

2012 PERIODIC REVIEW REPORT (PRR) FORMER SCM – CORTLANDVILLE 839 NYS ROUTE 13 CORTLANDVILLE, NEW YORK 13045 SITE NO.: 712006

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March 2013 GeoLogic Project No. 210087



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APPENDIX E: Analytical Results from 2012 Annual Sampling Event

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2012 PERIODIC REVIEW REPORT FORMER SCM - CORTLANDVILLE 839 NYS ROUTE 13 CORTLANDVILLE, NEW YORK 13045 SITE NO.: 712006

1 INTRODUCTION

This report provides the basis for review and certification of the groundwater treatment system and the institutional and engineering controls (IC's/EC's) implemented at Site No. 712006. Signed Institutional and Engineering Controls Certification Forms are included in Appendix A.

The site is currently owned by Cortland Commerce Center, LLC. (CCC) and this report is prepared and submitted at the direction of CCC, consistent with the Site's remedial program as approved by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH). The reporting period addressed in this report is January 1, 2012 to December 31, 2012.

1.1 Summary of Site

Former manufacturing activities at the site resulted in contamination of soil and groundwater with chlorinated organic solvents, primarily trichloroethylene (TCE) and its decomposition products. In 1986, the contaminant plume was found to extend approximately 1.5 miles downgradient (north) of the facility. The potential contaminant sources identified included a 3,000-gallon aboveground storage tank (AST) that formerly contained TCE, a 20,000-gallon underground storage tank (UST) that formerly contained tramp oil and four areas of stained surface soil associated with past material handling practices. Additionally, a former tumbling area was identified within the building footprint (adjacent to monitoring well MW-L16).

Remedial measures implemented at the site have included installing a soil vapor extraction (SVE) system and a groundwater pump and treat system. The SVE system was activated in 1990 and subsequently dismantled at an unknown date between 1996 through 1998. The groundwater remediation system is currently in operation. In June 1994, the Classification of the site was changed from 2 to 4 (site properly closed – required continued management).

2 SITE OVERVIEW

2.1 Site Location and Description

The site is located at 839 NYS Route 13, Town of Cortlandville, County of Cortland and State of New York (Appendix B, Drawing No. 1).

The site is approximately 47.4 acres in size and is developed with a one-story building occupying approximately 415,000 square feet. The building is utilized for office space, warehouse storage and manufacturing. The remainder of the site consists of employee

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parking areas, several small outbuildings, treated water infiltration lagoons and vacant undeveloped land.

The site is bordered on the north by Lime Hollow Road and a predominately residential area. It is bordered on the east by NYS Route 13 and a predominately commercial area. It is bordered on the south by a cemetery and the JM Murray Center (formerly part of the Smith Corona complex). It is bordered on the west by a mixture of undeveloped land, agricultural land and some residential properties.

2.2 Site History

The site was formerly owned and operated by Smith Corona Corporation (SCC), previously known as SCM Corporation (SCM). SCC utilized the site for the purposes of manufacturing typewriters. Trichloroethylene was used on the site by SCC during manufacturing processes.

In 1999, S. C. W. P., LLC (SCWP) purchased land and buildings from SCC and assumed operational responsibilities for the groundwater remediation system.

Cortland Commerce Center, LLC (CCC) purchased the site in May of 2010 from SCWP and assumed operational responsibilities for the groundwater remediation system.

2.3 Nature and Extent of Contamination

The site overlies the Otter Creek/Dry Creek aquifer. Town of Cortlandville municipal water wells are located approximately 2,300 feet west of the site and the City of Cortland municipal water wells are located approximately 1.5 miles north-northeast of the site.

In or around 1986 a plume of contaminated groundwater was detected during the investigation of an unrelated petroleum spill. This plume extended from the SCM site approximately 1.5 miles downgradient (generally north) toward the City of Cortland municipal well field. The contaminants in this plume were identified as (TCE) and related decomposition products.

In accordance with the 1989 Settlement Agreement, monitoring of off-site groundwater contamination has been conducted periodically by the NYSDEC, Cortland County Soil and Water Conservation District and the Cortland County Health Department.

2.4 Chronology of Site Remediation Activities

The remediation system, consisting of a recovery well, aeration tower, pipeline, rock cascade and an infiltration lagoon system, remains in place and has not been modified since its original construction.

A brief summary of the site remediation activities undertaken over the past 25 years is presented below¹:

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- October 1986 March 1987: Use of TCE was discontinued. Various aboveground storage tanks (AST's) and underground storage tanks (UST's) containing TCE, tramp oil, fuel oil and muriatic acid were removed. Visibly contaminated soil encountered during the tank work was also removed. In addition, four areas of stained soil related to past material handling practices were excavated and disposed of off-site.
- January 1989: The Settlement Agreement for remediation of the site was signed between the NYSDEC, other parties, and SCC on January 12, 1989.
- September December 1989: Approval of the remediation Phase I design was obtained from the NYSDEC on September 22, 1989. Phase I consisted of investigation, design, construction and installation of a groundwater recovery well. The groundwater recovery well came on-line on December 29, 1989. The water from the recovery well was utilized for non-contact cooling purposes and discharged into an existing sewer line until the Phase II system could be completed.
- May 1990: Approval of the remediation Phase II design was obtained from the NYSDEC on May 29, 1990. Phase II included installation of a (SVE) System and groundwater remediation system. The groundwater remediation system consisted of an air stripping column (aeration tower), distribution piping (water from recovery well to the air stripper and from the air stripper to an infiltration lagoon) and an engineered infiltration lagoon.
- August 1990: The SVE system came on-line.
- October 1990: The groundwater remediation system came on-line.
- 1996-1998: At an unknown date, the SVE system was shutdown and decommissioned. GeoLogic has not located or reviewed documentation related to the shutdown of the SVE system.
- 1997-1998: At an unknown date, the well monitoring frequency was reduced to annual. GeoLogic has not located or reviewed documentation related to the modification of the sampling frequency.
- April 1999: SCWP purchased the SCC land and buildings and assumed operational responsibilities for the groundwater remediation system.
- May 2001: With the permission of the NYSDEC, the stripping tower blower was turned off. The influent TCE concentration had reduced to the point that the tower was able to reduce TCE levels adequately to meet discharge limits without forced airflow. Sampling frequency of the tower influent, tower discharge and outfall cascade was increased from quarterly to monthly.

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 May 2010: CCC purchased the SCWP land and buildings and assumed operational responsibilities for the groundwater remediation system.

2.5 Cleanup and Site Closure Criteria

The site-wide groundwater cleanup criteria for the site are the New York State Class GA groundwater quality standards. Currently, the standard for TCE is 5 µg/L.

All site wells are required to be monitored a minimum of annually until all wells meet the clean-up criteria. When all wells meet the clean-up criteria, the remediation system may be shut down.

Groundwater monitoring will continue for a period of five years after the remedial system is shut down. If at any time during the post-remediation monitoring period any of the samples exceed the site-wide clean-up criteria, the system will be restarted. For the first two years, post remediation monitoring will occur quarterly, then semi-annual for the next two years and finally once in the fifth year. If the remedial system must be restarted for any reason, the five year post shut-down monitoring program will be restarted once the site-wide cleanup criteria has been re-achieved.

3 INSTITUTIONAL AND ENGINEERING CONTROLS

Signed Institutional and Engineering Controls Certification Forms are included in Appendix A.

3.1 Summary of Institutional Controls (IC's)

No IC's are identified in the Settlement Agreement or Record of Decision.

3.2 Summary of Engineering Controls (EC's)

The EC's implemented at the site are described below:

 A groundwater remediation system consisting of an air stripping column (aeration tower), distribution piping (water from recovery well to the aeration tower and from the aeration tower to the infiltration lagoons) and engineered infiltration lagoons has been operating at the site since 1990.

Periodic monitoring of system performance is performed. The system must continue to operate until groundwater quality meets the clean-up criteria for the site. It should also be noted that although not required to be operated at present, the blowers (primary and back up) for the air stripper must remain in place and in good working order.

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3.2.1 Summary of EC Operations During Reporting Period

Site Monitoring & Groundwater Treatment System

The groundwater remediation system has operated without major breakdown during this reporting period. The pump rate was checked during monthly sampling events and the average flow rate for the year was 733 gallons per minute (gpm), which meets the design standard of 700 to 1,000 gpm². Routine maintenance has been performed on system components on an as-needed basis.

It is noted that although the average flow rate for the year met the design standard, the average flow rate for the months of September, October, November and December was 660 gpm. This decrease in flow rate was associated with the decrease in groundwater levels. Charts 13 and 14, located in Appendix D, depict a comparison of recovery well groundwater elevations and pumping rates for 2011 and 2012.

In an attempt to increase the flow rate, the valve associated with the pumping well was opened all the way. It is also noted that the average flow rate for January 2013 was 700 GPM. It is expected the flow rate will continue to increase in the spring along with rising groundwater levels.

Both the primary and back-up blowers were energized and determined to be operational in January 2013.

During the annual sampling event, it was discovered that two wells (MW-6 and MW-11) were damaged and could not be sampled. The well casing at MW-6 was cracked and the protective steel casing at MW-11 was bent. Both locations were repaired and their reference elevations were established relative to the existing monitoring network. MW-6 and MW-11 were then sampled on December 7, 2012.

MW-2D remains blocked at a depth of 50 feet. It is likely that large gravel entered the well when it was originally damaged and that the gravel has become lodged in the well casing. Quarterly monitoring of well MW-10D continues to supplement the monitoring of conditions at the down gradient property boundary.

Sub-Slab Depressurization (SSD)/Soil Vapor Extraction (SVE) System

The sub-slab depressurization/soil vapor extraction system, installed in the vicinity of the former tumbling pit, has operated without major breakdown during this reporting period. The system consists of a single extraction point (well MW-L16) connected at a Gast Model R6P350A regenerative blower that extracts 218

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cfm of vapor from under and around the former tumbling pit. Routine maintenance has been performed on system components on an as-needed basis.

A sample of the system emissions was obtained on November 27, 2012. The TCE concentration was reported at 3,200 $\mu g/m^3$. This is an 82% decline from the initial concentration in January 2011. The analytical results demonstrate that the system has been and remains effective in removing residual contamination from under and around the former tumbling pit. The analytical results are included in Appendix F.

4 MONITORING PLAN

4.1 Monitoring Plan Components

Monitoring at the site consists of monthly sampling of the groundwater remediation system, quarterly monitoring of MW-10D and annual sampling of seventeen (17) groundwater monitoring wells (locations depicted on Drawing No. 2, Appendix B). Sampling events data trends and supporting charts are discussed in Section 5.

4.2 Summary of Monitoring Completed During Reporting Period

The following sampling events have taken place during this reporting period:

- Annual Sampling of Groundwater Monitoring Wells (11/19/2012 11/20/2012):
 - Interior Shallow Wells: MW-6, MW-7, MW-8, MW-11 and MW-12S;
 - At the time of the annual sampling it was discovered that Interior Shallow Wells MW-6 and MW-11 were damaged and therefore, could not be sampled:
 - MW-6 and MW-11 were repaired, surveyed and subsequently sampled on 12/7/2012;
 - Interior Deep Wells: MW-9 and MW-12D:
 - Perimeter Shallow Wells: MW-5S, MW-1S, MW-10S, MW-2S and MW-4S;
 - Perimeter Deep Wells: MW-4D, MW-5D, MW-1D and MW-10D;
 - Facility Well: MW-L16 (installed in 2008);
 - Quarterly Monitoring of MW-10D (February 2012, May 2012 and August 2012, plus annual sampling).
- Monthly Groundwater Remediation System (36 total samples in 2012):
 - Treatment System Influent (12 samples in 2012);
 - Tower Discharge (12 samples in 2012):
 - Cascade Outfall (12 samples in 2012).

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All groundwater samples were submitted for analysis to Life Science Laboratories, Inc., LSL Central Lab located at 5854 Butternut Drive, East Syracuse, New York. The groundwater samples were analyzed for specific Volatile Organic Compounds (VOC's) (1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Trichloroethene, Tetrachloroethene and Vinyl Chloride) utilizing EPA Method 8260B.

4.2.1 Summary of Monthly Remediation System Sampling

Each month samples are collected at the Tower Influent, Tower Discharge and Cascade Outfall. The pumping rate is also recorded during each monthly sampling event. Samples are submitted for laboratory analysis, results are reviewed and monitoring reports are submitted to the NYSDEC and NYSDOH after each monthly sampling event.

4.2.2 Summary of Annual Sampling Event

The depth to groundwater was measured in each of the seventeen (17) monitoring wells prior to collecting groundwater samples during the November 19, 2012 through November 20, 2012 annual sampling event. Based on recorded water levels, shallow and deep groundwater contour maps were prepared (Drawing No. 3 and No. 4, Appendix B). Generally, the groundwater flow under pumping conditions for the site was to the north-northwest; and was consistent with the previously reported flow direction. The recovery well continues to depress the water table sufficiently to influence groundwater flow at the site.

The field observations, including water levels, for the 2012 annual sampling event are summarized in Table 1, located in Appendix C.

Groundwater samples are submitted for laboratory analysis, results are reviewed and the results are detailed in the annual PRR for the site. The laboratory reports for the 2012 Annual Sampling event and the monthly monitoring results are included in Appendix E.

The results for the annual sampling event have been up-loaded to the NYSDEC EQuIS database.

4.3 Monitoring Deficiencies

During the annual sampling event (November 19, 2012 through November 20, 2012) the following deficiencies were noted:

 Interior Shallow Wells MW-6 and MW-11 were damaged and therefore, could not be sampled. Both locations were repaired, re-surveyed and subsequently sampled on 12/7/2012;



 Monitoring well MW-2D was unable to be sampled due to blockage within the well at a depth of about 50 feet;

5 DATA TRENDS AND REMEDIAL EFFECTIVENESS

5.1 Data Summary

Data from the annual groundwater sampling event and monthly remediation system sampling events are summarized in the following tables and charts and are included in Appendix C and Appendix D.

- APPENDIX C: Tables
 - Table 1: Groundwater Sampling Field Observations;
 - Table 2: Summary of Groundwater Analytical Results;
 - Table 3: Monthly Analytical Results May 2001 December 2012.
- APPENDIX D: Charts
 - Charts 1 through 4: Remediation System TCE Concentrations;
 - Charts 5 & 6: TCE Concentrations in Perimeter Shallow Wells;
 - Charts 7 & 8: TCE Concentrations in Perimeter Deep Wells;
 - Charts 9 & 10: TCE Concentrations in Interior Shallow Wells;
 - Charts 11 &12: TCE Concentrations in Interior Deep Wells.

The monitoring wells are categorized into four (4) groups (Perimeter Shallow, Perimeter Deep, Interior Shallow and Interior Deep). Charts 5 through 12 depict the TCE concentrations for both the last 10 years and 20 years for each well group (Appendix D). It should also be noted that in 2008 monitoring well MW-L16 was installed and is located inside the facility adjacent to a former tumbling pit. The data from this well is included in Table 2, located in Appendix C.

5.2 Remediation System Data Trends

A total of twelve monthly sampling events have taken place during this reporting period. Sampling of the remediation system consists of collecting samples from three (3) locations: Cascade Outfall, Tower Discharge and Tower Influent. Charts 1 through 3, located in Appendix D, depict the TCE concentrations for each of the three sample locations. As indicated in Charts 1, 2 and 3 the TCE concentration at each of the sample locations exhibits a continued downward trend.

The average TCE concentrations for the 2012 samples are listed below:

Tower Influent: 7.7 μg/L
Tower Discharge: 3.1 μg/L
Cascade Outfall: 1.3 μg/L

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5.3 Groundwater Quality Data Trends

Groundwater quality data trends are broken-down by the four groups of monitoring wells indicated below:

Perimeter Shallow Wells (MW-1S, MW-2S, MW-4S, MW-5S and MW-10S)

Three (3) of the five (5) perimeter shallow wells revealed TCE concentrations below the cleanup objective of 5 μ g/L. Wells MW-1S and MW-10S, did not meet the cleanup objective (a TCE concentration of 5.46 and 6.56 μ g/L, respectively). 2012 year's results for all five (5) wells were similar to previous years and continue to indicate a long term downward trend. Charts 5 and 6, located in Appendix D, depict 10-Year and 20-Year TCE concentrations for the perimeter shallow wells.

• Perimeter Deep Wells (MW-1D, MW-2D, MW-4D, MW-5D and MW-10D)

It should be noted that MW-2D could not be sampled due to a blockage. Two (2) of the four (4) perimeter deep wells sampled revealed TCE concentrations below the cleanup objective of 5 μ g/L. Wells MW-1D and the yearly average MW-10D, did not meet the cleanup objective (a TCE concentration of 5.65 and 7.5 μ g/L, respectively). 2012 year's results for all five (5) wells were similar to previous years and continue to indicate a long term downward trend. Charts 7 and 8, located in Appendix D, depict 10-Year and 20-Year TCE concentrations for the perimeter deep wells.

Interior Shallow Wells (MW-6, MW-7, MW-8, MW-11 and MW-12S)

Four (4) of the five (5) interior shallow wells revealed TCE concentrations below the cleanup objective of 5 μ g/L. Well MW-12S, did not meet the cleanup objective (TCE concentration of 5.6 μ g/L). However, the results for all of the interior shallow wells were lower than 2011. The results for all of the wells continue to indicate a decreasing trend over the past 20 years. Charts 9 and 10, located in Appendix D, depict 10-Year and 20-Year TCE Concentrations for the interior shallow wells.

Interior Deep Wells (MW-9 and MW-12D)

Both of the interior deep wells revealed TCE concentrations below the cleanup objective of 5 μ g/L. Charts 11 and 12, located in Appendix D, depict 10-Year and 20-Year TCE Concentrations for the interior deep wells.

Overall the TCE concentrations detected in the wells continue to indicate a decreasing trend over a 20-year span since the current groundwater treatment system was activated.

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5.4 Performance and Effectiveness of the IC's/EC's

The groundwater remediation system continued to be effective in 2012 as demonstrated by both the system operating conditions and the continued decreasing trend of TCE concentrations in the wells over time.

The groundwater pumping system was designed for:

Minimum Withdrawal Rate: 700 gpmMaximum Withdrawal Rate: 1,000 gpm

The average withdrawal rate for 2011 was 733 gpm. This is within the approved design operational range. However, the average flow rate for the months of September, October, November and December was 660 gpm. This decrease in flow rate was associated with the decrease in groundwater levels. Charts 13 and 14, located in Appendix D, depict a comparison of recovery well groundwater elevations and pumping rates for 2011 and 2012. In an attempt to increase the flow rate, the valve associated with the pumping well was opened all the way. It is also noted that the average flow rate for January 2013 was 700 gpm. It is expected the flow rate will continue to increase in the spring along with rising groundwater levels.

As stated in Section 5.3, contaminant concentrations have shown a declining trend over the past 20 years. This is particularly evident at the wells along Lime Hollow Road (the downgradient side of the site (wells MW-1S & MW-1D, MW-2S & MW-2D, MW-4S & MW-4D, and MW-10S & MW-10D). In 1990, the highest yearly average concentration of TCE in these wells was observed at well cluster MW-10S & MW-10D, 76 μ g/L and 36 μ g/L respectively. Over the past three years (2010-2012), the highest average concentration of TCE has been 6.67 μ g/L at MW-10D.

Contaminant trends in the interior wells (MW-6, MW-7, MW-8, MW-9, MW-11, MW-12S and MW-12D) echo those along the downgradient boundary. The highest average TCE concentration in 1990 was 1,549 μ g/L at MW-11. Over the past three years, the highest average concentration has been 21.5 μ g/L at MW-12S. This represents a greater than 98% decline over the past 20 years.

Given the contaminant concentrations at the site have declined by more than 90% over the past 20 years, the system continues to be effective at removing contamination from the subsurface.

5.5 Contaminant Mass Removal

Using the following:

- Average pumping rate = 733 gpm
- Average influent concentration of TCE = 7.7 μg/L
- Density of TCE = 1.465 g/mL



The system removal rates for 2012 are:

- Total volume of water pumped = 385,264,800 gallons
- Total mass of TCE removed= 11.23 Kg or 24.76 lb.
- Total volume of TCE removed = 7.7 L or 2 gal.

6 RECOMMENDATIONS

It is recommended that the current monthly remediation system sampling, quarterly sampling of MW-10D and annual groundwater sampling be conducted for another year. In addition, an annual submission of Periodic Review Reports is thought to be adequate to document data trends at the site.

The distribution piping from the cascade to the lagoons will be inspected in the Spring of 2013. The need to scarify the lagoons will be assessed at that time.

An attempt will be made to adjust the fins on the groundwater depression pump impeller to increase the pumping rate.

The next annual sampling event is scheduled for November 2013. All seventeen (17) monitoring wells will be sampled.

7 REFERENCES

- ¹ 2009 Periodic Review Report, February 2010, Buck Engineering, LLC
- ² Remediation System As-Built Report, December 1991, O'Brien & Gere
- ³ Focused Feasibility Study, May 1988, O'Brien & Gere



8 CERTIFICATION

Signed Institutional and Engineering Controls Certification Forms are included in Appendix A.

We certify that to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in 312.10 of 40 CFR 312. We further certify this report to be factually presented to the best of our knowledge and belief.

Prepared by,

GeoLogic NY, Inc.

Senior Author Forrest Earl

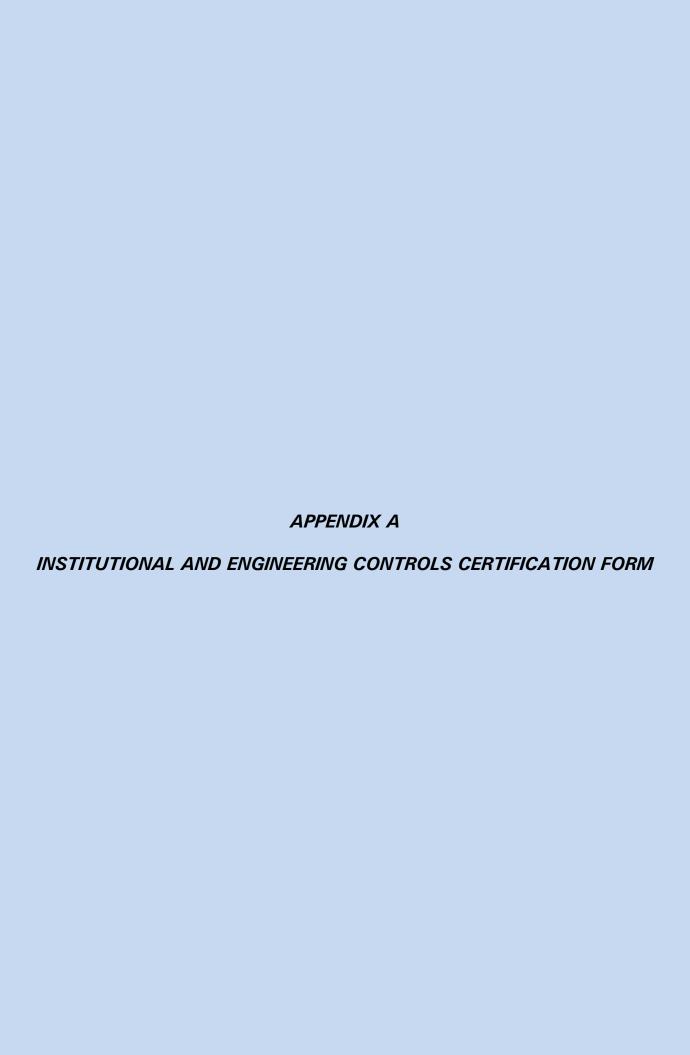
President / Principal Hydrogeologist

Senior Reviewer

Kenneth J. Teter, P.E./K. Teter Consulting, LLC

NYS LN 081583

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Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	te No.	712006	Site Details	Вс	ox 1	
Sit	te Name SC	M - Cortlandville				
Cit Co	te Address: (by/Town: Co bunty: Cortlant te Acreage: (c	ıd	Zip Code: 13045			
Re	porting Perio	od: January 01, 2012 t	to January 01, 2013			
				YE	ES NO	
1.	Is the inform	mation above correct?		¥		
	If NO, inclu	de handwritten above	or on a separate sheet.			
2.		or all of the site propert nendment during this R	ty been sold, subdivided, merged, o Reporting Period?	or undergone a □	×	
3.		peen any change of use RR 375-1.11(d))?	e at the site during this Reporting P	eriod	X	_
4.		ederal, state, and/or loo property during this R	cal permits (e.g., building, discharg Reporting Period?	e) been issued	T	L
			ns 2 thru 4, include documentation		THE SAMES NO THE CORP I WAS A WAS A	
5.		currently undergoing de	•		风	
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6.	Is the curre Industrial	nt site use consistent v	with the use(s) listed below?	×		
7.	Are all ICs/	ECs in place and funct	tioning as designed?	×	. –	
			R QUESTION 6 OR 7 IS NO, sign a THE REST OF THIS FORM. Otherw			
A C	Corrective Me	easures Work Plan mu	ust be submitted along with this for	rm to address thes	e issues.	
	7 1	\mathcal{L}		4/1/13		
Sig	nature of Ow	ner, Remedia/Party or I	Designated Representative	Date RE	CEn.	
Sig	nature of Ow	ner, Remedia/Party or I	Designated Representative	Date RE	CEIVE	ED

(

SITE NO. 712006 Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

95.00-10-01.100

· KARL OCHS. C/O S.C.W.P., LLC

Contrary Commerce Center, LLC

Box 4

Description of Engineering Controls

Parcel

Engineering Control

95.00-10-01.100

Groundwater Containment Groundwater Treatment System Vapor Mitigation

Engineering Control Details for Site No. 712006

Parcel: 95.00-10-01.100

The ROD identified engineering controls required for OU1 (onsite). These controls include the continued operation and maintenance of the groundwater extraction & treatment system until groundwater quality meets the cleanup criteria of 5 ug/L for TCE for all wells.

The groundwater monitoring wells must be sampled at periodic intervals (currently annually). As outlined in 2001 correspondence, the groundwater extraction & treatment system may be operated without the blower component as long as effluent concentrations remain below 5 ug/L for TCE, and with monthly monitoring of the groundwater extraction & treatment system influent & effluent. The blower and a backup blower must remain in place and in working condition. The groundwater extraction system also acts as the onsite groundwater containment system, designed to eliminate contaminant migration offsite. A Soil Vapor Extraction system was installed as part of the remedial program. The SVE was operational

A Soil Vapor Extraction system was installed as part of the remedial program. The SVE was operational from August 1990 until operation was discontinued sometime after May 1994.

Periodic Review Report (PRR) Certification Statements

1.	1 certify	by	checking	"YES"	below	that:
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- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES NO

_
-

- 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

X D

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, Regredial Party or Designated Representative

Date

IC CERTIFICATIONS SITE NO. 712006

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.

print name print business address print business address (Owner or Remedial Party)

Colorlierce Capiel LLC

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

IC/EC CERTIFICATIONS

Box 7

Professional Engineer 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.

VENNETH J. TETER at HOMER NY 13077

print name print business address

am certifying as a Professional Engineer for the Cortano

A TOWN

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

Stamp (Required for PE)

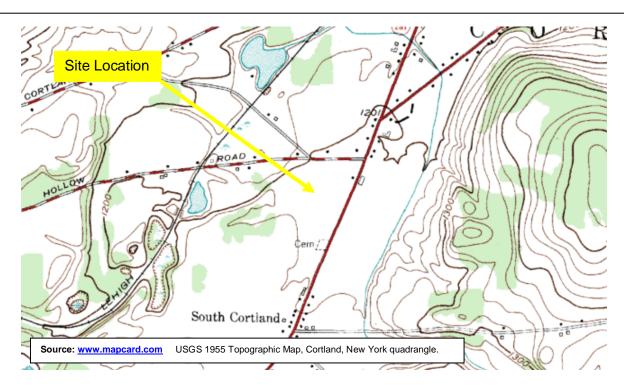
POFESSIONA

Date

edial Party)

APPENDIX B

DRAWINGS





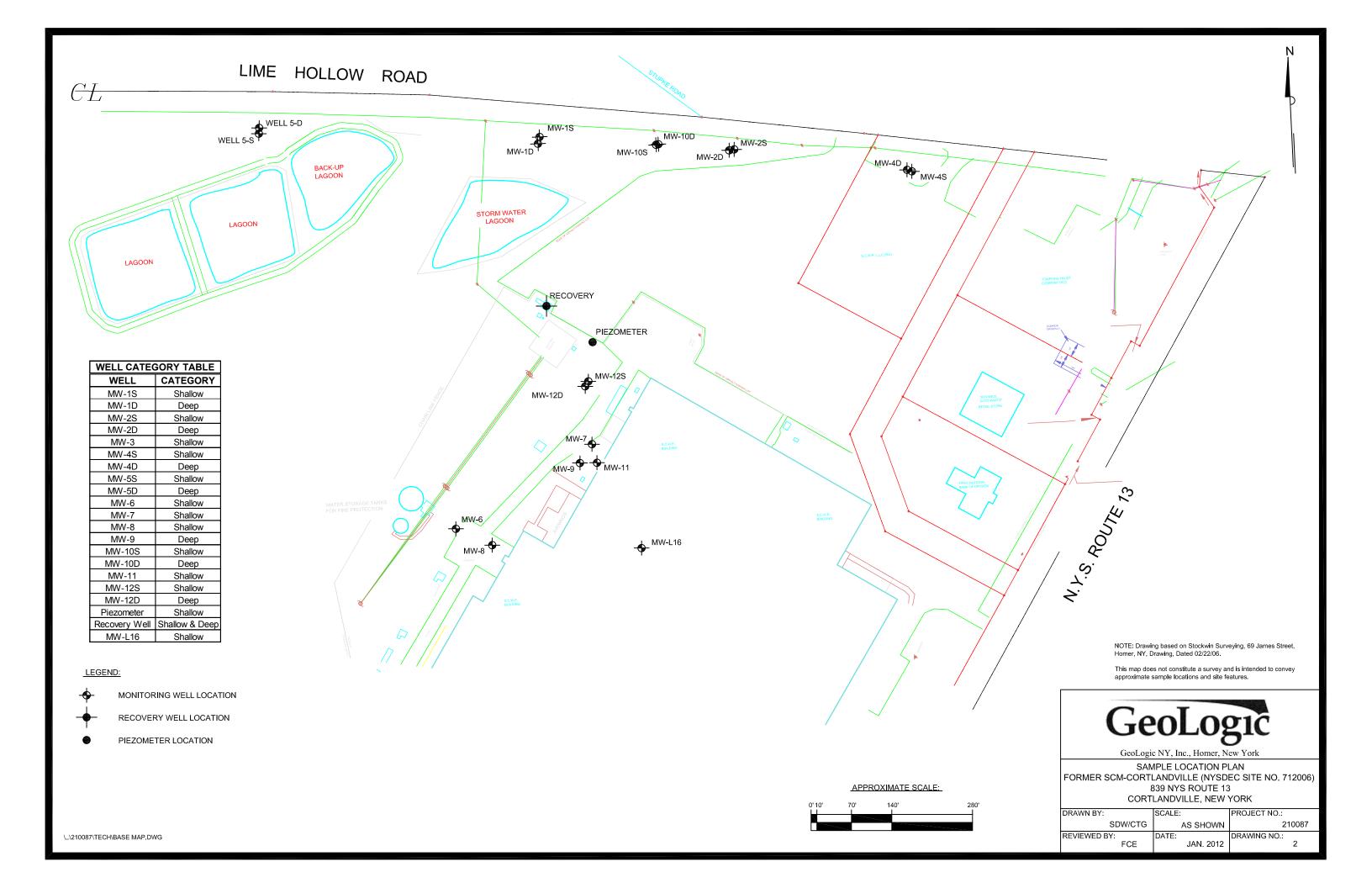


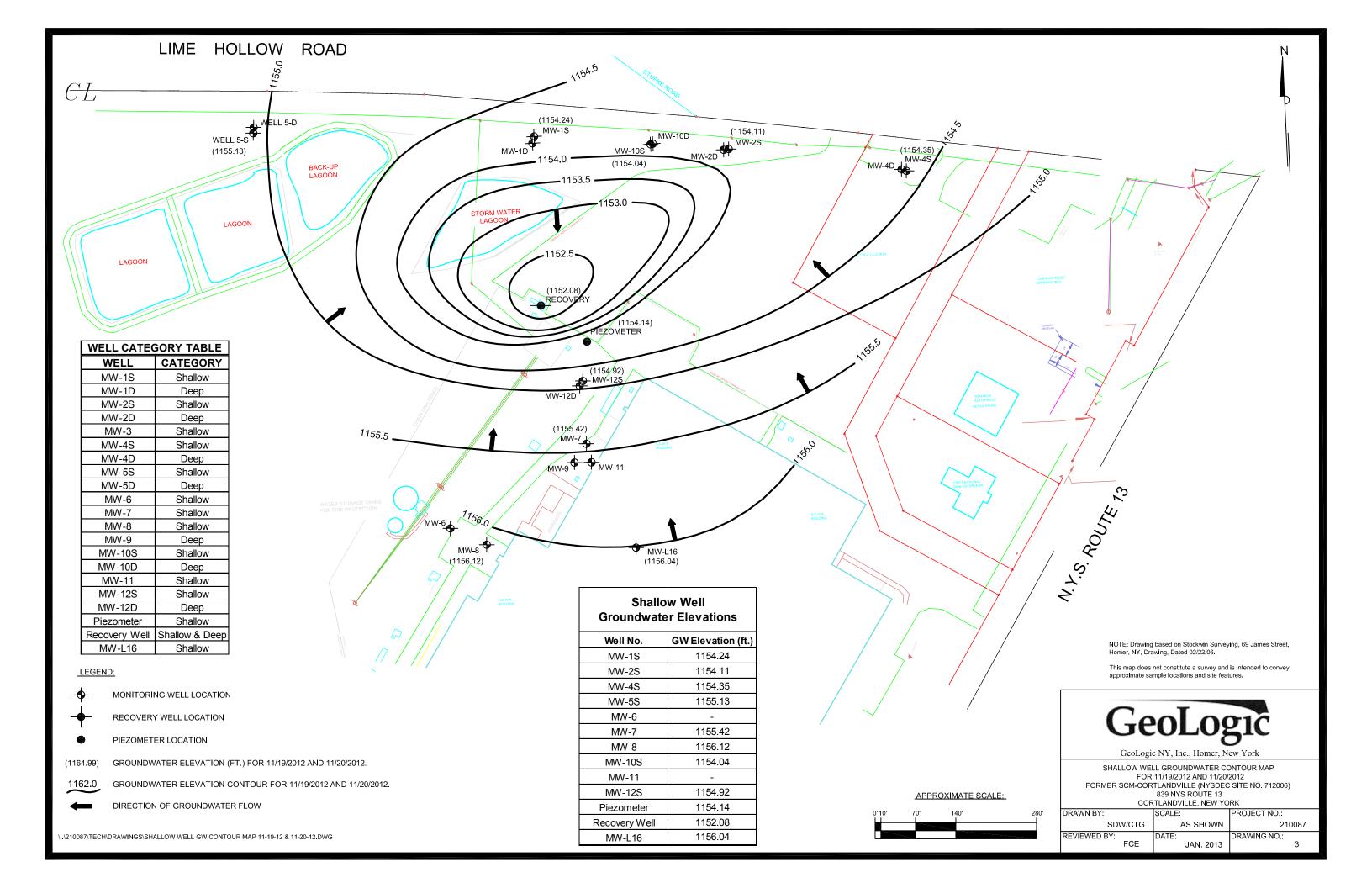
GeoLogic

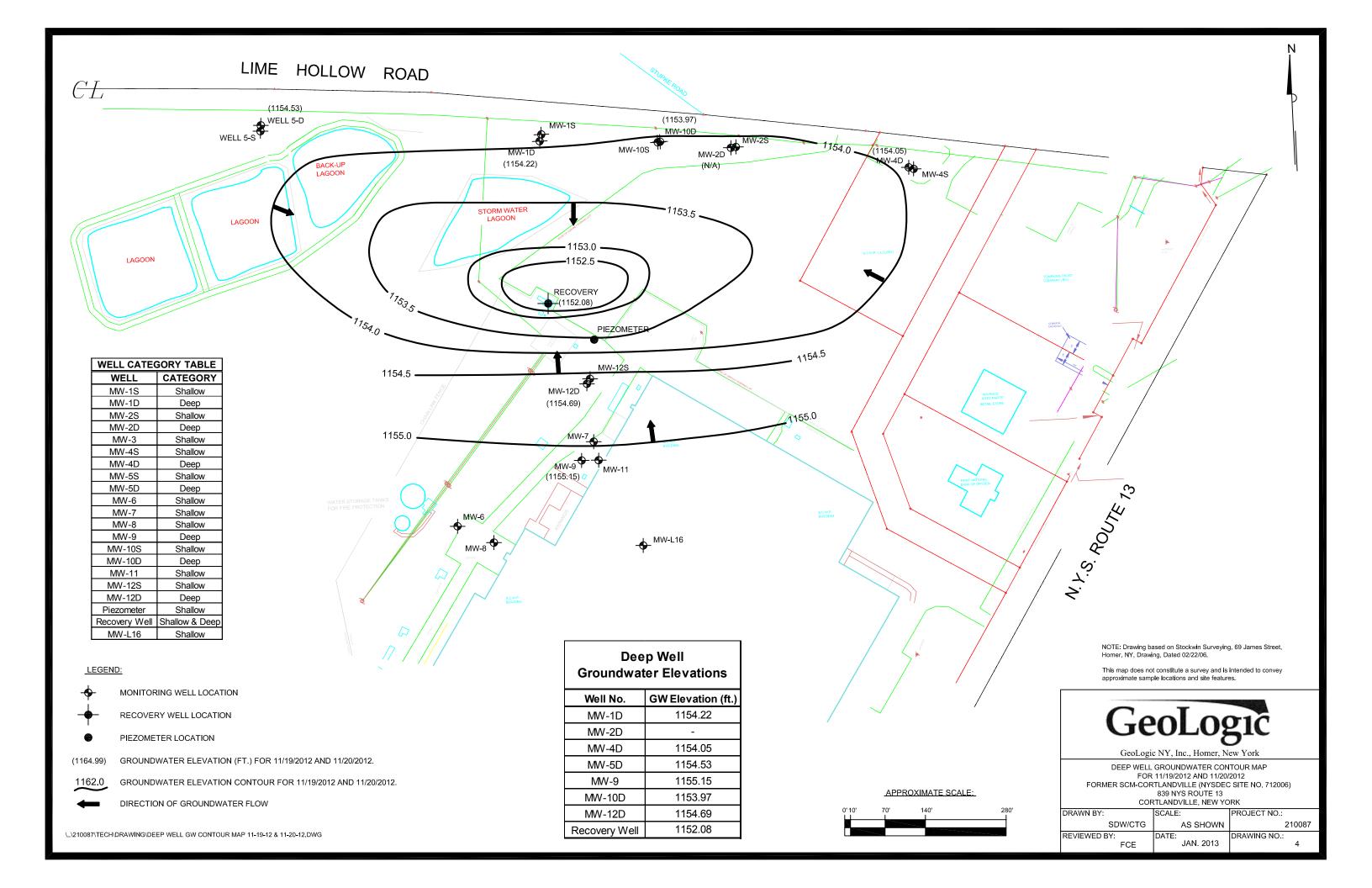
GeoLogic NY, Inc.

SITE LOCATION PLAN FORMER SCM-CORTLANDVILLE (SITE #: 712006) 839 NYS ROUTE 13 CORTLANDVILLE, NEW YORK

DRAWN BY:	SCALE:	PROJECT NO:
CTG	Not To Scale	210087
REVIEWED BY:	DATE:	DRAWING NO:
FCE	DEC. 2012	1







APPENDIX C
TABLES

TABLE 1. Field Observations: 2012 Annual Groundwater Sampling Event

		*******	TOP PVC	014	DEDTUGE	VOLUME (GAL.)	APPROX.	
Well#	CATEGORY	**TOP PVC ELEVATION	WATER LEVEL (FT)	GW ELEVATION	DEPTH OF WELL (FT)	of WATER in WELL	VOLUME PURGED (GAL.)	Notes
MW-1S	Shallow -Perimeter	1185.75	31.51	1154.24	39.50	1.28	5	Dark brown.
/W-1D	Deep - Perimeter	1185.85	31.63	1154.22	70.50	6.22	20	Clear.
MW-2S	Shallow -Perimeter	1210.91	56.80	1154.11	70.20	2.14	7.0	Clear.
MW-2D	Deep - Perimeter	N/A	-	-	104.00	-	-	No sample, well damaged.
MW-4S	Shallow -Perimeter	1209.72	55.37	1154.35	73.79	2.95	9	Light brown.
MW-4D	Deep - Perimeter	1210.14	56.09	1154.05	104.23	7.70	24	Clear.
MW-5S	Shallow -Perimeter	1178.46	23.33	1155.13	40.00	2.67	8.5	Clear.
MW-5D	Deep - Perimeter	1178.86	24.33	1154.53	71.88	7.61	24	Clear.
MW-6	Shallow - Interior	1211.42	55.88	1155.54	56.50	0.10	0.3	No sample, well damaged. Repaired, resurveyed & sampled 12-7. Brown, turbid.
MW-7	Shallow - Interior	1211.56	56.14	1155.42	58.75	0.42	1.5	Dark brown, turbid.
MW-8	Shallow - Interior	1212.76	56.64	1156.12	61.42	0.76	3	Brown.
ИW-9	Deep - Interior	1212.94	57.79	1155.15	100.46	6.83	24	Clear.
MW-10S	Shallow -Perimeter	1207.23	53.19	1154.04	62.00	1.41	5	Light brown.
MW-10D	Deep - Perimeter	1207.52	53.55	1153.97	99.00	7.27	24	Clear.
MW-11	Shallow - Interior	1214.44	59.28	1155.16	59.50	0.04	1.75	No sample, well damaged. Repaired, resurveyed & sampled 12-7. Dark brown, turbid.
MW-12S	Shallow - Interior	1212.94	58.02	1154.92	62.00	0.64	2	Dark Brown, turbid.
MW-12D	Deep - Interior	1212.80	58.11	1154.69	89.00	4.94	18	Clear.
MW-L16	Shallow	1212.99	56.95	1156.04	60.00	0.49	2	Dark brown, turbid.
Piezometer	Shallow	1212.59	58.45	1154.14				No sample, water level only.
Recovery Well	Shallow & Deep	1205.62	53.54	1152.08	94.00			No sample, water level only.

N/A = Not available, well casing have been damaged or modified.



^{**} Top of PVC elevations were determined from survey by Jim Stockwin, LS, 2006.

BANAL 4 C		Feb-90 Aug-9	00 Nov-90 I	Feb-91 Ma	ay-91 Aug-9	1 Nov-91 Feb-9	92 May-92	Aug-92 Nov-	92 Feb-93	May-93 Au	g-93 Nov-93	Feb-94 Jun-	·94 Sep-94	Dec-94 Feb-	-95 May-95	Nov-95 N	/lay-96 No	ov-96 May-97 N	lov-97 May-98 N	Nov-98 Au	g-99 Jan-00	Nov-01 No	v-02 Jun-	03 Nov-03 Nov-04 Dec-05 Sep-06 No	v-06 May-07 Nov-07	Nov-08 Nov-09 Dec-10 Nov-11 Nov-12
MW-1S	TCE	<1 4	17 41	25	17 1	91 121	9 13	15	2 11	26	3 13	7	19 13	91	11 8	11	5	8l 10l	11] 15]	8	7] 5	l 6l	8	l 6l 11l 6l 7l	41 31 2	1 5 4 4 5 5.46
	TCE Yearly Ave.	1	32	20	.,	18	0 .0		10		13		10 10	13		10		7	11	12	7 5	6	8	6 11 6	4	0 1 0 0.10
	Total VOC's	<1 4	41	25	21 2	3 13	9 15	17	2 13	34	3 13	7	22 15	9	13 8	11	5	8 10	11 16	8	7 5	6	8	6 11 6 7	4 3 2	5 4 4 5 5.59
BANA/ 4 D	Total VOC Yearly Ave.		32			21			11		16			13		11		7	11	12	7 5	6	8	6 11 6	4	
MW-1D	TCE	22	-1 25	25	10 10	0 12 4	12 12	14	12 14	12	12 16	12	12 (11	12 12	12	7	10 7	0 7	7	0 2	2	1	2 2 5 NS	2 NC /	5 4 3 4 5.65
	TCE Yearly Ave.	32 <	21	25	10 1	19	13 13	14	13	13	14	12	10	11	12 12	12		9	8	7	8 3	3	1	2 3 5	3 110 -	
	TCE Yearly Ave. Total VOC's	32 <	<1 25	25	24 2	4 12 ·	13 14	16	15 16	16	115 17	13	13 10	13	14 14	13	7	11 7	8 7	7	8 3	3	3	2 3 5	3 4	5 4 3 4 5.85
BANA/ OC	Total VOC Yearly Ave.		21			21			15		16			12		14		9	8	7	8 3	3	3	2 3 5	3	
MW-2S	TCE	4	5 6	Ω	6	8 10	5 7	5	5 5	7	7 4	4	1 3	2 4	1 1	NA	1	NA 3	NA 4	NA	4 2	2	2	2 2 2 2	2 3 7	2 2 2 1.66
	TCE Yearly Ave.	4	5 5	0		8	3 7	3	6		6	- 4	7	4	7 7	4		4	3	4	4 2	2	2	2 2 2	2 3 2	2 2 2 1.00
	Total VOC's	4	5 6	8	6	8 12	5 7	8	5 5	7	7 4	4	4 3	4	4 4	NA	4	NA 3	NA 4	NA	4 2	2	2	2 2 2 2	2 3 2	2 2 2 1.66
	Total VOC Yearly Ave.		5			9			6		6			4		3		4	3	4	4 2	2	2	2 2 2	2	
MW-2D		_				_		_	_			_										- -				
	TCE	6	9 8	7	5	7 9	5 5	5	5 3	4	6 3	3	2 3	3 2	2 3	NA	2	NA 2	NA 1	NA		Damaged Dam		Damaged Damaged NS	NS NS NS	NS NS NS NS
	TCE Yearly Ave.		7			7			5		4			3		NA		NA 2	2	1	3 Damaged	Damaged Dam	aged	Damaged Damaged		
	Total VOC's	6	9 8	/	5	7 10	5 5	5	5 3	4	6 3	3	2 6	2	2 3	NA O	2	NA 2	NA 1	NA	3 Damaged	Damaged Dam	aged	Damaged Damaged		
MW-3	Total VOC Yearly Ave.		+ '			1			5		4			3				2		- 1	3 Damageo	Damaged Dam	ageu	Damaged Damaged		
WW-5	TCE	<1 <	<1 <1	<1	<1 <	1 <1 <	<1 <1	<1	<1 1	<1	<1 <1	<1	4 <1	<1	<1 <1	NA	19	NA 2	<1 8	NA	<1 <1	<1	<1	2 1 <1 NS	2 NS <	NS NS NS NS
	TCE Yearly Ave.		0			0			0		0			1		1		19	1	8	<1 <1	<1	<1	2 1 <1	2	
	Total VOC's Total VOC Yearly Ave.	<1 <	<1 <1	<1	<1 <	1 <1 <	<1 <1	<1	2 1	<1	<1 <1	<1	4 <1	<1	<1 <1	NA	33	NA 2	<1 12	NA 12	<1 <1	<1	<1	3 1 2	5 <	
MW-4S	Total VOC Yearly Ave.					0								 		U		33	- ' - 	12	<1 <1	<1	<1	3 1 2	5	
14144-40	TCE	<1 <	<1 2	<1	1	2 1 4	<1 1	1	1 <1	1	<1 <1	NA	<1 <1	<1	<1 1	NA	<1	NA <1	NA <1	NA	<1 <1	<1	<1	<1 <1 <1 <1	<1 <1 <1	<1 <1 <1 0.61
	TCE Yearly Ave.		1			1			1		0			0		1		0	0	0	<1 <1	<1	<1	<1 <1 <1	<1	
	Total VOC's Total VOC Yearly Ave.	<1 <	<1 2	<1	1	2 1 <	<1 1	1	1 <1	1	<1 <1	NA	<1 <1	<1	<1 1	NA	<1	NA <1	NA <1	NA	<1 <1	<1	<1 <1	<1 <1 <1 <1	<1 <1 <	<1 <1 <1 0.61
MW-4D	Total VOC Teally AVE.	+ + -	1			+ +			+		U					U		+	<u> </u>	U	<1 <1	<1	<u> </u>	<1 <1 <1	<1	
70	TCE	<1	1 <1	1	<1	1 1 4	<1 <1	<1	<1 <1	<1	<1 <1	NA	<1 <1	<1	<1 <1	NA	<1	NA <1	NA <1	NA	<1 <1	<1	<1	<1 <1 NS	<1 NS <1	<1 <1 <1 0.46
	TCE Yearly Ave.		1			1			0		0			0		1		0	0	0	<1 <1	<1	<1	<1 <1 <1	<1	
	Total VOC's Total VOC Yearly Ave.	<1	1 <1	1	<1	1 1 <	<1 <1	<1	<1 <1	<1	<1 <1	NA	<1 <1	<1	<1 <1	NA 0	<1	NA <1	NA <1	NA O	<1 <1	<1	<1 <1	<1	<1 <	<1 <1 <1 <1 0.46
MW-5S	Total voo Teally Ave.		'			+ +					<u> </u>			 				- 	- 		~					
	TCE	1	2 3	<1	1 :	2 <1 <	<1 <1	<1	<1 <1	<1	<1 <1	<1	<1 <1	<1	<1 <1	NA	<1	NA <1	NA <1	NA	<1 <1	<1	1	1 2 1 2	1 1 <	<1 <1 <1 1 0.72
	TCE Yearly Ave. Total VOC's	1	2 2	<1	1	1 2 <1 <	<1 <1	<1	0 <1	<1	<1 <1	<1	<1 <1	0	<1 <1	NA	<1	0 NA <1	0 NA <1	0 NA	<1 <1	<1 <1	1	1 2 1	1 1 <	<1 <1 <1 1 0.72
	Total VOC Yearly Ave.	'	2		'	1			0		0			0	<u> </u>	0		0	0	0	<1 <1	<1	2	1 2 1	1 1	\(\frac{1}{2}\)
MW-5D	•																									
	TCE Yearh Assa	2	3 5	3	3	3 1 <	<1 1	2	1 <1	2	2 <1	<1	<1 <1	<1	<1 1	NA	2	NA 2	NA <1	NA	<1 <1	<1	1	1 2 1 NS	1 NS <1	2 1 1 1 1.62
	TCE Yearly Ave. Total VOC's	2	8 5	3	3	3 1 4	<1 1	2	1 <1	2	2 <1	<1	<1 <1	<1	<1 2	NA NA	2	NA 2	NA <1	<1 NA	<1 <1	<1 <1	2	1 2 1	1 <	2 1 1 1 1.62
	Total VOC Yearly Ave.		5			3			1		1			0		1		2	2	<1	<1 <1	<1	2	1 2 1	1	
MW-6							10 00								10 11											
	TCE Yearly Ave.	NA 4	35	38	62	8 NA	18 30	40	27 21	70	32 19	45	50 20	33	18 14	13	34	14 18 24	13	10 5	5 11	4	14	16 20 15 NS	8 NS 10	6 5 35 9 2.29
	Total VOC's	NA 4	13 35	38	62	8 NA -	18 30	40	21 21	70	32 19	45	50 20	17	18 14	7	34	14 18	7 <1	10	5 11	4	15	16 20 15	8 10	6 5 35 9 2.29
B454/	Total VOC Yearly Ave.		26			27			27		36			33		13		24	13	5	5 11	4	15	16 20 15	8	
MW-7	TCF	290 1	19 63	190	57 19	9 NA -	11 57	130 1	130 120	67	25 18	85	60 40	10	45 23	NA	56	NA 25	NA 26	NA	24 24	12	4	9 5 19 NS	6 NS 8	3 2 6 7 2.14
	TCE Yearly Ave.	200	168	100	07 1	89	11 07	100 1	82	07	58	- 00	40	61	40 20	34	- 00	56	25	26	24 24	12	4	9 5 19	6	0 2 0 7 2.14
	Total VOC's	290 1	19 63	190	157 3	0 NA	15 167	250 2	250 175	136	25 19	137	153 84	7 02	84 25	NA	73	NA 35	NA 39	NA	31 30	23	5	13 5 30	8 8	3 2 6 7 2.24
MW-8	Total VOC Yearly Ave.		168			94		1	1/1		89			114		55		/3	35	39	31 30	23	5	13 5 30	8	
IAIAA-O	TCE	70 1	10 48	31	110	8 3 3	31 31	48	16 12	14	18 10	61	11 10	12	9 8	3	98	6 8	2 10	3	2 2	<1	2	3 5 3 NS	3 NS 3	5 2 41 3 1.01
	TCE Yearly Ave. Total VOC's		97			38	0.		32		14	.		24	0	7		52	5	7	2 2	<1	2	3 5 3	3	
	Total VOC's	70 1	10 48	31	110	8 3 3	31 31	48	16 12	14	18 10	61	11 10	12	9 8	3	98	6 8	2 10	3	2 2	<1	2	3 5 3	3 3	5 2 41 3 1.01
MW-9	Total VOC Yearly Ave.		103			38			32		14			24		/		52	5	/		<1		3 5 3	3	
14144-3	TCE	16	5 10	4	11 :	3 4	3 3	4	4 4	33	8 1	2	24 5	3	5 5	<1	18	2 1	<1 <1	5	7 5	4	5	7 17 6 NS	11 NS 5	<1 <1 <1 0.86
	TCE Yearly Ave.		9			6			4		12			9		3		10	1	3	7 5	4	5	7 17 6	11	
	Total VOC's Total VOC Yearly Ave.	16	5 10	4	14	3 4	3 3	4	4 4	42	8 1	2	24 5	3	5 5	<1	22	2 1	<1 <1	5	7 5	4	5	7 17 6	12 5	<1 <1 <1 <1 0.86
MW-10S	Total voc Teally Ave.	+ + + -	9			0			7		14		+	9	+	3		14	- ' - 	3	/ 5	4	<u> </u>	11 0	14	
	TCE	73 11	10 59	63	27 3	2 50 4	44 170	40	32 26	25	37 27	28	31 24	15	16 16	23	17	18 13	13 15	19	16 17	9	19	10 10 10 NS	7 6 8	6 7 7 6 6.56
	TCE Yearly Ave.		76			43			72		29			25		18		18	13	18	16 17	9	19	10 10 10	7	
	Total VOC's Total VOC Yearly Ave.	73 11	10 59	110	33 4	4 62 5	57 228	46	37 29	32	37 31	31	31 27	16	17 18	25	18	20 13	13 17	19	17 17	9	21	10 10 11	7 6 8	6 7 7 6 6.83
MW-10D		+ +	70			02			<u> </u>		32			20	+	20			- ' -	10	- 17		-1		' 	
	TCE	23 3	33 60	33	54 3	1 40 3	30 10	41	37 32	19	32 25	21	21 22	2 22	30 23	19	10	16 12	18 10	20	13 11	8	7	8 5 5 NS	6 6	7 8 5 5 9.49
	TCE Yearly Ave. Total VOC's		36		00	40	25	40	30	6.1	27	00	24	23	20	24	40	13	15	15	13 11	8	7	8 5 5	6	6.67
	Total VOC's Total VOC Yearly Ave.	23 3	33 60	33	66 39	9 45 3	35 12	10	34 36	21	32 28	22	21 25	24	32 26	19	10	16 12 13	18 10	20	13 11	8 Ω	7	8 5 5	6 6	7 8 5 5 9.75 6.77
MW-11	Total VOO Teally AVE.	+ + + -	30			70			J-7		29		-	23	+	20		10	10	13	10 11	9		 	<u> </u>	
	TCE	2600 4	14 3400	480	290 3	' ' ' ' ' '	50 420		<50 54	170	<50 <50	72 <	<50 51	51	42 38	19	170	85 46	10 27	11	14 5	7	6	21 11 12 NS	18 8	6 6 38 15 4.32
	TCE Yearly Ave. Total VOC's	0000	1549	400	5000	267 1 NA 44	40 000		125	4470	56	1000	200 10	44	104	33	200	128	28	19	14 5	7	6	21 11 12	18	
	Total VOC's Total VOC Yearly Ave.	2600 4	14 3400 1549	480	5090 14	1 NA 44 1428	40 630		230 344 119	1170	1700 <50 804	1062 12	260 105	639	101 87	144	300	415 96 358	69 49	30	35 5	31	6	49 11 32	40 8	6 6 81 15 5.28
MW-12S	Total voo Teally Ave.		1040			1420		7	710		004			000		1111		330		30	35	31		75 11 52	40	
_	TCE	190 28		270	190 10		46 50	150 1	140 150	150	180 100	110 ′	170 88		100 NA	24	82	60 82	11 80	23	11 59	10	44	62 46 27 NS	44 25	17 12 22 37 5.60
	TCE Yearly Ave. Total VOC's	190 28	203 30 120	270	330 13	145	02 62	196 1	97 179 172	183	145 180 109	119 1	192 90	114	101 NA	62	02	71	47	52	11 59	10	44	62 46 27	44	17 12 23 37 5.78
	Total VOC's Total VOC Yearly Ave.	190 28	203	210	330 13	190	00 02	.00	130	103	161	118	192 98	102	IOI NA	56	93	83	50	63	11 59	10	46	67 49 30	46 28	11 12 23 31 5.78
MW-12D																										
	TCE Veerle Asse	21 1	17 23	17	12 1	2 13	10 45	10	9 13	11	15 8	7	16	5	7 6	6	5	5 5	4 2	8	11 8	10	5	4 10 3 NS	6 4	3 2 2 <1 2.86
	TCE Yearly Ave. Total VOC's	21 1	19 17 23	17	14 1	14 2 13	11 52	12	9 13	13	11 15 8	7	16	9 5	7 6	6 6	5	5 5	4 2	5 8	12 8	10	7	4 10 3	6 2	3 2 2 <1 2.86
	Total VOC Yearly Ave.		19			14	52		21		12			9		6		5	5	5	12 8	12	7	4 10 3	6	2.00
MW-L16	TOF					1 1																				44 20 11
	TCE Yearly Ave	+	+			+ + -			+				_	 				- - 						+ + + + + + + + + + + + + + + + + + + +		41 20 14 4 1.95
	TCE Yearly Ave. Total VOC's																									42 21 14 4 1.95
	Total VOC Yearly Ave.																									



Table 2: Page 2 of 2 Summary of Groundwater Analytical Results

May-96 Nov-96 May-97 Nov-97 May-98 Nov-98 Aug-99 Nov-00 Nov-01 Nov-02 Jun-03 Nov-03 Nov-04 Dec-05 Sep-06 Nov-06 May-07 Nov-07 Nov-08 Nov-09 Dec-10 Nov-11 Nov-12 MW-BE1 NA NA NA NA NA NA TCE <1 <1 TCE Yearly Ave. NΑ <1 NA NA NA NA NA <1 Total VOC's <1 NA NA NA <1 NA NΑ NA Total VOC Yearly Ave. <1 NA NA NA <1 NA NA NA MW-BE2 TCE NA NA NA NA NA NA <1 <1 TCE Yearly Ave. <1 NA NA NA <1 NA NA NA Total VOC's <1 NA NA NA NA NA 1.2 NA Total VOC Yearly Ave. <1 NA NA NA 1.2 NΑ NA NA **DEC-23** TCE <1 <1 Total VOC's <1 <1 **DEC-24** TCE NS <1 NS Total VOC's <1 **DEC-25** 2.3 2.2 Total VOC's 2.3 2.2 **DEC-26** TCE NS 9.9 9.9 NS Total VOC's **DEC-27** TCE 4.7 NS Total VOC's 4.7 NS **DEC-28** 3.5 NS TCE Total VOC's 3.5 NS **DEC-29** TCE NS 2.4 Total VOC's 2.4 NS **DEC-30** TCE 1.4 1.2 Total VOC's 1.4 1.2 Notes: NS = Not Sampled. 1. Units are μg/L. 2. Well L16 was constructed inside the building on 12/5/08. 3. All data prior to 2010 provided to GeoLogic NY, Inc. by Buck Engineering, LLC.



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
5/17/2001	Trichloroethene	19.0	7.6	5	3.5
5/17/2001	Total VOC's	19.0	7.6		3.5
6/4/2001	Trichloroethene	14.0	5.6	5	2.3
0/4/2001	Total VOC's	14.0	5.6		2.3
7/10/2001	Trichloroethene	9.7	3.5	5	1.8
7/10/2001	Total VOC's	9.7	3.5		1.8
8/2/2001	Trichloroethene	13.0	5.4	5	3.0
0/2/2001	Total VOC's	13.0	5.4		3.0
9/7/2001	Trichloroethene	8.3	1.7	5	1.4
9/7/2001	Total VOC's	8.3	1.7		1.4
10/9/2001	Trichloroethene	8.0	ND<1	5	ND<1
10/9/2001	Total VOC's	8.0	ND<1		ND<1
11/13/2001	Trichloroethene	6.0	1.9	5	ND<1
11/13/2001	Total VOC's	6.0	1.9		ND<1
12/13/2001	Trichloroethene	5.7	2.6	5	1.2
12/13/2001	Total VOC's	5.7	2.6		1.2
4/0/0000	Trichloroethene	6.6	3.0	5	1.3
1/9/2002	Total VOC's	6.6	3.0		1.3
2/15/2002	Trichloroethene	9.4	2.6	5	1.6
2/15/2002	Total VOC's	10.6	2.6		1.6
2/9/2002	Trichloroethene	9.9	5.7	5	2.1
3/8/2002	Total VOC's	9.9	5.7		2.1
4/2/2002	Trichloroethene	11.0	4.4	5	2.2
4/2/2002	Total VOC's	11.0	4.4		2.2
5/1/2002	Trichloroethene	13.0	6.7	5	3.4
5/1/2002	Total VOC's	14.1	6.7		3.4
6/24/2002	Trichloroethene	14.0	4.7	5	3.4
6/24/2002	Total VOC's	14.0	4.7		3.4
7/0/2002	Trichloroethene	4.3	1.6	5	ND<1
7/9/2002	Total VOC's	4.3	1.6		1.3
0/40/0000	Trichloroethene	16.0	5.9	5	3.1
8/12/2002	Total VOC's	16.0	5.9		3.1
0/0/2002	Trichloroethene	12.0	3.9	5	1.8
9/9/2002	Total VOC's	12.0	3.9		1.8
40/2/2022	Trichloroethene	11.0	4.1	5	1.3
10/3/2002	Total VOC's	11.0	4.1		1.3
44/44/0000	Trichloroethene	10.0	4.3	5	2.0
11/14/2002	Total VOC's	10.0	4.3		2.0



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
12/31/2002	Trichloroethene	12.0	5.1	5	2.0
12/31/2002	Total VOC's	12.0	5.1		2.0
4/42/2002	Trichloroethene	13.0	5.8	5	2.1
1/13/2003	Total VOC's	13.0	5.8		2.1
0/40/0000	Trichloroethene	14.0	5.1	5	2.1
2/19/2003	Total VOC's	14.0	5.1		2.1
2/42/2002	Trichloroethene	14.0	5.9	5	2.2
3/12/2003	Total VOC's	14.0	5.9		2.2
4/0/0000	Trichloroethene	18.0	8.0	5	3.1
4/9/2003	Total VOC's	18.0	8.0		3.1
F/0/0000	Trichloroethene	16.0	5.8	5	3.0
5/2/2003	Total VOC's	16.0	5.8		3.0
0/00/0000	Trichloroethene	18.0	7.2	5	3.4
6/20/2003	Total VOC's	18.0	7.2		3.4
7/4/0000	Trichloroethene	16.0	5.8	5	2.4
7/1/2003	Total VOC's	16.0	5.8		2.4
0/4.4/0000	Trichloroethene	14.0	4.7	5	2.4
8/14/2003	Total VOC's	14.0	4.7		2.4
0/44/0000	Trichloroethene	9.6	3.5	5	1.8
9/11/2003	Total VOC's	9.6	3.5		1.8
40/0/000	Trichloroethene	12.0	5.5	5	2.4
10/2/2003	Total VOC's	12.0	5.5		2.4
44/04/0000	Trichloroethene	10.0	1.1	5	1.4
11/24/2003	Total VOC's	10.0	1.1		1.4
40/0/0000	Trichloroethene	13.0	6.5	5	3.0
12/3/2003	Total VOC's	13.0	6.5		3.0
4/5/0004	Trichloroethene	12.0	6.4	5	3.0
1/5/2004	Total VOC's	12.0	6.4		3.0
0/0/0004	Trichloroethene	14.0	7.0	5	3.1
2/2/2004	Total VOC's	14.0	7.0		3.1
0/4/0004	Trichloroethene	13.0	4.8	5	2.0
3/1/2004	Total VOC's	13.0	4.8		2.0
4/0/0004	Trichloroethene	16.0	6.0	5	2.7
4/2/2004	Total VOC's	16.0	6.0		2.7
E/6/2004	Trichloroethene	14.0	5.3	5	2.5
5/6/2004	Total VOC's	14.0	5.3		2.5
6/2/2004	Trichloroethene	12.0	4.9	5	2.5
6/3/2004	Total VOC's	12.0	4.9		2.5



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
7/1/2004	Trichloroethene	13.0	4.6	5	2.0
7/1/2004	Total VOC's	13.0	4.6		2.0
8/17/2004	Trichloroethene	12.0	4.7	5	1.9
6/17/2004	Total VOC's	12.0	4.7		1.9
0/7/0004	Trichloroethene	11.0	3.9	5	1.5
9/7/2004	Total VOC's	11.0	3.9		1.5
	Trichloroethene	12.0	2.2	5	2.1
10/18/2004	Total VOC's	12.0	2.2		2.1
	Trichloroethene	13.0	4.6	5	2.2
11/18/2004	Total VOC's	13.0	4.6		2.2
	Trichloroethene	11.0	2.8	5	1.3
12/8/2004	Total VOC's	11.0	2.8		1.3
	Trichloroethene	13.0	6.5	5	2.7
1/11/2005	Total VOC's	13.0	6.5		2.7
	Trichloroethene	9.0	5.0	5	2.0
2/8/2005	Total VOC's	9.0	5.0		2.0
	Trichloroethene	13.0	3.3	5	1.6
3/3/2005	Total VOC's	13.0	3.3		1.6
	Trichloroethene	15.0	6.2	5	2.2
4/4/2005	Total VOC's	15.0	6.2		2.2
-/-/	Trichloroethene	11.0	4.5	5	1.9
5/5/2005	Total VOC's	11.0	4.5		1.9
0/0/0005	Trichloroethene	5.6	2.4	5	1.0
6/8/2005	Total VOC's	5.6	2.4		1.0
7/11/2005	Trichloroethene	12.0	4.3	5	2.0
7/11/2005	Total VOC's	12.0	4.3		2.0
8/1/2005	Trichloroethene	9.9	3.5	5	1.7
0/1/2003	Total VOC's	9.9	3.5		1.7
9/6/2005	Trichloroethene	7.2	2.8	5	1.1
0/0/2000	Total VOC's	7.2	2.8		1.1
10/14/2005	Trichloroethene	6.0	2.3	5	ND<1
	Total VOC's	6.0	2.3		ND<1
11/18/2005	Trichloroethene	7.1	3.2	5	1.2
	Total VOC's	7.1	3.2		1.2
12/5/2005	Trichloroethene	7.4	3.1	5	1.2
	Total VOC's	7.4	3.1		1.2
1/3/2006	Trichloroethene	8.9	4.0	5	1.5
	Total VOC's	8.9	4.0		1.5
2/2/2006	Trichloroethene	9.5	4.0	5	1.7
	Total VOC's	9.5	4.0		1.7
3/20/2006	Trichloroethene	9.2	1.6	5	1.1
	Total VOC's	9.2	1.6		1.1



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
4/19/2006	Trichloroethene	10.0	4.0	5	1.6
4/13/2000	Total VOC's	10.0	4.0		1.6
5/4/2006	Trichloroethene	10.0	3.9	5	1.7
0/4/2000	Total VOC's	10.0	3.9		1.7
6/2/2006	Trichloroethene	9.6	3.6	5	1.7
0/2/2000	Total VOC's	9.6	3.6		1.7
7/6/2006	Trichloroethene	10.0	4.0	5	1.8
170/2000	Total VOC's	10.0	4.0		1.8
8/4/2006	Trichloroethene	10.0	4.2	5	1.7
0/4/2000	Total VOC's	10.0	4.2		1.7
9/5/2006	Trichloroethene	11.0	4.4	5	1.8
3/3/2000	Total VOC's	11.0	4.4		1.8
10/5/2006	Trichloroethene	11.0	4.4	5	1.8
10/3/2000	Total VOC's	11.0	4.4		1.8
11/20/2006	Trichloroethene	10.0	4.2	5	1.9
11/20/2000	Total VOC's	10.0	4.2		1.9
12/6/2006	Trichloroethene	11.0	2.9	5	1.2
12/0/2000	Total VOC's	11.0	2.9		1.2
1/8/2007	Trichloroethene	10.0	4.4	5	1.8
1/0/2007	Total VOC's	10.0	4.4		1.8
2/6/2007	Trichloroethene	12.0	3.1	5	ND<1
2/0/2001	Total VOC's	12.0	3.1		ND<1
3/21/2007	Trichloroethene	11.0	4.6	5	1.8
3/21/2001	Total VOC's	11.0	4.6		1.8
4/5/2007	Trichloroethene	10.0	4.8	5	1.6
4/3/2007	Total VOC's	10.0	4.8		1.6
5/18/2007	Trichloroethene	11.0	4.5	5	2.0
3/10/2007	Total VOC's	11.0	4.5		2.0
6/13/2007	Trichloroethene	12.0	4.3	5	2.0
0/13/2007	Total VOC's	12.0	4.3		2.0
7/9/2007	Trichloroethene	10.0	4.1	5	1.4
113/2001	Total VOC's	10.0	4.1		1.4
8/8/2007	Trichloroethene	9.2	3.4	5	1.4
0/0/2007	Total VOC's	9.2	3.4		1.4
9/7/2007	Trichloroethene	6.2	2.4	5	1.0
3/1/2001	Total VOC's	6.2	2.4		1.0



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
10/4/2007	Trichloroethene	5.9	2.2	5	1.2
10/4/2007	Total VOC's	5.9	2.2		1.2
11/26/2007	Trichloroethene	6.3	2.9	5	1.2
11/20/2007	Total VOC's	6.3	2.9		1.2
12/26/2007	Trichloroethene	10.0	4.8	5	1.9
12/20/2007	Total VOC's	10.0	4.8		3.0
1/11/2008	Trichloroethene	11.0	5.0	5	2.0
1/11/2000	Total VOC's	11.0	5.0		2.0
2/15/2008	Trichloroethene	8.9	3.5	5	1.3
2/10/2000	Total VOC's	8.9	3.5		1.3
3/24/2008	Trichloroethene	11.0	4.4	5	1.9
3/24/2000	Total VOC's	11.0	4.4		1.9
4/16/2008	Trichloroethene	9.6	3.9	5	1.7
4/10/2000	Total VOC's	9.6	3.9		1.7
5/21/2008	Trichloroethene	10.0	4.8	5	2.0
3/21/2000	Total VOC's	10.0	4.8		2.0
6/26/2008	Trichloroethene	8.5	3.4	5	1.7
0/20/2000	Total VOC's	8.5	3.4		1.7
7/22/2008	Trichloroethene	8.1	3.5	5	1.6
	Total VOC's	8.1	3.5		1.6
8/21/2008	Trichloroethene	6.0	3.0	5	1.3
	Total VOC's	6.0	3.0		1.3
9/18/2008	Trichloroethene	5.9	2.7	5	1.0
	Total VOC's	5.9	2.7		1.0
10/23/2008	Trichloroethene	3.5	2.2	5	<1
	Total VOC's	3.5	2.2		<1
11/26/2008	Trichloroethene	4.0	2.2	5	1.0
	Total VOC's	4.0	2.2		1.0
12/16/2008	Trichloroethene	4.2	2.2	5	1.1
	Total VOC's	4.2	2.2		1.1
1/20/2009	Trichloroethene	6.2	3.5	5	1.5
	Total VOC's	6.2	3.5		1.5
2/23/2009	Trichloroethene	5.0	2.1	5	<1
	Total VOC's	5.0	2.1		<1
3/17/2009	Trichloroethene	5.7	3.6	5	1.5
	Total VOC's	5.7	3.6		1.5
4/16/2009	Trichloroethene	6.0	3.5	5	1.8
	Total VOC's	6.0	3.5		1.8



Former SCM - Cortlandville

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
5/19/2009	Trichloroethene	6.4	3.5	5	1.6
	Total VOC's	6.4	3.5		1.6
6/18/2009	Trichloroethene	6.2	2.8	5	1.6
	Total VOC's	6.2	2.8		1.6
7/14/2009	Trichloroethene	4.3	2.7	5	1.4
	Total VOC's	4.3	2.7		1.4
8/31/2009	Trichloroethene	3.7	1.9	5	1.0
	Total VOC's	3.7	1.9		1.0
9/24/2009	Trichloroethene	3.7	2.0	5	1.0
	Total VOC's	3.7	2.0		1.0
10/20/2009	Trichloroethene	3.9	2.0	5	1.0
	Total VOC's	3.9	2.0		1.0
11/30/2009	Trichloroethene	3.2	2.2	5	1.0
	Total VOC's	3.2	2.2		1.0
12/29/2009	Trichloroethene	5.1	1.7	5	<1
	Total VOC's	5.1	1.7		<1
1/28/2010	Trichloroethene	5.9	2.7	5	1.3
	Total VOC's	5.9	2.7		1.3
2/24/2010	Trichloroethene	6.9	2.9	5	1.4
	Total VOC's	6.9	2.9		1.4
3/30/2010	Trichloroethene	8.0	3.7	5	1.7
	Total VOC's	8.0	3.7		1.7
4/29/2010	Trichloroethene	8.6	3.5	5	1.7
	Total VOC's	8.6	3.5		1.7
5/27/2010	Trichloroethene	8.5	3.1	5	1.8
	Total VOC's	8.5	3.1		1.8
6/30/2010	Trichloroethene	8.0	3.1	5	1.6
	Total VOC's	8.0	3.1		1.6
7/29/2010	Trichloroethene	6.8	2.5	5	1.2
	Total VOC's	6.8	2.5		1.2
8/31/2010	Trichloroethene	4.6	2.0	5	1.1
	Total VOC's	4.6	2.0		1.1
9/29/2010	Trichloroethene	4.9	1.9	5	1.0
	Total VOC's	4.9	1.9		1.0
10/28/2010	Trichloroethene	5.4	2.2	5	1.0
	Total VOC's	5.4	2.2		1.0
11/29/2010	Trichloroethene	6.4	2.5	5	1.2
	Total VOC's	6.4	2.5		1.2



Table No. 3 Monthly Analytical Results May 2001- December 2012

Former SCM - Cortlandville

Site No. 712006

Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
12/31/2010	Trichloroethene	9.9	3.7	5	1.3
	Total VOC's	9.9	3.7		1.3
1/24/2011	Trichloroethene	9.6	5.1	5	2.3
	Total VOC's	9.6	5.1		2.3
2/25/2011	Trichloroethene	8.0	5.3	5	2.0
	Total VOC's	8.0	5.3		2.0
3/31/2011	Trichloroethene	11.0	4.4	5	2.0
	Total VOC's	11.0	4.4		2.0
4/28/2011	Trichloroethene	11.0	4.1	5	1.9
	Total VOC's	11.0	4.1		1.9
5/31/2011	Trichloroethene	14.0	4.5	5	2.3
	Total VOC's	14.0	4.5		2.3
6/29/2011	Trichloroethene	12.0	4.5	5	2.2
	Total VOC's	12.0	4.5		2.2
7/29/2011	Trichloroethene	9.9	3.4	5	1.8
	Total VOC's	9.9	3.4		1.8
8/19/2011	Trichloroethene	9.8	3.5	5	1.8
	Total VOC's	9.8	3.5		1.8
9/27/2011	Trichloroethene	8.9	3.2	5	1.5
	Total VOC's	8.9	3.2		1.5
10/26/2011	Trichloroethene	9.7	3.9	5	1.7
	Total VOC's	9.7	3.9		1.7
11/22/2011	Trichloroethene	8.8	3.8	5	1.5
	Total VOC's	8.8	3.8		1.5
12/27/2011	Trichloroethene	10.4	4.3	5	1.7
	Total VOC's	10.7	4.5		1.7
1/27/2012	Trichloroethene	10.3	4.1	5	1.6
	Total VOC's	10.5	4.3		1.6
2/24/2012	Trichloroethene	12.0	5.0	5	2.1
	Total VOC's	12.3	5.2		2.1
3/27/2012	Trichloroethene	11.9	4.7	5	2.0
	Total VOC's	11.9	4.7		2.6
4/23/2012	Trichloroethene	10.2	4.2	5	1.9
	Total VOC's	10.4	4.3		1.9
5/31/2012	Trichloroethene	9.6	3.6	5	1.8
	Total VOC's	9.7	3.7		1.8
6/25/2012	Trichloroethene	8.3	3.4	5	1.4
	Total VOC's	8.4	3.5		1.4
7/26/2012	Trichloroethene	7.7	2.7	5	1.5
	Total VOC's	7.8	2.7		1.5



Table No. 3 Monthly Analytical Results May 2001- December 2012

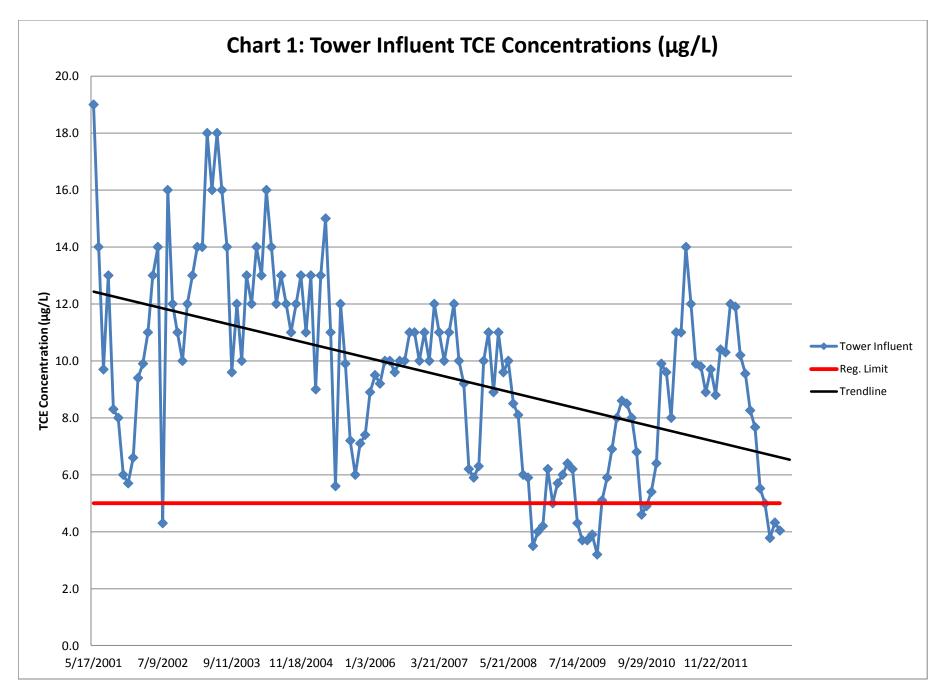
Former SCM - Cortlandville

Site No. 712006

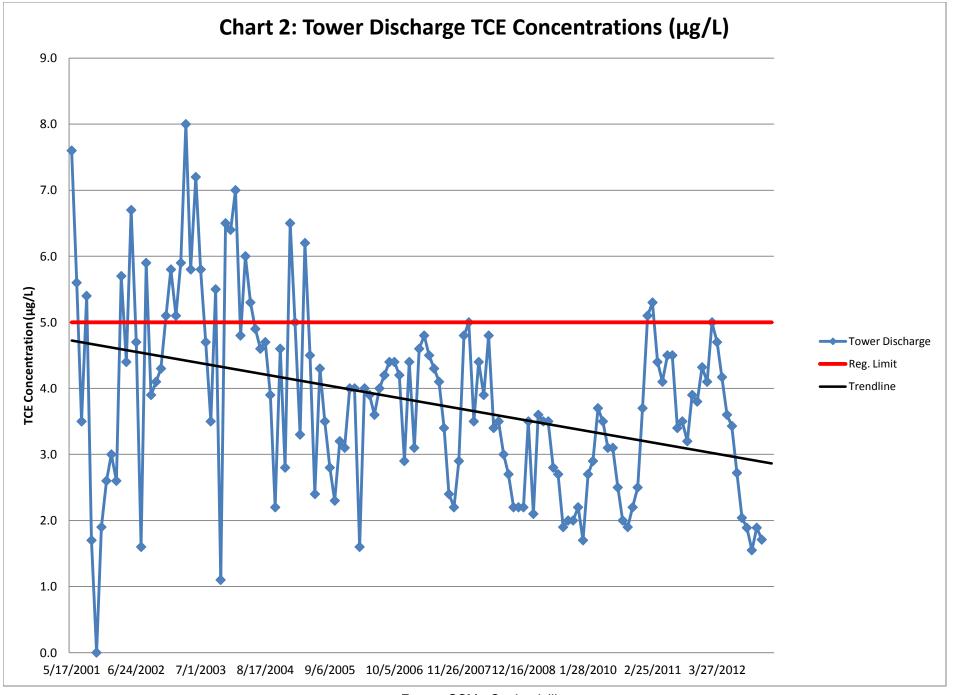
Sampling	Compound	Tower	Tower	Reg	Outfall at
Date		Influent	Discharge	Limit	Cascade
8/29/2012	Trichloroethene	5.5	2.0	5	0.9
	Total VOC's	5.5	2.0		0.9
9/25/2012	Trichloroethene	5.0	1.9	5	0.8
	Total VOC's	5.0	1.9		0.8
10/29/02012	Trichloroethene	3.8	1.6	5	0.6
	Total VOC's	3.8	1.6		0.6
11/21/2012	Trichloroethene	4.3	1.9	5	0.7
	Total VOC's	4.3	1.9		0.7
12/18/2012	Trichloroethene	4.0	1.7	5	0.7
	Total VOC's	4.0	1.7		0.7



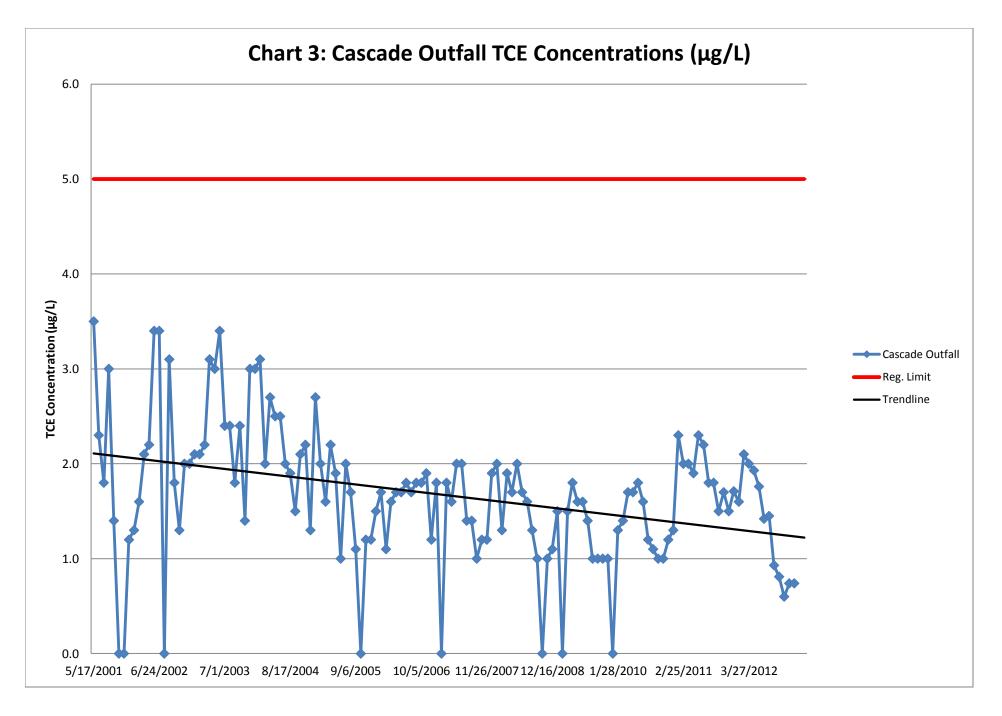
APPENDIX D
CHARTS



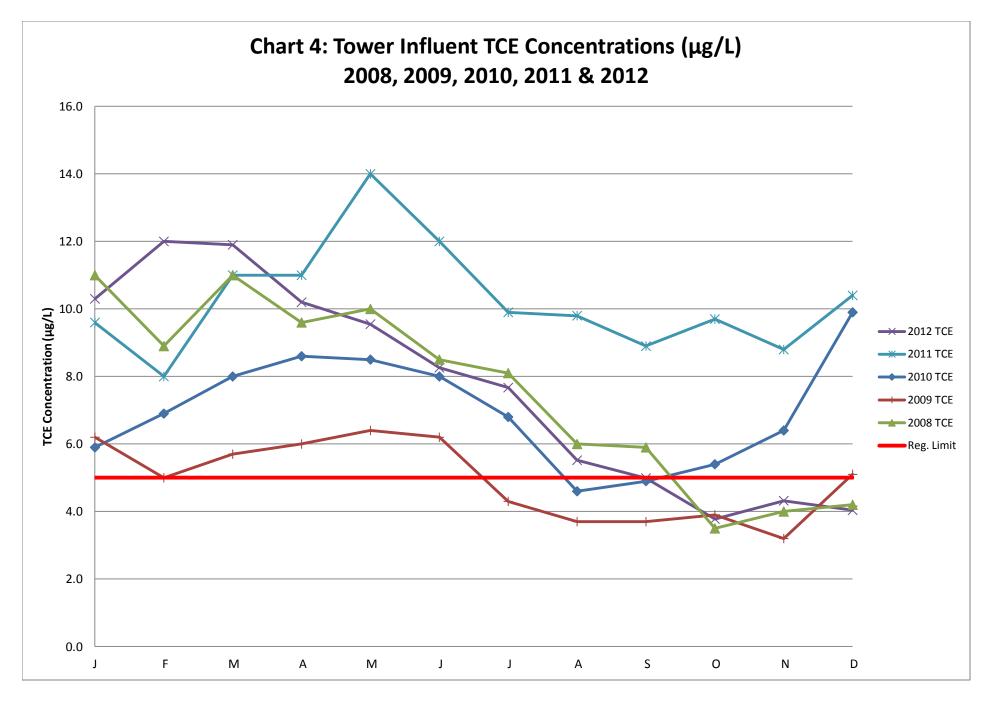




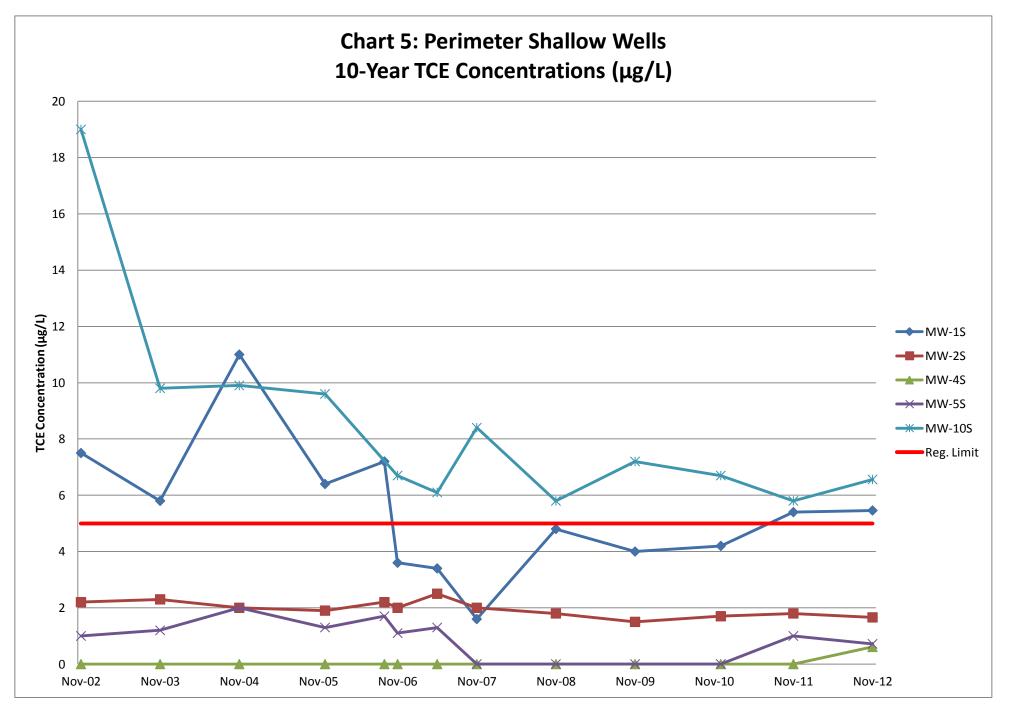




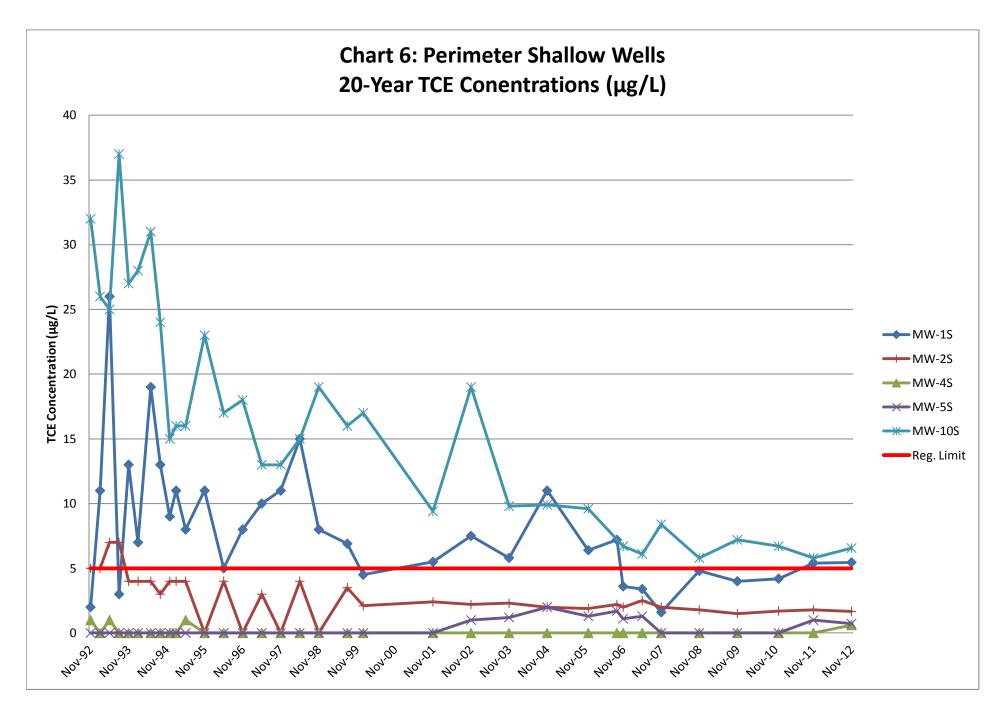




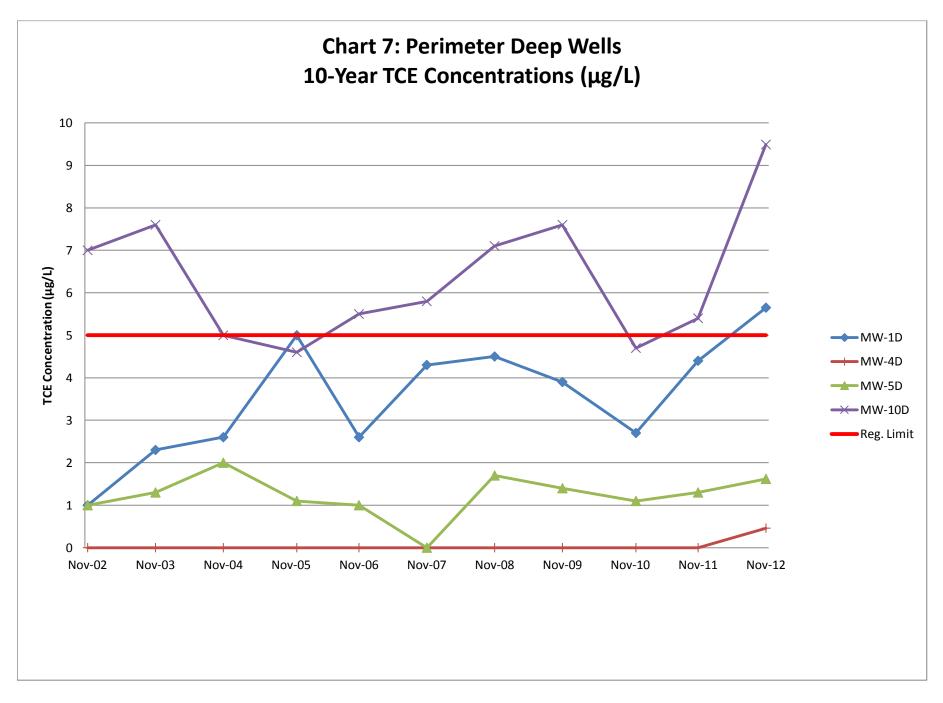




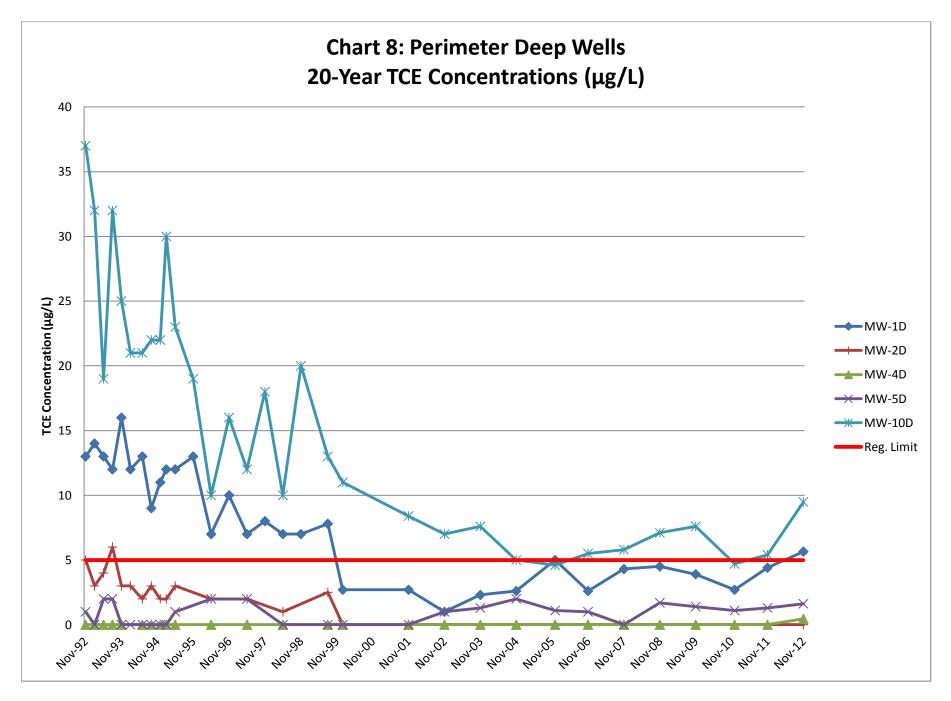




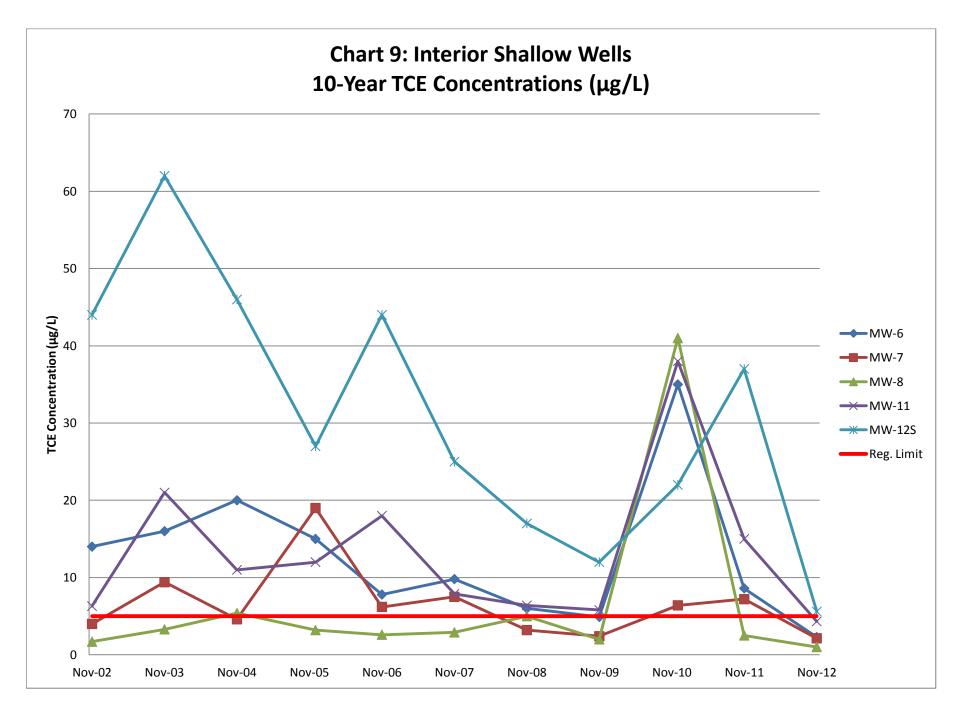




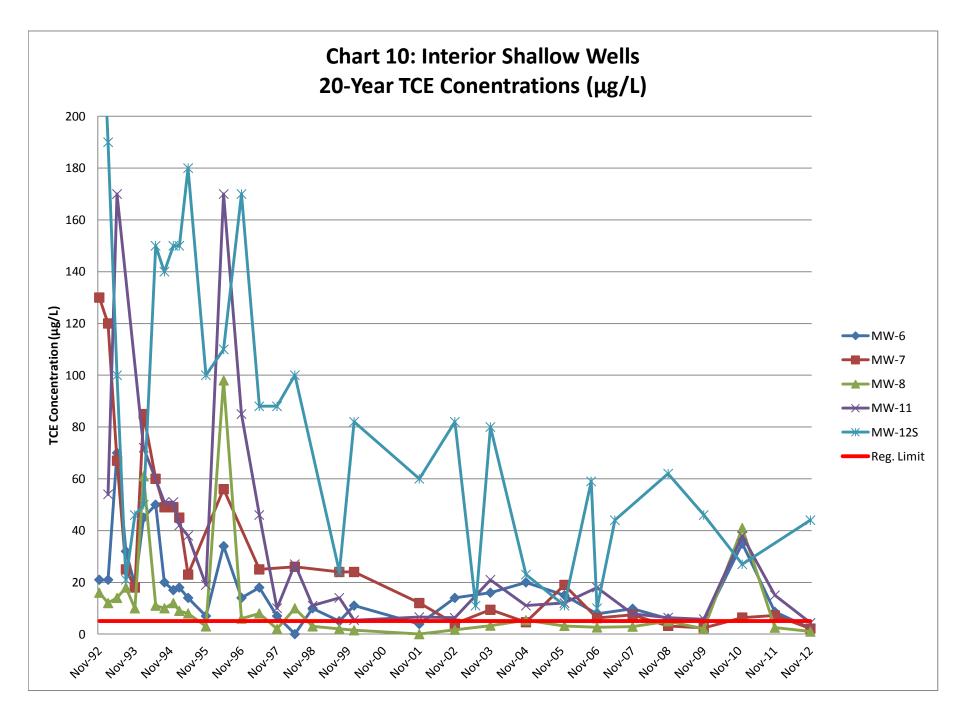




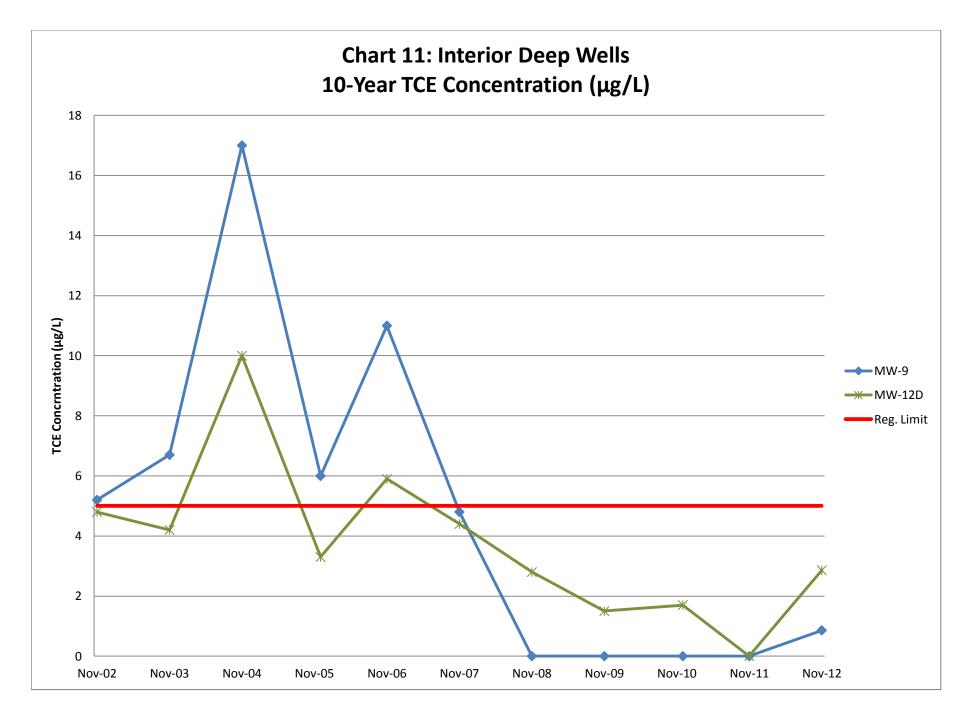




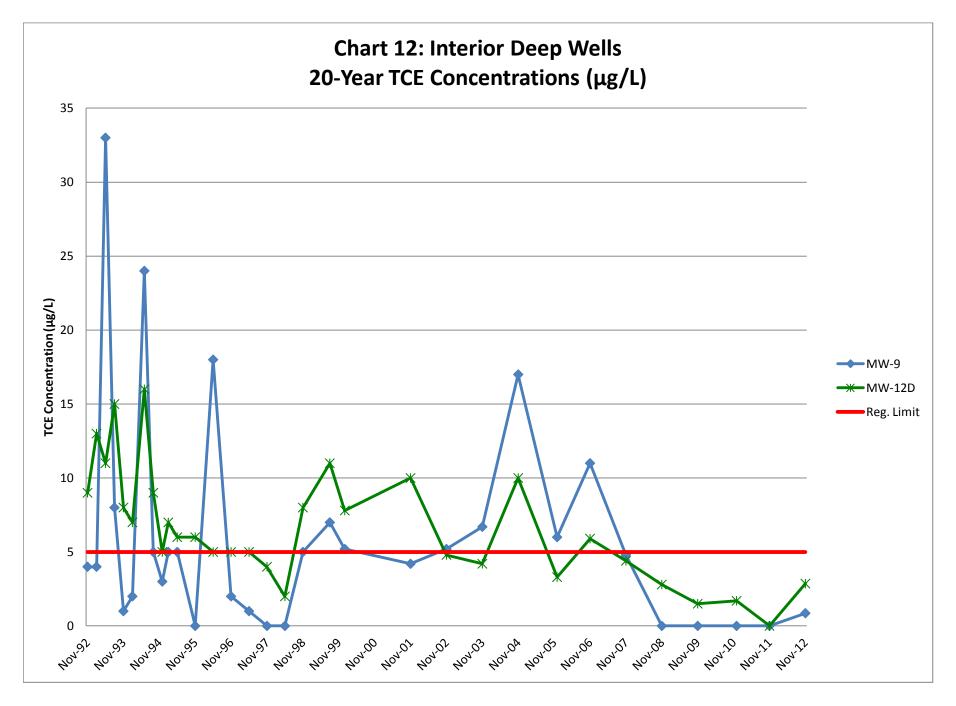




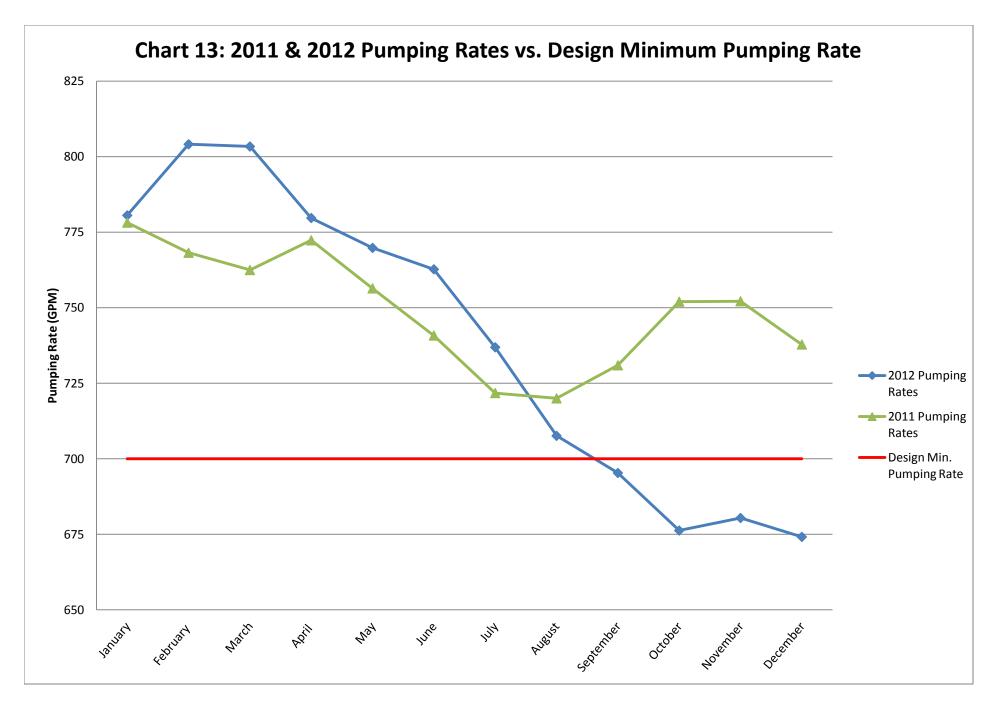




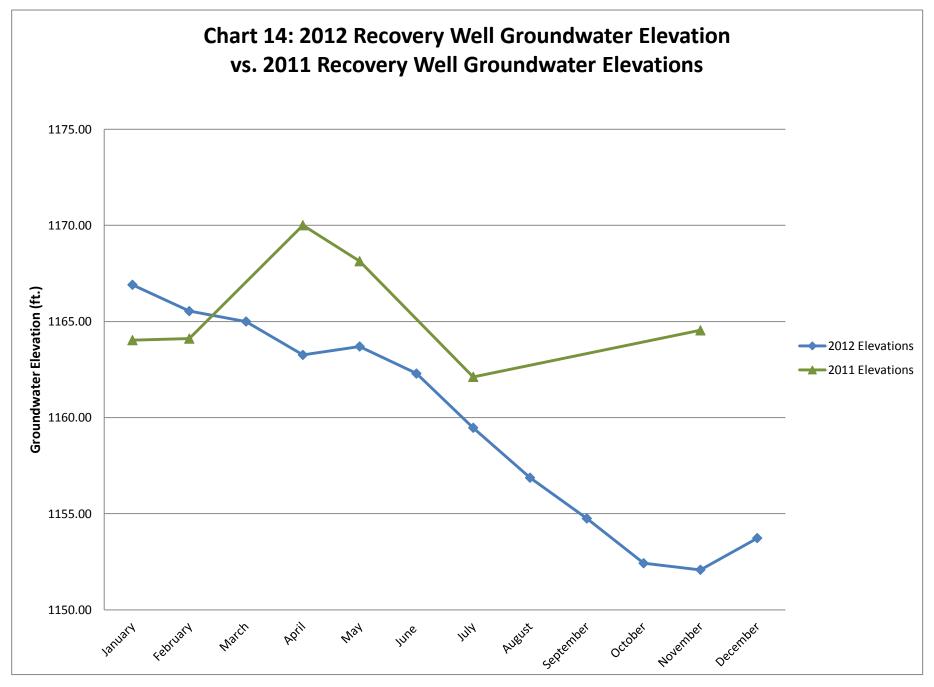














APPENDIX E ANALYTICAL RESULTS FROM 2012 ANNUAL SAMPLING EVENT



Thursday, December 06, 2012

Mr. Christopher Gabriel GeoLogic NY, Inc. 37 Copeland Ave. Homer, NY 13077

TEL: 607 749-5000

Project: 210087

RE: Analytical Results

Order No.: K1211246

Dear Mr. Christopher Gabriel:

Life Science Laboratories, Inc. received 17 sample(s) on 11/21/2012 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,

Life Science Laboratories, Inc.

Anthony Crescenzi

Project Manager

Life Science Laboratories, Inc.

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-001A

Project:

210087

Client Sample ID: MW-1S

W Order:

K1211246

Collection Date:

11/19/12 16:00

Matrix:

WATER

Date Received: PrepDate:

11/21/12 13:40

Inst. ID:

MS01 11

R24877

Revision:

ColumnID: Rtx-VMS 12/04/12 13:07 %Moisture: 8260W TestCode:

Sample Size 10 mL

BatchNo: FileID:

1-SAMP-T4730.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					В	
1.1.1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 13:14
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 13:14
cis-1,2-Dichloroethene	0.13 J	0.50	0.10	μg/L	1	11/29/12 13:14
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 13:14
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 13:14
Trichloroethene	5.46	0.50	0.10	μg/L	1	11/29/12 13:14
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/29/12 13:14
Surr: 1.2-Dichloroethane-d4	113	75-130	0.16	%REC	1	11/29/12 13:14
Surr: Toluene-d8	105	75-125	0.10	%REC	1	11/29/12 13:14
Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1	11/29/12 13:14

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623933

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-002A

Project:

210087

Client Sample ID: MW-1D

W Order:

Collection Date:

11/19/12 16:15

Matrix:

K1211246

Date Received:

11/21/12 13:40

WATER

PrepDate:

Inst. ID:

MS01 11 ColumnID: Rtx-VMS Sample Size 10 mL %Moisture:

BatchNo:

R24877

Revision:

12/04/12 13:07

TestCode: 8260W

FileID:

1-SAMP-T4733.D

Col Type:

nits W8260E	DF 3	Date Analyzed
	3	
//		
g/L	1	11/29/12 14:49
REC	1	11/29/12 14:49
REC	1	11/29/12 14:49
	1	11/29/12 14:49
	g/L g/L g/L g/L g/L g/L sREC sREC	g/L 1 sREC 1 sREC 1

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

roject Supervisor: Greg I. Smith 623934 **Print Date:** 12/05/12 8:25

Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057

Analytical Results

StateCertNo: 10248 (315) 445-1900

CLIENT GeoLogic NY, Inc.

Project: 210087

W Order: K1211246 WATER Matrix:

MS01 11 Inst. ID: ColumnID: Rtx-VMS

Col Type:

Revision:

12/04/12 13:07

Sample Size 10 mL

%Moisture: TestCode: 8260W

K1211246-003A Lab ID:

Client Sample ID: MW-2S

Collection Date: 11/20/12 10:05 11/21/12 13:40 **Date Received:**

PrepDate:

BatchNo:

R24877

FileID:

1-SAMP-T4734.D

- · · · · · · · · · · · · · · · · · · ·						
Analyte	Result Qı	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	IDS BY GC/MS			SW826	0B	
1.1.1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 15:20
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 15:20
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:20
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:20
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:20
Trichloroethene	1.66	0.50	0.10	μg/L	1	11/29/12 15:20
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/29/12 15:20
Surr: 1,2-Dichloroethane-d4	108	75-130	0.16	%REC	1	11/29/12 15:20
Surr: Toluene-d8	107	75-125	0.10	%REC	1	11/29/12 15:20
Surr: 4-Bromofluorobenzene	107	75-125	0.10	%REC	1	11/29/12 15:20

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

roject Supervisor: Greg I. Smith Print Date: 12/05/12 8:25 623935

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT GeoLogic NY, Inc.

210087

W Order: K1211246 Matrix:

Project:

WATER

MS01 11 Inst. ID:

ColumnID: Rtx-VMS **Revision:**

12/04/12 13:07

Sample Size 10 mL %Moisture:

TestCode: 8260W

Lab ID:

K1211246-004A

Client Sample ID: MW-4S

Collection Date: Date Received:

11/20/12 11:00

11/21/12 13:40

PrepDate:

BatchNo:

R24877

FileID:

1-SAMP-T4735.D

Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					В	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 15:52
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 15:52
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	. 1	11/29/12 15:52
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:52
trans-1.2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:52
Trichloroethene	0.61	0.50	0.10	μg/L	1	11/29/12 15:52
Vinyl chloride	ND	1,00	0.33	μg/L	1	11/29/12 15:52
Surr: 1,2-Dichloroethane-d4	109	75-130	0.16	%REC	1	11/29/12 15:52
Surr: Toluene-d8	108	75-125	0.10	%REC	1	11/29/12 15:52
Surr: 4-Bromofluorobenzene	105	75-125	0.10	%REC	1	11/29/12 15:52

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

623936 **Print Date:** 12/05/12 8:25

Life Science Laboratories, Inc.

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-005A

Project:

210087

Client Sample ID: MW-4D

W Order:

K1211246

Collection Date:

11/20/12 11:05

Matrix:

WATER

Date Received: PrepDate:

11/21/12 13:40

Inst. ID:

MS01 11

Sample Size 10 mL

ColumnID: Rtx-VMS

%Moisture:

BatchNo:

R24877

Revision:

12/04/12 13:07

TestCode: 8260W

FileID:

1-SAMP-T4736.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					ов	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 16:23
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 16:23
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:23
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:23
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:23
Trichloroethene	0.46 J	0.50	0.10	μg/L	1	11/29/12 16:23
	ND	1.00	0.33	μg/L	1	11/29/12 16:23
Vinyl chloride	109	75-130	0.16	%REC	1	11/29/12 16:23
Surr: 1,2-Dichloroethane-d4	108	75-125	0.10	%REC	1	11/29/12 16:23
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	105	75-125 75-125	0.10	%REC	1	11/29/12 16:23

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
 - Spike Recovery outside accepted recovery limits

623937 **Print Date: 12/05/12 8:25**

Life Science Laboratories, Inc.

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-006A

Project:

210087

Client Sample ID: MW-5S

W Order:

K1211246

Matrix:

Collection Date:

11/19/12 15:00

WATER

Date Received:

11/21/12 13:40

Inst. ID:

MS01 11

PrepDate: Sample Size 10 mL

R24877

ColumnID: Rtx-VMS **Revision:**

12/04/12 13:07

%Moisture: TestCode: 8260W BatchNo: FileID:

1-SAMP-T4737.D

Col Type:

-JP-		···				
Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	IDS BY GC/MS			SW826	0B	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 16:54
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 16:54
.,. = .	ND	0.50	0.10	μg/L	1	11/29/12 16:54
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:54
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:54
trans-1,2-Dichloroethene	0.72	0.50	0.10	μg/L	1	11/29/12 16:54
Trichloroethene			0.33	μg/L	1	11/29/12 16:54
Vinyl chloride	ND	1.00		%REC	1	11/29/12 16:54
Surr: 1,2-Dichloroethane-d4	109	75-130	0.16	*	1	
Surr: Toluene-d8	108	75-125	0.10	%REC	1	11/29/12 16:54
Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1	11/29/12 16:54

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623938

Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057

Analytical Results

StateCertNo: 10248

CLIENT

(315) 445-1900

Lab ID:

K1211246-007A

Project:

GeoLogic NY, Inc.

Client Sample ID: MW-5D

210087

W Order:

K1211246

Collection Date:

11/19/12 15:10

Matrix:

WATER

Date Received: PrepDate:

11/21/12 13:40

Inst. ID:

MS01 11

Sample Size 10 mL %Moisture:

BatchNo:

R24877

Revision:

ColumnID: Rtx-VMS 12/04/12 13:07

TestCode: 8260W FileID:

1-SAMP-T4738.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	SW8260	В				
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 17:26
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 17:26
cis-1.2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 17:26
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 17:26
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 17:26
Trichloroethene	1.62	0.50	0.10	μg/L	1	11/29/12 17:26
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/29/12 17:26
Surr: 1,2-Dichloroethane-d4	112	75-130	0.16	%REC	1	11/29/12 17:26
Surr: Toluene-d8	107	75-125	0.10	%REC	1	11/29/12 17:26
Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1	11/29/12 17:26

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623939

Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT GeoLogic NY, Inc.

210087 Project:

W Order: K1211246 Matrix: WATER

MS01 11 Inst. ID:

Col Type:

ColumnID: Rtx-VMS **Revision:**

12/04/12 13:07

Sample Size 10 mL %Moisture:

TestCode: 8260W

Lab ID:

K1211246-008A

Client Sample ID: MW-7

Collection Date: 11/20/12 13:50 **Date Received:**

11/21/12 13:40

PrepDate:

BatchNo:

R24877

FileID:

1-SAMP-T4739.D

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					В	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 17:57
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 17:57
cis-1,2-Dichloroethene	0.10 J	0.50	0.10	μg/L	1	11/29/12 17:57
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 17:57
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 17:57
Trichloroethene	2.14	0.50	0.10	μg/L	1	11/29/12 17:57
Vinyl chloride	ND.	1.00	0.33	μg/L	1	11/29/12 17:57
Surr: 1,2-Dichloroethane-d4	113	75-130	0.16	%REC	1	11/29/12 17:57
Surr: Toluene-d8	106	75-125	0.10	%REC	1	11/29/12 17:57
Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1	11/29/12 17:57

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

roject Supervisor: Greg I. Smith 623940 **Print Date:** 12/05/12 8:25

LSL

Life Science Laboratories, Inc.

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT Project:

GeoLogic NY, Inc.

210087

W Order:

K1211246

Matrix: Inst. ID:

Col Type:

WATER MS01 11

ColumnID: Rtx-VMS

Revision: 12/04/12 13:07

Sample Size 10 mL %Moisture:

TestCode: 8260W

Lab ID:

K1211246-009A

Client Sample ID: MW-8

Collection Date:

11/20/12 14:30

Date Received:

11/21/12 13:40

PrepDate:

BatchNo:

R24877

FileID:

1-SAMP-T4740.D

Date Analyzed Units DF **MDL** Result Qual PQL Analyte SW8260B **VOLATILE ORGANIC COMPOUNDS BY GC/MS** 11/29/12 18:29 µg/L 0.50 0.10 1,1,1-Trichloroethane 11/29/12 18:29 0.16 µg/L 1 0.50 ND 1,1-Dichloroethene 11/29/12 18:29 1 ND 0.50 0.10 µg/L cis-1,2-Dichloroethene 11/29/12 18:29 0.10 µg/L ND 0.50 Tetrachloroethene 11/29/12 18:29 1 0.10 μg/L ND 0.50 trans-1.2-Dichloroethene 11/29/12 18:29 0.10 µg/L 1.01 0.50 Trichloroethene 11/29/12 18:29 1 µg/L ND 1.00 0.33 Vinyl chloride 11/29/12 18:29 %REC 1 0.16 114 75-130 Surr: 1,2-Dichloroethane-d4 11/29/12 18:29 %REC 1 106 75-125 0.10 Surr: Toluene-d8 0.10 %REC 11/29/12 18:29 75-125 105 Surr: 4-Bromofluorobenzene

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623941

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-010A

Project:

210087

Client Sample ID: MW-9

W Order:

11/20/12 13:30

K1211246

Collection Date: Date Received:

Matrix:

WATER

PrepDate:

11/21/12 13:40

Inst. ID:

MS01 11

Sample Size 10 mL %Moisture:

BatchNo:

R24877

Revision:

ColumnID: Rtx-VMS 12/04/12 13:07

TestCode: 8260W

FileID:

1-SAMP-T4741.D

Col Type:

Analyte	Result Qı	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					DB .	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 19:00
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 19:00
cis-1.2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 19:00
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 19:00
trans-1.2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 19:00
Trichloroethene	0.86	0.50	0.10	μg/L	1	11/29/12 19:00
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/29/12 19:00
Surr: 1.2-Dichloroethane-d4	114	75-130	0.16	%REC	1	11/29/12 19:00
Surr: Toluene-d8	106	75-125	0.10	%REC	1	11/29/12 19:00
Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1	11/29/12 19:00

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623942

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-011A

Project:

210087

Client Sample ID: MW-10S

W Order:

K1211246

Collection Date:

11/19/12 16:55

Matrix:

WATER

Date Received:

11/21/12 13:40

Inst. ID:

MS01 11

PrepDate: Sample Size 10 mL BatchNo:

R24877

Revision:

ColumnID: Rtx-VMS 12/04/12 13:07 %Moisture: TestCode: 8260W

FileID:

1-SAMP-T4742.D

Col Type:

Cor Type.						
Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	BY GC/MS			SW8260	В	
1.1.1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 19:32
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 19:32
cis-1,2-Dichloroethene	0.27 J	0.50	0.10	μg/L	1	11/29/12 19:32
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 19:32
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 19:32
Trichloroethene	6.56	0.50	0.10	μg/L	1	11/29/12 19:32
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/29/12 19:32
Surr: 1,2-Dichloroethane-d4	115	75-130	0.16	%REC	1	11/29/12 19:32
Surr: Toluene-d8	106	75-125	0.10	%REC	1	11/29/12 19:32
Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1	11/29/12 19:32

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
 - Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623943

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-012A

Project:

210087

Client Sample ID: MW-10D

W Order:

K1211246

11/19/12 17:05

Matrix:

WATER

Collection Date: Date Received:

11/21/12 13:40

Inst. ID:

MS01 11

PrepDate:

R24877

ColumnID: Rtx-VMS

%Moisture:

BatchNo:

Revision:

12/04/12 13:07

8260W TestCode:

Sample Size 10 mL

FileID:

1-SAMP-T4743.D

Col Type:

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN		SW8260				
1.1.1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 20:03
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 20:03
cis-1,2-Dichloroethene	0.26 J	0.50	0.10	μg/L	1	11/29/12 20:03
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 20:03
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 20:03
Trichloroethene	9.49	0.50	0.10	μg/L	1	11/29/12 20:03
Vinyl chloride	ND	1.00	0.33	µg/L	1	11/29/12 20:03
Surr: 1,2-Dichloroethane-d4	117	75-130	0.16	%REC	1	11/29/12 20:03
Surr: Toluene-d8	107	75-125	0.10	%REC	1	11/29/12 20:03
Surr: 1 oluene-do Surr: 4-Bromofluorobenzene	104	75-125 75-125	0.10	%REC	1	11/29/12 20:03

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

roject Supervisor: Greg I. Smith Print Date: 12/05/12 8:25 623944

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-013A

Project:

210087

Client Sample ID: MW-12S

W Order:

K1211246

Collection Date:

11/20/12 12:00

Matrix:

WATER

Date Received: PrepDate:

11/21/12 13:40

Inst. ID:

MS01 11

Sample Size 10 mL

R24877

ColumnID: Rtx-VMS 12/04/12 13:07 %Moisture:

BatchNo:

Revision: Col Type: TestCode: 8260W

FileID:

1-SAMP-T4744.D

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	SW826	ов				
1.1.1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 20:35
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 20:35
cis-1,2-Dichloroethene	0.18 J	0.50	0.10	μg/L	1	11/29/12 20:35
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 20:35
trans-1.2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 20:35
Trichloroethene	5.60	0.50	0.10	µg/L	1	11/29/12 20:35
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/29/12 20:35
Surr: 1.2-Dichloroethane-d4	119	75-130	0.16	%REC	1	11/29/12 20:35
	106	75-125	0.10	%REC	1	11/29/12 20:35
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1	11/29/12 20:35

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623945

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-014A

Project:

210087

Client Sample ID: MW-12D

W Order:

K1211246

Collection Date:

11/20/12 12:10

Matrix:

WATER

Date Received: PrepDate:

11/21/12 13:40

Inst. ID:

MSK 75

R24875

Revision:

ColumnID: Rtx-VMS 12/04/12 12:01

%Moisture: TestCode: 8260W

Sample Size 10 mL

BatchNo: FileID:

1-SAMP-K1559.D

Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN		SW8260B				
1.1.1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 15:18
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 15:18
cis-1.2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:18
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:18
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:18
Trichloroethene	2.86	0.50	0.10	μg/L	1	11/29/12 15:18
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/29/12 15:18
Surr: 1,2-Dichloroethane-d4	105	75-130	0.16	%REC	1	11/29/12 15:18
Surr: Toluene-d8	100	75-125	0.10	%REC	1	11/29/12 15:18
Surr: 4-Bromofluorobenzene	101	75-125	0.10	%REC	1	11/29/12 15:18

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623903

Analytical Results

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1211246-015A

Project:

Client Sample ID: MW-L16

W Order:

210087

11/20/12 15:40

K1211246

Collection Date:

Matrix:

WATER

Date Received:

11/21/12 13:40

Inst. ID:

MSK 75

Sample Size 10 mL %Moisture:

PrepDate: BatchNo:

R24875

Revision:

ColumnID: Rtx-VMS 12/04/12 12:01

TestCode: 8260W

FileID:

1-SAMP-K1560.D

Col Type:

	D 14 O	-L DOI	MDL	Units	DF	Date Analyzed
Analyte	Result Qu	Result Qual PQL		Units	Dr	Date Analyzeu
VOLATILE ORGANIC COMPOUND		SW8260B				
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 15:51
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 15:51
cis-1,2-Dichloroethene	ND	0.50	0.10	µg/L	1	11/29/12 15:51
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 15:51
trans-1.2-Dichloroethene	ND	0.50	0.10	µg/L	1	11/29/12 15:51
Trichloroethene	1.95	0.50	0.10	μg/L	1	11/29/12 15:51
Vinyl chloride	ND	1.00	0.33	µg/L	1	11/29/12 15:51
Surr: 1,2-Dichloroethane-d4	108	75-130	0.16	%REC	1	11/29/12 15:51
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/29/12 15:51
Surr: 4-Bromofluorobenzene	102	75-125	0.10	%REC	1	11/29/12 15:51

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/05/12 8:25

623904

Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057

Analytical Results

StateCertNo: 10248

CLIENT

(315) 445-1900

Project:

GeoLogic NY, Inc.

Lab ID: Client Sample ID: Trip Blank

K1211246-016A

210087

11/20/12 0:00

W Order:

K1211246

Collection Date: Date Received:

Matrix:

WATER Q

PrepDate:

11/21/12 13:40

Inst. ID:

MS01 11

Sample Size 10 mL %Moisture:

BatchNo:

R24877

Revision:

ColumnID: Rtx-VMS 12/04/12 13:07

TestCode: 8260W

FileID:

1-SAMP-T4745.D

Col Type:

Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed	
BY GC/MS		SW8260B				
ND	0.50	0.10	μg/L	1	11/29/12 21:06	
ND	0.50	0.16	μg/L	1	11/29/12 21:06	
ND	0.50	0.10	μg/L	1	11/29/12 21:06	
•	0.50	0.10	μg/L	1	11/29/12 21:06	
		0.10	μg/L	1	11/29/12 21:06	
		0.10	µg/L	1	11/29/12 21:06	
		0.33	-	1	11/29/12 21:06	
			%REC	1	11/29/12 21:06	
				1	11/29/12 21:06	
106	75-125 75-125	0.10	%REC	1	11/29/12 21:06	
	BY GC/MS ND ND ND ND ND ND ND 117 106	ND 0.50 ND 0.50 ND 0.50 ND 0.50 ND 0.50 ND 0.50 ND 1.00 117 75-130 106 75-125	BY GC/MS ND 0.50 0.10 ND 0.50 0.16 ND 0.50 0.10 ND 1.00 0.33 117 75-130 0.16 106 75-125 0.10	SW826 BY GC/MS SW826 ND 0.50 0.10 μg/L ND 1.00 0.33 μg/L 117 75-130 0.16 %REC 106 75-125 0.10 %REC	NC GC/MS SW8260B ND 0.50 0.10 μg/L 1 ND 0.50 0.16 μg/L 1 ND 0.50 0.10 μg/L 1 ND 0.50 0.10 μg/L 1 ND 0.50 0.10 μg/L 1 ND 1.00 0.33 μg/L 1 117 75-130 0.16 %REC 1 106 75-125 0.10 %REC 1	

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

roject Supervisor: Greg I. Smith Print Date: 12/05/12 8:35 623946

Life Science Laboratories, Inc. LSL 5854 Butternut Drive East Syracuse, NY 13057

Analytical Results

StateCertNo: 10248

CLIENT GeoLogic NY, Inc.

Project: 210087

W Order: K1211246

Matrix: **EQUIPMENT BLANK**

Inst. ID: MSK 75

ColumnID: Rtx-VMS **Revision:**

12/05/12 8:30

Sample Size 10 mL %Moisture:

TestCode: 8260W

(315) 445-1900

K1211246-017A Lab ID: Client Sample ID: Equipment Blank

11/20/12 16:45 **Collection Date: Date Received:** 11/21/12 13:40

PrepDate:

BatchNo: R24875

1-SAMP-K1561.D FileID:

Col Type:

Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN		SW826	0B			
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	11/29/12 16:21
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	11/29/12 16:21
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:21
Tetrachloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:21
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:21
Trichloroethene	ND	0.50	0.10	μg/L	1	11/29/12 16:21
Vinyl chloride	ND	1.00	0.33	μg/L	1	11/29/12 16:21
Surr: 1,2-Dichloroethane-d4	107	75-130	0.16	%REC	1	11/29/12 16:21
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/29/12 16:21
Surr: 4-Bromofluorobenzene	98	75-125	0.10	%REC	1	11/29/12 16:21

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

roject Supervisor: Greg I. Smith Print Date: 12/05/12 8:35 623905

K1211246

GeoLogic NY, Inc. CHAIN OF CUSTODY RECORD

CLIENT: GeoLogic

PROJECT: 210087

SAMPLERS NAME(S):

C. T. Gabriel

SAMPLE LOCATION	N DATE	TIME	S	AMPLE TYP	PE	NO. of SAMPLES		ALYSIS MUIRED
			WATER	SOIL	AIR			
001 MW-1S	11-19	16:00	x	2			See	Below
MW-1D	11-19	16:15	x			2	See	Below
മദ്ദ MW-2S	11-20	10:05	х			2	See	Below
oou MW-4S	11-20	11:00	х			2	See	Below
ൗട്ട MW-4D	11-20	11:05	х			2	See	Below
₅₀₆ MW-5S	11-19	15:00	х	2		See	Below	
סטן MW-5D	11-19	15:10	х	2		See	Below	
00'8 MW-7	11-20	13:50	Х	2		See	Below	
୦୯ MW-8	11-20	14:30	X			2	See Below	
010 MW-9	11-20	13:30	х			2	See	Below
Relinquished	by:	Date	Time		Received by	y;	Date	Time
C-T-Gala	e(11-20	16,50	Samo	de Fri	dgc	11-20	16150
Relinquished	-	Date	Time	1	Received by	1:7/	Date	Time
Sample Fr	Sample Fridge.			T a	ulfor		11-21-12	945
Relinquished	Date	Time	Red	ceived for La	b by:	Date	Time	
Danl Inl	11-21-12	945	a	75mg		11-26-12	13:40	
Method of Shipment:	LAB PICK-L	JP	Т	EMP	5.0	cnIa		

COMMENTS:

Sample Analysis (1 ug/L reporting limit)

EPA 8260B for

- 1,1,1-Trichloroethane
- 1,1-Dichloroethene
- 1,2-Dichloroethene

Trichloroethene

Tetrachloroethene

Vinyl Chloride

K1211246

GeoLogic NY, Inc. CHAIN OF CUSTODY RECORD

CLIENT: GeoLogic

PROJECT: 210087

SAMPLERS NAWE(S):

C. T. Gabriel

SAMPLE LOCATION	DATE	TIME	SA	MPLE TYF	PE	NO. of SAMPLES		ALYSIS DUIRED	
			WATER	SOIL	AIR				
Git MW-10S	11-19	16:55	Х			2	See Below		
οιλ MW-10D	11-19	17:05	X			2	See	Below	
ران MW-12S	11-20	12:00	х		2		See	Below	
oly MW-12D	11-20	12:10	х			2	See	Below	
در MW-L16	11-20	15:40	х			2	See	Below	
رز (Trip Blank	11-20		х		2		See	Below	
Equipment Blank 11-20		16:45	х	2		2	See	Below	
Relinquished by:		Date	Time		Received b	y:	Date	Time	
C.T. Gabriel		11-20	16:50	San	ple F	ridge	11-70	16150	
Relinquished by:		Date	Time		Received b	y: //	Date	Time	
Sample Frida	^و د	16-21	09:45	7	and f	rille	11-21-12	9:45	
Relinquished by:		Date	Time	Red	ceived for La		Date	Time	
J'au ball		11-21-12	945	9	5 50mg		11-21-12	13:40	
Method of Shipment:	B PICK-L	IP X	Т	EMP		onTa	b	***************************************	

COMMENTS:

Sample Analysis (1 ug/L reporting limit)

EPA 8260B for

1,1,1-Trichloroethane

1,1-Dichloroethene

1,2-Dichloroethene

Trichloroethene

Tetrachloroethene

Vinyl Chloride

Sample Receipt Checklist

Client Name: GEOLOGIC		Date and Time Received:	11/21/2012 1:40:00 PM
Work Order Number: K1211246		Received by: gis	
Checklist completed by: Initials	//-2/-/2 Date	Reviewed by: Initials	7/-26-/2_ Date
Delivery I	Method: <u>Courier</u>		
Shipping container/cooler in good condition?	Yes 🗸	No Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗌	No Not Present	✓
Custody seals intact on sample bottles?	Yes	No Not Applicable	✓
Chain of custody present?	Yes · 🗸	No 🗆	
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗆	
Chain of custody agrees with sample labels?	Yes 🗸	No	
Samples in proper container/bottle?	Yes 🗸	No 🗆	
Sample containers intact?	Yes 🗸	No 🗆	
Sufficient sample volume for indicated test?	Yes 🗸	No 🗆	
All samples received within holding time?	Yes 🗸	No 🗆	
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌	
Water - VOA vials have zero headspace?	Yes 🗸	No OA vials sub	mitted .
Water - pH acceptable upon receipt?	Yes	No Not Applicable	✓

Comments:

Corrective Action:



Wednesday, December 26, 2012

Mr. Christopher Gabriel GeoLogic NY, Inc. 37 Copeland Ave. Homer, NY 13077

TEL: 607 749-5000

Project: 210087

RE: Analytical Results

Order No.: K1212130

Dear Mr. Christopher Gabriel:

Life Science Laboratories, Inc. received 3 sample(s) on 12/11/2012 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,

Life Science Laboratories, Inc.

Anthony Crescenzi

Project Manager

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1212130-001A

Project:

210087

Client Sample ID: MW-6

W Order:

K1212130

Collection Date:

12/07/12 11:15

Matrix:

WATER

Date Received:

Inst. ID:

MS01 11

12/11/12 17:00

Sample Size 10 mL %Moisture:

PrepDate: BatchNo:

R24961

Revision:

ColumnID: Rtx-VMS 12/17/12 9:44

TestCode: 8260W

FileID:

1-SAMP-T4948.D

Col Type:

Analyte	Result Qu	Result Qual PQL		Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	IDS BY GC/MS	***		SW826	0B	
1.1.1-Trichloroethane	ND	0.50	0.10	μg/L	1	12/13/12 15:46
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	12/13/12 15:46
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/13/12 15:46
Tetrachloroethene	ND	0.50	0.10	μg/L	1	12/13/12 15:46
trans-1.2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/13/12 15:46
Trichloroethene	2.29	0.50	0.10	μg/L	1	12/13/12 15:46
Vinvl chloride	ND	1.00	0.33	μg/L	1	12/13/12 15:46
Surr: 1.2-Dichloroethane-d4	112	75-130	0.16	%REC	1	12/13/12 15:46
Surr: Toluene-d8	109	75-125	0.10	%REC	1	12/13/12 15:46
Surr: 4-Bromofluorobenzene	105	75-125	0.10	%REC	1	12/13/12 15:46

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
 - Spike Recovery outside accepted recovery limits

Print Date: 12/17/12 9:45

625301

roject Supervisor: Anthony Crescenzi

Analytical Results

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT Project:

GeoLogic NY, Inc.

210087

W Order: Matrix:

Revision:

Col Type:

K1212130 WATER

Inst. ID:

MS01 11

ColumnID: Rtx-VMS

12/17/12 9:44

Sample Size 10 mL

%Moisture: TestCode: 8260W Lab ID:

K1212130-002A

Client Sample ID: MW-11

Collection Date:

12/07/12 12:00

Date Received:

12/11/12 17:00

PrepDate:

FileID:

BatchNo:

R24961

1-SAMP-T4949.D

Analyte	Result Q	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	NDS BY GC/MS			SW8260)B	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	12/13/12 16:18
1.1-Dichloroethene	ND	0.50	0.16	μg/L	1	12/13/12 16:18
cis-1.2-Dichloroethene	0.96	0.50	0.10	μg/L	1	12/13/12 16:18
Tetrachloroethene	ND	0.50	0.10	μg/L	1	12/13/12 16:18
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/13/12 16:18
Trichloroethene	4.32	0.50	0.10	μg/L	1	12/13/12 16:18
Vinyl chloride	ND	1.00	0.33	μg/L	1	12/13/12 16:18
Surr: 1.2-Dichloroethane-d4	113	75-130	0.16	%REC	1	12/13/12 16:18
Surr: Toluene-d8	107	75-125	0.10	%REC	1	12/13/12 16:18
Surr: 4-Bromofluorobenzene	111	75-125	0.10	%REC	1	12/13/12 16:18

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

roject Supervisor: Anthony Crescenzi 625302 **Print Date: 12/17/12 9:45**

Analytical Results

LSL 5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

GeoLogic NY, Inc.

Lab ID:

K1212130-016A

Project:

210087

Client Sample ID: Trip Blank

W Order:

K1212130

Collection Date:

08/29/12 0:00

Matrix:

WATER Q

Date Received: PrepDate:

12/11/12 17:00

Inst. ID:

MS01 11

R24961

ColumnID: Rtx-VMS

12/17/12 9:44

%Moisture: TestCode: 8260W

Sample Size 10 mL

BatchNo: FileID:

1-SAMP-T4960.D

Revision: Col Type:

V X						
Analyte	Result Qu	ıal PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUN	NDS BY GC/MS			SW826	0B	
1,1,1-Trichloroethane	ND	0.50	0.10	μg/L	1	12/13/12 22:03
1,1-Dichloroethene	ND	0.50	0.16	μg/L	1	12/13/12 22:03
cis-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/13/12 22:03
Tetrachloroethene	ND	0.50	0.10	μg/L	1	12/13/12 22:03
trans-1,2-Dichloroethene	ND	0.50	0.10	μg/L	1	12/13/12 22:03
Trichloroethene	ND	0.50	0.10	μg/L	1	12/13/12 22:03
Vinyl chloride	ND	1.00	0.33	μg/L	1	12/13/12 22:03
Surr: 1,2-Dichloroethane-d4	115	75-130	0.16	%REC	1	12/13/12 22:03
Surr: Toluene-d8	108	75-125	0.10	%REC	1	12/13/12 22:03
Surr: 4-Bromofluorobenzene	103	75-125	0.10	%REC	1	12/13/12 22:03

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 12/17/12 9:54

625303

roject Supervisor: Anthony Crescenzi

GeoLogic NY, Inc. CHAIN OF CUSTODY RECORD

CLIENT: GeoLogic

SAMPLERS NAME(S):

PROJECT: 210087

C. T. Gabriel

SAMPLE LOCATION	DATE	TIME	S	AMPLE TYP	E	NO. of	1	ALYSIS LUIRED	
			WATER	SOIL	AIR				
MW-6	MW-6 12-7					2 See E		Below	
MW-11	MW-11 12-7			2				"	
Trip Blank		х	;		2		ш		
	<u> </u>								
Relinquished by:	,	Date	Time		Received by	/·	Date	Time	
/ Soid				Sa myd	E Frid	12-7-2-12	13:00		
Relinquished by:		Date	Time	Received by:			Date	Time	
Sample Fridge	<u></u>	12-16-12	09:01	Bell Dorallson			12-11-12	910	
Relinquished by:		Date	Time	Received for Lab by:			Date	Time	
Bell Otraldun		12-11-12		(3)	2		12-11-12	17:00	
Method of Shipment:	AND DEL	IVERED .	X	TEMP					
By U	rife Sc	rence las	in for u	T.,				_	
COMMENTS:	<u> </u>		· · · · · · · · · · · · · · · · · · ·	. / / (,			·		
Sample Analysis (1 ug/L reporti	ng limit)								
EPA 8260B for								1	
1,1,1-Trichloroethane									
1,1-Dichloroethene									
1,2-Dichloroethene									
Trichloroethene									
Tetrachloroethene								, and the second	
Vinyl Chloride									

Sample Receipt Checklist

Client Name: GEOLOGIC	Date and Time Received: 12/11/2012 5:00:00 PM						
Work Order Number: K1212130		Received by: gis					
Checklist completed by: (S	12-11- † 2 Date	Reviewed by: At 12 - 12 - 12 Initials Date					
Delivery M	Method: <u>Courier</u>						
Shipping container/cooler in good condition?	Yes 🗸	No Not Present					
Custody seals intact on shipping container/cooler?	Yes	No ☐ Not Present ✓					
Custody seals intact on sample bottles?	Yes	No ☐ Not Applicable ✓					
Chain of custody present?	Yes 🗸	No 🗌					
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗆					
Chain of custody agrees with sample labels?	Yes 🗹	No 🗆					
Samples in proper container/bottle?	Yes 🗸	No 🗔					
Sample containers intact?	Yes 🗸	No 🗆					
Sufficient sample volume for indicated test?	Yes 🗸	No 🗆					
All samples received within holding time?	Yes 🗸	No 🗆					
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗔					
Water - VOA vials have zero headspace?	Yes 🗸	No No VOA vials submitted					
Water - pH acceptable upon receipt?	Yes	No ☐ Not Applicable ☑					

Comments:

Corrective Action:

APPENDIX F

SSD/SVE DATA



6500 Joy Road * E. Syracuse, NY 13057 *Phone (315) 701-0425 * Fax (315) 218-5624

Forrest Earl GeoLogic, NY Inc. PO Box 350 Homer, NY 13077

RE: Cortland

Tuesday, December 11, 2012

Order No.: E1211003

Dear Forrest Earl:

Enalytic,LLC received 1 sample(s) on 11/27/2012 for the analyses presented in the following report.

All analytical results relate to the samples as received by the laboratory.

All analytical data conforms with standard approved methodologies and quality control unless specified in the report.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately two weeks from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely.

Kris Perrotti

Technical Director

Confidentiality Statement: This report is meant for the use of the intended recipient. It may contain confidential information, which is legally privileged or otherwise protected by law. If you have received this report in error, you are strictly prohibited from reviewing, using, disseminating, distributing or copying the information.

Enalytic,LLC

Analytical Report

CLIENT: GeoLogic, NY Inc.

Location: Cortland **Project:** 210087

Lab ID E1211003-001A

Date 11-Dec-12

Client Sample ID: SVE/SSD

Collection Date: 11/27/2012 9:41:00 A

Tag # 322

Matrix SOIL VAPOR

TO-15_1	JG/M3	Dilution	Date	ppbV			Data	ug/m3	
CAS#	Target Compound List	Factor	Analyzed	LOD	LOQ	Result	Qualifiers	LOQ	Result
71-55-6	1,1,1-Trichloroethane	1	06-Dec-12	0.1	0.20	2.9		1.1	16
75-35-4	1,1-Dichloroethene	1	06-Dec-12	0.1	0.20	ND		0.81	ND
156-59-2	cis-1,2-Dichloroethene	1	06-Dec-12	0.1	0.20	43		0.81	180
127-18-4	Tetrachloroethene	1	06-Dec-12	0.1	0.20	3.1		1.4	21
156-60-5	trans-1,2-Dichloroethene	1	06-Dec-12	0.1	0.20	0.38		0.81	1.5
79-01-6	Trichloroethene	9.85	10-Dec-12	0.99	2.0	590		11	3200
75-01-4	Vinyl chloride	1	06-Dec-12	0.1	0.20	0.23		0.52	0.60
	Surr: Bromofluorobenzene	9.85	10-Dec-12	0	65-135	91.8		0	0
	Surr: Bromofluorobenzene	1	06-Dec-12	0	65-135	92.9		0	0

Qualifiers:

- (*) Certification not offered by NYS for this compound
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this analyte
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Approved By

Page 1 of 1

Date: 12/11/12

enal	vtic		Chain of C	hain of Custody Project Information:			Report D	Delivery	Detection	n Limit	Report Format	
1	•		Project Nam	ιο.			Fax		5.0 ppbv		Std 🔀	
Laborato 6500 Joy Rd, East Syr	•	13057	Project Location: Confland				Email	\boxtimes	1.0 ug/m3	\boxtimes	Level II	For Lab Use Only
Tel: 315-701-0425 F			Project Number: 210087				EDD	\bowtie	1.0 ug/m3+TCE 0.25		Cat A	Please Do Not
www.enalytic.com	ax. 313-210		PO Number:				Other		TIC's		Cat B	Write in Gray
	<u> </u>	***************************************	- Citamber				Turnaround Time Please Check One					Section
Client Information:				e Matrix (Codes							
Client: Geologic NY Jul			OA - Outdo		oues			10 Busines 5 Business				
Contact: Excest	Far (IA - Indoor					4 Business	•			
Address: 1.0. Box 3	Address: f.o. Box 350				_				•		Hustle charges	Lab
	Homer, NY 13077			ab <u>or</u> Soil 0	3as			3 Business	•		may apply for fast	Assigned
							ľ	2 Business	•		TATs.	Sample
								1 Business	-			ID
Email: Geological					F-			Same Day Date			Analysis	
Sample ID	*Sample Matrix	Canister #	Regulator #	Start Vac	Date Started	Start Time	Final Vac	Finished,	End Time	Vac at Lab	Requested	E1211003
SVE/SSD	OA	322	Not Applicate	7-30	11-27-12	0840	-6	11-27-12	0941	-1	Seeffaces	-0014
0017 331			Appl. God						COMMENTS:			2.22
									TO-15 for the	following	parameter only:	+ 10-
									1,1,1-Trichlo	roethane		
									1,1-Dichloroe	thene	_	
				-					-		citati	
			<u> </u>			ļ		1,2-Dichloroethene				
	-								Trichloroethe			5.40
				.,	<u> </u>	ļ			Tetrachloroet	hene	-	
								, l	Vinyl Chloride	3		
		Print Nan	ne		Signature		Date	Time			Affiliation or Courie	<u>er</u>
Sampled by:	C.T. G	ABRCE	7	-	x//		11-27-12	10:30		515 N	y Inc.	
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Relinquished by		LOPRE		Koh	Lefterk		1/27/1-	34700				
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