BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

August 28, 2012

Ms. Charlotte Theobald
Environmental Engineer I
New York State Department of
Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519

Re: Seneca Market I, LLC Site
Periodic Review Report

Dear Ms. Theobald:

Benchmark Environmental Engineering & Science, PLLC (Benchmark) has prepared this correspondence on behalf of our client, Seneca Market I, LLC, to transmit the Periodic Review Report for the above referenced Site.

Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Michael A. Lesakowski
Project Manager

C: T. Costello (Seneca Market I, LLC) (e-copy)
P. Sheedy (Seneca Market I, LLC) (e-copy)

File: 0211-001-600

RECEIVED
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ENV REMEDIATION

www.benchmarkees.com
2558 Hamburg Turnpike, Suite 300 | Buffalo, NY 14218
phone: (716) 856-0599 | fax: (716) 856-0583

Periodic Review Report

Seneca Market I, LLC Site
(BCP Site No. C849004)
Watkins Glen, New York

July 2012

0211-001-600

Prepared For:

Seneca Market I, LLC

Prepared By:

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

2558 Hamburg Turnpike, Suite 300, Lackawanna, New York | phone: (716) 856-0599 | fax: (716) 856-0583

PERIODIC REVIEW REPORT

SENECA MARKET I, LLC SITE
(BCP SITE NO. C849004)

WATKINS GLEN, NEW YORK

July 2012

0211-001-600

Prepared for:

Seneca Market I, LLC

Prepared By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716)856-0599

PERIODIC REVIEW REPORT

Seneca Market I, LLC Site

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PERIODIC REVIEW REPORT
Seneca Market I, LLC Site
Table of Contents

FIGURES

APPENDICIES

1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, PLLC (Benchmark) has prepared this Periodic Review Report (PRR), on behalf of Seneca Market I, LLC to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C849004, located in the Village of Watkins Glen, Schuyler County, New York (Site; see Figure 1).

This PRR has been prepared for the Seneca Market I, LLC Site in accordance with NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation* (May 2010). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form has been completed for the Site (see Appendix A).

This PRR and the associated inspections form has been completed for the post-remedial activities at the Site for the June 15, 2011 to June 15, 2012 reporting period.

1.1 Site Background

The Seneca Market I, LLC Site encompasses approximately 2.3-acres of land which was redeveloped as a hotel complex in Watkins Glen, New York (see Figure 1). The Site was formerly comprised of four separate adjoining tax parcels which were historically used as a dry cleaning facility, a bus garage, an automobile museum, a grape processing facility, and an asphalt company. Figure 2 shows the former parcels and buildings prior to remediation.

On-Site soil and groundwater were contaminated by chlorinated volatile organic compounds (cVOCs) related to the dry cleaning operation, and petroleum hydrocarbons related to the former underground storage tanks (USTs) and automobile repair operations.

1.2 Remedial History

Between 1994 and 1999, multiple remedial efforts were implemented by the NYSDEC across the Site including soil vapor extraction (SVE), groundwater pump and treat system, and soil excavation. Though the remedial activities employed were successful in reducing contaminant levels, remaining soil and groundwater contamination requiring further remedial efforts was necessary for redevelopment of the Site.

After acceptance into the New York State BCP in November 2005, a Remedial Design (RD) Work Plan was prepared and subsequently approved by the NYSDEC. Remedial activities began in October 2006 and were completed in November 2008. Remedial activities are described below in Section 2.0. The remedial program was successful in achieving the remedial objectives for the Site, and the Site Management Plan (SMP) and Final Engineering Report (FER) were approved by the Department in December 2008. The NYSDEC issued a COC for the Site on December 31, 2008.

1.3 Compliance

At the time of the Site inspection, the Site was fully compliant with the Department's approved SMP.

1.4 Recommendations

To date, Seneca Market I, LLC has completed nine groundwater monitoring events, including four quarterly events during 2009, two semi-annual events in 2010, two semi-annual events in 2011, and one annual event 2012. After the Fall 2011 semi-annual groundwater sampling event was completed, it was recommended to modify the sampling frequency to annual groundwater monitoring. Post-remedial groundwater monitoring results show continued decrease in contaminant levels and the Site is in full compliance with the SMP; therefore, a modification to annual groundwater monitoring was prudent and protective of the environment.

Beyond those changes described above, no modifications to the current SMP are recommended at this time.

2.0 SITE OVERVIEW

The Site is located within the block bounded by Franklin, First, Decatur Streets, and the Finger Lakes Railway right-of-way in the Village of Watkins Glen, Schuyler County, New York (see Figures 1 and 2). Four adjacent parcels were collectively remediated and redeveloped under the BCP Program. The parcels have a history of use that dates back to the 1860s. The Site was historically used as a dry cleaning facility, a bus garage, an automobile museum, a grape processing facility, and an asphalt company. The portion of the Site formerly addressed at 20 North Franklin Street was historically occupied by a dry cleaning facility and was formerly identified as an inactive Class 2 hazardous waste site by the NYSDEC. That portion of the Site was further remediated, and is currently managed under the BCP.

Environmental site investigations were conducted between 1991 and 1993 confirmed contamination of the Site's soil and groundwater. In 1994 the NYSDEC issued a Record of Decision (ROD) which determined the remedial approach for the former dry cleaning site. Remedial measures including SVE, and groundwater treatment were initiated in 1996, and subsequently suspended in 1998, pending the need for further investigation.

Seneca Market I, LLC entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC in 2005 to remediate and redevelop the site as a hotel complex. The remedial activities began in October 2006 and were completed in November 2008. The remedial activities included:

- Decommissioning of historic monitoring wells;
- Excavation and off-site disposal of soil impacted with chlorinated volatile organic compounds (cVOCs) within the former dry cleaner area;
- Extraction and treatment of groundwater from the cVOC excavation;
- Delivery of hydrogen release compounds (HRC) to the cVOC excavation to enhance degradation of residual cVOCs in saturated soil and groundwater;
- Removal of an underground storage tank (UST) encountered in the area of the former dry cleaner;
- Removal of two in-ground lifts and one UST and excavation and off-site disposal of petroleum-impacted soil in the area of the former bus garage;
- Implementation of a Soil/Fill Management Plan (SFMP) during Site redevelopment;

- Installation of a vapor barrier and an active sub-slab depressurization (ASD) system beneath the newly constructed hotel; and
- Placement of a soil cover system.

Remedial activities were completed in November 2008. The FER and SMP for the Site were approved by the Department in December 2008. The COC was issued for the Site on December 31, 2008.

3.0 SITE MANAGEMENT PLAN

A SMP was prepared for the Site, and approved by the Department in December 2008. The SMP includes an Operation, Monitoring and Maintenance (OM&M) Plan, a Soil/Fill Management Plan (SFMP), and a copy of the Environmental Easements. A brief description of the components of the SMP is presented below.

3.1 Operation, Monitoring and Maintenance Plan

The OM&M Plan consists of three major components, including the Active Sub-slab Depressurization System (ASD); the Long-Term Groundwater Monitoring (LTGWM) Plan; and the Annual Inspection & Certification Program.

3.1.1 Active Sub-slab Depressurization System

An ASD system was installed within the newly constructed hotel building. As required by the Department approved SMP, the ASD system must: (1) be operated continuously to provide a negative pressure field; (2) be visually inspected periodically to verify proper operation; and (3) annually inspected and certified that the system is performing properly and remains an effective engineering control (EC).

During the annual Site Inspection, the inspector verified that the ASD system was operating properly, as indicated by the readings on both of the magnahelic vacuum gauges (0.70 and 0.50 inches water column (WC), respectively). Copies of the ASD periodic visual inspection logs are included in Appendix C.

3.1.2 Long-Term Groundwater Monitoring Plan

Long-term groundwater monitoring (LTGWM) was conducted during this reporting period utilizing passive diffusion bag (PDB) sampling technique, in accordance with the Department's approved modification of the SMP, correspondence dated June 9, 2010.

Groundwater monitoring was conducted during this reporting period in June 2012. The June 2012 Annual Monitoring event report is included for reference. Copies of the annual groundwater monitoring reports are provided in Appendix D of the electronic copy of the PRR.

3.1.3 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines the requirements for the Site, to certify and attest that the institutional controls and/or engineering controls employed at the Site are unchanged from the previous certification. The Annual Certification will primarily consist of an annual Site Inspection to complete the NYSDEC's IC/EC Certification Form. The Site inspection will verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

A Site inspection of the property was conducted by a Benchmark Scientist who meets the requirements of a Qualified Environmental Professional (QEP) on June 11, 2012. At the time of the inspection, the property was being used as a hotel complex (Seneca Harbor Hotel), with surface parking, paved walkways and landscaped areas. No observable indication of intrusive activities was noted during the Site inspection. The hotel complex utilizes the local municipal water supply, and no observable use of groundwater was noted during the Site inspection.

The completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form is included in Appendix A. A photolog of the Site inspection is included in Appendix B.

3.2 Soil/Fill Management Plan

A SFMP was included in the approved-SMP for the Site. The SFMP provides guidelines for the management of soil and fill material during any future intrusive actives.

No intrusive activities requiring management of on-Site soil or fill material; or the placment of backfill materials occurred during the montoring period.

3.3 Engineering and Institutional Control Requirements and Compliance

As detailed in the Environmental Easements, several IC/ECs need to be maintained as a requirmement of the BCAs for the Site.

3.3.1 Institutional Controls

- Groundwater-Use Restriction – the use of groundwater for potable and non-potable purposes is prohibited; and
- Land-Use Restriction: The controlled property may be used for commercial and/or industrial use; and
- Implementation of the SMP including the OM&M Plan and SFMP.

3.3.2 Engineering Controls

- Vapor Mitigation – ASD System has been operated continuously and properly maintained.
- Cover System – The cover system, including building foundations, concrete sidewalks, concrete or asphalt driveways and parking areas, and landscaped vegetated areas are all being maintained in compliance with the SMP.

At the time of the site inspection, the Site was fully compliant with all engineering and institutional control requirements.

4.0 CONCLUSIONS AND RECOMMENDATIONS

- At the time of the Site inspection, the Site was in compliance with the SMP. Specifically, the Site is fully compliant with the Institutional Controls including land-use restrictions, groundwater-use restrictions, and the soil/fill management plan component; and fully compliant with the Engineering Controls including maintaining the cover system and continuous operation of the ASD System.

- Based on the results of the completed quarterly- and semi-annual groundwater monitoring conducted in 2009, 2010, and 2011, it was recommended that long-term groundwater monitoring being conducted on an annual basis beginning in 2012.

5.0 DECLARATION/LIMITATION

Benchmark Environmental Engineering and Science, PLLC, personnel conducted the annual site inspections for Brownfield Cleanup Program Site No. C849004, Watkins Glen, New York, according to generally accepted practices. This report complied with the scope of work provided to Seneca Market I, LLC by Benchmark Environmental Engineering and Science, PLLC.

This report has been prepared for the exclusive use of Seneca Market I, LLC. The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon only at the discretion of Seneca Market I, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering and Science, PLLC.

FIGURES

F:\CAD\Benchmark\Seneca Market I, LLC\Periodic Review Report\2012\Figure 1; Site Location and Vicinity Map.dwg

FIGURE 1

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

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

PROJECT NO.: 0212-001-600

DATE: JULY 2012

DRAFTED BY: JGT

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

SENECA MARKEY I, LLC SITE

WATKINS GLEN, NEW YORK

PREPARED FOR

SENECA MARKET I, LLC

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

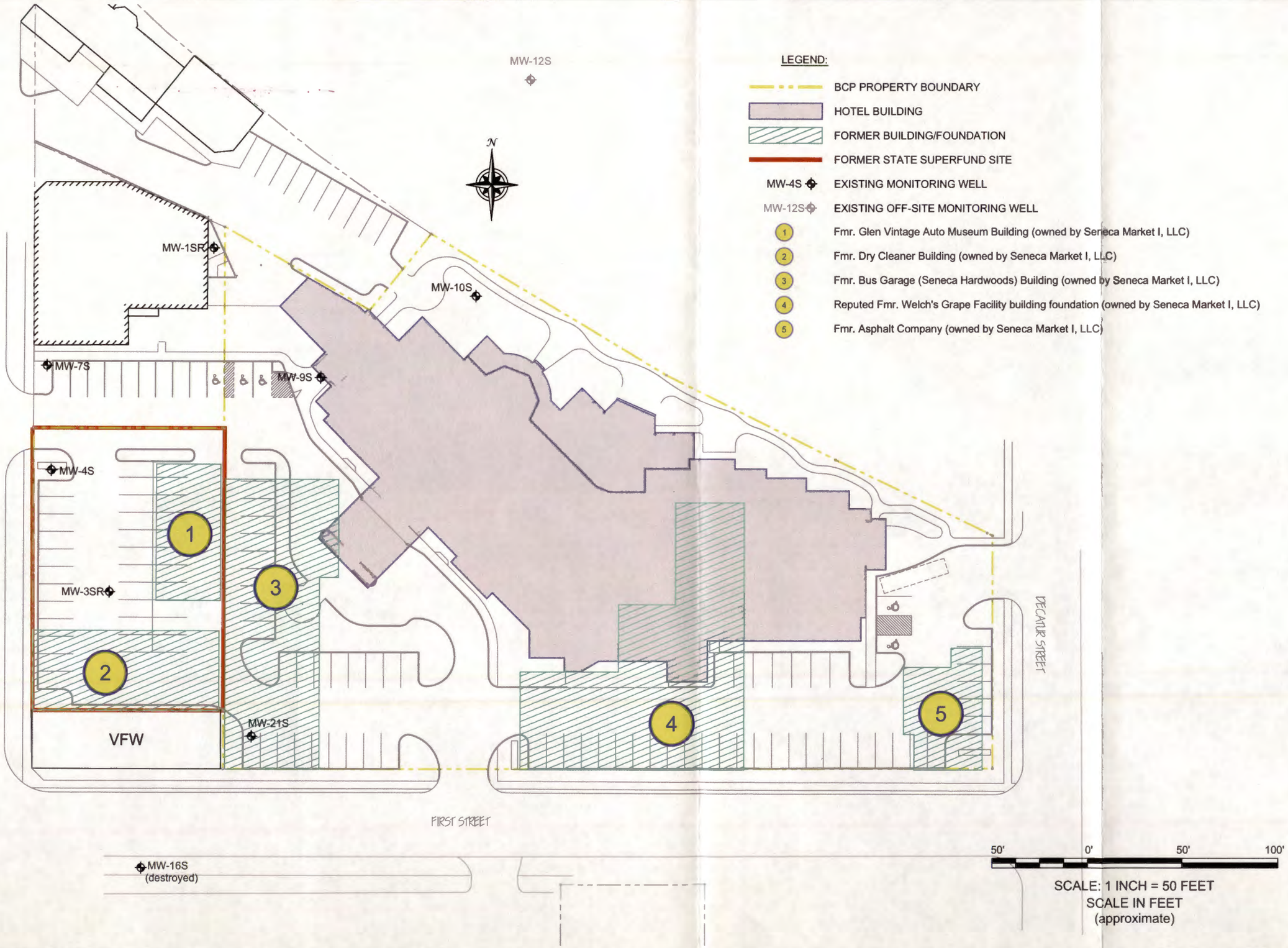
JOB NO.: 0212-001-600

SITE PLAN (PRE-REMEDIATION)
PERIODIC REVIEW REPORT
SECECA MARKET I, LLC SITE
WATKINS GLEN, NEW YORK
PREPARED FOR
SENECA MARKET I, LLC

FIGURE 2

DATE: JULY 2012
DRAFTED BY: BCH/ATM

F:\Projects\Benchmark\Seneca Market I, LLC\Periodic Review Report\Figure 2, Site Plan (Pre).dwg



LEGEND:

- BCP PROPERTY BOUNDARY
- HOTEL BUILDING
- FORMER BUILDING/FOUNDATION
- FORMER STATE SUPERFUND SITE
- MW-4S — EXISTING MONITORING WELL
- MW-12S — EXISTING OFF-SITE MONITORING WELL
- 1 — Fmr. Glen Vintage Auto Museum Building (owned by Seneca Market I, LLC)
- 2 — Fmr. Dry Cleaner Building (owned by Seneca Market I, LLC)
- 3 — Fmr. Bus Garage (Seneca Hardwoods) Building (owned by Seneca Market I, LLC)
- 4 — Reputed Fmr. Welch's Grape Facility building foundation (owned by Seneca Market I, LLC)
- 5 — Fmr. Asphalt Company (owned by Seneca Market I, LLC)

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: 0212-001-600

SITE PLAN (POST-REMEDIATION)

PERIODIC REVIEW REPORT
SENECA MARKET I, LLC SITE
WATKINS GLEN, NEW YORK
PREPARED FOR
SENECA MARKET I, LLC

FIGURE 3

DATE: JULY 2012
DRAFTED BY: BCH/NTM

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS 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. C849004

Site Name Seneca Market 1, LLC site

Site Address: 16 Franklin Street Zip Code: 14819
City/Town: Watkins Glen
County: Schuyler
Site Acreage: 2.3

Reporting Period: June 15, 2011 to June 15, 2012

	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? 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

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

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. C849004

Description of Institutional Controls

Parcel	Owner	Institutional Control
65.09-2-56	Seneca Market 1, LLC	Ground Water Use Restriction Land Use Restriction Site Management Plan Soil Management Plan
65.09-2-58	Seneca Market 1, LLC	Ground Water Use Restriction Land Use Restriction Site Management Plan Soil Management Plan
65.09-2-59.1	Seneca Market 1, LLC	Ground Water Use Restriction Land Use Restriction Site Management Plan Soil Management Plan
65.09-2-61.2	Seneca Market 1, LLC	Ground Water Use Restriction Land Use Restriction Site Management Plan Soil Management Plan

Description of Engineering Controls

Parcel	Engineering Control
65.09-2-56	Cover System Vapor Mitigation
65.09-2-58	Cover System Vapor Mitigation
65.09-2-59.1	Cover System Vapor Mitigation
65.09-2-61.2	

Parcel	Engineering Control
	Cover System Vapor Mitigation

Engineering Control Details for Site No. C849004

Parcel: 65.09-2-56

The sub-slab depressurization system under the building structure at the site.
A composite cover system consisting of concrete building foundation, concrete sidewalks, a vapor barrier beneath the building one foot of topsoil cover in areas not covered with the building, concrete or asphalt, and asphalt parking surfaces.
Use of groundwater underlying the controlled property is prohibited without treatment.
Controlled property may be used for commercial and industrial use.

Parcel: 65.09-2-58

The sub-slab depressurization system under the building structure at the site.
A composite cover system consisting of concrete building foundation, concrete sidewalks, a vapor barrier beneath the building one foot of topsoil cover in areas not covered with the building, concrete or asphalt, and asphalt parking surfaces.
Use of groundwater underlying the controlled property is prohibited without treatment.
Controlled property may be used for commercial and industrial use.

Parcel: 65.09-2-59.1

The sub-slab depressurization system under the building structure at the site.
A composite cover system consisting of concrete building foundation, concrete sidewalks, a vapor barrier beneath the building one foot of topsoil cover in areas not covered with the building, concrete or asphalt, and asphalt parking surfaces.
Use of groundwater underlying the controlled property is prohibited without treatment.
Controlled property may be used for commercial and industrial use.

Parcel: 65.09-2-61.2

The sub-slab depressurization system under the building structure at the site.
A composite cover system consisting of concrete building foundation, concrete sidewalks, a vapor barrier beneath the building one foot of topsoil cover in areas not covered with the building, concrete or asphalt, and asphalt parking surfaces.
Use of groundwater underlying the controlled property is prohibited without treatment.
Controlled property may be used for commercial and industrial use.

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

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

IC CERTIFICATIONS
SITE NO. C849004

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 Tim Castello (print name) at 617 Dingens St. Buffalo, N.Y. 14206 (print business address)

am certifying as CFO / Designated Representative (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

8/24/12
Date

IC/EC CERTIFICATIONS

Box 7

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 Michael Lesakowski (print name) at 2558 Hamburg Turnpike Buffalo, NY (print business address)

am certifying as a for the Remedial Party (Owner or Remedial Party)

Signature of, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE): NA

Date: 7/25/12

APPENDIX B

SITE PHOTLOG

SITE PHOTOGRAPHS

Photo 1:

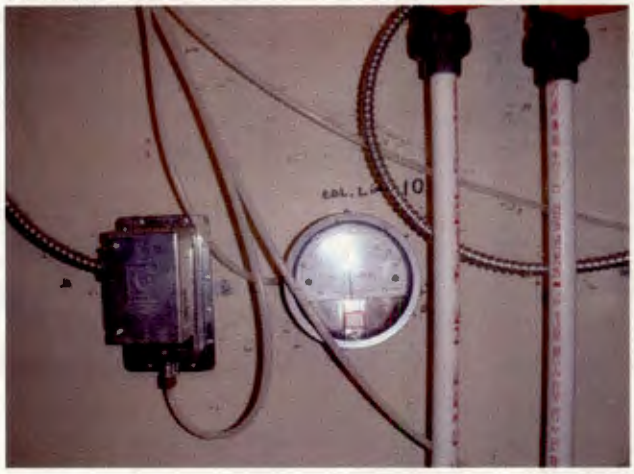


Photo 2:

Photo 3:

Photo 4:

Photo 1: Magnahelic gauge (0.5 inches WC indicated – line 10)

Photo 2: Magnahelic gauge (0.7 inches WC indicated – line 5)

Photo 3: Landscaping around MW-7S (Adjacent to Franklin St.)

Photo 4: Exterior site conditions (North side of building looking east)

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: Condition of asphalt parking area (looking southeast).

Photo 6: Site conditions parking area (looking east.)

Photo 7: Site conditions (looking southeast from MW-7S towards VFW bldg.)

Photo 8: Landscaping and Site cover (looking northeast).

APPENDIX C

ASD PERIODIC VISUAL INSPECTION LOGS

Seneca Markets, LLC ASD System Monthly Readings

MONTH NOV 2011

DATE	LINE 5	LINE 10	TIME
11-1	.65	.93	8:00 AM
11-2	.64	.93	8:00 AM
11-3	.66	.94	7:00 AM
11-4	.65	.94	7:00 AM
11-5	.64	.93	7:00 AM
11-6	.60	.92	8:00 AM
11-7	.65	.93	8:00 AM
11-8	.66	.95	8:00 AM
11-9	.66	.94	8:00 AM
11-10	.66	.94	7:00 AM
11-11	.66	.94	7:00 AM
11-12	.63	.92	7:00 AM
11-13	.64	.92	8:00 AM
11-14	.61	.94	8:00 AM
11-15	.64	.93	8:00 AM
11-16	.66	.94	8:00 AM
11-17	.66	.94	7:00 AM
11-18	.65	.94	7:00 AM
11-19	.64	.91	9:00 AM
11-20	.60	.94	9:00 AM
11-21	.65	.94	10:00 AM
11-22	.64	.93	8:00 AM
11-23	.64	.93	8:00 AM
11-24	.65	.92	9:00 AM
11-25	.64	.94	9:00 AM
11-26	.64	.93	9:00 AM
11-27	.64	.92	9:00 AM
11-28	.66	.93	8:00 AM
11-29	.66	.95	8:00 AM
11-30	.60	.92	[illegible]

MONTH DEC 2011

DATE	LINE 5	LINE 10	TIME
1	.65	.93	7:00 AM
2	.64	.93	7:00 AM
3	.63	.92	7:00 AM
4	.64	.92	8:00AM.
5	.65	.93	8:00AM.
6	.64	.93	8:00 AM
7	.65	.93	8:00 AM
8	.44	.93	7:00 AM
9	.66	.95	7:00 AM
10	.64	.94	7:00 AM
11	.65	.94	8:00AM
12	.66	.94	8:00AM.
13	.65	.95	8:00 AM
14	.66	.95	8:00AM
15	.64	.93	7:00AM
16	.66	.94	7:00 AM
17	.66	.94	7:00 AM
18	.60	.93	8:00AM
19	.60	.92	8:00AM.
20	.67	.96	8:00AM
21	.66	.94	8:00AM
22	.65	.94	7:00AM
25	.64	.93	7:00 AM
26	.64	.93	7:00 AM
27	.40	.92	7:00AM.
28	.65	.94	8:00AM
29	.66	.93	8:00AM
30	.64	.93	7:00AM
31	.65	.93	7:00 AM.

MONTH JAN 2012

DATE	LINE 5	LINE 10	TIME
1-1	.65	.92	8:00 AM
1-2	.65	.94	8:00AM
1-3	.64	.92	8:00 AM
1-4	.64	.93	8:00 AM
1-5	.64	.93	7:00 AM
1-6	.64	.93	7:00 AM
1-7	.64	.93	7:00 AM
1-8	.66	.95	8:00AM
1-9	.64	.92	8:00AM
1-10	.64	.93	8:00 AM
1-11	.64	.93	8:00 AM
1-12	.64	.92	7:00 AM
1-13	.66	.93	7:00 AM
1-14	.65	.92	7:00 AM
1-15	.65	.94	8:00AM
1-16	.65	.92	8:00AM
1-17	.64	.93	8:00 AM
1-18	.63	.93	8:00 AM
1-19	.64	.93	7:00 AM
1-20	.64	.93	7:00 AM
1-21	.65	.94	8:00 AM
1-22	.64	.93	8:00 AM
1-23	.64	.93	9:00 AM
1-24	.65	.94	8:00 AM
1-25	.64	.93	8:00 AM
1-26	.64	.93	7:00 AM
1-27	.65	.92	8:00AM
1-28	.65	.93	9:00AM
1-29	.64	.93	8:00AM
1-30	.65	.94	8:00AM

MONTH FEB. 2012

DATE	LINE 5	LINE 10	TIME
2-1	.64	.93	8:00 AM
2-2	.64	.93	7:00 AM
2-3	.65	.94	7:00 AM
2-4	.65	.94	7:00 AM
2-5	.65	.94	8:00 AM
2-6	.66	.94	8:00 AM
2-7	.64	.93	8:00 AM
2-8	.64	.93	8:00 AM
2-9	.64	.93	7:00 AM
2-10	.64	.92	7:00 AM
2-11	.62	.94	7:00 AM
2-12	.64	.94	8:00 AM
2-13	.64	.92	8:00 AM
2-14	.64	.93	8:00 AM
2-15	.64	.93	8:00 AM
2-16	.64	.94	7:00 AM
2-17	.64	.93	7:00 AM
2-18	.64	.93	7:00 AM
2-19	.65	.94	8:00 AM
2-20	.64	.94	8:00 AM
2-21	.64	.94	8:00 AM
2-22	.64	.93	8:00 AM
2-23	.64	.93	7:00 AM
2-24	.64	.93	7:00 AM
2-25	.60	.93	7:00 AM
2-26	.63	.94	8:00 AM
2-27	.65	.93	8:00 AM
2-28	.64	.93	8:00 AM
2-29	.64	.94	8:00 AM

MONTH MARCH 2012

DATE	LINE 5	LINE 10	TIME
3-1	.63	.93	7:00 AM
3-2	.64	.93	7:00 AM
3-3	.67	.94	7:00 AM
3-4	.65	.93	8:00AM
3-5	.65	.94	8:00AM
3-7	.64	.94	8:00 AM
3-8	.66	.95	8:00 AM
3-9	.66	.95	7:00 AM
3-10	.64	.95	7:00 AM
3-11	.65	.94	8:00 AM
3-12	.65	.95	8:00AM
3-13	.66	.95	8:00 AM
3-14	.64	.94	8:00 AM
3-15	.65	.94	7:00 AM
3-16	.66	.94	7:00 AM
3-17	.66	.96	7:00 AM
3-18	.67	.96	8:00AM
3-19	.67	.96	8:00AM
3-20	.67	.96	8:00 AM
3-21	.67	.95	8:00 AM
3-22	.67	.96	7:00 AM
3-23	.66	.94	7:00 AM
3-24	.66	.94	7:00 AM
3-25	.65	.94	8:00AM
3-26	.70	.95	8:00AM
3-27	.68	.96	8:00 AM
3-28	.66	.94	8:00 AM
3-29	.67	.94	7:00 AM
3-30	.65	.93	7:00 AM
3-31	.66	.94	7:00 AM

MONTH April 2012

DATE	LINE 5	LINE 10	TIME
4-1-12	.64	.92	8:00AM.
4-2-12	.64	.91	8:00AM.
4-3 12	.66	.94	8:00 AM
4-4	.64	.93	8:00 AM
4-5	.65	.93	7:00 AM
4-6	.64	.93	7:00 AM
4-7	.64	.93	7:00 AM
4-8	.64	.92	8:00AM.
4-9	.64	.94	8:00AM.
4-10	.67	.94	8:00 AM
4-11	.65	.93	8:00 AM
4-12	.66	.93	7:00 AM
4-13	.64	.93	7:00 AM
4-14	.65	.93	7:00 AM
4-15	.64	.94	8:00AM.
4-16	.65	.95	8:00AM.
4-17	.67	.96	8:00 AM
4+8	.66	.94	8:00 AM
4-19	.64	.93	7:00 AM
4-20	.65	.94	7:00 AM
4-21	.64	.94	7:00 AM
4-22	.65	.92	8:00AM.
4-23	.65	.90	8:00AM.
4-24	.66	.94	8:00 AM
4-25	.64	.93	8:00 AM
4-26	.65	.94	7:00 AM
4-27	.64	.94	7:00 AM
4-28	.65	.93	7:00 AM
4-29	.64	.94	8:00AM.
4-30	.64	.94	8:06AM.

MONTH May 2012-

DATE	LINE 5	LINE 10	TIME
5-1	.64	.94	8:00 AM
5-2	.65	.95	8:00 AM
5-3	.64	.94	7:00 AM
5-4	.64	.94	7:00 AM
5-5	.64	.94	7:00 AM
5-6	.64	.94	8:00AM
5-7	.65	.95	8:00AM
5-8	.66	.95	8:00 AM
5-9	.65	.94	8:00 AM
5-10	.65	.93	7:00 AM
5-11	.65	.94	7:00 AM
5-12	.65	.94	7:00 AM
5-13	.65	.94	8:00AM
5-14	.64	.94	8:00AM
5-15	.66	.95	8:00 AM
5-16	.65	.94	8:00 AM
5-17	.64	.93	8:00 AM
5-18	.64	.93	7:00AM
5-19	.65	.94	7:00 AM
5-20	.65	.95	8:00AM
5-21	.65	.95	8:00AM
5-22	.66	.95	8:00 AM
5-23	.66	.96	8:00 AM
5-24	.65	.95	7:00 AM
5-25	.64	.93	7:00 AM
5-26 SAT	.63	.93	8:00 AM
5-27 SUN	.64	.94	8:00AM
5-28 MON	.64	.94	8:00AM
5-29	.63	.95	8:00 AM
5-30	.64	.94	8:00 AM
5-31	.66	.95	7:00 AM

MONTH JUNE 2012

DATE	LINE 5	LINE 10	TIME
6-1	.64	.95	7:00 AM
6-2	.65	.95	7:00 AM
6-3	.65	.94	8:00 AM
6-4	.65	.95	8:00AM
6-5	.68	.97	8:00 AM
6-6	.67	.96	8:00 AM
6-7	.65	.95	7:00 AM
6-8	.63	.93	7:00 AM
6-9	.66	.96	7:00 AM
6-10	.64	.94	8:00AM
6-11	.64	.94	8:00AM

APPENDIX D

GROUNDWATER MONITORING REPORTS

(PROVIDED ELECTRONICALLY)

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

July 3, 2012

Ms. Charlotte Theobald
NY State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519

Re: Site No. C849004
Seneca Market I, LLC Site
Watkins Glen, New York
Annual Groundwater Monitoring Report – June 2012 Event

Dear Ms. Theobald:

On behalf of our client, Seneca Market I, LLC (Seneca Market), Benchmark Environmental Engineering & Science, PLLC (Benchmark) is herein transmitting the results from the June 2012 groundwater monitoring event at the Seneca Market Site in Watkins Glen, New York (Site; see Figure 1).

The groundwater monitoring events included sampling and analysis of MW-1SR, MW-3SR, MW-4S, MW-7S, MW-9S, MW-10S and MW-21s. Groundwater samples from each of the sampled wells were analyzed for target compound list (TCL) volatile organic compounds (VOCs). Due to minimal water in the passive diffusion bags field parameters for the June 2012 event were not collected. Table 1 summarizes the analytical and field results from the June 2012 groundwater monitoring event as well as historic groundwater monitoring events completed by Benchmark and the NYSDEC. The laboratory analytical packages are included in Attachment 1.

As shown on Table 1, chlorinated VOCs were not detected above NYSDEC Class GA groundwater quality standards (GWQS) as listed in NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) in MW-3SR, MW-4S, MW-9S or MW-21S. It is noteworthy that MW-3SR is located in the area of VOC source soil removal by Seneca Market and has decreased from 6,203 micrograms per liter (ug/L) total chlorinated VOCs in June 2000 to no detections of chlorinated VOCs in June 2012.

As noted in previous sampling events, concentrations of petroleum VOCs in MW-7S (May 2011 event) and MtBE in MW-3SR, MW-1SR may be the result of migration of petroleum VOCs from the adjacent NYSDEC petroleum spill site (Spill No. 0651369) located at the

corner of North Franklin Street and Division Street. We understand that environmental investigation and/or remediation is on-going at that site.

Groundwater elevations in MW-1SR, MW-3SR, MW-7S, MW-10S, MW-4S and MW-9S were recorded. Table 2 shows the relative groundwater elevations and Figure 1 includes estimated groundwater flow direction for the June 2012 event. The groundwater flow is generally consistent with historic groundwater gauging data.

The next Groundwater sampling event is planned for June 2013.

Please contact us with any questions or comments.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Michael Lesakowski
Project Manager

Att.

c: P. Sheedy (Seneca Market I, LLC)
T. Costello (Seneca Market I, LLC)
Mark Sergott (NYSDOH- Troy)

TABLES

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1
SUMMARY OF GROUNDWATER MONITORING RESULTS

SENECA MARKET I, LLC SITE
WATKINS GLEN, NEW YORK

Parameter [1]	Sample Location																											GWQS[6]
	MW-1SR												MW-3SR															
	1/1/93[2]	4/1/93[2]	11/21/08	02/27/09	05/20/09	09/23/09	12/14/09	05/27/10	10/18/10	05/11/11	10/21/11	06/11/12	1/1/93[2]	4/1/93[2]	3/16/00[3]	6/23/00[4]	10/20/00[5]	11/21/08	02/27/09	05/20/09	09/23/09	12/14/09	05/27/10	10/18/10	05/11/11	10/21/11	06/11/12	
TCL Volatile Organic Compounds (VOCs) - ug/L																												
Acetone	ND	ND	1.4 J	ND	ND	ND	ND	ND	ND	8.4 J	17	6.5	R	R	ND	24	ND	ND	ND	ND	ND	ND	ND	ND	12	13	11	50
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
1,1-Dichloroethene	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	13	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	NA	NA	91	75	72	71	79	80	74	110	91	80	NA	NA	NA	NA	NA	13	3	1.8	1.7	7.3	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	NA	NA	0.71 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total 1,2-Dichloroethene	43	40	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	770	87	1900	5500	2200	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Methylene chloride	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
4-methyl-2-pentanone (MIBK)	9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Methyl tert butyl ether (MTBE)	ND	ND	1.8	1.6	2	1.7	1.7	1.9	1.1	1.2	ND	ND	ND	ND	ND	ND	ND	4.6	5.1	4.7	4	4.3	4.1	3.3	3.2	2.5	2.1	10
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	410	360	88	70	87	83	87	70	68	71	84	62	88	8	77	83	ND	24	ND	ND	ND	4.2	ND	ND	ND	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Trichloroethene	22 J	26	21	17	21	20	20	18	17	19	22	18	190	20	83	200	14	7.7	ND	ND	ND	1.8	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	1.5	1.7	1.4	1.7	1.8	3	1.9	3.3	1.5	ND	38 J	ND	17	420	390	2.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	2
o-Xylenes	ND	ND	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	5
m+p Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	5
Total VOCs	484.0	426.0	205.8	165.3	183.4	178.5	189.5	175.9	162.0	212.9	215.5	166.5	1086.0	115.0	2078.0	6277.0	2608.0	52.1	9.3	7.0	5.7	19.0	4.1	3.3	15.2	14.5	13.1	
Total Chlorinated VOCs	475.0	426.0	202.2	163.7	181.4	175.7	187.8	171.0	160.9	203.3	198.5	160.0	1086.0	115.0	2077.0	6203.0	2604.0	47.5	4.2	2.0	1.7	13.3	0.0	0.0	0.0	0.0	0.0	
Water Quality Parameters (mg/L)																												
Iron- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	300
Manganese- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.94	5.49	5.6	4.91	ND	NA	NA	NA	NA	NA	300
Nitrate, mg/L-N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	10
Sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.3	17.1	17	16.7	ND	NA	NA	NA	NA	NA	250
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	50
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	454	430	544	415	ND	NA	NA	NA	NA	NA	2.50E+08
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	66	63	ND	52	67	NA	NA	NA	NA	NA	--
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	--
Ethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00082 J	ND	ND	ND	ND	NA	NA	NA	NA	NA	--
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.051	0.049	0.13	0.074	0.074	NA	NA	NA	NA	NA	--
Total Alkalinity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	334	333	314	338	ND	NA	NA	NA	NA	NA	--
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	36.6	23.9	4.26	2.6	3.5	3.5	ND	NA	NA	NA	NA	NA	--
Field Measurements (units as indicated)																												
pH (units)			7.00	7.03	6.86	6.60	6.71	6.93	6.77	NA	NA	NA	NA	NA	NA	NA	NA	7.08	6.96	6.94	6.70	6.90	7.10	6.93	NA	NA	NA	6.5 - 8.5
Temperature (˚C)			11.4	11.5	17.2	18.6	11.9	14.9	16.4	NA	NA	NA	NA	NA	NA	NA	NA	11.7	10.8	14.2	19.6	13.2	16.1	17.2	NA	NA	NA	--
Specific Conductance (uS)			2000	1663	1994	2107	2113	2127	1813	NA	NA	NA	NA	NA	NA	NA	NA	2016	2000	1987	2028	2097	2038	1997	NA	NA	NA	--
Turbidity (NTU)			214	311	39.9	7.02	18.8	8.45	6.03	NA	NA	NA	NA	NA	NA	NA	NA	9.04	20.4	7.62	5.26	22	49.8	16.4	NA	NA	NA	--
ORP (mV)			58	51	63	42	42	65	222	NA	NA	NA	NA	NA	NA	NA	NA	41	24	15	0	- 51	- 6	2	NA	NA	NA	--
DO (ppm)			1.53	1.45	1.61	1.38	1.7	1.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.38	1.3	1.48	1.33	1.79	1.14	1.18	NA	NA	NA	--

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Results are from the 1993 RI/FS report prepared by URS.
3. Pre-injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
4. Between injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
5. Post-injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
6. Class "GA" Groundwater Quality Standards for NYSDEC Divisions of Water TOGS 1.1.1
7. Monitoring Wells MW-4S & MW-9S added to monitoring program as per NYSDEC Letter Dated June 9, 2010.

Definitions:
ND = Parameter not detected above laboratory detection limit.
NA = Sample not analyzed for parameter.
"--" = No GWQS available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
R = Data rejected.

Excedeeds GWQS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1
SUMMARY OF GROUNDWATER MONITORING RESULTS

SENECA MARKET I, LLC SITE
WATKINS GLEN, NEW YORK

Parameter [1]	MW-7S															MW-10S												GWQS[6]
	1/1/93[2]	4/1/93[2]	3/16/00[3]	6/23/00[4]	10/20/00[5]	11/21/08	02/27/09	05/20/09	09/23/09	12/14/10	05/27/10	10/18/10	05/11/11	10/21/11	06/11/12	1/1/93[2]	4/1/93[2]	11/21/08	11/21/08 Blind Duplicate	02/27/09	05/20/09	09/23/09	12/14/09	05/27/10	10/18/10	05/11/11	10/21/11	06/11/12	
TCL Volatile Organic Compounds (VOCs) - ug/L																												
Acetone	R	ND	ND	ND	ND	ND	ND	34	41	35	ND	ND	ND	45	ND	20	R	ND	ND	ND	ND	ND	ND	ND	ND	13 J	15 J	7.7	50
Benzene	6 J	R	7	11	ND	4.7	27	14	8.2	6.5	8.8	ND	8.5	8	1.2	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Cyclohexane	ND	ND	ND	ND	ND	8.8	21	12	11	12	15	10	10	11	7.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	4.1	3.5	3	7.5	2.7	2.2	2.8	4.4	1.1	1.3	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total 1,2-Dichloroethene	ND	3 J	6	36	6	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	5
Ethylbenzene	ND	6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	1.4	1.7	1.3	1.6	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methylcyclohexane	ND	ND	ND	ND	ND	1.4	6.9	4.4	5	5.1	5.1	2.7	4.8	3.8	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Methylene chloride	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
4-methyl-2-pentanone (MIBK)	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Methyl tert butyl ether (MTBE)	ND	ND	ND	ND	ND	4.5	3.7	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	ND	ND	ND	5	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6 J	R	3.2	3.2	4	2.5	2.5	3.7	3.7	3.6	4.3	ND	2.3	5
Toluene	ND	ND	ND	2	ND	0.69 J	5.7	5.7	ND	ND	ND	ND	2.1	ND	ND	ND	0.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Trichloroethene	ND	ND	ND	4	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	1	3	ND	1.3	1.1	ND	2.1	1.1	1	1.8	1.4	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
o-Xylenes	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
m+p Xylene	ND	ND	ND	ND	ND	0.3 J	3.3	8.3	5.8	3.8	3.1	ND	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total Xylene	ND	2 J	ND	ND	ND	0.3 J	3.3	8.3	5.8	3.8	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total VOCs	26.0	11.0	14.0	61.0	14.0	26.0	72.2	86.3	82.3	67.5	36.8	17.3	41.1	70.0	11.3	26.0	20.4	3.5	3.2	4.0	2.5	2.5	3.7	3.7	3.6	17.3	15.0	10.0	
Total Chlorinated VOCs	0.0	3.0	7.0	48.0	14.0	5.4	4.6	3.0	9.6	3.8	3.2	4.6	5.8	2.2	1.3	6.0	4.0	3.2	3.2	4.0	2.5	2.5	3.7	3.7	3.6	4.3	0.0	2.3	
Water Quality Parameters (mg/L)																													
Iron- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
Manganese- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
Nitrate, mg/L-N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10
Sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.50E+08
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Ethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Total Alkalinity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Total Organic Carbon	NA	NA	9.5	8	12.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Field Measurements (units as indicated)																													
pH (units)	NA	NA	NA	NA	NA	7.15	7.13	7.01	6.77	6.84	7.03	7.05	NA	NA	NA	NA	NA	7.02	7.02	7.01	6.98	6.74	6.60	6.90	6.81	NA	NA	NA	6.5 - 8.5
Temperature (°C)	NA	NA	NA	NA	NA	11	10.6	15.3	17.6	13.2	14.5	16.7	NA	NA	NA	NA	NA	11.5	11.5	12	16.1	19.7	12.8	16.1	16.3	NA	NA	NA	--
Specific Conductance (uS)	NA	NA	NA	NA	NA	2966	3252	4081	3416	3227	3720	2900	NA	NA	NA	NA	NA	1538	1538	1421	1153	1348	1569	1520	1645	NA	NA	NA	--
Turbidity (NTU)	NA	NA	NA	NA	NA	100	50.2	8.3	4.38	15.3	15.7	27.5	NA	NA	NA	NA	NA	88.1	88.1	28.2	25	7.8	9.83	25.7	32.9	NA	NA	NA	--
ORP (mV)	NA	NA	NA	NA	NA	-87	-117	-139	- 140	- 113	- 130	-109	NA	NA	NA	NA	NA	27	27	15	1	13	22	5	14	NA	NA	NA	--
DO (ppm)	NA	NA	NA	NA	NA	1.47	2.27	1.36	0.97	1.3	1.42	1.57	NA	NA	NA	NA	NA	1.35	1.35	2.15	3.56	2.2	1.66	1.81	0.66	NA	NA	NA	--

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Results are from the 1993 RI/FS report prepared by URS.
3. Pre-injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
4. Between injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
5. Post-injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
6. Class "GA" Groundwater Quality Standards for NYSDEC Divisions of Water TOGS 1.1.1
7. Monitoring Wells MW-4S & MW-9S added to monitoring progrem as per NYSDEC Letter Dated June 9, 2010.

Definitions:
ND = Parameter not detected above laboratory detection limit.
NA = Sample not analyzed for parameter.
"--" = No GWQS available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
R = Data rejected.

Excedeeds GWQS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1
SUMMARY OF GROUNDWATER MONITORING RESULTS

SENECA MARKET I, LLC SITE
WATKINS GLEN, NEW YORK

Parameter [1]	MW-21S									MW-4S				MW-9S				GWQS[6]
	11/21/08	02/27/09	09/23/09	12/14/09	05/27/10	10/18/10	05/11/11	10/21/11	06/11/12	10/18/10	05/11/11	10/21/11	06/11/12	10/18/10	05/11/11	1021/11	06/11/12	
TCL Volatile Organic Compounds (VOCs) - ug/L																		
Acetone	1.8 J	ND	ND	ND	ND	ND	12	14	13	ND	9.5	18	9.4	ND	8.8	17	8	50
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane (Methyl chloride)	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	2 J	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total 1,2-Dichloroethene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Methyl tert butyl ether (MTBE)	0.55 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	0.23 J	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
o-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
m+p Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total VOCs	2.8	0.0	2.6	0.0	0.0	0.0	12.0	14.0	13.0	0.0	9.5	18.0	9.4	2.3	8.8	19.0	8.0	
Total Chlorinated VOCs	0.4	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	2.0	0.0	
Water Quality Parameters (mg/L)																		
Iron- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
Manganese- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
Nitrate, mg/L-N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10
Sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.50E+08
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Ethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Total Alkalinity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Field Measurements (units as indicated)																		
pH (units)	7.25	6.78	6.70	6.87	7.01	7.04	NA	NA	NA	6.74	NA	NA	NA	6.92	NA	NA	NA	6.5 - 8.5
Temperature (˚C)	11.9	7.5	22.7	12.3	17.3	18.5	NA	NA	NA	16.4	NA	NA	NA	16.8	NA	NA	NA	--
Specific Conductance (uS)	1140	1510	1429	1440	1175	960.7	NA	NA	NA	1987	NA	NA	NA	2124	NA	NA	NA	--
Turbidity (NTU)	5.35	8.81	1.53	1.7	3.31	7.79	NA	NA	NA	20.6	NA	NA	NA	64.3	NA	NA	NA	--
ORP (mV)	-99	-99	-132	98	-41	0	NA	NA	NA	-113	NA	NA	NA	-18	NA	NA	NA	--
DO (ppm)	1.04	1.18	1.14	1.54	1.07	0.88	NA	NA	NA	0.95	NA	NA	NA	1.23	NA	NA	NA	--

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Results are from the 1993 RI/FS report prepared by URS.
3. Pre-injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
4. Between injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
5. Post-injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
6. Class "GA" Groundwater Quality Standards for NYSDEC Divisions of Water TOGS 1.1.1
7. Monitoring Wells MW-4S & MW-9S added to monitoring program as per NYSDEC Letter Dated June 9, 2010.

Definitions:
ND = Parameter not detected above laboratory detection limit.
NA = Sample not analyzed for parameter.
"--" = No GWQS available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
R = Data rejected.
Excedeeds GWQS

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TABLE 2

SUMMARY OF GROUNDWATER ELEVATIONS

Second Semi-Annual Groundwater Monitoring Report June 11, 2012
Seneca Market I, LLC Site
Watkins Glen, New York

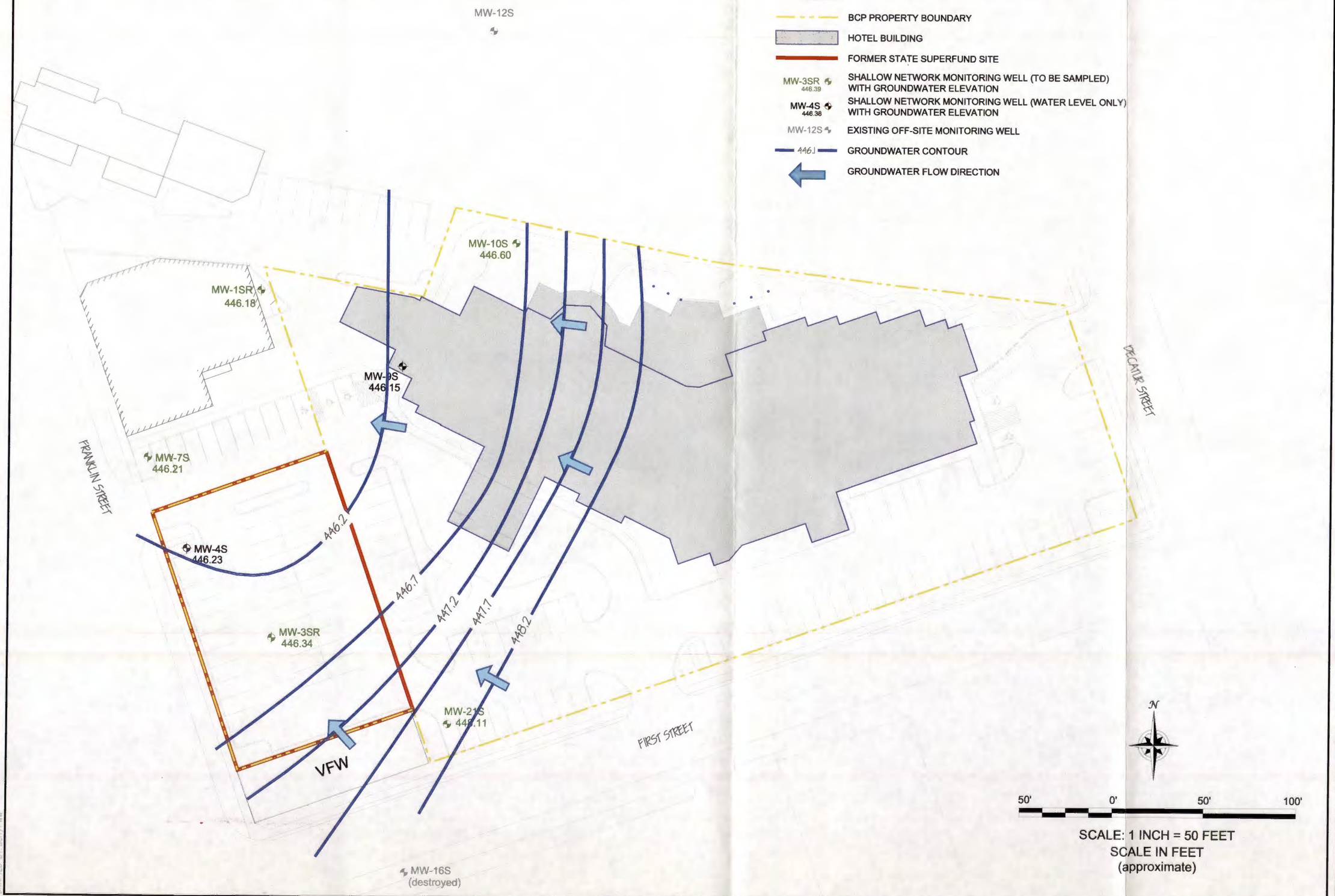
Location	TOR Elevation (fmsl)	DTW (fbTOR)	Groundwater Elevation (fmsl)
MW-1SR	451.39	5.21	446.18
MW-3SR	451.89	5.55	446.34
MW-4S	450.68	4.45	446.23
MW-7S	450.85	4.64	446.21
MW-9S	453.57	7.42	446.15
MW-10S	452.01	5.41	446.60
MW-21S	453.09	4.98	448.11

Notes:
1. DTW = depth to water, measured in feet below top of riser
2. fmsl = feet above mean sea level
3. fbTOR = feet below top of riser
4. TOR = Top of Riser; elevations surveyed on 02-27-2009

FIGURES

BENCHMARK

F:\CAD\Benchmark\Seneca Market I, LLC\Figure 1- Iso Map (June 2012).dwg, Adobe PDF



DATE: JULY 2012
DRAFTED BY: CDL/PHW

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NEW YORK 14210
(716) 856-0599

JOB NO.: 0211-001-600

GROUNDWATER ISOPOTENTIAL MAP ANNUAL MONITORING (JUNE 2012)

LONG-TERM GROUNDWATER MONITORING PROGRAM

SENECA MARKET I, LLC SITE
WATKINS GLEN, NEW YORK
SITE NO. C849004

PREPARED FOR
SENECA MARKET I, LLC

FIGURE 1

ATTACHMENT 1

LABORATORY ANALYTICAL DATA

June 27, 2012

Service Request No: R1203748

Mr. Michael Lesakowski
Benchmark Environmental Engineering
2558 Hamburg Turnpike
Suite 300
Lackawanna, NY 14218

Laboratory Results for: Seneca Market/0211-011-600

Dear Mr. Lesakowski:

Enclosed are the results of the sample(s) submitted to our laboratory on June 12, 2012. For your reference, these analyses have been assigned our service request number **R1203748**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at JJaeger@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Janice Jaeger
Client Services Manager

Columbia Analytical Services

ADDRESS 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623
PHONE 585-288-5380 | FAX 585-288-8475
Columbia Analytical Services, Inc.
Part of the ALS Group A Campbell Brothers Limited Company

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CASE NARRATIVE

Client:	Benchmark Engineering	**Service Request:**	R1103748
Project:	Seneca Market	**Project Number:**	
Sample Matrix:	Water	**Date Received:**	06/12/12

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Samples were collected on 06/12/12 and received at CAS on 06/12/12 at cooler temperatures of 5.3-5.6°C in good condition except as noted on the cooler receipt and preservation check form.

Volatile Organics

Eight water samples were analyzed for a site specific list of Volatiles by method 8021B from SW-846.

All initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% except Carbon tetrachloride and 1,2-Dichloroethane on the 06/15/12 CCV. All samples with positive detections for this compound associated with this CCV should be considered as estimated.

All Internal Standard and Tune criteria were met.

All Laboratory Control Sample (LCS) recoveries were within limits.

Site specific QC was not requested for these samples.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1203748

Lab ID	Client ID
R1203748-001	MW-1SR
R1203748-002	MW-3SR
R1203748-003	MW-4S
R1203748-004	MW-7S
R1203748-005	MW-9S
R1203748-006	MW-10S
R1203748-007	MW-21S
R1203748-008	TRIP BLANK

Columbia Analytical Services™

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REPORT QUALIFIERS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited
Connecticut ID # PH0556
Delaware Accredited
DoD ELAP #65817
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
North Carolina #676
Pennsylvania ID# 68-786
Rhode Island ID # 158
Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	6/11/12 1330
Sample Matrix:	Water	**Date Received:**	6/12/12
		Date Analyzed:	6/15/12 12:28
Sample Name:	MW-1SR	**Units:**	µg/L
Lab Code:	R1203748-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296059
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061512\F7270.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	**6.5**		5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: 6/11/12 1330
Date Received: 6/12/12
Date Analyzed: 6/15/12 12:28

Sample Name: MW-1SR
Lab Code: R1203748-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061512\F7270.D\

Analysis Lot: 296059
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	**62**		1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	**18**		1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	**80**		1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	6/15/12 12:28	
Dibromofluoromethane	97	89-119	6/15/12 12:28	
Toluene-d8	102	87-121	6/15/12 12:28	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: 6/11/12 1115
Date Received: 6/12/12
Date Analyzed: 6/15/12 12:56

Sample Name: MW-3SR
Lab Code: R1203748-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061512\F7271.D\

Analysis Lot: 296059
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	**11**		5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	6/11/12 1115
Sample Matrix:	Water	**Date Received:**	6/12/12
		Date Analyzed:	6/15/12 12:56
Sample Name:	MW-3SR	**Units:**	µg/L
Lab Code:	R1203748-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296059
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061512\F7271.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	**2.1**		1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	6/15/12 12:56	
Dibromofluoromethane	98	89-119	6/15/12 12:56	
Toluene-d8	101	87-121	6/15/12 12:56	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: 6/11/12 1240
Date Received: 6/12/12
Date Analyzed: 6/15/12 13:25

Sample Name: MW-4S
Lab Code: R1203748-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061512\F7272.D\

Analysis Lot: 296059
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	**9.4**		5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	6/11/12 1240
Sample Matrix:	Water	**Date Received:**	6/12/12
		Date Analyzed:	6/15/12 13:25
Sample Name:	MW-4S	**Units:**	µg/L
Lab Code:	R1203748-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296059
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061512\F7272.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	6/15/12 13:25	
Dibromofluoromethane	98	89-119	6/15/12 13:25	
Toluene-d8	103	87-121	6/15/12 13:25	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: 6/11/12 1300
Date Received: 6/12/12
Date Analyzed: 6/15/12 13:53

Sample Name: MW-7S
Lab Code: R1203748-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061512\F7273.D\

Analysis Lot: 296059
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	
71-43-2	Benzene	**1.2**		1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	**7.3**		1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: 6/11/12 1300
Date Received: 6/12/12
Date Analyzed: 6/15/12 13:53

Sample Name: MW-7S
Lab Code: R1203748-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061512\F7273.D\

Analysis Lot: 296059
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	**1.5**		1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	**1.3**		1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	6/15/12 13:53	
Dibromofluoromethane	99	89-119	6/15/12 13:53	
Toluene-d8	102	87-121	6/15/12 13:53	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	6/11/12 1140
Sample Matrix:	Water	**Date Received:**	6/12/12
		Date Analyzed:	6/15/12 14:21
Sample Name:	MW-9S	**Units:**	µg/L
Lab Code:	R1203748-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296059
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061512\F7274.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	**8.0**		5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	6/11/12 1140
Sample Matrix:	Water	**Date Received:**	6/12/12
		Date Analyzed:	6/15/12 14:21
Sample Name:	MW-9S	**Units:**	µg/L
Lab Code:	R1203748-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296059
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061512\F7274.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	6/15/12 14:21	
Dibromofluoromethane	99	89-119	6/15/12 14:21	
Toluene-d8	103	87-121	6/15/12 14:21	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	6/11/12 1345
Sample Matrix:	Water	**Date Received:**	6/12/12
		Date Analyzed:	6/15/12 14:49
Sample Name:	MW-10S	**Units:**	µg/L
Lab Code:	R1203748-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296059
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061512\F7275.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	7.7		5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: 6/11/12 1345
Date Received: 6/12/12
Date Analyzed: 6/15/12 14:49

Sample Name: MW-10S
Lab Code: R1203748-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061512\F7275.D\

Analysis Lot: 296059
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	**2.3**		1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	6/15/12 14:49	
Dibromofluoromethane	98	89-119	6/15/12 14:49	
Toluene-d8	101	87-121	6/15/12 14:49	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: 6/11/12 1030
Date Received: 6/12/12
Date Analyzed: 6/19/12 11:08

Sample Name: MW-21S
Lab Code: R1203748-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061912\F7295.D\

Analysis Lot: 296698
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	13		5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: 6/11/12 1030
Date Received: 6/12/12
Date Analyzed: 6/19/12 11:08

Sample Name: MW-21S
Lab Code: R1203748-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061912\F7295.D\

Analysis Lot: 296698
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	6/19/12 11:08	
Dibromofluoromethane	97	89-119	6/19/12 11:08	
Toluene-d8	99	87-121	6/19/12 11:08	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	6/11/12
Sample Matrix:	Water	**Date Received:**	6/12/12
		Date Analyzed:	6/19/12 11:36
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1203748-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296698
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061912\F7296.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	6/11/12
Sample Matrix:	Water	**Date Received:**	6/12/12
		Date Analyzed:	6/19/12 11:36
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1203748-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296698
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061912\F7296.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	6/19/12 11:36	
Dibromofluoromethane	98	89-119	6/19/12 11:36	
Toluene-d8	102	87-121	6/19/12 11:36	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/15/12 10:35
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1206737-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296059
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061512\F7266.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/15/12 10:35
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1206737-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296059
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061512\F7266.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	6/15/12 10:35	
Dibromofluoromethane	99	89-119	6/15/12 10:35	
Toluene-d8	104	87-121	6/15/12 10:35	

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Collected: NA
Date Received: NA
Date Analyzed: 6/19/12 10:39

Sample Name: Method Blank
Lab Code: RQ1206922-03

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: J:\ACQUDATA\MSVOA8\DATA\061912\F7294.D\

Analysis Lot: 296698
Instrument Name: R-MS-08
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon Disulfide	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
110-82-7	Cyclohexane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	
75-09-2	Dichloromethane	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene (Cumene)	1.0	U	1.0	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1203748
Project:	Seneca Market/0211-011-600	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/19/12 10:39
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1206922-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	296698
Data File Name:	J:\ACQUDATA\MSVOA8\DATA\061912\F7294.D\	**Instrument Name:**	R-MS-08
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
79-20-9	Methyl Acetate	2.0	U	2.0	
1634-04-4	Methyl tert-Butyl Ether	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	6/19/12 10:39	
Dibromofluoromethane	95	89-119	6/19/12 10:39	
Toluene-d8	99	87-121	6/19/12 10:39	

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Analyzed: 6/15/12

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 296059

Lab Control Sample
RQ1206737-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	17.3	20.0	86	72 - 128
1,1,2,2-Tetrachloroethane	21.8	20.0	109	72 - 131
1,1,2-Trichloroethane	20.9	20.0	105	80 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	15.6	20.0	78	68 - 136
1,1-Dichloroethane (1,1-DCA)	20.3	20.0	101	76 - 124
1,1-Dichloroethene (1,1-DCE)	19.7	20.0	99	72 - 129
1,2,4-Trichlorobenzene	20.9	20.0	105	70 - 133
1,2-Dibromo-3-chloropropane (DBCP)	21.3	20.0	107	62 - 131
1,2-Dibromoethane	21.7	20.0	109	78 - 125
1,2-Dichlorobenzene	20.7	20.0	103	79 - 124
1,2-Dichloroethane	17.1	20.0	85	73 - 127
1,2-Dichloropropane	21.0	20.0	105	80 - 123
1,3-Dichlorobenzene	20.0	20.0	100	78 - 124
1,4-Dichlorobenzene	19.7	20.0	99	78 - 123
2-Butanone (MEK)	21.1	20.0	105	60 - 133
2-Hexanone	20.7	20.0	103	61 - 131
4-Methyl-2-pentanone	21.4	20.0	107	61 - 132
Acetone	17.9	20.0	89	54 - 139
Benzene	19.8	20.0	99	78 - 121
Bromodichloromethane	18.9	20.0	95	80 - 125
Bromoform	22.0	20.0	110	68 - 130
Bromomethane	17.1	20.0	85	57 - 144
Carbon Disulfide	22.6	20.0	113	52 - 140
Carbon Tetrachloride	16.7	20.0	83	68 - 133
Chlorobenzene	19.8	20.0	99	80 - 121
Chloroethane	18.2	20.0	91	71 - 130
Chloroform	19.1	20.0	96	78 - 125
Chloromethane	20.8	20.0	104	61 - 138
Cyclohexane	19.5	20.0	98	57 - 126
Dibromochloromethane	20.1	20.0	101	78 - 133
Dichlorodifluoromethane (CFC 12)	15.5	20.0	78	45 - 159
Dichloromethane	21.2	20.0	106	75 - 125

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Analyzed: 6/15/12

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 296059

Lab Control Sample
RQ1206737-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Ethylbenzene	20.1	20.0	100	78 - 123
Isopropylbenzene (Cumene)	20.2	20.0	101	73 - 133
Methyl Acetate	22.4	20.0	112	57 - 157
Methyl tert-Butyl Ether	20.5	20.0	103	75 - 126
Methylcyclohexane	19.1	20.0	96	61 - 125
Styrene	20.5	20.0	103	80 - 132
Tetrachloroethene (PCE)	19.1	20.0	95	72 - 131
Toluene	19.9	20.0	100	78 - 122
Trichloroethene (TCE)	19.6	20.0	98	74 - 127
Trichlorofluoromethane (CFC 11)	15.0	20.0	75	69 - 141
Vinyl Chloride	18.4	20.0	92	72 - 138
cis-1,2-Dichloroethene	21.4	20.0	107	78 - 122
cis-1,3-Dichloropropene	19.5	20.0	97	77 - 125
m,p-Xylenes	40.9	40.0	102	79 - 126
o-Xylene	21.1	20.0	106	77 - 118
trans-1,2-Dichloroethene	19.9	20.0	100	75 - 121
trans-1,3-Dichloropropene	18.3	20.0	92	69 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Analyzed: 6/19/12

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 296698

Lab Control Sample
RQ1206922-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	18.5	20.0	93	72 - 128
1,1,2,2-Tetrachloroethane	20.1	20.0	101	72 - 131
1,1,2-Trichloroethane	19.9	20.0	99	80 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	15.5	20.0	78	68 - 136
1,1-Dichloroethane (1,1-DCA)	21.1	20.0	105	76 - 124
1,1-Dichloroethene (1,1-DCE)	20.7	20.0	104	72 - 129
1,2,4-Trichlorobenzene	20.4	20.0	102	70 - 133
1,2-Dibromo-3-chloropropane (DBCP)	19.6	20.0	98	62 - 131
1,2-Dibromoethane	20.5	20.0	103	78 - 125
1,2-Dichlorobenzene	20.1	20.0	100	79 - 124
1,2-Dichloroethane	16.7	20.0	84	73 - 127
1,2-Dichloropropane	21.3	20.0	106	80 - 123
1,3-Dichlorobenzene	19.4	20.0	97	78 - 124
1,4-Dichlorobenzene	19.4	20.0	97	78 - 123
2-Butanone (MEK)	21.0	20.0	105	60 - 133
2-Hexanone	20.1	20.0	100	61 - 131
4-Methyl-2-pentanone	20.0	20.0	100	61 - 132
Acetone	19.8	20.0	99	54 - 139
Benzene	19.9	20.0	99	78 - 121
Bromodichloromethane	18.9	20.0	94	80 - 125
Bromoform	21.0	20.0	105	68 - 130
Bromomethane	17.4	20.0	87	57 - 144
Carbon Disulfide	19.1	20.0	95	52 - 140
Carbon Tetrachloride	17.3	20.0	87	68 - 133
Chlorobenzene	19.7	20.0	98	80 - 121
Chloroethane	19.8	20.0	99	71 - 130
Chloroform	19.7	20.0	99	78 - 125
Chloromethane	21.4	20.0	107	61 - 138
Cyclohexane	18.3	20.0	92	57 - 126
Dibromochloromethane	19.7	20.0	99	78 - 133
Dichlorodifluoromethane (CFC 12)	15.9	20.0	79	45 - 159
Dichloromethane	20.8	20.0	104	75 - 125

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client: Benchmark Environmental Engineering
Project: Seneca Market/0211-011-600
Sample Matrix: Water

Service Request: R1203748
Date Analyzed: 6/19/12

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 296698

Lab Control Sample
RQ1206922-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Ethylbenzene	20.4	20.0	102	78 - 123
Isopropylbenzene (Cumene)	20.6	20.0	103	73 - 133
Methyl Acetate	21.5	20.0	108	57 - 157
Methyl tert-Butyl Ether	19.0	20.0	95	75 - 126
Methylcyclohexane	17.5	20.0	87	61 - 125
Styrene	20.2	20.0	101	80 - 132
Tetrachloroethene (PCE)	19.6	20.0	98	72 - 131
Toluene	20.1	20.0	100	78 - 122
Trichloroethene (TCE)	20.6	20.0	103	74 - 127
Trichlorofluoromethane (CFC 11)	15.6	20.0	78	69 - 141
Vinyl Chloride	19.9	20.0	100	72 - 138
cis-1,2-Dichloroethene	21.8	20.0	109	78 - 122
cis-1,3-Dichloropropene	18.9	20.0	95	77 - 125
m,p-Xylenes	41.6	40.0	104	79 - 126
o-Xylene	20.9	20.0	105	77 - 118
trans-1,2-Dichloroethene	20.7	20.0	103	75 - 121
trans-1,3-Dichloropropene	17.7	20.0	88	69 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Columbia Analytical Services — CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: Seneca Markets, LLC	Project Number: 0211-001-600
Project Manager: Mike Zesakowski	Report CC:
Company/Address: 2558 Hamburg Turnpike Benchmark Env Buffalo, NY 14218	
Phone #: 716-856-0599	E-mail: rdubis2@benchmarkturnkey.com
Sampler's Signature:	Sampler's Printed Name: RLD

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608	PCB's ☐8082 ☐608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
MW 1SR		6/11/12	1330	W	3	✓							
MW 3SR		6/11/12	1115	W	3	✓							
MW 4S		6/11/12	1240	W	3	✓							
MW-7S		6/11/12	1300	W	3	✓							
MW-9S		6/11/12	1140	W	3	✓							
MW-10S		6/11/12	1345	W	3	✓							
MW 21S		6/11/12	1030	W	3	✓							
trip blank		6/11/12				✓							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
__✓__ Standard
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

☐ See QAPP

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature	Daniel Ward	Signature	Signature	Signature	Signature
Printed Name: RLD	Printed Name: DW	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Benchmark	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 6/12/12 1515	Date/Time: 6/12/12 1515	Date/Time	Date/Time	Date/Time	Date/Time

R1203748 5
Benchmark Environmental Engineering
Seneca Market

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 7/2011

Cooler Receipt and Preservation Check Form

Project/Client Benchmark Folder Number R12-3748

Cooler received on 6/12/12 by: AWt COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1.	Were custody seals on outside of cooler?	YES	(NO)			
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES)	NO			
3.	Did all bottles arrive in good condition (unbroken)?	(YES)	NO			
4.	Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles?	(YES) ✗	NO	N/A		
5.	Were **Ice** or **Ice packs** present?	(YES)	NO			
6.	Where did the bottles originate?	(ALS/ROC)	CLIENT			
7.	Temperature of cooler(s) upon receipt:	5.6°	5.3°	____	____	____
	Is the temperature within 0° - 6° C?:	(Yes)	(Yes)	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 6/12/12 1530

Thermometer ID: IR GUN#3 / (IR GUN#4) Reading From: (Temp Blank) / Sample Bottle

If out of Temperature, note packing/ice condition &Client Approval to Run Samples:

All Samples held in storage location R-002 by AWt on 6/12/12 at 1530

5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: JMS 6/12/12

Cooler Breakdown: Date: 6/12/12 Time: 1705 by: (AD)

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	~~YES~~	(NO)
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: Trip Blanks, Field Dup, MS/MSD not on C.OC.

pH	Reagent	YES	NO	Lot Received	Exp
≥12	NaOH				
≤2	HNO_3				
≤2	H_2SO_4				
<4	$NaHSO_4$				
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)	
	$Na_2S_2O_3$	-	-		
	Zn Aceta	-	-		
	HCl	*	*	24110200	4/13

Sample ID	Vol. Added	Lot Added	Final pH

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 2-059-001

Other Comments:

-MW-21S - 1 vial w/ bubble

PC Secondary Review: JMS 6/20/12 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter