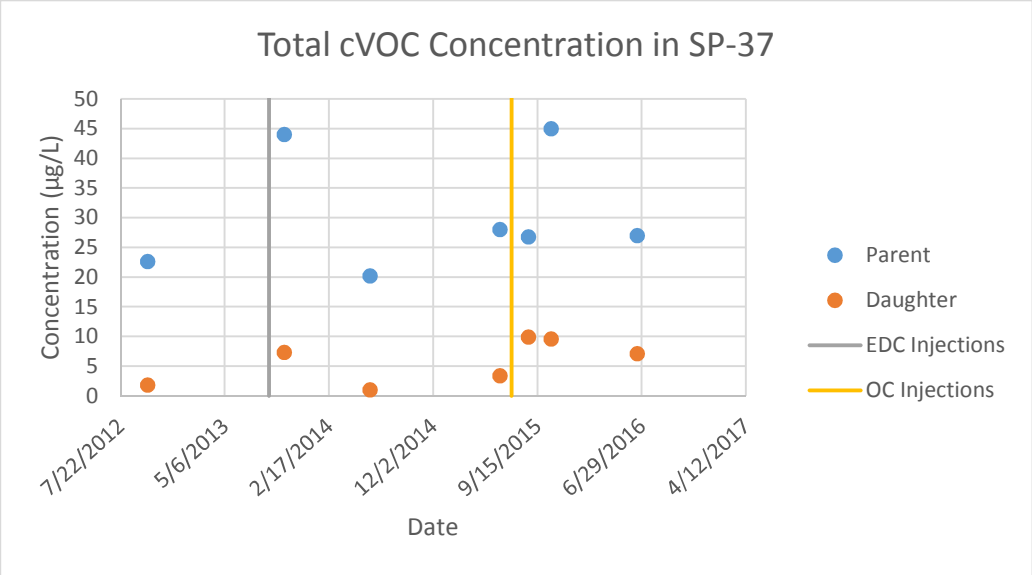
CONCENTRATIONS OF CVOC PARENT MATERIAL AND DAUGHTER PRODUCTS IN GROUNDWATER

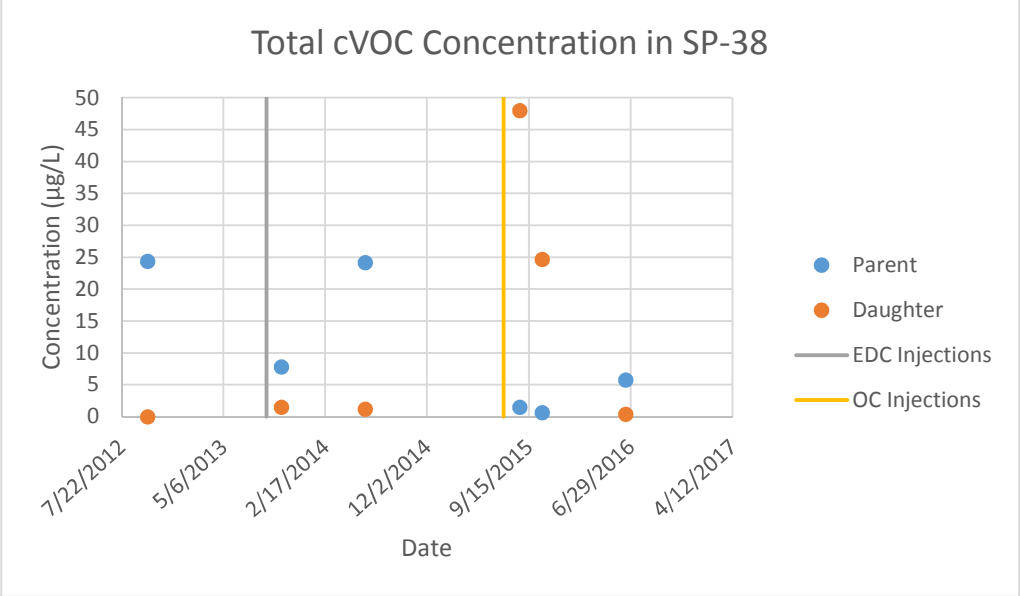
Attachment D

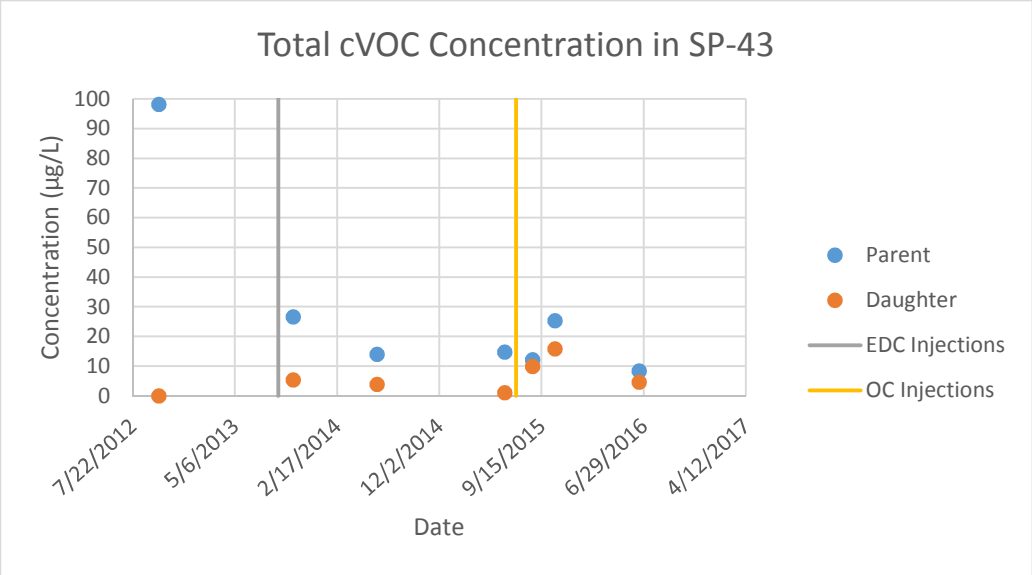
Concentrations of cVOC Parent Material and Daughter Products in Groundwater
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

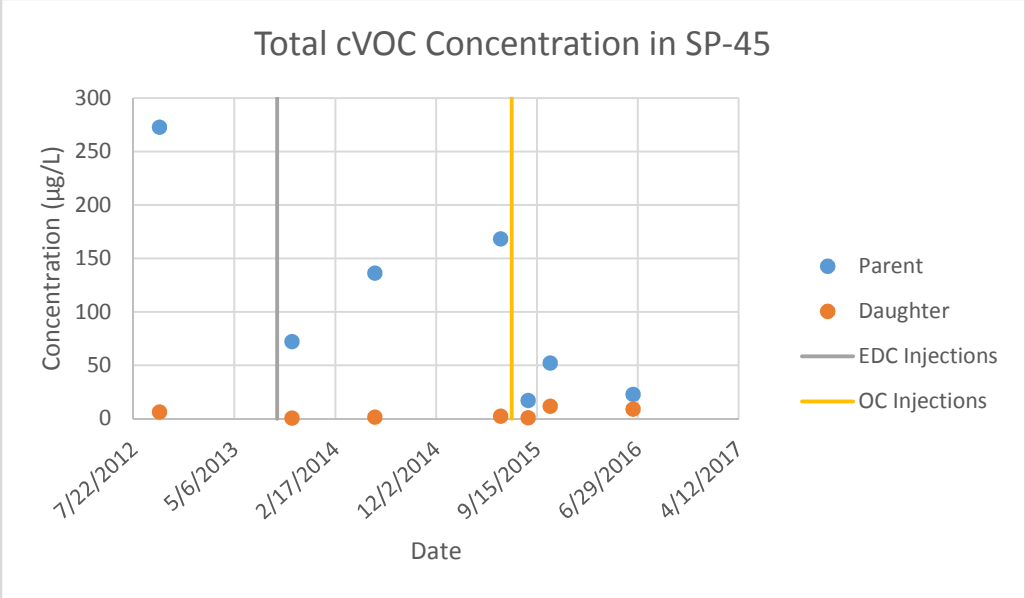


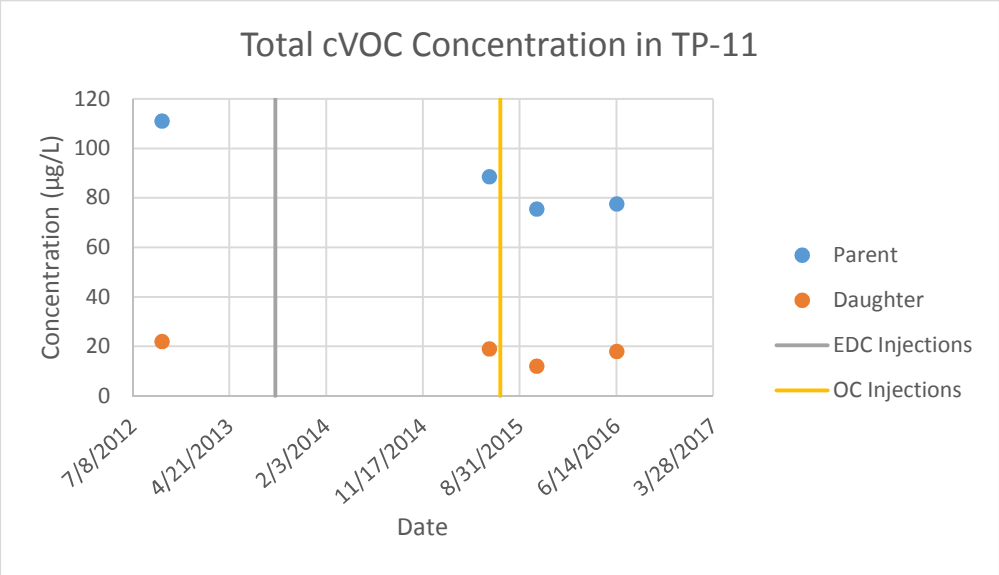



Total cVOC Concentration in SP-37
Concentration (µg/L)
50
45
40
35
30
25
20
15
10
5
0
7/22/2012
5/6/2013
2/17/2014
12/2/2014
9/15/2015
6/29/2016
4/12/2017
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-38
Concentration (µg/L)
50
45
40
35
30
25
20
15
10
5
0
7/22/2012
5/6/2013
2/17/2014
12/2/2014
9/15/2015
6/29/2016
4/12/2017
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-43
Concentration (µg/L)
100
90
80
70
60
50
40
30
20
10
0
7/22/2012
5/6/2013
2/17/2014
12/2/2014
9/15/2015
6/29/2016
4/12/2017
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-45
Concentration (µg/L)
300
250
200
150
100
50
0
7/22/2012
5/6/2013
2/17/2014
12/2/2014
9/15/2015
6/29/2016
4/12/2017
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in TP-11
120
100
80
60
40
20
0
Concentration (µg/L)
7/8/2012
4/21/2013
2/3/2014
11/17/2014
8/31/2015
6/14/2016
3/28/2017
Date
Parent
Daughter
EDC Injections
OC Injections

ATTACHMENT E

LABORATORY REPORT

ANALYTICAL REPORT

Lab Number:	L1618425
Client:	GZA GeoEnvironmental 535 Washington St. Buffalo, NY 14203
ATTN:	James Richert
Phone:	(716) 685-2300
Project Name:	FORMER SIGNORE
Project Number:	21.0056367.61
Report Date:	06/28/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1618425-01	EW-1.25-061516	WATER	ELLICOTTVILLE, NY	06/15/16 11:15	06/15/16
L1618425-02	SP-32-061516	WATER	ELLICOTTVILLE, NY	06/15/16 13:25	06/15/16
L1618425-03	SP-38-061516	WATER	ELLICOTTVILLE, NY	06/15/16 14:15	06/15/16
L1618425-04	TRIP BLANK	WATER	ELLICOTTVILLE, NY	06/15/16 07:05	06/15/16
L1618425-05	SP-43-061616	WATER	ELLICOTTVILLE, NY	06/16/16 08:10	06/16/16
L1618425-06	SP-37-061616	WATER	ELLICOTTVILLE, NY	06/16/16 09:00	06/16/16
L1618425-07	SP-45-061616	WATER	ELLICOTTVILLE, NY	06/16/16 10:05	06/16/16
L1618425-08	TP-11-061616	WATER	ELLICOTTVILLE, NY	06/16/16 10:55	06/16/16
L1618425-09	TRIP BLANK	WATER	ELLICOTTVILLE, NY	06/16/16 07:05	06/16/16

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

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: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

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.

Total Organic Carbon

The WG904966-4 MS recovery (123%), performed on L1618425-01, is outside the acceptance criteria; however, the associated LCS recovery was within criteria. No further action was taken.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/28/16

ORGANICS

VOLATILES

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-01
Client ID: EW-1.25-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 06/22/16 11:48
Analyst: LB

Date Collected: 06/15/16 11:15
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	244		ug/l	0.500	0.500	1	A
Ethene	0.558		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-02
Client ID: SP-32-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 14:26
Analyst: PD

Date Collected: 06/15/16 13:25
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.44	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	14		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1618425

Project Number: 21.0056367.61 **Report Date:** 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-02 Date Collected: 06/15/16 13:25

Client ID: SP-32-061516 Date Received: 06/15/16

Sample Location: ELLICOTTVILLE, NY Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.3		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-02
Client ID: SP-32-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 06/22/16 12:03
Analyst: LB

Date Collected: 06/15/16 13:25
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	205		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-03
Client ID: SP-38-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 15:00
Analyst: PD

Date Collected: 06/15/16 14:15
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.28	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.39	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	5.5		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1618425

Project Number: 21.0056367.61 **Report Date:** 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-03 Date Collected: 06/15/16 14:15

Client ID: SP-38-061516 Date Received: 06/15/16

Sample Location: ELLICOTTVILLE, NY Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-03
Client ID: SP-38-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 06/22/16 12:17
Analyst: LB

Date Collected: 06/15/16 14:15
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	3.87		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-04
Client ID: TRIP BLANK
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 18:15
Analyst: PD

Date Collected: 06/15/16 07:05
Date Received: 06/15/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-04
Client ID: TRIP BLANK
Sample Location: ELLICOTTVILLE, NY
Date Collected: 06/15/16 07:05
Date Received: 06/15/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	101		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-05
Client ID: SP-43-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 15:35
Analyst: PD

Date Collected: 06/16/16 08:10
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	7.7		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.71		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-05
Client ID: SP-43-061616
Sample Location: ELLICOTTVILLE, NY
Date Collected: 06/16/16 08:10
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	4.6		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-05
Client ID: SP-43-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 06/22/16 12:32
Analyst: LB

Date Collected: 06/16/16 08:10
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	0.612		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-06
Client ID: SP-37-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 16:09
Analyst: PD

Date Collected: 06/16/16 09:00
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	14		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.42	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	13		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1618425

Project Number: 21.0056367.61 **Report Date:** 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-06 Date Collected: 06/16/16 09:00

Client ID: SP-37-061616 Date Received: 06/16/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	6.7		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-06
Client ID: SP-37-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 06/22/16 12:46
Analyst: LB

Date Collected: 06/16/16 09:00
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	47.2		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-07
Client ID: SP-45-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 16:44
Analyst: PD

Date Collected: 06/16/16 10:05
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	16		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	5.5		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	7.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1618425

Project Number: 21.0056367.61 **Report Date:** 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-07 Date Collected: 06/16/16 10:05

Client ID: SP-45-061616 Date Received: 06/16/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.7		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-07
Client ID: SP-45-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 06/22/16 14:09
Analyst: LB

Date Collected: 06/16/16 10:05
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	1500		ug/l	0.500	0.500	1	A
Ethene	2.59		ug/l	0.500	0.500	1	A
Ethane	1.18		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-08
Client ID: TP-11-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 17:18
Analyst: PD

Date Collected: 06/16/16 10:55
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.53		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	77		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1618425

Project Number: 21.0056367.61 **Report Date:** 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-08 Date Collected: 06/16/16 10:55

Client ID: TP-11-061616 Date Received: 06/16/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	18		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-09
Client ID: TRIP BLANK
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 17:52
Analyst: PD

Date Collected: 06/16/16 07:05
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-09
Client ID: TRIP BLANK
Sample Location: ELLICOTTVILLE, NY
Date Collected: 06/16/16 07:05
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 06/22/16 10:06
Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-03,05-07 Batch: WG906213-3						
Methane	ND		ug/l	0.500	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 10:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG907699-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 10:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG907699-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 10:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG907699-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	102		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 12:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05-09 Batch: WG907702-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 12:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05-09 Batch: WG907702-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	64	J	ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 12:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05-09 Batch: WG907702-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.61

Lab Number: L1618425

Report Date: 06/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03,05-07 Batch: WG906213-2									
Methane	101		-		80-120	-		25	A
Ethene	100		-		80-120	-		25	A
Ethane	102		-		80-120	-		25	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

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: WG907699-3 WG907699-4								
Methylene chloride	110		98		70-130	12		20
1,1-Dichloroethane	100		93		70-130	7		20
Chloroform	110		96		70-130	14		20
2-Chloroethylvinyl ether	120		100		70-130	18		20
Carbon tetrachloride	110		99		63-132	11		20
1,2-Dichloropropane	100		93		70-130	7		20
Dibromochloromethane	110		96		63-130	14		20
1,1,2-Trichloroethane	100		92		70-130	8		20
Tetrachloroethene	120		98		70-130	20		20
Chlorobenzene	110		95		75-130	15		20
Trichlorofluoromethane	110		97		62-150	13		20
1,2-Dichloroethane	100		95		70-130	5		20
1,1,1-Trichloroethane	110		98		67-130	12		20
Bromodichloromethane	110		94		67-130	16		20
trans-1,3-Dichloropropene	100		90		70-130	11		20
cis-1,3-Dichloropropene	110		95		70-130	15		20
1,1-Dichloropropene	110		95		70-130	15		20
Bromoform	110		98		54-136	12		20
1,1,2,2-Tetrachloroethane	96		86		67-130	11		20
Benzene	110		93		70-130	17		20
Toluene	110		92		70-130	18		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

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: WG907699-3 WG907699-4								
Ethylbenzene	110		93		70-130	17		20
Chloromethane	81		71		64-130	13		20
Bromomethane	130		110		39-139	17		20
Vinyl chloride	90		83		55-140	8		20
Chloroethane	100		91		55-138	9		20
1,1-Dichloroethene	110		95		61-145	15		20
trans-1,2-Dichloroethene	110		97		70-130	13		20
Trichloroethene	110		99		70-130	11		20
1,2-Dichlorobenzene	110		95		70-130	15		20
1,3-Dichlorobenzene	110		95		70-130	15		20
1,4-Dichlorobenzene	110		94		70-130	16		20
Methyl tert butyl ether	100		94		63-130	6		20
p/m-Xylene	115		100		70-130	14		20
o-Xylene	115		100		70-130	14		20
cis-1,2-Dichloroethene	110		96		70-130	14		20
Dibromomethane	110		100		70-130	10		20
1,2,3-Trichloropropane	96		86		64-130	11		20
Acrylonitrile	96		91		70-130	5		20
Isopropyl Ether	97		90		70-130	7		20
tert-Butyl Alcohol	80		108		70-130	**30**	Q	20
Styrene	115		100		70-130	14		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

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: WG907699-3 WG907699-4								
Dichlorodifluoromethane	68		61		36-147	11		20
Acetone	100		76		58-148	**27**	Q	20
Carbon disulfide	96		84		51-130	13		20
2-Butanone	80		75		63-138	6		20
Vinyl acetate	95		88		70-130	8		20
4-Methyl-2-pentanone	80		76		59-130	5		20
2-Hexanone	81		78		57-130	4		20
Acrolein	95		86		40-160	10		20
Bromochloromethane	120		110		70-130	9		20
2,2-Dichloropropane	110		95		63-133	15		20
1,2-Dibromoethane	100		93		70-130	7		20
1,3-Dichloropropane	100		90		70-130	11		20
1,1,1,2-Tetrachloroethane	110		97		64-130	13		20
Bromobenzene	110		96		70-130	14		20
n-Butylbenzene	110		94		53-136	16		20
sec-Butylbenzene	110		94		70-130	16		20
tert-Butylbenzene	120		94		70-130	**24**	Q	20
o-Chlorotoluene	100		86		70-130	15		20
p-Chlorotoluene	110		90		70-130	20		20
1,2-Dibromo-3-chloropropane	97		93		41-144	4		20
Hexachlorobutadiene	120		110		63-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

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: WG907699-3 WG907699-4								
Isopropylbenzene	110		93		70-130	17		20
p-Isopropyltoluene	120		96		70-130	**22**	Q	20
Naphthalene	83		98		70-130	17		20
n-Propylbenzene	110		92		69-130	18		20
1,2,3-Trichlorobenzene	93		120		70-130	**25**	Q	20
1,2,4-Trichlorobenzene	100		110		70-130	10		20
1,3,5-Trimethylbenzene	110		93		64-130	17		20
1,2,4-Trimethylbenzene	110		94		70-130	16		20
Methyl Acetate	88		84		70-130	5		20
Ethyl Acetate	88		85		70-130	3		20
Cyclohexane	100		91		70-130	9		20
Ethyl-Tert-Butyl-Ether	100		93		70-130	7		20
Tertiary-Amyl Methyl Ether	100		93		66-130	7		20
1,4-Dioxane	60		128		56-162	**72**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		98		70-130	12		20
p-Diethylbenzene	120		97		70-130	**21**	Q	20
p-Ethyltoluene	110		93		70-130	17		20
1,2,4,5-Tetramethylbenzene	110		97		70-130	13		20
Tetrahydrofuran	99		92		58-130	7		20
Ethyl ether	100		94		59-134	6		20
trans-1,4-Dichloro-2-butene	83		72		70-130	14		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.61

Lab Number: L1618425

Report Date: 06/28/16

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: WG907699-3 WG907699-4								
Iodomethane	**32**	Q	**39**	Q	70-130	20		20
Methyl cyclohexane	110		96		70-130	14		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		100		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	95		93		70-130
Dibromofluoromethane	103		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-09 Batch: WG907702-3 WG907702-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	120		110		70-130	9		20
Chloroform	100		100		70-130	0		20
2-Chloroethylvinyl ether	83		86		70-130	4		20
Carbon tetrachloride	90		90		63-132	0		20
1,2-Dichloropropane	120		110		70-130	9		20
Dibromochloromethane	88		97		63-130	10		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	97		83		62-150	16		20
1,2-Dichloroethane	98		96		70-130	2		20
1,1,1-Trichloroethane	93		90		67-130	3		20
Bromodichloromethane	96		98		67-130	2		20
trans-1,3-Dichloropropene	96		100		70-130	4		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	83		92		54-136	10		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-09 Batch: WG907702-3 WG907702-4								
Ethylbenzene	110		110		70-130	0		20
Chloromethane	130		88		64-130	**39**	Q	20
Bromomethane	87		64		39-139	**30**	Q	20
Vinyl chloride	130		94		55-140	**32**	Q	20
Chloroethane	**160**	Q	120		55-138	**29**	Q	20
1,1-Dichloroethene	110		90		61-145	20		20
trans-1,2-Dichloroethene	120		100		70-130	18		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	93		92		63-130	1		20
p/m-Xylene	115		115		70-130	0		20
o-Xylene	115		115		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		110		64-130	10		20
Acrylonitrile	110		110		70-130	0		20
Isopropyl Ether	120		120		70-130	0		20
tert-Butyl Alcohol	114		120		70-130	5		20
Styrene	115		120		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-09 Batch: WG907702-3 WG907702-4								
Dichlorodifluoromethane	94		46		36-147	**69**	Q	20
Acetone	110		95		58-148	15		20
Carbon disulfide	110		84		51-130	**27**	Q	20
2-Butanone	100		110		63-138	10		20
Vinyl acetate	110		100		70-130	10		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	96		100		57-130	4		20
Acrolein	95		98		40-160	3		20
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	91		85		63-133	7		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	97		100		64-130	3		20
Bromobenzene	100		110		70-130	10		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	120		110		70-130	9		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	120		120		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	82		92		41-144	11		20
Hexachlorobutadiene	97		94		63-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-09 Batch: WG907702-3 WG907702-4								
Isopropylbenzene	120		110		70-130	9		20
p-Isopropyltoluene	120		110		70-130	9		20
Naphthalene	100		110		70-130	10		20
n-Propylbenzene	120		120		69-130	0		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	120		120		70-130	0		20
Ethyl Acetate	100		100		70-130	0		20
Cyclohexane	120		100		70-130	18		20
Ethyl-Tert-Butyl-Ether	98		98		70-130	0		20
Tertiary-Amyl Methyl Ether	90		94		66-130	4		20
1,4-Dioxane	**196**	Q	124		56-162	**45**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		91		70-130	9		20
p-Diethylbenzene	120		110		70-130	9		20
p-Ethyltoluene	120		110		70-130	9		20
1,2,4,5-Tetramethylbenzene	110		110		70-130	0		20
Tetrahydrofuran	110		110		58-130	0		20
Ethyl ether	110		100		59-134	10		20
trans-1,4-Dichloro-2-butene	87		91		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.61

Lab Number: L1618425

Report Date: 06/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-09 Batch: WG907702-3 WG907702-4								
Iodomethane	**32**	Q	**38**	Q	70-130	17		20
Methyl cyclohexane	100		90		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	108		107		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	99		102		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03,05-07 QC Batch ID: WG906213-5 QC Sample: L1618425-03 Client ID: SP-38-061516													
Methane	3.87	54.6	55.0	94		-	-		80-120	-		25	A
Ethene	ND	95.5	90.2	94		-	-		80-120	-		25	A
Ethane	ND	102	98.0	96		-	-		80-120	-		25	A

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits	
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-03,05-07 QC Batch ID: WG906213-4 QC Sample: L1618425-07 Client ID: SP-45-061616							
Methane	1500	1470	ug/l	2		25	A
Ethene	2.59	2.72	ug/l	5		25	A
Ethane	1.18	1.21	ug/l	3		25	A

METALS

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-01
Client ID: EW-1.25-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/15/16 11:15
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Iron, Total	27.3		mg/l	1.00	0.240	20	06/20/16 07:45	06/22/16 20:05	EPA 3005A	1,6020A	BM
Manganese, Total	1.453		mg/l	0.02000	0.00604	20	06/20/16 07:45	06/22/16 20:05	EPA 3005A	1,6020A	BM

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-02
Client ID: SP-32-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/15/16 13:25
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Iron, Total	0.541		mg/l	0.050	0.012	1	06/20/16 07:45	06/23/16 09:54	EPA 3005A	1,6020A	TT
Manganese, Total	2.668		mg/l	0.02000	0.00604	20	06/20/16 07:45	06/22/16 20:09	EPA 3005A	1,6020A	BM

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-03
Client ID: SP-38-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/15/16 14:15
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Iron, Total	0.352		mg/l	0.050	0.012	1	06/20/16 07:45	06/23/16 09:57	EPA 3005A	1,6020A	TT
Manganese, Total	2.762		mg/l	0.02000	0.00604	20	06/20/16 07:45	06/22/16 20:13	EPA 3005A	1,6020A	BM

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-05
Client ID: SP-43-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/16/16 08:10
Date Received: 06/16/16
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											
Iron, Total	0.127		mg/l	0.050	0.012	1	06/21/16 09:45	06/22/16 11:27	EPA 3005A	1,6020A	AM
Manganese, Total	0.1718		mg/l	0.0010	0.0003	1	06/21/16 09:45	06/22/16 11:27	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-06
Client ID: SP-37-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Date Collected: 06/16/16 09:00
Date Received: 06/16/16
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											
Iron, Total	0.085		mg/l	0.050	0.012	1	06/21/16 09:45	06/22/16 11:30	EPA 3005A	1,6020A	AM
Manganese, Total	1.137		mg/l	0.0100	0.0030	10	06/21/16 09:45	06/22/16 12:13	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Lab Number: L1618425
Project Number: 21.0056367.61
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-07
Client ID: SP-45-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/16/16 10:05
Date Received: 06/16/16
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											
Iron, Total	0.197		mg/l	0.050	0.012	1	06/21/16 09:45	06/22/16 11:33	EPA 3005A	1,6020A	AM
Manganese, Total	1.447		mg/l	0.0100	0.0030	10	06/21/16 09:45	06/22/16 12:16	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG905598-1										
Iron, Total	ND		mg/l	0.0500	0.0120	1	06/20/16 07:45	06/22/16 18:04	1,6020A	BM
Manganese, Total	ND		mg/l	0.00100	0.00030	1	06/20/16 07:45	06/22/16 18:04	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-07 Batch: WG906080-1										
Iron, Total	ND		mg/l	0.050	0.012	1	06/21/16 09:45	06/22/16 10:29	1,6020A	AM
Manganese, Total	ND		mg/l	0.0010	0.0003	1	06/21/16 09:45	06/22/16 10:29	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.61

Lab Number: L1618425

Report Date: 06/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG905598-2								
Iron, Total	92		-		80-120	-		
Manganese, Total	95		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 05-07 Batch: WG906080-2								
Iron, Total	96		-		80-120	-		
Manganese, Total	98		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG905598-4 QC Sample: L1618788-03 Client ID: MS Sample												
Iron, Total	ND	1	0.990	99		-	-		75-125	-		20
Manganese, Total	0.00069J	0.5	0.5043	101		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG906080-4 QC Sample: L1618907-01 Client ID: MS Sample												
Iron, Total	1.76	1	2.70	94		-	-		75-125	-		20
Manganese, Total	0.0475	0.5	0.5280	96		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG905598-3 QC Sample: L1618788-03 Client ID: DUP Sample						
Iron, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.00069J	0.00035J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG906080-3 QC Sample: L1618907-01 Client ID: DUP Sample						
Iron, Total	1.76	1.75	mg/l	1		20
Manganese, Total	0.0475	0.0467	mg/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-01
Client ID: EW-1.25-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/15/16 11:15
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	06/16/16 22:58	44,353.2	MR
Total Organic Carbon	2.26		mg/l	1.00	0.228	2	-	06/17/16 07:55	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	48.8		mg/l	0.500	0.054	1	-	06/18/16 17:16	44,300.0	JC
Sulfate	10.2		mg/l	1.00	0.150	1	-	06/18/16 17:16	44,300.0	JC

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-02
Client ID: SP-32-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/15/16 13:25
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	3.9		mg/l	0.10	0.019	1	-	06/16/16 22:59	44,353.2	MR
Total Organic Carbon	1.45		mg/l	1.00	0.228	2	-	06/17/16 07:55	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	2.72		mg/l	0.500	0.054	1	-	06/18/16 17:28	44,300.0	JC
Sulfate	16.3		mg/l	1.00	0.150	1	-	06/18/16 17:28	44,300.0	JC

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-03
Client ID: SP-38-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/15/16 14:15
Date Received: 06/15/16
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	0.57		mg/l	0.10	0.019	1	-	06/16/16 23:00	44,353.2	MR
Total Organic Carbon	1.21		mg/l	1.00	0.228	2	-	06/17/16 07:55	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	36.1		mg/l	0.500	0.054	1	-	06/18/16 18:04	44,300.0	JC
Sulfate	11.5		mg/l	1.00	0.150	1	-	06/18/16 18:04	44,300.0	JC

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-05
Client ID: SP-43-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/16/16 08:10
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	2.1		mg/l	0.10	0.019	1	-	06/17/16 23:39	44,353.2	MR
Total Organic Carbon	2.09		mg/l	1.00	0.228	2	-	06/21/16 08:38	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	12.2		mg/l	0.500	0.054	1	-	06/18/16 18:16	44,300.0	JC
Sulfate	22.0		mg/l	1.00	0.150	1	-	06/18/16 18:16	44,300.0	JC

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-06
Client ID: SP-37-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 06/16/16 09:00
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	1.4		mg/l	0.10	0.019	1	-	06/17/16 23:40	44,353.2	MR
Total Organic Carbon	2.47		mg/l	1.00	0.228	2	-	06/21/16 08:38	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	7.11		mg/l	0.500	0.054	1	-	06/18/16 18:28	44,300.0	JC
Sulfate	18.3		mg/l	1.00	0.150	1	-	06/18/16 18:28	44,300.0	JC

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

SAMPLE RESULTS

Lab ID: L1618425-07
Client ID: SP-45-061616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Date Collected: 06/16/16 10:05
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	0.39		mg/l	0.10	0.019	1	-	06/17/16 23:45	44,353.2	MR
Total Organic Carbon	1.69		mg/l	1.00	0.228	2	-	06/21/16 08:38	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	15.4		mg/l	0.500	0.054	1	-	06/18/16 18:40	44,300.0	JC
Sulfate	24.0		mg/l	1.00	0.150	1	-	06/18/16 18:40	44,300.0	JC

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61
Lab Number: L1618425
Report Date: 06/28/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG904797-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	06/16/16 22:29	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG904966-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	06/17/16 07:55	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 05-07 Batch: WG905218-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	06/17/16 22:38	44,353.2	MR
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03,05-07 Batch: WG905544-1										
Chloride	ND		mg/l	0.500	0.054	1	-	06/18/16 15:16	44,300.0	JC
Sulfate	ND		mg/l	1.00	0.150	1	-	06/18/16 15:16	44,300.0	JC
General Chemistry - Westborough Lab for sample(s): 05-07 Batch: WG906008-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	06/21/16 08:38	121,5310C	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.61

Lab Number: L1618425

Report Date: 06/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG904797-2								
Nitrogen, Nitrate	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG904966-2								
Total Organic Carbon	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 05-07 Batch: WG905218-2								
Nitrogen, Nitrate	96		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-07 Batch: WG905544-2								
Chloride	100		-		90-110	-		
Sulfate	104		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 05-07 Batch: WG906008-2								
Total Organic Carbon	96		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG904797-4 QC Sample: L1618480-01 Client ID: MS Sample												
Nitrogen, Nitrate	1.7	4	5.6	98		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG904966-4 QC Sample: L1618425-01 Client ID: EW-1.25-061516												
Total Organic Carbon	2.26	8	12.1	**123**	Q	-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG905218-4 QC Sample: L1618425-07 Client ID: SP-45-061616												
Nitrogen, Nitrate	0.39	4	4.2	95		-	-		83-113	-		6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-07 QC Batch ID: WG905544-4 QC Sample: L1618633-01 Client ID: MS Sample												
Chloride	39.1	4	41.2	53		-	-		40-151	-		18
Sulfate	19.1	8	26.1	88		-	-		60-140	-		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG906008-4 QC Sample: L1618588-02 Client ID: MS Sample												
Total Organic Carbon	72.9	200	266	96		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG904797-3 QC Sample: L1618480-01 Client ID: DUP Sample						
Nitrogen, Nitrate	1.7	1.7	mg/l	0		6
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG904966-3 QC Sample: L1618425-01 Client ID: EW-1.25-061516						
Total Organic Carbon	2.26	2.32	mg/l	3		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG905218-3 QC Sample: L1618425-07 Client ID: SP-45-061616						
Nitrogen, Nitrate	0.39	0.39	mg/l	0		6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-07 QC Batch ID: WG905544-3 QC Sample: L1618633-01 Client ID: DUP Sample						
Chloride	39.1	39.2	mg/l	0		18
Sulfate	19.1	19.1	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG906008-3 QC Sample: L1618588-02 Client ID: DUP Sample						
Total Organic Carbon	72.9	65.5	mg/l	11		20

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1618425-01A	Vial H2SO4 preserved	A	N/A	4.0	Y	Absent	TOC-5310(28)
L1618425-01B	Vial H2SO4 preserved	A	N/A	4.0	Y	Absent	TOC-5310(28)
L1618425-01C	20ml Vial HCl preserved	A	N/A	4.0	Y	Absent	DISSGAS(14)
L1618425-01D	20ml Vial HCl preserved	A	N/A	4.0	Y	Absent	DISSGAS(14)
L1618425-01E	Plastic 250ml unpreserved	A	7	4.0	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1618425-01F	Plastic 250ml HNO3 preserved	A	<2	4.0	Y	Absent	FE-6020T(180),MN-6020T(180)
L1618425-02A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1618425-02B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1618425-02C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1618425-02D	Vial H2SO4 preserved	A	N/A	4.0	Y	Absent	TOC-5310(28)
L1618425-02E	Vial H2SO4 preserved	A	N/A	4.0	Y	Absent	TOC-5310(28)
L1618425-02F	20ml Vial HCl preserved	A	N/A	4.0	Y	Absent	DISSGAS(14)
L1618425-02G	20ml Vial HCl preserved	A	N/A	4.0	Y	Absent	DISSGAS(14)
L1618425-02H	Plastic 250ml unpreserved	A	7	4.0	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1618425-02I	Plastic 250ml HNO3 preserved	A	<2	4.0	Y	Absent	FE-6020T(180),MN-6020T(180)
L1618425-03A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1618425-03B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1618425-03C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1618425-03D	Vial H2SO4 preserved	A	N/A	4.0	Y	Absent	TOC-5310(28)
L1618425-03E	Vial H2SO4 preserved	A	N/A	4.0	Y	Absent	TOC-5310(28)
L1618425-03F	20ml Vial HCl preserved	A	N/A	4.0	Y	Absent	DISSGAS(14)
L1618425-03G	20ml Vial HCl preserved	A	N/A	4.0	Y	Absent	DISSGAS(14)
L1618425-03H	Plastic 250ml unpreserved	A	7	4.0	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1618425-03I	Plastic 250ml HNO3 preserved	A	<2	4.0	Y	Absent	FE-6020T(180),MN-6020T(180)
L1618425-04A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-04B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-05A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER SIGNORE
Project Number: 21.0056367.61

Lab Number: L1618425
Report Date: 06/28/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1618425-05B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-05C	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-05D	Vial H2SO4 preserved	B	N/A	4.1	Y	Absent	TOC-5310(28)
L1618425-05E	Vial H2SO4 preserved	B	N/A	4.1	Y	Absent	TOC-5310(28)
L1618425-05F	20ml Vial HCl preserved	B	N/A	4.1	Y	Absent	DISSGAS(14)
L1618425-05G	20ml Vial HCl preserved	B	N/A	4.1	Y	Absent	DISSGAS(14)
L1618425-05H	Plastic 250ml unpreserved	B	7	4.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1618425-05I	Plastic 250ml HNO3 preserved	B	<2	4.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1618425-06A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-06B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-06C	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-06D	Vial H2SO4 preserved	B	N/A	4.1	Y	Absent	TOC-5310(28)
L1618425-06E	Vial H2SO4 preserved	B	N/A	4.1	Y	Absent	TOC-5310(28)
L1618425-06F	20ml Vial HCl preserved	B	N/A	4.1	Y	Absent	DISSGAS(14)
L1618425-06G	20ml Vial HCl preserved	B	N/A	4.1	Y	Absent	DISSGAS(14)
L1618425-06H	Plastic 250ml unpreserved	B	7	4.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1618425-06I	Plastic 250ml HNO3 preserved	B	<2	4.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1618425-07A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-07B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-07C	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-07D	Vial H2SO4 preserved	B	N/A	4.1	Y	Absent	TOC-5310(28)
L1618425-07E	Vial H2SO4 preserved	B	N/A	4.1	Y	Absent	TOC-5310(28)
L1618425-07F	20ml Vial HCl preserved	B	N/A	4.1	Y	Absent	DISSGAS(14)
L1618425-07G	20ml Vial HCl preserved	B	N/A	4.1	Y	Absent	DISSGAS(14)
L1618425-07H	Plastic 250ml unpreserved	B	7	4.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1618425-07I	Plastic 250ml HNO3 preserved	B	<2	4.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1618425-08A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-08B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-08C	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-09A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1618425-09B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER SIGNORE	**Lab Number:**	L1618425
Project Number:	21.0056367.61	**Report Date:**	06/28/16

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER SIGNORE	**Lab Number:**	L1618425
Project Number:	21.0056367.61	**Report Date:**	06/28/16

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER SIGNORE	**Lab Number:**	L1618425
Project Number:	21.0056367.61	**Report Date:**	06/28/16

REFERENCES

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

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

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 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
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, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
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.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, 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, SM9222D-MF**.

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 6/16/16

ALPHA Job #: L1618425

Client Information

Client: GZA
Address: 535 Washington St
Buffalo NY 14203
Phone: 716-685-2300
Fax:
Email: Peter.Nyznyk@GZA.com

Project Information

Project Name: Former Signore
Project Location: Ellicottville NY
Project # 21.0056367.61
(Use Project name as Project #) ☐
Project Manager: J. Richert
ALPHAQuote #:

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

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other ~~Client~~ NYSDEC EDD

Billing Information

☒ Same as Client Info
PO # 21.0056367.61

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260 TCL	TOC	CL, NO3, SO4 EPA 300	RSK 175 DIS GAS	Total Metals (Fe, Mn)				Total Bottle	Sample Specific Comments
18425-01	EW-1.25-061516	6-15-16	1115	GW	PN		X	X	X	X					MNAS ONLY
02	SP-32-061516	↓	1325	GW	PN	X	X	X	X	X					
03	SP-38-061516		1915	GW	PN	X	X	X	X	X					
04	TRIP BLANK		0705	W	PN	X									

Container Type
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
	6-15-16/1610		
MAL 6/15/16		MAL 6/15/16	16:15
			6/16/16 01:55

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)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 6/17/16

ALPHA Job #: L1618425

Client Information
Client: GZA
Address: 535 Washington St
Buffalo NY 14203
Phone: 716-685-2300
Fax:
Email: Peter.Nyznyk@GZA.com

Project Information
Project Name: Former Signode
Project Location: Ellicottville NY
Project # 21.0056367.61
(Use Project name as Project #) ☐
Project Manager: J. Richert
ALPHAQuote #:

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

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other + Client NYSDEC EDD 21.0056367.61

Billing Information
☒ Same as Client Info
PO #

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

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260 TCL	TOC	Cl, NO3, SO4 EPA 300	DISS GAS	Total Fe, Mn SW 6010				Sample Specific Comments	Total Bottle
18425-05	SP-43-061616	6-16-16	0810	G-W	PN	X	X	X	X	X					
06	SP-37-061616		0900		PN	X	X	X	X	X					
07	SP-45-061616		1005		PN	X	X	X	X	X					
08	TP-11-061616		1055		PN	X								VOC ONLY	
09	TRIP BLANK		0705	W	PN	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														
Preservative														

Relinquished By:	Date/Time	Received By:	Date/Time
	6-16-16/1330	(AA)	6-16-16 1330
	6-16-16		6/17/16 01:50

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

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

ANALYTICAL REPORT

Lab Number:	L1618428
Client:	GZA GeoEnvironmental 535 Washington St. Buffalo, NY 14203
ATTN:	James Richert
Phone:	(716) 685-2300
Project Name:	FORMER SIGNORE
Project Number:	21.0056491.76
Report Date:	06/27/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: FORMER SIGNORE
Project Number: 21.0056491.76

Lab Number: L1618428
Report Date: 06/27/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1618428-01	EW-1.25-061516	WATER	ELLICOTTVILLE, NY	06/15/16 11:15	06/15/16

Project Name: FORMER SIGNORE
Project Number: 21.0056491.76
Lab Number: L1618428
Report Date: 06/27/16

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:	FORMER SIGNORE	**Lab Number:**	L1618428
Project Number:	21.0056491.76	**Report Date:**	06/27/16

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 06/27/16

ORGANICS

VOLATILES

Project Name: FORMER SIGNORE
Project Number: 21.0056491.76
Lab Number: L1618428
Report Date: 06/27/16

SAMPLE RESULTS

Lab ID: L1618428-01
Client ID: EW-1.25-061516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/24/16 15:42
Analyst: PD

Date Collected: 06/15/16 11:15
Date Received: 06/15/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	2.9		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	3.1		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.2		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.24	J	ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	47		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1618428

Project Number: 21.0056491.76 **Report Date:** 06/27/16

SAMPLE RESULTS

Lab ID: L1618428-01 Date Collected: 06/15/16 11:15

Client ID: EW-1.25-061516 Date Received: 06/15/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	28		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.3	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

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

Project Name: FORMER SIGNORE
Project Number: 21.0056491.76
Lab Number: L1618428
Report Date: 06/27/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG907448-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: FORMER SIGNORE
Project Number: 21.0056491.76
Lab Number: L1618428
Report Date: 06/27/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG907448-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	0.86	J	ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: FORMER SIGNORE
Project Number: 21.0056491.76
Lab Number: L1618428
Report Date: 06/27/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/24/16 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG907448-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056491.76

Lab Number: L1618428

Report Date: 06/27/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG907448-3 WG907448-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
2-Chloroethylvinyl ether	**68**	Q	**65**	Q	70-130	5		20
Carbon tetrachloride	92		90		63-132	2		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	94		93		62-150	1		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	100		99		70-130	1		20
cis-1,3-Dichloropropene	97		95		70-130	2		20
1,1-Dichloropropene	120		110		70-130	9		20
Bromoform	80		76		54-136	5		20
1,1,2,2-Tetrachloroethane	100		99		67-130	1		20
Benzene	110		110		70-130	0		20
Toluene	120		110		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056491.76

Lab Number: L1618428

Report Date: 06/27/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG907448-3 WG907448-4								
Ethylbenzene	120		110		70-130	9		20
Chloromethane	100		110		64-130	10		20
Bromomethane	120		100		39-139	18		20
Vinyl chloride	100		100		55-140	0		20
Chloroethane	93		94		55-138	1		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	115		115		70-130	0		20
o-Xylene	115		115		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	97		96		70-130	1		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	110		110		70-130	0		20
Isopropyl Ether	120		120		70-130	0		20
tert-Butyl Alcohol	104		114		70-130	9		20
Styrene	115		115		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056491.76

Lab Number: L1618428

Report Date: 06/27/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG907448-3 WG907448-4								
Dichlorodifluoromethane	54		53		36-147	2		20
Acetone	110		100		58-148	10		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	100		98		63-138	2		20
Vinyl acetate	94		92		70-130	2		20
4-Methyl-2-pentanone	100		100		59-130	0		20
2-Hexanone	91		93		57-130	2		20
Acrolein	88		90		40-160	2		20
Bromochloromethane	97		96		70-130	1		20
2,2-Dichloropropane	100		99		63-133	1		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	120		110		70-130	9		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	120		120		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	94		92		70-130	2		20
o-Chlorotoluene	120		110		70-130	9		20
p-Chlorotoluene	120		110		70-130	9		20
1,2-Dibromo-3-chloropropane	75		79		41-144	5		20
Hexachlorobutadiene	120		120		63-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056491.76

Lab Number: L1618428
Report Date: 06/27/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG907448-3 WG907448-4								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	**54**	Q	74		70-130	**31**	Q	20
n-Propylbenzene	120		110		69-130	9		20
1,2,3-Trichlorobenzene	70		100		70-130	**35**	Q	20
1,2,4-Trichlorobenzene	87		95		70-130	9		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	100		100		70-130	0		20
Ethyl Acetate	100		100		70-130	0		20
Cyclohexane	100		100		70-130	0		20
Ethyl-Tert-Butyl-Ether	110		110		70-130	0		20
Tertiary-Amyl Methyl Ether	94		94		66-130	0		20
1,4-Dioxane	104		110		56-162	6		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	93		93		70-130	0		20
p-Diethylbenzene	98		96		70-130	2		20
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	91		92		70-130	1		20
Tetrahydrofuran	130		110		58-130	17		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	80		75		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056491.76

Lab Number: L1618428

Report Date: 06/27/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG907448-3 WG907448-4								
Iodomethane	**34**	Q	**49**	Q	70-130	**36**	Q	20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		100		70-130
Toluene-d8	109		108		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	98		98		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056491.76

Lab Number: L1618428
Report Date: 06/27/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1618428-01A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1618428-01B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1618428-01C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER SIGNORE	**Lab Number:**	L1618428
Project Number:	21.0056491.76	**Report Date:**	06/27/16

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER SIGNORE	**Lab Number:**	L1618428
Project Number:	21.0056491.76	**Report Date:**	06/27/16

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER SIGNORE	**Lab Number:**	L1618428
Project Number:	21.0056491.76	**Report Date:**	06/27/16

REFERENCES

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

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 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
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, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
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.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, 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, SM9222D-MF**.

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 6/16/16

ALPHA Job #: L1618428

Client Information

Client: GZA
Address: 535 Washington St
Buffalo NY 14203
Phone: 716-685-2300
Fax:
Email: Peter.Nyznyk@GZA.com

Project Information

Project Name: Former Signore
Project Location: Ellicottville NY
Project # 21.0056491.76
(Use Project name as Project #) ☐
Project Manager: J. Richert
ALPHAQuote #:

Turn-Around Time

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

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other ~~Client~~ NYSDEC EDD

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 # 21.0056491.76

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

VOC 8260 TCL

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	VOC 8260 TCL	Sample Specific Comments
18428 -01	EW-1.25-061516	6-15-16	1115	GW	PN	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

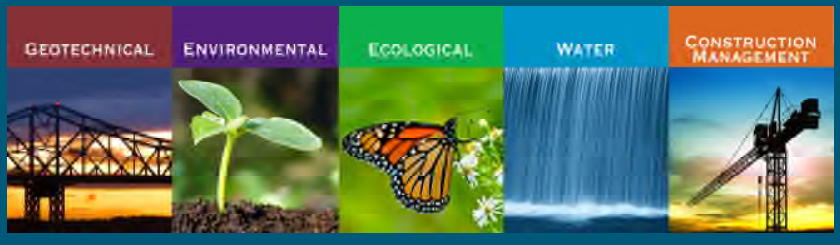
Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6-15-16/1610	[signature]	6/15/16 16:15
[signature] GZA 6/15/16		[signature]	01:55

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)



GZA GeoEnvironmental, Inc.

Proactive by Design

OCTOBER 2016
POST-INJECTION GROUNDWATER MONITORING DATA REPORT
Former Signore Inc.
55-57 Jefferson Street
Ellicottville New York 14731

December 2, 2016
File No. 21.0056367.62

PREPARED FOR:
Iskalo Ellicottville Holdings LLC
Williamsville, New York

GZA GeoEnvironmental of New York
535 Washington Street, 11th Floor | Buffalo, New York 14203
716-685-2300

26 Offices Nationwide
www.gza.com

Proactive by Design

GEOTECHNICAL
ENVIRONMENTAL
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WATER
CONSTRUCTION MANAGEMENT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203
T: 716.685.2300
F: 716.685.3629
www.gza.com

VIA EMAIL

December 2, 2016
File No. 21.0056367.62

Mr. David Chiazza
Iskalo Ellicottville Holdings LLC
Harbinger Square
5166 Main Street
Williamsville, NY 14221
dchiazza@iskalo.com

Re: October 2016 Post-Injection Groundwater Monitoring Data Report
Former Signore, Inc.
55-57 Jefferson Street
Ellicottville, NY 14731
NYSDEC Site No. C905034

Dear David:

GZA GeoEnvironmental of New York (GZA) is pleased to submit this post-injection groundwater monitoring data report to Iskalo Ellicottville Holdings LLC (Iskalo) presenting the analytical results of a seven well sampling event conducted in October 2016 at the above referenced Site. The post-injection groundwater monitoring was performed as required by New York State Department of Environmental Conservation (NYSDEC) as specified in the Decision Document for Brownfield Site No. C905034 dated July 2015. The post-injection monitoring was conducted in conjunction with the semi-annual groundwater monitoring of 12 other wells that has been performed since 1992 as required by NYSDEC and specified in the Record of Decision (ROD) dated January 1992.

Details of the remedial injection program and the first (August 2015) round of post-injection monitoring were provided in the Final Engineering Report for the Site, dated October 2015.

This data report provides well development forms, an analytical data summary table, graphs of pre- and post- injection concentrations of chlorinated solvents in groundwater, and the laboratory data report for the eight wells sampled.

The analytical results of the groundwater sampling provide useful information for documentation of concentrations of chlorinated volatile organic compounds (cVOCs) present in the on-Site groundwater. Groundwater cVOC concentrations measured at 15 months post-OCEDS injection (October 2016) follow trends typical for this stage of enhanced reductive dechlorination, with PCE and TCE concentrations decreasing in conjunction with production of DCE, VC, and ethene. As cVOC concentrations decline, biodegradation typically slows down due to less contact between cVOCs and dechlorination bacteria. Groundwater biogeochemical parameters are generally conducive to continued reductive dechlorination, with predominately low DO, ORP, nitrate, and sulfate in conjunction with higher groundwater concentrations of methane and reduced iron and manganese. The TOC concentrations are lower than they were at 11 months post-OCEDS injection. This is expected, as the OCEDS additive, by design, provides organic carbon for indigenous bacteria to

consume while reducing electron acceptors that compete with cVOCs. Biomass generated by bacterial growth cycles provides a sustainable source of organic carbon, helping to maintain groundwater conditions conducive to reductive dechlorination as the injected OCEDS is consumed. In GZA's opinion, groundwater conditions are generally conducive to continued reductive dechlorination. Monitoring will continue to more fully assess the long-term impacts of the OCEDS injections on groundwater quality at the Site and to continue to document the dechlorination process.

Per the Site Management Plan, continued post-injection groundwater monitoring is required on a semi-annual basis. The required monitoring is intended to more fully assess the long-term impacts of the injections on groundwater quality at the Site and provide necessary data for documentation of the dechlorination process. The next post-injection groundwater monitoring event is scheduled for spring of 2017.

Should you have any questions or require additional information following your review, please contact Jim Richert at 716-844-7048.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen
Project Manager

Karen Kinsella, Ph. D.
Technical Specialist

James J. Richert, P.G.
Senior Project Manager

Bart A. Klettke, P.E.
Principal

ATTACHMENTS

ATTACHMENT A	LIMITATIONS
ATTACHMENT B	WELL DEVELOPMENT FORMS
ATTACHMENT C	GROUNDWATER ANALYTICAL RESULTS SUMMARY
ATTACHMENT D	CONCENTRATIONS OF CVOC PARENT MATERIAL AND DAUGHTER PRODUCTS MEASURED IN GROUNDWATER
ATTACHMENT E	LABORATORY REPORT

ATTACHMENT A

LIMITATIONS

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

ATTACHMENT B

WELL DEVELOPMENT FORMS

File: 21.0056491.77

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**EW-1.25**	Ground Surface Elevation: 1532.29	Riser/Screen Material: Steel/Stainless Steel
Installation Date:	7/90	Protective Casing Elevation: 1532.29 ft.	Top of Screen Depth: 15 ft.
Installed By:	Empire Soils	Monitoring Point Elevation: 1531.96 ft.	Bottom of Screen Depth: 25 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color

Notes:

Field Observations				Parameters +/-	Sampling Information
Exterior Observations: All good				pH +/- 0.1	Sample ID: EW-1.25 - 102516
				Conductivity +/- 3%	Sample Time: 1145
Interior Observations	Roadbox Filled w/ water			Temperature +/- 10%	# of Sample Containers: 3
				Turbidity +/- 10%	Duplicate Sample ID: NA
				ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering: None				DO +/- 10%	
Locked (yes/no)	Well Cap (yes/no)	Surface Seal Intact (yes/no)	PID Measurement: 0.0 ppm	Odors: None	

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
10-25-16	1115	10.17	0	7.05	578.2	12.3	26.7	clear	1.56	-91.7	Depth of Water: 10.12
	1130	10.17	0.50	6.87	615.0	12.9	21.7	clear	0.32	-117.6	Length of Water Column: 13.77
	1135	10.17	0.75	6.86	615.9	13.0	12.7	clear	0.29	-118.9	Depth of Well: 23.89
	1190	10.17	1.00	6.84	615.6	12.8	12.1	clear	0.26	-121.8	Sheen Observed: Y (N)
	1195	10.17	1.25	6.89	612.8	13.0	11.87	clear	0.23	-125.1	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other: 1 well vol 2.25gal
											Inlet @ ~20'

File: 21.0056367.62

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):

Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-32**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	9/27/2012	Protective Casing Elevation:	Top of Screen Depth: 9 ft.
Installed By:	TREC	Monitoring Point Elevation:	Bottom of Screen Depth: 19 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.23	6.45	0.65	16.5	6.76	Clear

Notes:

Field Observations

Exterior Observations: All good

Interior Observations: All good

Signs of Damage/Tampering: None

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 ppm | Odors: NONE

Parameters +/-	
pH	+/- 0.1
Conductivity	+/- 3%
Temperature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10mV
DO	+/- 10%

Sampling Information

Sample ID: SP-32-102516

Sample Time: 1435

# of Sample Containers: 3

Duplicate Sample ID: NA

Sample Analysis: VOCs 8260

MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
10-25-16	1408	7.37	0	6.76	192.4	13.6	9.61	clear	2.86	115.0	Depth of Water: 7.11
	1420	7.42	0.10	6.04	179.8	14.7	5.68	clear	1.92	147.4	Length of Water Column: 11.57
	1425	7.42	0.30	6.02	180.8	14.9	5.26	clear	1.74	151.4	Depth of Well: 18.68
	1430	7.42	0.50	6.00	182.5	14.9	5.09	clear	1.70	152.4	Sheen Observed: Y (N)
	1435	7.42	0.70	6.00	181.9	15.1	4.96	clear	1.67	153.0	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other: 1 well vol. = 0.97 gal
											Inlet @ ~15'

File: 21.0056367.62

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-37**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	9/27/2012	Protective Casing Elevation:	Top of Screen Depth: 9 ft.
Installed By:	TREC	Monitoring Point Elevation:	Bottom of Screen Depth: 19 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.59	6.39	0.535	17	9.35	Clear

Notes:

Field Observations

Exterior Observations: All good
Interior Observations: All good
Signs of Damage/Tampering: None

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: SP-37-102616
Conductivity	+/- 3%	Sample Time: 1000
Temperature	+/- 10%	# of Sample Containers: 9
Turbidity	+/- 10%	Duplicate Sample ID: NA
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	MNA PARAMETERS

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 ppm | Odors:

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
10-26-16	0933	8.92	0	6.19	231.9	14.2	15.9	clear	0.95	85.3	Depth of Water: 7.87
	0950	8.90	0.50	6.01	246.1	14.0	5.28	clear	0.51	121.6	Length of Water Column: 11.15
	0955	8.90	0.75	5.99	246.5	14.0	5.18	clear	0.55	127.0	Depth of Well: 19.02
	1000	8.90	1.00	5.99	246.1	14.2	5.02	clear	0.55	130.2	Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other: 1 well vol. = 0.45 gal
											Inlet @ ~15'

File: 21.0056367.62

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-38**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	9/27/2012	Protective Casing Elevation:	Top of Screen Depth: 9 ft.
Installed By:	TREC	Monitoring Point Elevation:	Bottom of Screen Depth: 19 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.93	6.72	0.412	15.2	2.12	Clear

Notes:

Field Observations

Exterior Observations: All good

Interior Observations: All good

Signs of Damage/Tampering: None

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0ppm | Odors: None

Parameters +/-	
pH	+/- 0.1
Conductivity	+/- 3%
Temperature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10mV
DO	+/- 10%

Sampling Information:
Sample ID: SP-38-102616
Sample Time: 0915
# of Sample Containers: 7
Duplicate Sample ID: NA
Sample Analysis: VOCs 8260
MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
10-26-16	0850	8.40	0	6.11	269.0	12.1	7.11	clear	1.14	165.1	Depth of Water: 8.38
	0900	8.41	0.5	6.70	433.9	14.3	8.21	clear	0.28	20.0	Length of Water Column: 10.27
	0905	8.41	0.75	6.73	439.9	14.6	7.67	clear	0.25	-14.1	Depth of Well: 18.65
	0910	8.41	1.00	6.74	441.6	14.6	7.60	clear	0.25	-20.3	Sheen Observed: Y (N)
	0915	8.41	1.25	6.75	443.9	14.8	7.69	clear	0.23	-22.5	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other: 1 well vol = 0.92 gal
											Bailed @ ~15'

File: 21.0056367.62

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-43**	Ground Surface Elevation:		Riser/Screen Material: PVC
Installation Date:	10/1/2012	Protective Casing Elevation:		Top of Screen Depth: 10 ft.
Installed By:	TREC	Monitoring Point Elevation:		Bottom of Screen Depth: 20 ft.
		Elevation Datum:		

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
10.03	5.88	0.513	18.4	4.04	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations: All good	pH +/- 0.1	Sample ID: SP-43-102616
	Conductivity +/- 3%	Sample Time: 0930
Interior Observations All good	Temperature +/- 10%	# of Sample Containers: 9
	Turbidity +/- 10%	Duplicate Sample ID: NA
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering: None	DO +/- 10%	MNA PARAMETERS

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0 open | Odors: None

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
10-26-16	0800	9.13	0	6.58	225.6	13.0	7.16	clear	3.18	189.9	Depth of Water: 9.03
	0815	9.07	0.30	6.03	223.8	13.7	3.11	clear	1.86	188.6	Length of Water Column: 10.89
	0820	9.13	0.40	6.02	221.2	13.9	3.06	clear	2.05	186.9	Depth of Well: 19.92
	0825	9.13	0.50	6.02	223.3	14.2	3.00	clear	1.99	185.1	Sheen Observed: Y (N)
	0830	9.13	0.60	6.02	224.1	14.2	3.12	clear	1.96	184.3	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other: 1 well vol = 0.49gal
											Inlet @ ~15'

File: 21.0056367.62

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-45**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	10/1/2012	Protective Casing Elevation:	Top of Screen Depth: 9.2 ft.
Installed By:	TREC	Monitoring Point Elevation:	Bottom of Screen Depth: 19.2 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
11.25	6.83	0.363	17.8	2.3	Clear

Notes:

Field Observations

Exterior Observations: All good

Interior Observations: All good

Signs of Damage/Tampering: NONE

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0ppm | Odors: None

Parameters +/-	
pH	+/- 0.1
Conductivity	+/- 3%
Temperature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10mV
DO	+/- 10%

Sampling Information:
Sample ID: SP-45 - 102616
Sample Time: 1055
# of Sample Containers: 9
Duplicate Sample ID: NA
Sample Analysis: VOCs 8260
MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
10-26-16	1025	9.97	0	6.29	371.4	13.7	90.2	Cloudy	0.49	112.9	Depth of Water: 9.91
	1040	9.97	0.50	6.63	434.0	15.9	29.9	Cloudy	0.08	3.7	Length of Water Column: 1.09
	1045	9.97	0.75	6.64	435.2	15.7	19.2	Clear	0.07	0.4	Depth of Well: 19.00
	1050	9.97	1.00	6.65	437.2	15.9	17.8	Clear	0.08	-3.4	Sheen Observed: Y (N)
	1055	9.97	1.25	6.66	442.3	15.8	17.2	Clear	0.06	-8.7	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other: 1 well vol = 0.37 gal
											Start @ ~55'

File: 21.0056367.62

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	~~EW-1.25~~ TP-11	Ground Surface Elevation: 1532.29	Riser/Screen Material: Steel/Stainless Steel
Installation Date:	7/90	Protective Casing Elevation: 1532.29 ft.	Top of Screen Depth: 15 ft.
Installed By:	Empire Soils	Monitoring Point Elevation: 1531.96 ft.	Bottom of Screen Depth: 25 ft.
		Elevation Datum:	

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color

Notes:

Field Observations	Parameters +/-		Sampling Information
Exterior Observations:	pH	+/- 0.1	Sample ID: ~~EW-1.25~~ TP-11-102516
	Conductivity	+/- 3%	Sample Time: 1350
Interior Observations	Temperature	+/- 10%	# of Sample Containers: 3
	Turbidity	+/- 10%	Duplicate Sample ID: NA
	ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:	DO	+/- 10%	MNA PARAMETERS

Locked (yes/no)	Well Cap (yes/no)	Surface Seal Intact (yes/no)	PID Measurement:	Odors:

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
10-25-16	1322	9.88	0	6.93	503.3	13.1	92.8	Grey	3.21	60.0	Depth of Water: 9.83
	1335	9.88	0.3	6.83	507.5	13.6	10.09	Clear	2.31	69.7	Length of Water Column: 9.67
	1340	9.88	0.6	6.82	506.7	13.5	9.72	Clear	2.23	72.2	Depth of Well: 19.50
	1345	9.88	0.9	6.82	505.6	13.5	9.74	Clear	2.20	75.5	Sheen Observed: Y (N)
	1350	9.88	1.2	6.82	504.4	13.4	9.67	Clear	2.29	77.7	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other: 1 well vol = 0.40 gal.
											Inlet @ ~14'

ATTACHMENT C

GROUNDWATER ANALYTICAL RESULTS SUMMARY

Attachment C
October 2016 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	EW-1.25 6/25/2013	Q	EW-1.25 10/16/2013	Q	EW-1.25 6/10/2014	Q	EW-1.25 6/4/2015	Q	EW-1.25 8/21/2015	Q	EW-1.25 10/21/2015	Q	EW-1.25 6/15/2016	Q	EW-1.25 10/25/2016	Q	SP-32 10/3/2012	Q	SP-32 10/17/2013	Q	SP-32 6/10/2014	Q	SP-32 6/4/2015	Q	SP-32 8/21/2015	Q	SP-32 10/22/2015	Q	SP-32 6/15/2016	Q	SP-32 10/25/2016	Q
Volatile Organic Compounds - EPA Method SW-846, 8260B (ug/L)																																	
Acetone	50	<		<		<		<		<		3.8	J	2.3	J	<		<		240	D	<		<		<		<		2.8	J	<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	0.77	J	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	4.1		4.1		2.9		3		2.6		4.2		2.9		3.9		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		0.25	J	0.19	J	0.36	J	0.24	J	0.48	J	<		<		<		<		<		<		<		<	
Vinyl chloride	2	4.6		5		2.4		2.6		<		3.3		3.2		6.6		<		<		<		0.18	J	0.23	J	<		<		<	
2-Butanone	50	<		<		<		<		<		<		<		<		<		45		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	31		32		23		29		28		44		28		98		<		26		11		4.5		4.7		2.7		3.3		<	
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		0.7	J	<		<		<		<		<		<		<		<	
Tetrachloroethene	5	3.3		3.8		3.6		<		1.4		1.8		3.1		<		2.1		<		<		0.25	J	0.46	J	0.62		0.44	J	0.42	J
Trichloroethene	5	51		59		41		47		42		58		47		0.27	J	120		3.4		6.4		5.8		6.5		6.7		14		1.2	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		0.79	J	<		<		<		<		<		<		<		<	
Total VOCs	2	94.77		103.9		72.9		81.85		75.01		115.46		86.74		110.74		122.1		314.4		17.4		10.73		11.89		10.02		20.54		1.62	
Field Parameters																																	
Temperature (Deg. C)	NV	13		13.5		10.4		9.1		13.1		13.4		12.4		13		13.2		16.5		13.1		11.0		17.7		16.6		15.8		15.1	
Specific Conductance (mS/cm)	NV	0.7		0.68		0.7		0.757		0.67		0.68		0.653		0.612		0.418		0.65		0.392		0.326		0.272		0.223		0.232		0.181	
Dissolved Oxygen (mg/L)	NV	0.05		0.18		0.06		0.17		0.12		0.22		0.29		0.23		4.92		0.18		0.12		0.15		0.16		0.48		0.53		1.67	
Oxygen Reduction Potential (mv)	NV	-88.5		-99.3		-91.2		-130.5		-86.2		-91.6		161.4		-125.1		50.3		-95.3		-21.9		104.4		57.7		169.9		236.7		153	
pH (std. units)	NV	7.35		6.85		6.78		6.73		6.77		6.89		6.79		6.87		7.23		6.45		6.48		6.28		6.34		6.25		6.22		6.0	
Turbidity (NTUs)	NV	9.12		3.31		11.71		7.7		14.2		10.7		20.1		11.87		35		6.76		4.95		0.6		7.15		4.42		7.6		4.96	
Inorganics (ug/L)																																	
Iron	300	NS		1,000		14,000		14,000		11,500		11,900		27,300		10,500		NS		3,480		16,000		339		246		206		541		66	
Manganese	NV	NS		1,300		1,600		1,482		1,265		1,465		1,453		1,354		NS		24,600		19,000		6,468		8,331		2,897		2,668		1,144	
Miscellaneous Water Quality Parameters																																	
Methane (ug/L)	NV	NS		1,000		170		237		218		190		244		130		NS		120		660		725		932		208		205		3.31	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		<		NS		<		<		0.659		0.841		<		<		<	
Ethene (ug/L)	NV	NS		1.7		<		<		0.535		<		0.558		0.55		NS		1.7		<		<		<		<		<		<	
Total Organic Carbon (mg/L)	NV	NS		<		<		2.07		2.47		1.92		2.26		1.56		NS		51		<		1.35		1.7		1.02		1.45		0.87	
Chloride (mg/L)	NV	NS		66	B	69		62		57		56		49		45		NS		5	B	3.1		3.46		3.12		2.83		2.72		1.59	
Nitrate (mg/L)	NV	NS		<		<		0.015	J	0.020	J	<		<		0.029	J	NS		<		<		1.92		0.93		4.2		3.9		4.8	
Nitrite (mg/L)	NV	NS		<		<		NS		NS		NS		NS		NS		NS		<		<		NS		NS		NS		NS		NS	
Sulfate (mg/L)	NV	NS		7.6		7.4	B	12.8		10.3		10.5		10.2		11.7		NS		4.9	J	14	B	14.6		16.8		16.1		16.3		14.4	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica and Alpha Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Shaded concentrations exceed Class GA criteria.

Attachment C
October 2016 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-37 10/5/2012	Q	SP-37 10/17/2013	Q	SP-37 6/10/2014	Q	SP-37 6/4/2015	Q	SP-37 8/21/2015	Q	SP-37 10/23/2015	Q	SP-37 6/16/2016	Q	SP-37 10/26/2016	Q	SP-38 10/4/2012	Q	SP-38 10/17/2013	Q	SP-38 6/10/2014	Q	SP-38 8/21/2015	Q	SP-38 10/23/2015	Q	SP-38 6/15/2016	Q	SP-38 10/26/2016	Q
Volatile Organic Compounds - EPA Method SW-84																															
Acetone	50	<		<		<		<		<		<		2.6	J	<		<		<		<		<		<		1.6	J	<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		1.8	J	1.9		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		2	J	1.9	J	<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		0.21	J	0.42	J	<		<		<		<		<		22		0.39	J	4.0	
2-Butanone	50	<		<		<		<		<		<		<		<		<		<		<		26		2.1	J	<		<	
cis-1,2-Dichloroethene	5	1.8		7.3		0.99	J	3.4		9.9		9.4		6.7		12		<		1.5		1.2		46		0.82	J	<		<	
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		1	J	<		<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		<		2.4		<		<		0.86	J	<		<		<	
Tetrachloroethene	5	9.6		24		13		18		15		26		14		17		5		<		5.2		0.22	J	0.37	J	0.28	J	0.48	J
Trichloroethene	5	13		20		7.2		10		11		19		13		14		17		7.8		19		0.45	J	0.29	J	5.5	J	8.2	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs	2	24.4		51.3		27.2		31.4		36.72		54.61		36.72		43		24.4		9.3		25.4		77.33		30.38		7.77		12.68	
Field Parameters																															
Temperature (Deg. C)	NV	13.5		17		11.9		10		17		15.3		13.3		14.2		13.1		15.2		11.6		15.2		15.1		16.1		14.8	
Specific Conductance (mS/cm)	NV	0.452		0.535		0.305		0.449		0.432		0.396		0.291		0.246		0.437		0.412		0.437		1.03		0.69		0.419		0.443	
Dissolved Oxygen (mg/L)	NV	0.28		0.2		0.58		0.68		0.07		0.13		0.29		0.55		3.25		2.88		4.65		0.07		0.11		1.32		0.23	
Oxygen Reduction Potential (mv)	NV	-122.4		74.8		107.7		117.6		16.1		82.8		306.5		130.2		31.7		103.5		136		-124.2		-172.7		241.8		-22.5	
pH (std. units)	NV	6.6		6.39		6.28		6.12		6.28		6.3		6.03		5.99		6.81		6.72		6.72		7.1		7.39		6.59		6.75	
Turbidity (NTUs)	NV	2.5		9.35		12.5		1.4		5.27		2.3		5.93		5.02		27.4		2.12		19.2		12.3		2.12		6.39		7.69	
Inorganics (ug/L)																															
Iron	300	NS		61.7	B	900		81.4		409		66		85		56		<		<		1,500		5,660		3,040		352		811	
Manganese	NV	NS		336		150		1,021		6,015		2,035		1,137		1,445		5,100		41.1	B	180		24,820		12,680		2762		9031	
Miscellaneous Water Quality Parameters																															
Methane (ug/L)	NV	NS		26		2.5		28		108		67.4		47.2		<		<		20		1.1		807.0		636.0		3.9		13.7	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		<		NM		<		<		<		2.57		<		0.633	
Ethene (ug/L)	NV	NS		<		<		<		<		<		<		<		NM		<		<		3.45		4.56		<		2.04	
Total Organic Carbon (mg/L)	NV	NS		4	J	2.8	J	2.51		4.75		2.62		2.47		2.21		<		<		<		86.9		2.22		1.21		1.32	
Chloride (mg/L)	NV	NS		12	B	3.8		28.8		16.4		14.7		7.11		5.79		31		40	B	34		29		27.1		36.1		27.7	
Nitrate (mg/L)	NV	NS		4.8		5.2		2.98		0.04		0.27		1.40		3.20		4.7		1.4		3.3		0.0	J	<		0.6		0.24	
Nitrite (mg/L)	NV	NS		<		<		NS		NS		NS		NS		NS						<		<		NS		NS		NS	
Sulfate (mg/L)	NV	NS		36		24	B	23.3		18		21.1		18.3		21		23		11		13	B	0.063	J	5.99		11.5		16.1	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica and Alpha Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Shaded concentrations exceed Class GA criteria.

Attachment C
October 2016 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-43 10/4/2012	Q	SP-43 10/17/2013	Q	SP-43 6/10/2014	Q	SP-43 6/4/2015	Q	SP-43 8/21/2015	Q	SP-43 10/23/2015	Q	SP-43 6/16/2016	Q	SP-43 10/26/2016	Q	SP-45 10/4/2012	Q	SP-45 10/17/2013	Q	SP-45 6/10/2014	Q	SP-45 6/4/2015	Q	SP-45 8/21/2015	Q	SP-45 10/23/2015	Q	SP-45 6/16/2016	Q	SP-45 10/26/2016	Q	TP-11 6/3/2015	Q	TP-11 10/22/2015	Q	TP-11 6/16/2016	Q	TP-11 10/25/2016	Q
Volatile Organic Compounds - EPA Method SW-84																																										
Acetone	50	<		53		<		<		<		<		1.9	J	<		<		<		<		<		<		<		1.5	J	<		<		<		2	J	<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		3.2	DJ	<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		1.3		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		0.48	J	6.6		<		<		<		<		<		<		<		6.3		5.5		7.5		<		<		<		<	
2-Butanone	50	<		84		<		<		21		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	<		5.4		3.9		1.1	J	9.4		9.2		4.6		2.1	J	6.8		1.1		1.9		2.9		1.4	J	5.7		3.7		13		19		12		18		13	
Toluene	5	<		<		<		<		<		84.0		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	93		24		14		14		10		17		7.7		11.0		260	D	69		130		160		16		45		16		170		0.58		1.5		0.53		1.2	
Trichloroethene	5	5.2		2.6		<		0.72		2.20		8.30		0.71		0.70		13		3.6		6.4		8.5		1.5		7.5		7.2		53		88		74		77		58	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs	2	98.2		170.3		17.9		15.82		43.08		125.10		14.91		13.80		283.0		73.7		138.3		171.4		18.9		171.4		33.9		243.5		107.58		87.50		97.53		72.20	
Field Parameters																																										
Temperature (Deg. C)	NV	14.1		18.4		13		12.2		16.6		15.9		14.6		14.2		14.6		17.8		16.5		14		19.1		15.8		15.2		15.8		9.1		14.4		12.4		13.4	
Specific Conductance (mS/cm)	NV	0.445		0.513		0.304		0.773		0.66		0.68		0.237		0.224		0.543		0.363		0.391		0.584		0.6		0.62		0.503		0.442		0.574		0.535		0.493		0.504	
Dissolved Oxygen (mg/L)	NV	1.48		0.22		0.23		1.1		0.12		0.12		1.23		1.96		1.07		5.21		3.02		3.58		0.09		0.07		0.5		0.06		5.27		1.57		2.84		2.24	
Oxygen Reduction Potential (mv)	NV	44.2		-39.3		149		175.8		-15.1		-88.2		310.9		184.3		-29.5		88.3		143.1		73.3		-62.7		-61.7		250.7		-8.7		96.2		90.7		267.4		77.7	
pH (std. units)	NV	6.55		5.88		6.13		5.82		6.31		6.83		5.87		6.02		6.48		6.83		6.71		6.71		7.05		7.05		6.91		6.66		6.91		7.04		6.9		6.8	
Turbidity (NTUs)	NV	39.8		4.04		18		0.2		31.7		4.26		6.7		3.12		3.95		2.3		3.17		0.5		14.91		5.06		11.25		17.2		1.9		1.87		7.69		9.67	
Inorganics (ug/L)																																										
Iron	300	NS		6,150		7,100		54		5,780		6,220		127		114		NS		32.1	B	170	J	27.2	J	45	J	1,260		197		386		NS		NS		NS		NS	
Manganese	NV	NS		5,510		1,600		1,254		8,919		10,240		171.8		190.4		NS		<		<		1.93		296.4		3,510		1447		1,340		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters																																										
Methane (ug/L)	NV	NS		16		12		0.756	J	2,490.000		6,520.000		0.612		<		NS		14		1.1		0.762	J	96.9		958		1500		3610		NS		NS		NS		NS	
Ethane (ug/L)	NV	NS		2.4		<		<		<		<		<		<		NS		<		<		<		<		<		1.18		2.47		NS		NS		NS		NS	
Ethene (ug/L)	NV	NS		3.7		<		<		<		2.13		<		<		NS		<		<		<		<		1.08		2.59		3.36		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		80		<		1.84		28.8		3.62		2.09		1.91		NS		<		<		1.64		3.93		1.86		1.69		1.49		NS		NS		NS		NS	
Chloride (mg/L)	NV	NS		6.3	B	2.2		136.0		62.2		40.0		12.2		9.6		NS		5.1	B	4.2		35.0		9.4		17.3		15.4		12.6		NS		NS		NS		NS	
Nitrate (mg/L)	NV	NS		0.36		8.30		8.65		0.59		0.21		2.10		4.10		NS		6		5.2		2.68		1.2		1.9		0.39		0.72		NS		NS		NS		NS	
Nitrite (mg/L)	NV	NS		<		0.042	J	NS		NS		NS		NS		NS		NS		<		<		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Sulfate (mg/L)	NV	NS		12		25	B	19.8		18.3		13.3		22		21.4		NS		39		33	B	32.7		43.4		22.4		24		23.8		NS		NS		NS		NS	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica and Alpha Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
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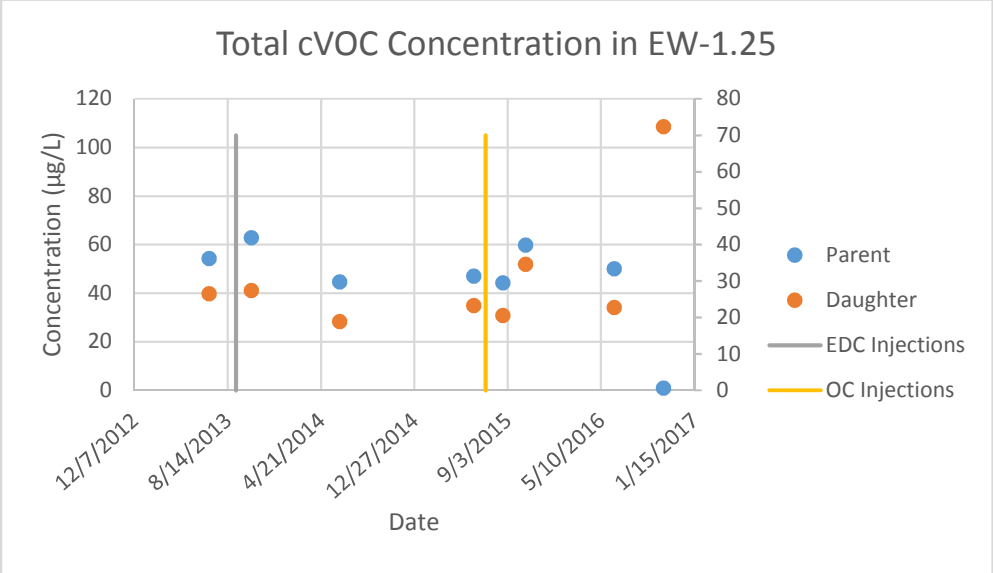
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Shaded concentrations exceed Class GA criteria.

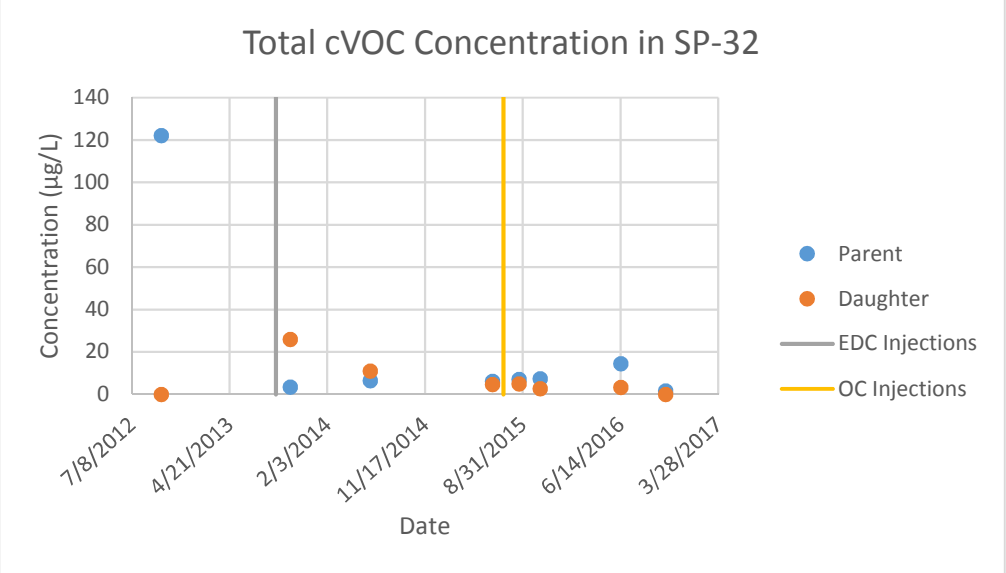
ATTACHMENT D

CONCENTRATIONS OF CVOC PARENT MATERIAL AND DAUGHTER PRODUCTS IN GROUNDWATER

Attachment D

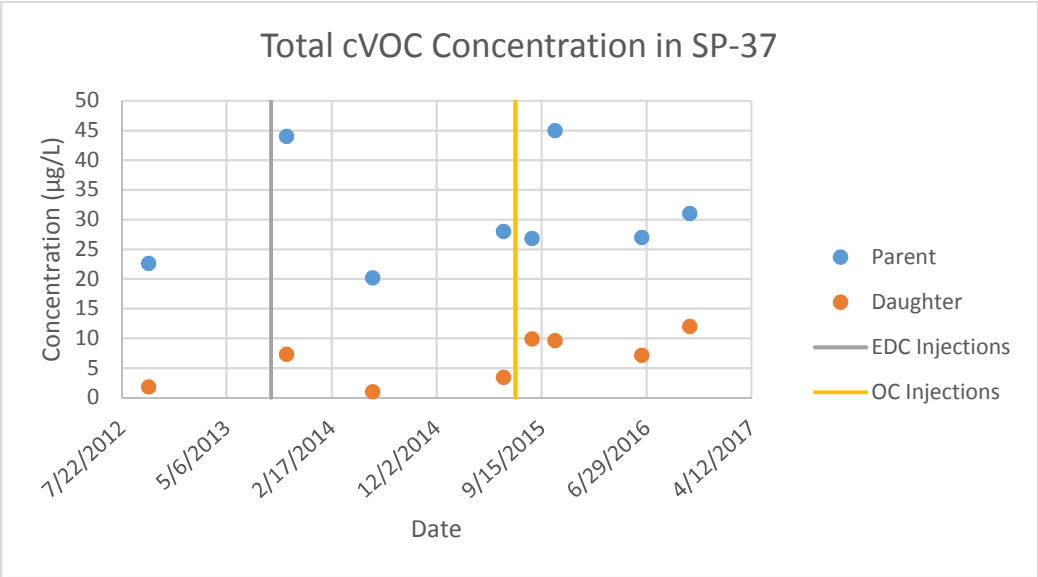
Concentrations of cVOC Parent Material and Daughter Products in Groundwater
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

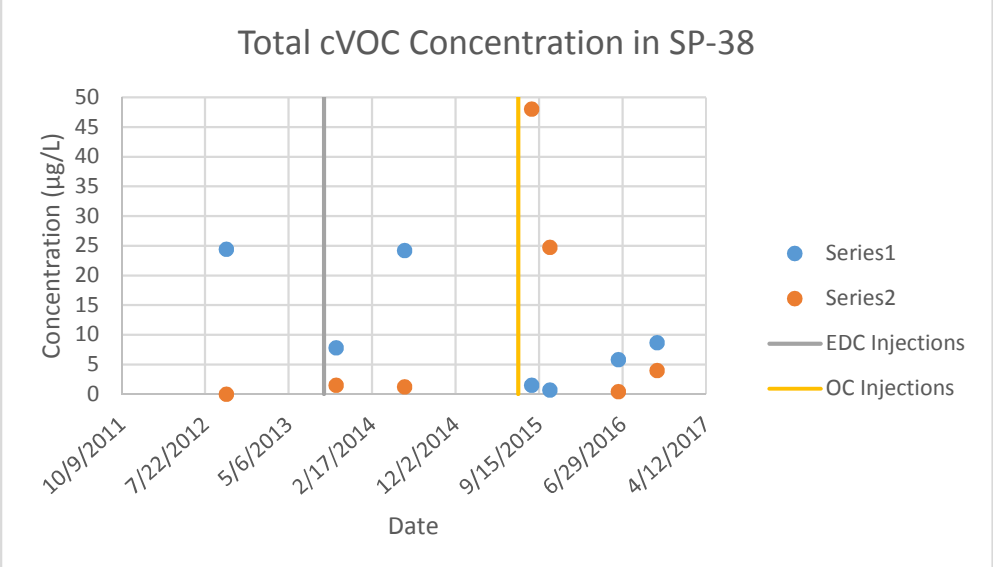




Attachment D

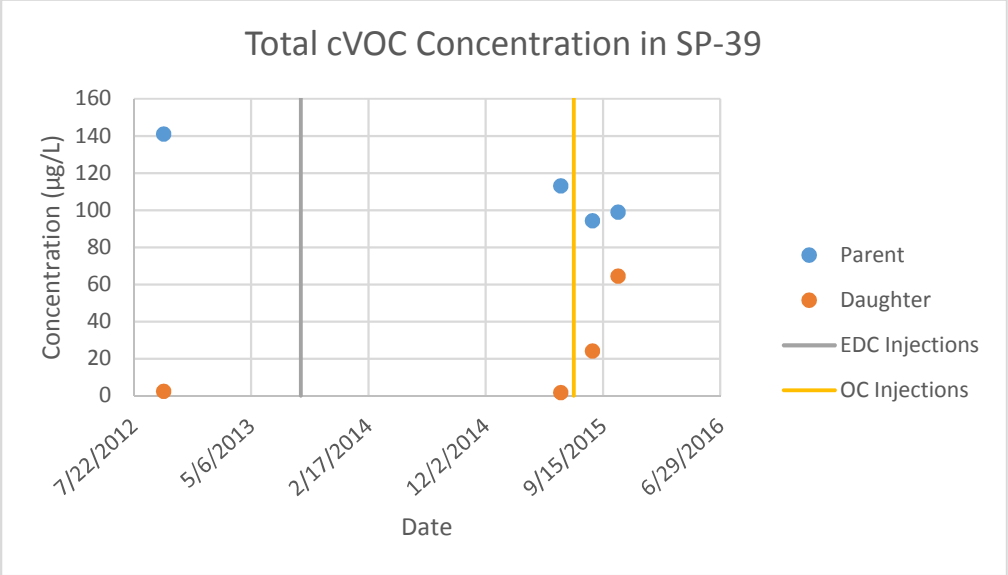
Concentrations of cVOC Parent Material and Daughter Products in Groundwater
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

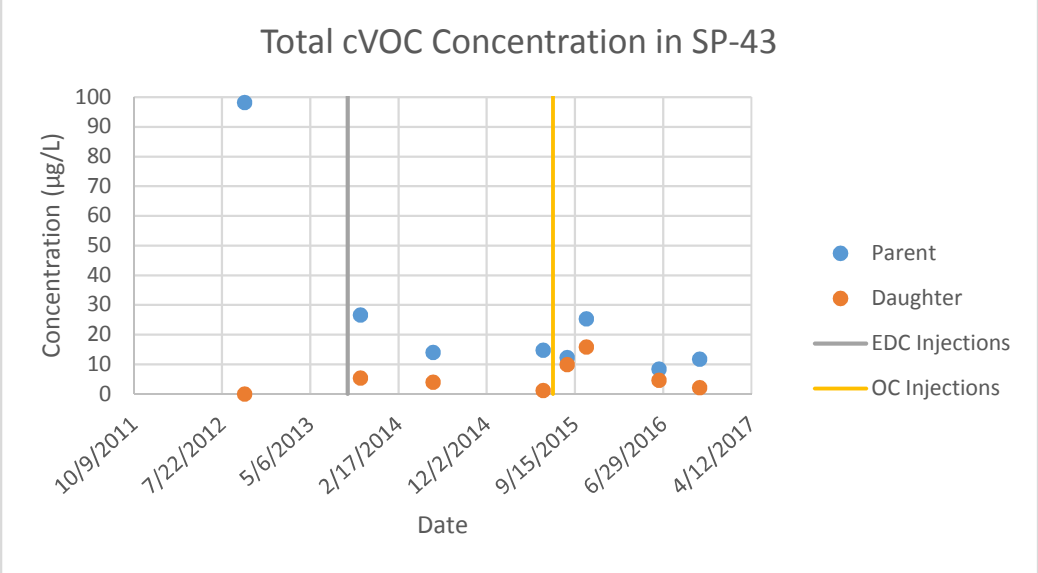




Attachment D

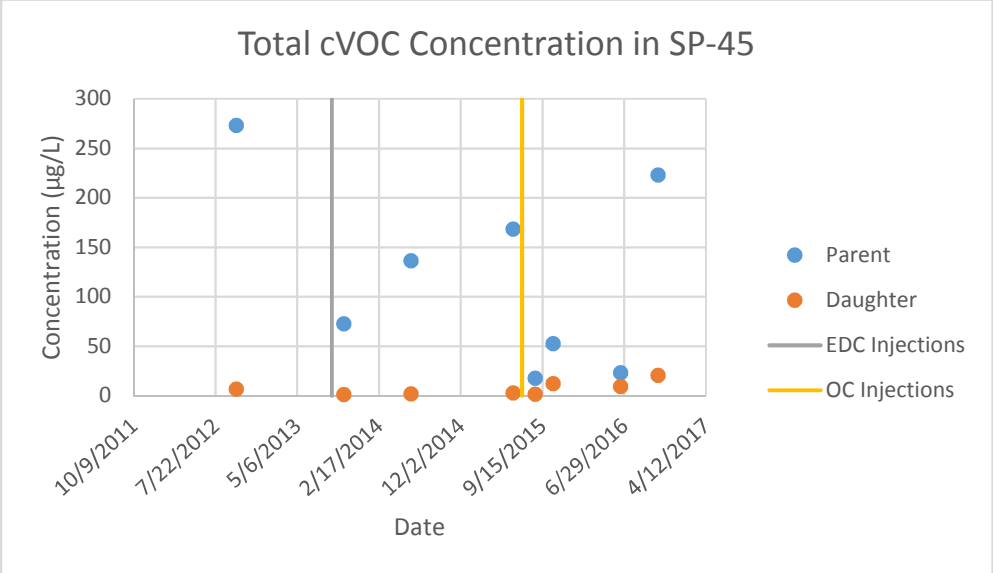
Concentrations of cVOC Parent Material and Daughter Products in Groundwater
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

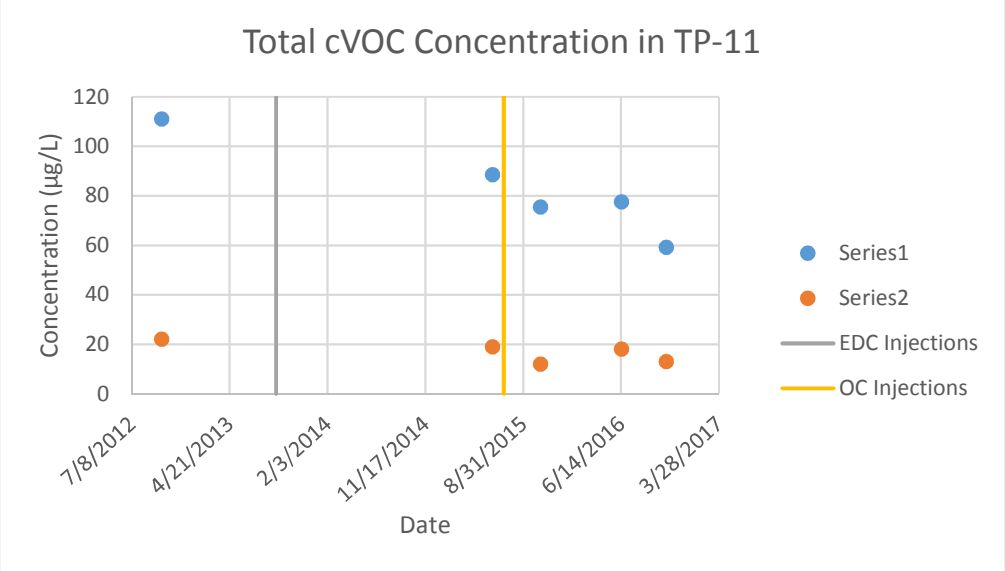




Attachment D

Concentrations of cVOC Parent Material and Daughter Products in Groundwater
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York





ATTACHMENT E

LABORATORY REPORT

ANALYTICAL REPORT

Lab Number:	L1634559
Client:	GZA GeoEnvironmental 535 Washington St. Buffalo, NY 14203
ATTN:	James Richert
Phone:	(716) 685-2300
Project Name:	FORMER SIGNORE
Project Number:	21.0056491.77
Report Date:	11/01/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77

Lab Number: L1634559
Report Date: 11/01/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1634559-01	EW-1.25-102516	WATER	ELLICOTTVILLE, NY	10/25/16 11:45	10/26/16

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77
Lab Number: L1634559
Report Date: 11/01/16

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:	FORMER SIGNORE	**Lab Number:**	L1634559
Project Number:	21.0056491.77	**Report Date:**	11/01/16

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 11/01/16

ORGANICS

VOLATILES

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77
Lab Number: L1634559
Report Date: 11/01/16

SAMPLE RESULTS

Lab ID: L1634559-01
Client ID: EW-1.25-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/31/16 12:53
Analyst: PD

Date Collected: 10/25/16 11:45
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	3.9		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	0.70	J	ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	6.6		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.48	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.79	J	ug/l	2.5	0.70	1
Trichloroethene	0.27	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1634559

Project Number: 21.0056491.77 **Report Date:** 11/01/16

SAMPLE RESULTS

Lab ID: L1634559-01 Date Collected: 10/25/16 11:45

Client ID: EW-1.25-102516 Date Received: 10/26/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	98		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	103		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77
Lab Number: L1634559
Report Date: 11/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/16 11:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG947662-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77
Lab Number: L1634559
Report Date: 11/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/16 11:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG947662-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77
Lab Number: L1634559
Report Date: 11/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/16 11:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG947662-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056491.77

Lab Number: L1634559

Report Date: 11/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG947662-3 WG947662-4								
Methylene chloride	110		98		70-130	12		20
1,1-Dichloroethane	120		100		70-130	18		20
Chloroform	120		110		70-130	9		20
2-Chloroethylvinyl ether	88		100		70-130	13		20
Carbon tetrachloride	120		100		63-132	18		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	120		110		63-130	9		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	110		99		62-150	11		20
1,2-Dichloroethane	120		110		70-130	9		20
1,1,1-Trichloroethane	120		100		67-130	18		20
Bromodichloromethane	120		110		67-130	9		20
trans-1,3-Dichloropropene	120		110		70-130	9		20
cis-1,3-Dichloropropene	120		110		70-130	9		20
1,1-Dichloropropene	110		99		70-130	11		20
Bromoform	120		110		54-136	9		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	110		100		70-130	10		20
Toluene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056491.77

Lab Number: L1634559

Report Date: 11/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG947662-3 WG947662-4								
Ethylbenzene	120		110		70-130	9		20
Chloromethane	85		72		64-130	17		20
Bromomethane	110		95		39-139	15		20
Vinyl chloride	96		88		55-140	9		20
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	100		93		61-145	7		20
trans-1,2-Dichloroethene	110		99		70-130	11		20
Trichloroethene	120		100		70-130	18		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	110		100		63-130	10		20
p/m-Xylene	115		110		70-130	4		20
o-Xylene	115		110		70-130	4		20
cis-1,2-Dichloroethene	120		100		70-130	18		20
Dibromomethane	120		100		70-130	18		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	110		100		70-130	10		20
Isopropyl Ether	110		100		70-130	10		20
tert-Butyl Alcohol	116		106		70-130	9		20
Styrene	115		110		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056491.77

Lab Number: L1634559

Report Date: 11/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG947662-3 WG947662-4								
Dichlorodifluoromethane	68		62		36-147	9		20
Acetone	130		110		58-148	17		20
Carbon disulfide	110		87		51-130	**23**	Q	20
2-Butanone	120		100		63-138	18		20
Vinyl acetate	110		95		70-130	15		20
4-Methyl-2-pentanone	110		100		59-130	10		20
2-Hexanone	110		100		57-130	10		20
Acrolein	110		92		40-160	18		20
Bromochloromethane	130		110		70-130	17		20
2,2-Dichloropropane	120		100		63-133	18		20
1,2-Dibromoethane	110		100		70-130	10		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	120		110		64-130	9		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	120		120		70-130	0		20
p-Chlorotoluene	120		110		70-130	9		20
1,2-Dibromo-3-chloropropane	100		95		41-144	5		20
Hexachlorobutadiene	120		110		63-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77

Lab Number: L1634559
Report Date: 11/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG947662-3 WG947662-4								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	120		110		70-130	9		20
Naphthalene	100		100		70-130	0		20
n-Propylbenzene	120		110		69-130	9		20
1,2,3-Trichlorobenzene	110		100		70-130	10		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	120		110		64-130	9		20
1,2,4-Trimethylbenzene	120		110		70-130	9		20
Methyl Acetate	120		110		70-130	9		20
Ethyl Acetate	110		100		70-130	10		20
Cyclohexane	99		89		70-130	11		20
Ethyl-Tert-Butyl-Ether	110		100		70-130	10		20
Tertiary-Amyl Methyl Ether	110		100		66-130	10		20
1,4-Dioxane	126		102		56-162	**21**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		93		70-130	7		20
p-Diethylbenzene	120		110		70-130	9		20
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	120		110		70-130	9		20
Tetrahydrofuran	110		98		58-130	12		20
Ethyl ether	120		100		59-134	18		20
trans-1,4-Dichloro-2-butene	100		99		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056491.77

Lab Number: L1634559

Report Date: 11/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG947662-3 WG947662-4								
Iodomethane	120		100		70-130	18		20
Methyl cyclohexane	100		92		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		107		70-130
Toluene-d8	98		102		70-130
4-Bromofluorobenzene	102		105		70-130
Dibromofluoromethane	109		106		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77

Lab Number: L1634559
Report Date: 11/01/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1634559-01A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634559-01B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634559-01C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER SIGNORE	**Lab Number:**	L1634559
Project Number:	21.0056491.77	**Report Date:**	11/01/16

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER SIGNORE	**Lab Number:**	L1634559
Project Number:	21.0056491.77	**Report Date:**	11/01/16

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name: FORMER SIGNORE
Project Number: 21.0056491.77
Lab Number: L1634559
Report Date: 11/01/16

REFERENCES

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

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, SM9222D-MF**.

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 10/27/16

ALPHA Job #: L1634559

Client Information

Client: GZA
Address: 535 Washington St
Buffalo, NY 14203
Phone: 716-685-2360
Fax:
Email: Peter.Nyznyk@GZA.com

Project Information

Project Name: Former Signore
Project Location: Ellicottville NY
Project # 21.0056491.77
(Use Project name as Project #) ☐
Project Manager: J. Richert
ALPHAQuote #:

Turn-Around Time

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

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other ★ Client NYSDEC EQDD ★

Billing Information

☒ Same as Client Info
PO # 21.0056491.77

Regulatory Requirement

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

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260 TCL	Total Bottle	Sample Specific Comments
34559-01	EW-1.25-102516	10-25-16	1145	GW	PN	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									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	10-26-16 1350	AAC	10/26/16 1350
AAC	10/26/16 1700		10/27/16 0145

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

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

ANALYTICAL REPORT

Lab Number:	L1634563
Client:	GZA GeoEnvironmental 535 Washington St. Buffalo, NY 14203
ATTN:	James Richert
Phone:	(716) 685-2300
Project Name:	FORMER SIGNORE
Project Number:	21.0056367.62
Report Date:	11/02/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1634563-01	EW-1.25-102516	WATER	ELLICOTTVILLE, NY	10/25/16 11:45	10/26/16
L1634563-02	TP-11-102516	WATER	ELLICOTTVILLE, NY	10/25/16 13:50	10/26/16
L1634563-03	SP-32-102516	WATER	ELLICOTTVILLE, NY	10/25/16 14:35	10/26/16
L1634563-04	SP-43-102616	WATER	ELLICOTTVILLE, NY	10/26/16 08:30	10/26/16
L1634563-05	SP-38-102616	WATER	ELLICOTTVILLE, NY	10/26/16 09:15	10/26/16
L1634563-06	SP-37-102616	WATER	ELLICOTTVILLE, NY	10/26/16 10:00	10/26/16
L1634563-07	SP-45-102616	WATER	ELLICOTTVILLE, NY	10/26/16 10:55	10/26/16
L1634563-08	TRIP BLANK	WATER	ELLICOTTVILLE, NY	10/26/16 00:00	10/26/16

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

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:	FORMER SIGNORE	**Lab Number:**	L1634563
Project Number:	21.0056367.62	**Report Date:**	11/02/16

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.

Nitrogen, Nitrate

L1634563-01 and -03: The sample was analyzed for Nitrite within the method required holding time. An aliquot of sample was then preserved and analyzed for Nitrate.

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: 11/02/16

ORGANICS

VOLATILES

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-01
Client ID: EW-1.25-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 10/28/16 11:06
Analyst: LB

Date Collected: 10/25/16 11:45
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	130		ug/l	0.500	0.500	1	A
Ethene	0.550		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-02
Client ID: TP-11-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/31/16 13:58
Analyst: KD

Date Collected: 10/25/16 13:50
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	1.2		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	58		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1634563

Project Number: 21.0056367.62 **Report Date:** 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-02 Date Collected: 10/25/16 13:50

Client ID: TP-11-102516 Date Received: 10/26/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	13		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	104		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-03
Client ID: SP-32-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/31/16 14:30
Analyst: KD

Date Collected: 10/25/16 14:35
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.42	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1634563

Project Number: 21.0056367.62 **Report Date:** 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-03 Date Collected: 10/25/16 14:35

Client ID: SP-32-102516 Date Received: 10/26/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-03
Client ID: SP-32-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 10/28/16 11:20
Analyst: LB

Date Collected: 10/25/16 14:35
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	3.31		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-04
Client ID: SP-43-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/31/16 15:02
Analyst: KD

Date Collected: 10/26/16 08:30
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	11		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.70		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-04
Client ID: SP-43-102616
Sample Location: ELLICOTTVILLE, NY
Date Collected: 10/26/16 08:30
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.1	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-04
Client ID: SP-43-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 10/28/16 11:35
Analyst: LB

Date Collected: 10/26/16 08:30
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	ND		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-05
Client ID: SP-38-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/31/16 16:07
Analyst: KD

Date Collected: 10/26/16 09:15
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.48	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	4.0		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	8.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1634563

Project Number: 21.0056367.62 **Report Date:** 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-05 Date Collected: 10/26/16 09:15

Client ID: SP-38-102616 Date Received: 10/26/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	108		70-130

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-05
Client ID: SP-38-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 10/28/16 11:49
Analyst: LB

Date Collected: 10/26/16 09:15
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13.7		ug/l	0.500	0.500	1	A
Ethene	2.04		ug/l	0.500	0.500	1	A
Ethane	0.633		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-06
Client ID: SP-37-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/31/16 15:35
Analyst: KD

Date Collected: 10/26/16 10:00
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	17		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	14		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1634563

Project Number: 21.0056367.62 **Report Date:** 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-06 Date Collected: 10/26/16 10:00

Client ID: SP-37-102616 Date Received: 10/26/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	12		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	104		70-130

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-06
Client ID: SP-37-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 10/28/16 12:04
Analyst: LB

Date Collected: 10/26/16 10:00
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	ND		ug/l	0.500	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-07
Client ID: SP-45-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 117,-
Analytical Date: 10/28/16 12:19
Analyst: LB

Date Collected: 10/26/16 10:55
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	3610		ug/l	0.500	0.500	1	A
Ethene	3.36		ug/l	0.500	0.500	1	A
Ethane	2.47		ug/l	0.500	0.500	1	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-07 D
Client ID: SP-45-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/31/16 13:26
Analyst: PD

Date Collected: 10/26/16 10:55
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	170		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	7.5		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	53		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: FORMER SIGNORE **Lab Number:** L1634563

Project Number: 21.0056367.62 **Report Date:** 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-07 D Date Collected: 10/26/16 10:55

Client ID: SP-45-102616 Date Received: 10/26/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	13		ug/l	5.0	1.4	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	ND		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-08
Client ID: TRIP BLANK
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/31/16 16:39
Analyst: PD

Date Collected: 10/26/16 00:00
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER SIGNORE **Lab Number:** L1634563

Project Number: 21.0056367.62 **Report Date:** 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-08 Date Collected: 10/26/16 00:00

Client ID: TRIP BLANK Date Received: 10/26/16

Sample Location: ELLICOTTVILLE, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 10/28/16 10:33
Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01,03-07 Batch: WG946825-3						
Methane	ND		ug/l	0.500	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/16 11:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-08 Batch: WG947662-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/16 11:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-08 Batch: WG947662-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/16 11:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-08 Batch: WG947662-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.62

Lab Number: L1634563

Report Date: 11/02/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01,03-07 Batch: WG946825-2									
Methane	110		-		80-120	-		25	A
Ethene	110		-		80-120	-		25	A
Ethane	112		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.62

Lab Number: L1634563

Report Date: 11/02/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG947662-3 WG947662-4								
Methylene chloride	110		98		70-130	12		20
1,1-Dichloroethane	120		100		70-130	18		20
Chloroform	120		110		70-130	9		20
2-Chloroethylvinyl ether	88		100		70-130	13		20
Carbon tetrachloride	120		100		63-132	18		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	120		110		63-130	9		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	110		99		62-150	11		20
1,2-Dichloroethane	120		110		70-130	9		20
1,1,1-Trichloroethane	120		100		67-130	18		20
Bromodichloromethane	120		110		67-130	9		20
trans-1,3-Dichloropropene	120		110		70-130	9		20
cis-1,3-Dichloropropene	120		110		70-130	9		20
1,1-Dichloropropene	110		99		70-130	11		20
Bromoform	120		110		54-136	9		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	110		100		70-130	10		20
Toluene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG947662-3 WG947662-4								
Ethylbenzene	120		110		70-130	9		20
Chloromethane	85		72		64-130	17		20
Bromomethane	110		95		39-139	15		20
Vinyl chloride	96		88		55-140	9		20
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	100		93		61-145	7		20
trans-1,2-Dichloroethene	110		99		70-130	11		20
Trichloroethene	120		100		70-130	18		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	110		100		63-130	10		20
p/m-Xylene	115		110		70-130	4		20
o-Xylene	115		110		70-130	4		20
cis-1,2-Dichloroethene	120		100		70-130	18		20
Dibromomethane	120		100		70-130	18		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	110		100		70-130	10		20
Isopropyl Ether	110		100		70-130	10		20
tert-Butyl Alcohol	116		106		70-130	9		20
Styrene	115		110		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.62

Lab Number: L1634563

Report Date: 11/02/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG947662-3 WG947662-4								
Dichlorodifluoromethane	68		62		36-147	9		20
Acetone	130		110		58-148	17		20
Carbon disulfide	110		87		51-130	**23**	Q	20
2-Butanone	120		100		63-138	18		20
Vinyl acetate	110		95		70-130	15		20
4-Methyl-2-pentanone	110		100		59-130	10		20
2-Hexanone	110		100		57-130	10		20
Acrolein	110		92		40-160	18		20
Bromochloromethane	130		110		70-130	17		20
2,2-Dichloropropane	120		100		63-133	18		20
1,2-Dibromoethane	110		100		70-130	10		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	120		110		64-130	9		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	120		120		70-130	0		20
p-Chlorotoluene	120		110		70-130	9		20
1,2-Dibromo-3-chloropropane	100		95		41-144	5		20
Hexachlorobutadiene	120		110		63-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG947662-3 WG947662-4								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	120		110		70-130	9		20
Naphthalene	100		100		70-130	0		20
n-Propylbenzene	120		110		69-130	9		20
1,2,3-Trichlorobenzene	110		100		70-130	10		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	120		110		64-130	9		20
1,2,4-Trimethylbenzene	120		110		70-130	9		20
Methyl Acetate	120		110		70-130	9		20
Ethyl Acetate	110		100		70-130	10		20
Cyclohexane	99		89		70-130	11		20
Ethyl-Tert-Butyl-Ether	110		100		70-130	10		20
Tertiary-Amyl Methyl Ether	110		100		66-130	10		20
1,4-Dioxane	126		102		56-162	**21**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		93		70-130	7		20
p-Diethylbenzene	120		110		70-130	9		20
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	120		110		70-130	9		20
Tetrahydrofuran	110		98		58-130	12		20
Ethyl ether	120		100		59-134	18		20
trans-1,4-Dichloro-2-butene	100		99		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.62

Lab Number: L1634563

Report Date: 11/02/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-08 Batch: WG947662-3 WG947662-4								
Iodomethane	120		100		70-130	18		20
Methyl cyclohexane	100		92		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		107		70-130
Toluene-d8	98		102		70-130
4-Bromofluorobenzene	102		105		70-130
Dibromofluoromethane	109		106		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01,03-07 QC Batch ID: WG946825-5 QC Sample: L1634563-03 Client ID: SP-32-102516													
Methane	3.31	54.6	62.6	109		-	-		80-120	-		25	A
Ethene	ND	95.5	102	107		-	-		80-120	-		25	A
Ethane	ND	102	110	107		-	-		80-120	-		25	A

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits	
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01,03-07 QC Batch ID: WG946825-4 QC Sample: L1634563-07 Client ID: SP-45-102616							
Methane	3610	3780	ug/l	5		25	A
Ethene	3.36	3.77	ug/l	12		25	A
Ethane	2.47	2.93	ug/l	17		25	A

METALS

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-01
Client ID: EW-1.25-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/25/16 11:45
Date Received: 10/26/16
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											
Iron, Total	10.5		mg/l	0.050	0.019	1	11/01/16 06:45	11/01/16 14:09	EPA 3005A	1,6020A	AM
Manganese, Total	1.354		mg/l	0.0010	0.0004	1	11/01/16 06:45	11/01/16 14:09	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-03
Client ID: SP-32-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Date Collected: 10/25/16 14:35
Date Received: 10/26/16
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											
Iron, Total	0.066		mg/l	0.050	0.019	1	11/01/16 06:45	11/01/16 14:23	EPA 3005A	1,6020A	AM
Manganese, Total	1.144		mg/l	0.0010	0.0004	1	11/01/16 06:45	11/01/16 14:23	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-04
Client ID: SP-43-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/26/16 08:30
Date Received: 10/26/16
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											
Iron, Total	0.114		mg/l	0.050	0.019	1	11/01/16 06:45	11/01/16 14:26	EPA 3005A	1,6020A	AM
Manganese, Total	0.1904		mg/l	0.0010	0.0004	1	11/01/16 06:45	11/01/16 14:26	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-05
Client ID: SP-38-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/26/16 09:15
Date Received: 10/26/16
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											
Iron, Total	0.811		mg/l	0.050	0.019	1	11/01/16 06:45	11/01/16 14:29	EPA 3005A	1,6020A	AM
Manganese, Total	9.031		mg/l	0.0010	0.0004	1	11/01/16 06:45	11/01/16 14:29	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-06
Client ID: SP-37-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/26/16 10:00
Date Received: 10/26/16
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											
Iron, Total	0.056		mg/l	0.050	0.019	1	11/01/16 06:45	11/01/16 14:32	EPA 3005A	1,6020A	AM
Manganese, Total	0.1445		mg/l	0.0010	0.0004	1	11/01/16 06:45	11/01/16 14:32	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Lab Number: L1634563
Project Number: 21.0056367.62
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-07
Client ID: SP-45-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/26/16 10:55
Date Received: 10/26/16
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											
Iron, Total	0.386		mg/l	0.050	0.019	1	11/01/16 06:45	11/01/16 14:35	EPA 3005A	1,6020A	AM
Manganese, Total	1.340		mg/l	0.0010	0.0004	1	11/01/16 06:45	11/01/16 14:35	EPA 3005A	1,6020A	AM

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03-07 Batch: WG947765-1										
Iron, Total	ND		mg/l	0.050	0.019	1	11/01/16 06:45	11/01/16 13:50	1,6020A	AM
Manganese, Total	ND		mg/l	0.0010	0.0004	1	11/01/16 06:45	11/01/16 13:50	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.62

Lab Number: L1634563

Report Date: 11/02/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-07 Batch: WG947765-2								
Iron, Total	91		-		80-120	-		
Manganese, Total	94		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-07 QC Batch ID: WG947765-3 QC Sample: L1634963-01 Client ID: MS Sample												
Iron, Total	10.1	1	11.8	**170**	Q	-	-		75-125	-		20
Manganese, Total	0.6008	0.5	1.175	115		-	-		75-125	-		20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-01
Client ID: EW-1.25-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/25/16 11:45
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	0.029	J	mg/l	0.10	0.019	1	-	10/27/16 19:58	44,353.2	MR
Total Organic Carbon	1.56		mg/l	0.500	0.114	1	-	10/31/16 07:16	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	44.6		mg/l	0.500	0.054	1	-	10/27/16 19:53	44,300.0	AU
Sulfate	11.7		mg/l	1.00	0.150	1	-	10/27/16 19:53	44,300.0	AU

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-03
Client ID: SP-32-102516
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/25/16 14:35
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	4.8		mg/l	0.10	0.019	1	-	10/27/16 20:00	44,353.2	MR
Total Organic Carbon	0.870		mg/l	0.500	0.114	1	-	10/31/16 07:16	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	1.59		mg/l	0.500	0.054	1	-	10/27/16 20:05	44,300.0	AU
Sulfate	14.4		mg/l	1.00	0.150	1	-	10/27/16 20:05	44,300.0	AU

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-04
Client ID: SP-43-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/26/16 08:30
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	4.1		mg/l	0.10	0.019	1	-	10/27/16 20:05	44,353.2	MR
Total Organic Carbon	1.91		mg/l	0.500	0.114	1	-	10/31/16 07:16	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	9.63		mg/l	0.500	0.054	1	-	10/27/16 20:17	44,300.0	AU
Sulfate	21.4		mg/l	1.00	0.150	1	-	10/27/16 20:17	44,300.0	AU

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-05
Client ID: SP-38-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/26/16 09:15
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	0.24		mg/l	0.10	0.019	1	-	10/27/16 20:06	44,353.2	MR
Total Organic Carbon	1.32		mg/l	1.00	0.228	2	-	10/31/16 07:16	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	27.7		mg/l	0.500	0.054	1	-	10/27/16 20:29	44,300.0	AU
Sulfate	16.1		mg/l	1.00	0.150	1	-	10/27/16 20:29	44,300.0	AU

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-06
Client ID: SP-37-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water

Date Collected: 10/26/16 10:00
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	3.2		mg/l	0.10	0.019	1	-	10/27/16 20:07	44,353.2	MR
Total Organic Carbon	2.21		mg/l	1.00	0.228	2	-	10/31/16 07:16	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	5.79		mg/l	0.500	0.054	1	-	10/27/16 20:41	44,300.0	AU
Sulfate	21.0		mg/l	1.00	0.150	1	-	10/27/16 20:41	44,300.0	AU

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

SAMPLE RESULTS

Lab ID: L1634563-07
Client ID: SP-45-102616
Sample Location: ELLICOTTVILLE, NY
Matrix: Water
Date Collected: 10/26/16 10:55
Date Received: 10/26/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate	0.72		mg/l	0.10	0.019	1	-	10/27/16 20:09	44,353.2	MR
Total Organic Carbon	1.49		mg/l	0.500	0.114	1	-	10/31/16 07:16	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	12.6		mg/l	0.500	0.054	1	-	10/27/16 20:53	44,300.0	AU
Sulfate	23.8		mg/l	1.00	0.150	1	-	10/27/16 20:53	44,300.0	AU

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03-07 Batch: WG946545-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	10/27/16 18:53	44,353.2	MR
Anions by Ion Chromatography - Westborough Lab for sample(s): 01,03-07 Batch: WG947007-1										
Chloride	ND		mg/l	0.500	0.054	1	-	10/27/16 17:53	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.150	1	-	10/27/16 17:53	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01,03-07 Batch: WG947435-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	10/31/16 07:16	121,5310C	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER SIGNORE

Project Number: 21.0056367.62

Lab Number: L1634563

Report Date: 11/02/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-07 Batch: WG946545-2								
Nitrogen, Nitrate	102		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,03-07 Batch: WG947007-2								
Chloride	106		-		90-110	-		
Sulfate	106		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01,03-07 Batch: WG947435-2								
Total Organic Carbon	97		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-07 QC Batch ID: WG946545-4 QC Sample: L1634563-07 Client ID: SP-45-102616												
Nitrogen, Nitrate	0.72	4	4.9	104		-	-		83-113	-		6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,03-07 QC Batch ID: WG947007-3 QC Sample: L1634563-03 Client ID: SP-32-102516												
Chloride	1.59	4	5.94	109		-	-		40-151	-		18
Sulfate	14.4	8	22.6	102		-	-		60-140	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,03-07 QC Batch ID: WG947435-4 QC Sample: L1634945-02 Client ID: MS Sample												
Total Organic Carbon	2.17	4	5.52	84		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-07 QC Batch ID: WG946545-3 QC Sample: L1634563-07 Client ID: SP-45-102616						
Nitrogen, Nitrate	0.72	0.73	mg/l	1		6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,03-07 QC Batch ID: WG947007-4 QC Sample: L1634563-03 Client ID: SP-32-102516						
Chloride	1.59	1.60	mg/l	1		18
Sulfate	14.4	14.5	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01,03-07 QC Batch ID: WG947435-3 QC Sample: L1634945-01 Client ID: DUP Sample						
Total Organic Carbon	3.71	3.74	mg/l	1		20

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1634563-01A	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-01B	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-01C	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-01D	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-01E	Plastic 250ml unpreserved	A	7	3.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1634563-01F	Plastic 250ml HNO3 preserved	A	<2	3.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1634563-02A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-02B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-02C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-03A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-03B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-03C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-03D	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-03E	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-03F	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-03G	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-03H	Plastic 250ml unpreserved	A	7	3.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1634563-03I	Plastic 250ml HNO3 preserved	A	<2	3.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1634563-04A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-04B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-04C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-04D	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-04E	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-04F	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-04G	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-04H	Plastic 250ml unpreserved	A	7	3.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1634563-04I	Plastic 250ml HNO3 preserved	A	<2	3.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1634563-05A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62

Lab Number: L1634563
Report Date: 11/02/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1634563-05B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-05C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-05D	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-05E	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-05F	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-05G	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-05H	Plastic 250ml unpreserved	A	7	3.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1634563-05I	Plastic 250ml HNO3 preserved	A	<2	3.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1634563-06A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-06B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-06C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-06D	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-06E	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-06F	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-06G	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-06H	Plastic 250ml unpreserved	A	7	3.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1634563-06I	Plastic 250ml HNO3 preserved	A	<2	3.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1634563-07A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-07B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-07C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-07D	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-07E	Vial H2SO4 preserved	A	N/A	3.1	Y	Absent	TOC-5310(28)
L1634563-07F	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-07G	20ml Vial HCl preserved	A	N/A	3.1	Y	Absent	DISSGAS(14)
L1634563-07H	Plastic 250ml unpreserved	A	7	3.1	Y	Absent	SO4-300(28),CL-300(28),NO3-353(2)
L1634563-07I	Plastic 250ml HNO3 preserved	A	<2	3.1	Y	Absent	FE-6020T(180),MN-6020T(180)
L1634563-08A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1634563-08B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER SIGNORE	**Lab Number:**	L1634563
Project Number:	21.0056367.62	**Report Date:**	11/02/16

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER SIGNORE	**Lab Number:**	L1634563
Project Number:	21.0056367.62	**Report Date:**	11/02/16

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name: FORMER SIGNORE
Project Number: 21.0056367.62
Lab Number: L1634563
Report Date: 11/02/16

REFERENCES

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

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

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, SM9222D-MF**.

Mansfield Facility:

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

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

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

ALPHA ANALYTICAL

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

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

NEW YORK CHAIN OF CUSTODY

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

Page 1 of 1

Date Rec'd in Lab: 10/27/16

ALPHA Job #: L1634563

Client Information
Client: GZA
Address: 535 Washington St
Buffalo, NY 14203
Phone: 716-685-2300
Fax:
Email: Peter.Nyznyk@GZA.com

Project Information
Project Name: Former Signore
Project Location: Ellicottville NY
Project #: 21.0056367.62
(Use Project name as Project #) ☐
Project Manager: J. Richert
ALPHAQuote #:

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

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other: Client NYSDEC EDDA

Billing Information
☒ Same as Client Info
PO # 21.0056367.62

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

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260 TCL	TOC	Cl, NO3, SO4 EPA 300	RSK 175 DISS	Total metals (Fe, Mn)				Sample Specific Comments	Total Bottle
34563-01	EW-1.25-102516	10-25-16	1145	GW	PN		X	X	X	X				MNA ONLY	6
-02	TP-11-102516	↓	1350	↓	↓	X								VOC ONLY	3
-03	SP-32-102516	↓	1435	↓	↓	X	X	X	X	X					9
-04	SP-43-102616	10-26-16	0830	GW	PN	X	X	X	X	X					9
-05	SP-38-102616	↓	0915	↓	↓	X	X	X	X	X					9
-06	SP-37-102616	↓	1000	↓	↓	X	X	X	X	X					9
-07	SP-43-102616	↓	1055	↓	↓	X	X	X	X	4					9
-08	TRIP BLANK	↓	—	↓	↓	X									2

Container Type
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

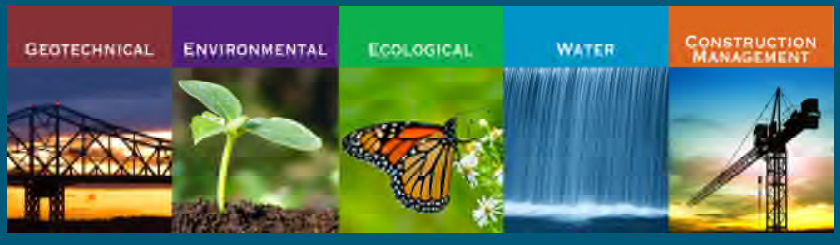
Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

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

Relinquished By:	Date/Time	Received By:	Date/Time
	10-26-16 1350	AAL	10/26/16 1350
AAL	10/26/16 1700		10/27/16 0145

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)



GZA GeoEnvironmental, Inc.

APPENDIX D

IC/EC CERTIFICATION FORM

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C905034**

Site Name Former Signore, Inc.

Site Address: 55 Jefferson Street Zip Code: 14731
City/Town: Ellicottville
County: Cattaraugus
Site Acreage: 8.4

Reporting Period: December 11, 2015 to March 12, 2017

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C905034 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
55.43-1-3.1	Iskalo Ellicottville Holdings, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

i) Prohibition of use of groundwater.
ii) Site use restrictions.
iii) Implementation of the Site Management Plan.

Box 4

Description of Engineering Controls

None Required

Not Applicable/No EC's

IC CERTIFICATIONS
SITE NO. C905034

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I David Chiazza (print name) at Iskalo Development Corp. (print business address),

am certifying as Manager for Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4-3-17
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I, BART A. KLETTKE (print name) at GZA 535 Washington ST, Buffalo, NY 14203 (print business address)

am certifying as a Qualified Environmental Professional for the Iskalo Ellicottville Holdings LLC (Owner or Remedial Party)

STATE OF NEW YORK
BART A. KLETTKE
No. 069428
LICENSED PROFESSIONAL ENGINEER

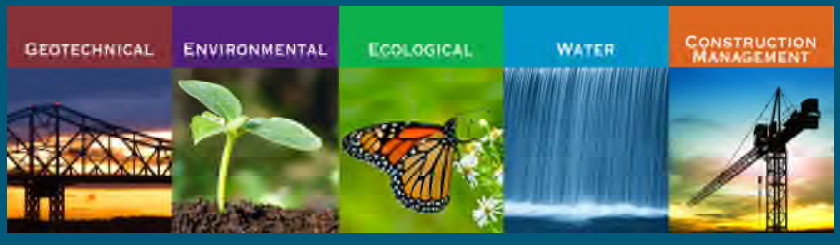
Bart A. Klettke

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

April 4, 2017

Date



GZA GeoEnvironmental, Inc.