2011 Annual Operations Report

Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant
Bethpage, New York

Contract No. N40085-10-D-9409
Contract Task Order No. 0005

June 2012

Prepared for:

Naval Facilities Engineering Command Mid-Atlantic
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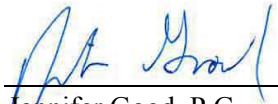
6/25/12

Patrick Schauble, P.E. — Date
Program Manager



6/25/12

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TABLE OF CONTENTS

1.0 Introduction....1
1.1 Site Location....1
1.2 Background....1
1.3 Project Overview and Objective....2
1.4 SVECS Overview....3
2.0 SVECS Operations and Maintenance....4
2.1 Routine Maintenance Activities....4
2.2 Non-Routine Maintenance / Site Activities....4
3.0 SVECS Monitoring....4
3.1 Monthly Air Quality Monitoring....5
3.1.1 Fourth Quarter 2011 Summary....5
3.1.2 2011 Annual Summary....5
3.2 Quarterly Air Quality Monitoring....5
3.2.1 Fourth Quarter 2011 Summary....6
3.2.2 2011 Annual Summary....6
3.2.3 Air Quality Concentration Trends....6
4.0 Conclusions and Recommendations....7
5.0 References....7

TABLES

TABLE 1 Monthly Vapor Analytical Results – October 2011
TABLE 2 Monthly Vapor Analytical Results – November 2011
TABLE 3 Monthly Vapor Analytical Results – December 2011
TABLE 4 2011 Air Emission and Mass Recovery Summary
TABLE 5 Quarterly Vapor Analytical Results – Fourth Quarter 2011
TABLE 6 Quarterly Vapor Analytical Results through Fourth Quarter 2011

FIGURES

FIGURE 1 Site Location Map
FIGURE 2 Site Area and Vicinity
FIGURE 3 Site Plan – Existing SVECS Layout
FIGURE 4 Process Flow Diagram
FIGURE 5 2011 Vapor Analytical Map – Select VOC Concentrations

APPENDICES

APPENDIX A NYSDEC Air Permit Equivalent Approval
APPENDIX B Laboratory Analytical Data
APPENDIX C Vapor Concentration Trend Graphs of Select VOCs

Acronyms and Abbreviations

bgs	below ground surface
CTO	Contract Task Order
DAR	Division of Air Resources
DoD	Department of Defense
ECOR	ECOR Federal Services, LLC.
ELAP	Environmental Laboratory Accreditation Program
FMS	Flow Monitoring Station
GOCO	Government Owned Contractor Operated
H&S	H&S Environmental, Inc.
i.w.	inches of water column
NAVFAC	Naval Facilities Engineering Command Mid-Atlantic
NELAC	National Environmental Accreditation Conference
NGC	Northrop Grumman Corporation
NWIRP	Naval Weapons Industrial Reserve Plant
NYSDEC	New York State Department of Environmental Conservation
NYDOH	New York Department of Health
O&M	Operation and Maintenance
PCB	polychlorinated biphenyls
PCE	tetrachloroethene
PID	photoionization detector
scfm	standard cubic feet per minute
SVECS	soil vapor extraction containment system
SVEW	soil vapor extraction well
SVOC	semi-volatile organic compound
TCA	trichloroethane
TCE	trichloroethene
TCL	target compound list
TtEC	Tetra Tech EC, Inc.
VGAC	vapor–phase granular activated carbon
VOC	volatile organic compound

1.0 INTRODUCTION

H&S Environmental, Inc. (H&S) has prepared this 2011 Annual Operations Report for the Soil Vapor Extraction Containment System (SVECS) at Site 1, Former Drum Marshalling Yard, at the Naval Weapons Industrial Reserve Plant (NWIRP) in Bethpage, New York. This report has been prepared for the United States Department of the Navy (Navy), Naval Facilities Engineering Command (NAVFAC), Mid-Atlantic, under Contract No. N40085-10-D-9409, Contract Task Order (CTO) 0005. H&S assumed operational responsibility of the SVECS from ECOR Federal Services, LLC (ECOR) on 1 July 2011. This 2011 Annual Operations Report summarizes activities that occurred during 2011 and also further details activities that occurred during the Fourth Quarter 2011 (October 2011 through December 2011). Data collected and operational activities from January 2011 through June 2011 were performed by ECOR, while data collected and operational activities from July 2011 through December 2011 were performed by H&S in accordance with the *Final Operation & Maintenance Plan for Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard at Naval Weapons Industrial Reserve Plant Bethpage, New York* prepared by Tetra Tech EC, Inc. (TtEC) in 2010, hereafter referred to as the "O&M Manual."

The following quarterly reports, along with data collected during the Fourth Quarter (October 2011 through December 2011), are used as a basis for this 2011 Annual Operations Report:

- *Final Quarterly Operations Report, First Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York* (ECOR 2011).
- *Final Quarterly Operations Report, Second Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York* (ECOR 2011a).
- *Final Quarterly Operations Report, Third Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York* (H&S 2012).

1.1 Site Location

NWIRP Bethpage is located in east central Nassau County, Long Island, New York, approximately 30 miles east of New York City. The Navy's property totaled approximately 109.5 acres and was formerly a Government Owned Contractor-Operated (GOCO) facility that was operated by the Northrop Grumman Corporation (NGC) until September 1998. NWIRP Bethpage is bordered on the north, west, and south by property owned, or formerly owned, by NGC that covered approximately 605 acres, and on the east by a residential neighborhood. Site 1 lies within the fenced area of NWIRP Bethpage and is located east of Plant No. 3, west of 11th Street and north of Plant 17 South (**Figures 1 and 2**).

1.2 Background

NWIRP Bethpage was established in 1941. Since inception, the primary mission of the facility has been the research, prototyping, testing, design engineering, fabrication, and primary assembly of military

aircraft. Historical operations that resulted in hazardous material generation at the facility included metal finishing processes, maintenance operations, painting of aircraft and components, and other activities that involved aircraft manufacturing. Wastes generated by plant operations were disposed of directly into drainage sumps, dry wells, and/or on the ground surface, resulting in the disposal of a number of hazardous wastes, including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and inorganic analytes - chromium and cadmium - at the site. Some of these contaminants have migrated from the points of disposal to surrounding areas, including the soils of these sites and the groundwater beneath and downgradient of the NWIRP Bethpage property. NWIRP Bethpage is currently listed by the New York State Department of Environmental Conservation (NYSDEC) as an "inactive hazardous waste site" (#1-30-003B).

Soils at Site 1 consist mainly of unconsolidated sediments that overlie crystalline bedrock. A clay unit is present near the groundwater table [50 feet below ground surface (bgs)] at the southeast corner of the site. This clay unit is suspected to be a source of chlorinated solvents that are migrating into the overlying soil gas and the source of offsite VOCs in soil vapor (TtEC 2010).

Chlorinated solvents including trichloroethene (TCE), tetrachloroethene (PCE), and 1,1,1-trichloroethane (TCA) have been identified as the VOCs of interest in soil gas at the site. Concentrations greater than 1,000 $\mu g/m^3$ (micrograms per cubic meter of soil vapor) have been directly associated with Site 1 activities and historical environmental data, and based on preliminary screening, exceed guidelines established by the New York Department of Health (NYDOH) for subslab soil vapor concentrations. Of these compounds, TCE is the primary VOC of concern, and addressing TCE contamination in accordance with NYDOH guidance should address the other VOCs associated with the site. PCBs, cadmium, and chromium have also been identified in site soils at concentrations requiring remediation. The majority of these chemicals has been detected in the central portion of Site 1 and will be addressed via a separate remediation (TtEC 2010).

Prior to implementation of the SVECS, the mean concentrations of VOCs in soil gas samples collected along the eastern fence-line were 41,128 $\mu g/m^3$ of TCE, 381 $\mu g/m^3$ of PCE, and 20,634 $\mu g/m^3$ of 1,1,1-TCA. The maximum concentrations of VOCs in the soil gas samples were 180,000 $\mu g/m^3$ of TCE, 1,200 $\mu g/m^3$ of PCE, and 90,000 $\mu g/m^3$ of 1,1,1-TCA (TtEC 2010).

1.3 Project Overview and Objective

The remedial objective for this project is to use an on-site soil vapor extraction system to prevent further off-site migration of VOC contaminated soil vapor and to the extent practical, capture contaminated soil vapor with a TCE concentration greater than 250 $\mu g/m^3$. A secondary objective of this project is to address soil vapor with a TCE concentration greater than 5 $\mu g/m^3$. The SVECS is an interim action intended to address migration of VOCs in contaminated soil vapors and has been designed for a four-year operational life; it is expected to operate continuously 24 hours/day, seven days/week, with the exception of maintenance and adjustment periods (TtEC 2010).

1.4 SVECS Overview

The SVECS consists of soil vapor extraction, soil vapor monitoring, and soil vapor treatment. Twelve SVE wells (SVEWs) are located along the eastern boundary of Site 1 in six clusters, each consisting of one intermediate well and one deep well. Intermediate wells SVE-101I, SVE-102I, SVE-103I, SVE-104I, SVE-105I, and SVE-106I have a screened interval between 25 and 35 ft bgs. Deep wells SVE-101D, SVE-102D, SVE-103D, SVE-104D, SVE-105D, and SVE-106D have a screened interval between 40 and 60 ft bgs. The groundwater table fluctuates between approximately 50 and 55 feet bgs. Each SVEW is operated at a flow rate of 40- 45 standard cubic feet per minute (scfm) for a total flow rate of 475 - 550 scfm. The SVECS has been designed to process a nominal flow of 500 scfm and a maximum flow of 1,000 scfm of soil vapor. Each intermediate depth SVEW requires a vacuum of 4 inches of water column (i.w.) and each deep SVEW requires a vacuum of up to 20 i.w. in order to extract the targeted flow rates. These twelve SVEWs have been piped below the ground to the Flow Monitoring Station (FMS), where flow, vacuum, and vapor quality are monitored. Within the FMS, the discharges from the individual SVEWs have been equipped with a 2-inch flow control butterfly valve, a vacuum gauge, and a sampling port. The sampling port is utilized to measure the flow rate from an individual well using a portable velocity meter and to collect vapor samples. All the SVE lines collect into a single manifold within the FMS and from this location a single underground pipeline has been routed approximately 1,400 linear feet to the Treatment Building (Building 03-35). As discussed below, five additional SVEWs (SV-107D, SV-108D, SV-109D, SV-110D, and SV-11D) were installed in October 2011 to address potential VOCs under Plant No. 3 and the South Warehouse. A site plan depicting well locations is included as **Figure 3**.

The SVECS is housed within the Treatment Building, an existing and unoccupied building also known as Building 03-35. The treatment system consists of a moisture separator, two SVE blowers, and a 5,000-lb vapor-phase granular activated carbon (VGAC) unit for removal of chlorinated VOCs from the off-gas. Soil vapor that enters the Treatment Building first passes through the moisture separator tank where any condensate is separated and removed by a portable pump into 55-gallon drums and then disposed of onsite to the County's sanitary sewer system if necessary. The vapor is then passed through an air filter and SVE blower, and then treated in the VGAC unit. The treated vapor is discharged from the VGAC via an exhaust stack. The SVECS has a control panel comprised of mechanical interlocks and relays for local operation. A Process Flow Diagram is presented in **Figure 4**, which also illustrates the design flow rates through the soil vapor extraction and treatment process.

The off-gas from the SVECS is monitored for chlorinated VOCs as identified in the NYSDEC Division of Air Resources (DAR) permit equivalent effluent limitations (**Appendix A**) and monitoring requirements (TtEC 2010). Samples are submitted to a National Environmental Laboratory Accreditation Conference (NELAC)-accredited, Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory, Analytical Laboratories Services, Inc. located in Middletown, PA, for analysis of target compound list (TCL) VOCs including PCE, 1,1,1-TCA, and TCE by modified method TO-15.

2.0 SVECS OPERATION AND MAINTENANCE

While designed to run completely automated, the SVECS requires regular visits by an operator to record and adjust operational parameters and to perform scheduled maintenance. The SVECS is equipped with telemetry that will call an on-call operator in the event of a plant shutdown.

2.1 Routine Maintenance Activities

Routine maintenance activities at the SVECS were performed during the operator's weekly visits. These activities include general site inspections (of the grounds, buildings, doors and locks), collection of operational data (vapor flowrates, pressures, vacuums, temperature and photoionization detector [PID] readings), adjustment of system valves, collection of vapor samples (on a monthly and quarterly basis), collection/disposal of condensate, cleaning of filters, switching of lead/lag blower assignments, and preventive maintenance of system equipment.

2.2 Non-routine Maintenance / Site Activities

The following non-routine activities were performed at the SVECS during 2011:

- In February 2011, vacuums at SVE-102, SVE-104 and SVE-106 were observed to be above normal operating vacuum (45 i.w. as opposed to 30 i.w.). Condensate inundated the piping leading to these wells, reducing average vapor flowrate of the system from 450-475 scfm to 325-350 scfm. Excess water from the condensate cleanout ports was pumped into a 250-gallon portable tank and discharged into the sanitary sewer. An estimated 1,350 gallons of water was removed and discharged from February through May 2011 (ECOR 2011, 2011a).

- On 19 July 2011, there was a system alarm due to the shutdown of the blowers. The system was restarted upon arrival by the operator.

- The week of 16 October 2011, five additional SVEWs were installed as part of a system expansion designed to address potential VOCs under Plant No. 3 and the south Warehouse.

3.0 SVECS MONITORING

To monitor SVECS effectiveness, several process vapor samples are collected on a monthly basis. These samples include an influent sample (as well as a duplicate sample), located immediately prior to the VGAC unit, and an effluent sample, located after the VGAC unit and before the exhaust stack. In addition, vapor samples are collected from the 12 original SVEWs on a quarterly basis to determine the effectiveness of the remediation activities and monitor the capture of the contaminated soil vapor by the SVEWs.

3.1 Monthly Air Quality Monitoring

Analysis of influent and effluent sample locations is performed to evaluate VOC mass removal and the effectiveness of the VGAC adsorption unit. Composite vapor samples are collected using 6-L summa canisters with 30-minute flow regulators.

Treated off-gas discharged at the exhaust stack is subject to emissions limitations and associated calculations approved by the NYSDEC DAR in February 2010. A copy of the NYSDEC approved calculations is presented in the Air Permit Equivalent included as **Appendix A**.

3.1.1 Fourth Quarter 2011 Summary

A summary of monthly vapor sampling results collected in October, November, and December 2011 (Fourth Quarter 2011) is presented in **Tables 1, 2, and 3**, respectively. Emission rate calculations for both the influent stream ("prior to treatment") and effluent stream ("following treatment") and estimated monthly mass recoveries are also presented. Emission rates of the influent stream are calculated to monitor progress and determine when influent concentrations have reached levels at which vapor treatment via carbon adsorption is no longer required. The data presented in **Tables 1, 2, and 3** demonstrate that all permitted constituents were in compliance with the effluent emission rates presented in the Air Permit Equivalent in **Appendix A**. Raw analytical data is presented in **Appendix B**.

Monthly emission rate calculations for January – September 2011 are included in previously submitted quarterly operations reports as indicated in Section 1.0.

3.1.2 2011 Annual Summary

Emissions
Table 4 summarizes annual air emissions based on monthly emissions during the 12-month period. During 2011, approximately 8.42 lbs of total VOCs were emitted. Annual emission of permitted constituents was well within the permit guidelines as indicated below:

Constituents	Annual Emissions	Permitted Guideline
1,1-DCA	0.52 lb	11 lb
1,1-DCE	0.044 lb	16 lb
cis-1,2-DCE	2.60 lb	5 lb
PCE	0.0033 lb	8 lb
1,1,1-TCA	2.37 lb	591 lb
TCE	0.066 lb	1,181 lb

Mass Recovery
Mass recovery was calculated based on monthly influent concentrations combined with monthly influent flow totals. During 2011, approximately 25.81 lbs of VOCs were removed by the SVECS, for an average monthly mass recovery rate of approximately 2.15 lbs per month. Monthly mass recovery calculations are presented in **Tables 1, 2, and 3**, and summarized annually in **Table 4**.

3.2 Quarterly Air Quality Monitoring

Composite vapor samples are collected quarterly using 6-L summa canisters with 30-minute flow regulators at six intermediate and six deep SVE wells. The samples are collected for the purpose of tracking and documenting the performance of the SVECS at maintaining hydraulic containment and capturing the contaminated soil vapors (TtEC 2010).

3.2.1 Fourth Quarter 2011 Summary

Quarterly vapor samples were collected on 14 October 2011 from the 12 SVEWs. A summary of detected compounds is included as **Table 5**. Raw analytical data is included in **Appendix B**.

3.2.2 2011 Annual Summary

Results of quarterly vapor samples collected from the 12 SVEWs in 2011 are presented in **Table 6**, along with historical results beginning in September 2010. Analytical data associated with these results are presented in previously submitted quarterly operations reports as indicated in Section 1.0.

In addition, a geographical depiction of quarterly analytical results of select VOCs (1,1,1-TCA, PCE, and TCE) detected at the 12 SVEWs in 2011 is included as **Figure 3**.

3.3 Air Quality Concentration Trends

Concentration trends of select VOCs over time for the SVECS combined influent (1,1,1-TCA, PCE, TCE, and total VOCs) and each of the 12 SVEWs (1,1,1-TCA, PCE, and TCE) are presented in **Appendix C**. Concentration trends observed in 2011 are discussed below. In general, unless otherwise indicated, concentrations of 1,1,1-TCA, PCE, and TCE exhibited similar trends at each given location.

- Combined Influent: Overall VOC concentrations in the combined influent increased throughout 2011, with a noticeable rise occurring in August 2011. However, overall concentrations throughout the year remained well below initial concentrations observed in July 2010.

- SV-101I: Concentrations decreased throughout 2011, remaining well below initial concentrations observed in September 2010 and peak concentrations observed in December 2010.

- SV-101D: Concentrations increased substantially in the Third Quarter and then fell back to initially observed concentrations in the Fourth Quarter.

- SV-102I and SV-102D: No apparent trends were observed. Concentrations generally increased throughout 2011 but remained below initial concentrations observed in September 2010.

- SV-103I and SV-103D: Concentrations increased substantially in the Third and Fourth Quarter, reaching the highest concentrations observed to date, with the most significant increases observed in PCE concentrations.

- SV-104I: Concentrations increased in the Third Quarter, though remaining less than initial values observed in September 2010 and decreasing somewhat in the Fourth Quarter.

- SV-104D: Concentrations increased substantially throughout the latter half of 2011, reaching maximum concentrations in the Fourth Quarter, with the most significant increase observed in PCE concentrations.

- SV-105I and SV-105D: Concentrations increased substantially throughout the latter half of 2011, reaching maximum concentrations in the Fourth Quarter, with the most significant increases observed in TCE concentrations.

- SV-106I: No apparent trends were observed. TCE concentrations reached maximum levels in the Second Quarter and remained above initially observed concentrations in the Fourth Quarter.

- SV-106D: Concentrations generally increased gradually throughout 2011, reaching peak concentrations in the Fourth Quarter.

4.0 CONCLUSIONS AND RECOMMENDATIONS

As stated previously, the intent of the Site 1 SVECS is to prevent further off-site migration of VOC contaminated soil vapor and to the extent practical, capture contaminated soil vapor with elevated TCE concentrations. The removal of 25.81 lbs of VOCs by the SVECs in 2011 indicates that progress is being made toward these goals. Influent vapor analytical data with concentrations of TCE consistently greater than 250 µg/L indicate that the SVECS should continue to be operated on a full-time basis to achieve continued capture of contaminated soil vapor. Monthly monitoring of the combined influent and effluent as well as quarterly monitoring of individual SVEWs should continue, and ongoing optimization activities should be performed in order to improve system performance.

5.0 REFERENCES

ECOR Federal Services, LLC. (ECOR). 2011. *Final Quarterly Operations Report, First Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York.* June.

ECOR. 2011a. *Final Quarterly Operations Report, Second Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York.* August.

H&S Environmental, Inc. (H&S). 2012. *Final Quarterly Operations Report, Third Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York*. February.

Tetra Tech EC, Inc. (TtEC). 2010. *Final Operation & Maintenance Plan for Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard at Naval Weapons Industrial Reserve Plant, Bethpage, New York.* June.

TABLES

Table 1
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Monitoring Results
October 2011

Compound	Concentation ($\mu g/m^3$)				Emission Rate [1],[2]				Monthly Mass Recovery [3]
					Prior to Treatment		Following Treatment		
	Influent #1	Influent #2	Average	Effluent	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs)
Acetone	6	4	5	8	0.0000	0.0747	0.0000	0.1195	0.0060
Acrylonitrile	0	0.5 J	0.3 J	0.2 J	0.0000	0.0037	0.0000	0.0030	0.0003
tert-Amyl methyl ether	0	1 J	0.5 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Benzene	0.7 J	0.9 J	0.8 J	0.5 J	0.0000	0.0119	0.0000	0.0075	0.0010
Benzyl Chloride	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Bromodichloromethane	0	0	0	0.7 J	0.0000	0.0000	0.0000	0.0105	0.0000
Bromoform	0	2 J	1 J	0	0.0000	0.0149	0.0000	0.0000	0.0012
Bromomethane	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
n-Butane	0	0	0	2	0.0000	0.0000	0.0000	0.0299	0.0000
2-Butanone	2	2	2	1	0.0000	0.0299	0.0000	0.0149	0.0024
tert-Butyl Alcohol	0	0.8 J	0.4 J	0.3 J	0.0000	0.0060	0.0000	0.0045	0.0005
Carbon Disulfide	0.8 J	1 J	0.9 J	0.8	0.0000	0.0134	0.0000	0.0119	0.0011
Carbon Tetrachloride	2 J	3	3 J	1 J	0.0000	0.0373	0.0000	0.0149	0.0030
Chlorobenzene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Chlorodibromomethane	0	2 J	1 J	0	0.0000	0.0149	0.0000	0.0000	0.0012
Chloroethane	0	0.8 J	0.4 J	0.3 J	0.0000	0.0060	0.0000	0.0045	0.0005
Chloroform	6	7	7	4	0.0000	0.0971	0.0000	0.0597	0.0078
Chloromethane	0.5 J	0.7 J	0.6 J	0.3 J	0.0000	0.0090	0.0000	0.0045	0.0007
3-Chloro-1-propene	0	0.7 J	0.4 J	0	0.0000	0.0052	0.0000	0.0000	0.0004
Cyclohexane	0	0.8 J	0.4 J	0	0.0000	0.0060	0.0000	0.0000	0.0005
1,2-Dibromoethane	0	2 J	1 J	0	0.0000	0.0149	0.0000	0.0000	0.0012
1,2-Dichlorobenzene	1 J	1 J	1 J	0.6 J	0.0000	0.0149	0.0000	0.0090	0.0012
1,3-Dichlorobenzene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
1,4-Dichlorobenzene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Dichlorodifluoromethane	3	3	3	2	0.0000	0.0448	0.0000	0.0299	0.0036
1,1-Dichloroethane	21	21	21	37	0.0000	0.3137	0.0001	0.5526	0.0252
1,2-Dichloroethane	2 J	2	2 J	0.5 J	0.0000	0.0299	0.0000	0.0075	0.0024
1,1-Dichloroethene	2	2	2	3	0.0000	0.0299	0.0000	0.0448	0.0024
cis-1,2-Dichloroethene	220	210	215	400	0.0004	3.2112	0.0007	5.9743	0.2581
trans-1,2-Dichloroethene	3	3	3	4	0.0000	0.0448	0.0000	0.0597	0.0036
1,2-Dichloropropane	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
cis-1,3-Dichloropropene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
1,4-Dioxane	0.9 J	0	0.5 J	0	0.0000	0.0067	0.0000	0.0000	0.0005
Ethanol	2	2	2	1	0.0000	0.0299	0.0000	0.0149	0.0024
Ethyl tert-butyl ether	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Ethylbenzene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
4-ethyltoluene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Freon 113	58	55	57	120	0.0001	0.8439	0.0002	1.7923	0.0678
Freon 114	0	2 J	1 J	0	0.0000	0.0149	0.0000	0.0000	0.0012
Heptane	0.9 J	1 J	1 J	0	0.0000	0.0142	0.0000	0.0000	0.0011
Hexachlorobutadiene	0	3 J	2 J	0	0.0000	0.0224	0.0000	0.0000	0.0018
Hexane	0.7 J	2	1	0.4 J	0.0000	0.0202	0.0000	0.0060	0.0016
2-Hexanone	0	0.9 J	0.45	0	0.0000	0.0067	0.0000	0.0000	0.0005
Isoproyl alcohol	1 J	2	2	0.8	0.0000	0.0224	0.0000	0.0119	0.0018
Isopropylbenzene	11	1 J	6	46	0.0000	0.0896	0.0001	0.6870	0.0072
p-Isopropyltoluene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Methyl Methacrylate	0	0.8 J	0.4 J	1	0.0000	0.0060	0.0000	0.0149	0.0005
Methyl-tert-Butyl-Ether	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
MIBK	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Methylene Chloride	1 J	5	3 J	1	0.0000	0.0448	0.0000	0.0149	0.0036
Naphthalene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
iso-Octane	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
1,1,2,2-Tetrachloroethane	0	2 J	1 J	0	0.0000	0.0149	0.0000	0.0000	0.0012
Tetrachloroethene	1100	950	1025	0.7 J	0.0017	15.3092	0.0000	0.0105	1.2303
Tertahydrofuran	4	5	5	68	0.0000	0.0672	0.0001	1.0156	0.0054
Toluene	2	1 J	2 J	0.5 J	0.0000	0.0224	0.0000	0.0075	0.0018
Total Xylenes	3 J	3 J	3 J	0	0.0000	0.0448	0.0000	0.0000	0.0036
1,2,4-Trichlorobenzene	0	2 J	1 J	0	0.0000	0.0149	0.0000	0.0000	0.0012
1,1,1-Trichloroethane	280	270	275	350	0.0005	4.1073	0.0006	5.2275	0.3301
1,1,2-Trichloroethane	1 J	2 J	2 J	0	0.0000	0.0224	0.0000	0.0000	0.0018
Trichloroethene	1400	1100	1250	6	0.0021	18.6697	0.0000	0.0896	1.5004
Trichlorofluoromethane	3	4	4	2	0.0000	0.0523	0.0000	0.0299	0.0042
1,2,3-Trichloropropane	0	2 J	1 J	0	0.0000	0.0149	0.0000	0.0000	0.0012
1,2,4-Trimethylbenzene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
1,3,5-Trimethylbenzene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
1,2,3-Trimethylbenzene	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Vinyl Bromide	0	1 J	1 J	0	0.0000	0.0075	0.0000	0.0000	0.0006
Vinyl Chloride	0.6 J	0.8 J	0.7 J	0.4 J	0.0000	0.0105	0.0000	0.0060	0.0008
Total VOCs	3139	2707	2923	1064	0.0050	43.6557	0.0018	15.8917	3.5084

Notes:

All samples were analyzed for full list VOCs by modified method TO-15. Only detected analytes are presented above.

Average Monthly Vapor Temp (ºF) = 103
Average Monthly Flowrate (cfm) = 486
Average Monthly Flowrate (scfm) = 456
Operational Hours for the month = 704

(1) Emissions (lbs/hr) = Concentration ($\mu g/m^3$)*(lb/454000000μg)*(0.3048^3m^3/ft^3)*exhaust flow (scfm)*(60min/hour)
(2) Emissions (lbs/yr) = Emissions (lbs/hour)*(8760hours/yr)
(3) Monthly Mass Recovery = AVG FLOWRATE (scfm) * 0.3048^3m^3/ft^3 * INF AVG CONC (ug/m^3) * (lb/454000000ug) * 60 min/hr * OPERATIONAL TIME (hr)

Table 2
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Monitoring Results
November 2011

Compound	Concentation ($\mu g/m^3$)				Emission Rate [1],[2]				Monthly Mass Recovery [3]
					Prior to Treatment		Following Treatment		
	Influent #1	Influent #2	Average	Effluent	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs)
Acetone	8	5	7	6	0.0000	0.1047	0.0000	0.0967	0.0086
Benzene	0	0	0	0.3 J	0.0000	0.0000	0.0000	0.0048	0.0000
n-Butane	0	1	1	1	0.0000	0.0081	0.0000	0.0161	0.0007
2-Butanone	9	8	9	0.5 J	0.0000	0.1370	0.0000	0.0081	0.0113
Carbon Tetrachloride	2 J	2 J	2 J	0	0.0000	0.0322	0.0000	0.0000	0.0026
Chloroform	4	4	4	3	0.0000	0.0645	0.0000	0.0483	0.0053
Chloromethane	0	0	0	0.2 J	0.0000	0.0000	0.0000	0.0032	0.0000
Dichlorodifluoromethane	2	3	3	2	0.0000	0.0403	0.0000	0.0322	0.0033
1,1-Dichloroethane	20	21	21	29	0.0000	0.3304	0.0001	0.4673	0.0272
1,2-Dichloroethane	0.9 J	1 J	1 J	0	0.0000	0.0153	0.0000	0.0000	0.0013
1,1-Dichloroethene	3	4	4	2	0.0000	0.0564	0.0000	0.0322	0.0046
cis-1,2-Dichloroethene	170	180	175	200	0.0003	2.8201	0.0004	3.2230	0.2318
trans-1,2-Dichloroethene	2	2	2	3	0.0000	0.0322	0.0000	0.0483	0.0026
Ethanol	2	2	2	2	0.0000	0.0322	0.0000	0.0322	0.0026
Freon 113	82	86	84	95	0.0002	1.3537	0.0002	1.5309	0.1113
Hexane	2	2	2	3	0.0000	0.0322	0.0000	0.0483	0.0026
Isoproyl alcohol	0.9 J	0	0.5 J	0.9	0.0000	0.0073	0.0000	0.0145	0.0006
Isopropylbenzene	9	0	5	4	0.0000	0.0725	0.0000	0.0645	0.0060
Methyl-tert-Butyl-Ether	0	0	0	1	0.0000	0.0000	0.0000	0.0161	0.0000
Methylene Chloride	3	3	3	23	0.0000	0.0483	0.0000	0.3706	0.0040
iso-Octane	5	5	5	0	0.0000	0.0806	0.0000	0.0000	0.0066
Tetrachloroethene	940	920	930	0	0.0017	14.9869	0.0000	0.0000	1.2318
Tertahydrofuran	23	23	23	48	0.0000	0.3706	0.0001	0.7735	0.0305
Toluene	0	0	0	0.7 J	0.0000	0.0000	0.0000	0.0113	0.0000
1,2,4-Trichlorobenzene	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000
1,1,1-Trichloroethane	270	280	275	190	0.0005	4.4316	0.0003	3.0618	0.3642
1,1,2-Trichloroethane	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000
Trichloroethene	1200	1100	1150	9	0.0021	18.5322	0.0000	0.1450	1.5232
Vinyl Bromide	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000
Vinyl Chloride	0	0.6 J	0.3 J	0.3 J	0.0000	0.0048	0.0000	0.0048	0.0004
Total VOCs	2758	2653	2705	624	0.0050	43.5942	0.0011	10.0541	3.5831

Notes:

All samples were analyzed for full list VOCs by modified method TO-15. Only detected analytes are presented above.

Average Monthly Vapor Temp (ºF) = 98
Average Monthly Flowrate (cfm) = 520
Average Monthly Flowrate (scfm) = 492
Operational Hours for the month = 720

(1) Emissions (lbs/hr) = Concentration ($\mu g/m^3$)*(lb/454000000μg)*(0.3048^3m^3/ft^3)*exhaust flow (scfm)*(60min/hour)
(2) Emissions (lbs/yr) = Emissions (lbs/hour)*(8760hours/yr)
(3) Monthly Mass Recovery = AVG FLOWRATE (scfm) * 0.3048^3m^3/ft^3 * INF AVG CONC (ug/m^3) * (lb/454000000ug) * 60 min/hr * OPERATIONAL TIME (hr)

Table 3
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Monitoring Results
December 2011

Compound	Concentation ($\mu g/m^3$)				Emission Rate [1],[2]				Monthly Mass Recovery [3] (lbs)
					Prior to Treatment		Following Treatment		
	Influent #1	Influent #2	Average	Effluent	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
Acetone	7	4	6	36	0.0000	0.0847	0.0001	0.5547	0.0072
Benzene	0	1 J	1 J	0	0.0000	0.0077	0.0000	0.0000	0.0007
Bromomethane	0	0.9 J	0.5 J	0	0.0000	0.0069	0.0000	0.0000	0.0006
1,3-Butadiene	0	0.5 J	0.3 J	0	0.0000	0.0039	0.0000	0.0000	0.0003
n-Butane	0.7 J	0	0.4 J	0.9	0.0000	0.0054	0.0000	0.0139	0.0005
2-Butanone	2	2	2	1	0.0000	0.0308	0.0000	0.0154	0.0026
Carbon Disulfide	0	0.7 J	0.4 J	0	0.0000	0.0054	0.0000	0.0000	0.0005
Carbon Tetrachloride	3	4	4 J	0	0.0000	0.0539	0.0000	0.0000	0.0046
Chloroform	2	3	3	2	0.0000	0.0385	0.0000	0.0308	0.0033
Chloromethane	0	0.6 J	0.3 J	0	0.0000	0.0046	0.0000	0.0000	0.0004
Cyclohexane	0	1	1 J	0	0.0000	0.0077	0.0000	0.0000	0.0007
Dichlorodifluoromethane	3	4	4	3	0.0000	0.0539	0.0000	0.0462	0.0046
1,1-Dichloroethane	17	18	18	17	0.0000	0.2697	0.0000	0.2620	0.0229
1,2-Dichloroethane	0	1 J	1 J	0	0.0000	0.0077	0.0000	0.0000	0.0007
1,1-Dichloroethene	1 J	2	2 J	2	0.0000	0.0231	0.0000	0.0308	0.0020
cis-1,2-Dichloroethene	170	170	170	190	0.0003	2.6195	0.0003	2.9277	0.2225
trans-1,2-Dichloroethene	2	2	2	2	0.0000	0.0308	0.0000	0.0308	0.0026
Ethanol	3	2	3	4	0.0000	0.0385	0.0000	0.0616	0.0033
Freon 113	54	55	55	63	0.0001	0.8398	0.0001	0.9708	0.0713
Freon 114	0	2 J	1 J	0	0.0000	0.0154	0.0000	0.0000	0.0013
Hexane	0.8 J	4	2 J	0	0.0000	0.0370	0.0000	0.0000	0.0031
2-Hexanone	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000
Isoproyl alcohol	1	2	2	1	0.0000	0.0231	0.0000	0.0154	0.0020
Isopropylbenzene	9	0	5	3	0.0000	0.0693	0.0000	0.0462	0.0059
Methyl Methacrylate	0	0	0	0.5 J	0.0000	0.0000	0.0000	0.0077	0.0000
Methylene Chloride	2	4	3	1	0.0000	0.0462	0.0000	0.0154	0.0039
iso-Octane	2	1 J	2 J	0	0.0000	0.0231	0.0000	0.0000	0.0020
Tetrachloroethene	660	510	585	0	0.0010	9.0143	0.0000	0.0000	0.7656
Tertahydrofuran	3	3	3	28	0.0000	0.0462	0.0000	0.4315	0.0039
Toluene	2	1 J	2 J	0	0.0000	0.0231	0.0000	0.0000	0.0020
Total Xylenes	6	0	3	0	0.0000	0.0462	0.0000	0.0000	0.0039
1,1,1-Trichloroethane	260	250	255	220	0.0004	3.9293	0.0004	3.3900	0.3337
Trichloroethene	980	1000	990	14	0.0017	15.2549	0.0000	0.2157	1.2956
Trichlorofluoromethane	5	6	6	4	0.0000	0.0847	0.0000	0.0616	0.0072
Vinyl Chloride	0	0.9 J	0.5 J	0	0.0000	0.0069	0.0000	0.0000	0.0006
Total VOCs	2196	2056	2126	592	0.0037	32.7526	0.0010	9.1283	2.7817

Notes:

All samples were analyzed for full list VOCs by modified method TO-15. Only detected analytes are presented above.

Average Monthly Vapor Temp (ºF) = 92
Average Monthly Flowrate (cfm) = 491
Average Monthly Flowrate (scfm) = 470
Operational Hours for the month = 744

(1) Emissions (lbs/hr) = Concentration ($\mu g/m^3$)*(lb/454000000μg)*(0.3048^3m^3/ft^3)*exhaust flow (scfm)*(60min/hour)
(2) Emissions (lbs/yr) = Emissions (lbs/hour)*(8760hours/yr)
(3) Monthly Mass Recovery = AVG FLOWRATE (scfm) * 0.3048^3m^3/ft^3 * INF AVG CONC (ug/m^3) * (lb/454000000ug) * 60 min/hr * OPERATIONAL TIME (hr)

Table 4
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
2011 Air Emission and Mass Recovery Summary

	1.1-DCA Effluent Emission Rate		1,1-DCE Effluent Emission Rate		cis-1,2-DCE Effluent Emission Rate		PCE Effluent Emission Rate		1,1,1-TCA Effluent Emission Rate		TCE Effluent Emission Rate		Total VOCs Effluent Emission Rate		Mass Recovery (Total VOCs)
Month	**lb/hr**	**lb/mo**	**lb/hr**	**lb/mo**	**lb/hr**	**lb/mo**	**lb/hr**	**lb/mo**	**lb/hr**	**lb/mo**	**lb/hr**	**lb/mo**	**lb/hr**	**lb/mo**	**lb/mo**
Jan-11	0.0000	0.0195	0.0000	0.0023	0.0001	0.0481	0.0000	0.0000	0.0000	0.0241	0.0000	0.0000	0.0002	0.17	1.09
Feb-11	0.0000	0.0150	0.0000	0.0016	0.0001	0.0364	0.0000	0.0000	0.0000	0.0190	0.0000	0.0000	0.0002	0.13	1.50
Mar-11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.02	1.14
Apr-11	0.0000	0.0223	0.0000	0.0020	0.0001	0.0650	0.0000	0.0000	0.0001	0.0416	0.0000	0.0010	0.0004	0.25	1.29
May-11 [1]	0.0000	0.0223	0.0000	0.0020	0.0001	0.0650	0.0000	0.0000	0.0001	0.0416	0.0000	0.0010	0.0004	0.25	1.29
Jun-11	0.0001	0.0887	0.0000	0.0072	0.0003	0.2037	0.0000	0.0024	0.0003	0.2397	0.0000	0.0036	0.0012	0.90	1.75
Jul-11	0.0002	0.1222	0.0000	0.0086	0.0004	0.3300	0.0000	0.0000	0.0004	0.2689	0.0000	0.0037	0.0016	1.20	1.32
Aug-11	0.0001	0.0716	0.0000	0.0062	0.0006	0.4319	0.0000	0.0000	0.0005	0.3578	0.0000	0.0049	0.0018	1.35	3.48
Sept-11	0.0001	0.0533	0.0000	0.0047	0.0006	0.4027	0.0000	0.0000	0.0005	0.3909	0.0000	0.0142	0.0017	1.20	3.09
Oct-11	0.0001	0.0469	0.0000	0.0038	0.0007	0.5074	0.0000	0.0009	0.0006	0.4440	0.0000	0.0076	0.0018	1.35	3.51
Nov-11	0.0001	0.0384	0.0000	0.0026	0.0004	0.2649	0.0000	0.0000	0.0003	0.2517	0.0000	0.0119	0.0011	0.83	3.58
Dec-11	0.0000	0.0222	0.0000	0.0026	0.0003	0.2487	0.0000	0.0000	0.0004	0.2879	0.0000	0.0183	0.0010	0.78	2.78

	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	Total VOCs	
Discharge Goal (lb/yr)	**11**	**16**	**5**	**8**	**591**	**1,181**	**---**	
2011 Totals (lb/yr)	**0.52**	**0.044**	**2.60**	**0.0033**	**2.37**	**0.066**	**8.42**	**25.81**

Notes:

lb/hr = pounds per hour
lb/mo = pounds per month
lb/yr = pounds per year
PCE = tetrachloroethane
TCA = trichloroethane
TCE = trichloroethene

(1) Data not available for May 2011. Values from April 2011 are presented instead.

Emission Rate (per hr) = average flowrate (scfm) * (0.3048^3)m^3/ft^3 * Eff conc (ug/m3) * (lb/454000000ug) * 60 min/hr * operational time (hrs)

Monthly Mass Recovery = average flowrate (scfm) * (0.3048^3)m^3/ft^3 * Inf avg conc (ug/m^3) * (lb/454000000ug) * 60 min/hr * operational time (hrs)

Data prior to July 2011 were collected by others.

Table 5
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Fourth Quarter 2011 Vapor Analytical Results Summary

Sample ID	SVE 101I	SVE101D	SVE102I	SVE102D	SVE103I	SVE103D	SVE104I	SVE104D	SVE105I	SVE105D	SVE 106I	SVE 106D
Sample Date	10/14/11	10/14/11	10/14/11	10/14/11	10/14/11	10/14/11	10/14/11	10/14/11	10/14/11	12/02/11	10/14/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)												
1,1,1-Trichloroethane	0.7 J	0.8 J	2	5	6	31	2	440	31	930	7	29
1,1,2,2-Tetrachloroethane	0.8 J	1 J	0.8 J	1 J	ND	12 J	ND	9 J	0.9 J	ND	1 J	1 J
1,1,2-Trichloroethane	0.6 J	0.7 J	0.6 J	0.8 J	ND	10 J	ND	7 J	0.9 J	ND	0.8 J	0.9 J
1,1-Dichloroethane	0.4 J	0.5 J	0.5 J	0.7 J	2	9	0.5 J	77	7	150	1	3
1,1-Dichloroethene	0.5 J	0.4 J	0.4 J	0.6 J	ND	6 J	ND	7 J	0.5 J	ND	0.6 J	0.8
1,2,3-Trichloropropane	0.8 J	0.8 J	0.8 J	0.9 J	0.6 J	11 J	ND	7 J	0.9 J	ND	0.9 J	1 J
1,2,3-Trimethylbenzene	0.5 J	1	2	2	2	7 J	0.7 J	6 J	2	ND	2	2
1,2,4-Trichlorobenzene	ND	ND	ND	0.8 J	ND	9 J	ND	ND	1 J	ND	0.8 J	0.9 J
1,2,4-Trimethylbenzene	0.7 J	3	5	6	5	9 J	2	7 J	7	ND	6	4
1,2-Dibromoethane	0.8 J	0.9 J	0.8 J	1 J	ND	11 J	ND	9 J	0.8 J	ND	1 J	1 J
1,2-Dichlorobenzene	0.6 J	0.7 J	ND	0.8 J	ND	9 J	ND	7 J	0.8 J	ND	0.9 J	1 J
1,2-Dichloroethane	0.5 J	0.5 J	0.4 J	0.5 J	ND	6 J	ND	5 J	0.5 J	ND	0.6 J	0.7 J
1,2-Dichloropropane	0.6 J	0.5 J	0.6 J	0.6 J	ND	8 J	ND	5 J	0.6 J	ND	0.7 J	0.8 J
1,3,5-Trimethylbenzene	0.5 J	1	1	1	1	8 J	0.5 J	5 J	1	ND	1	1
1,3-Butadiene	0.4 J	0.5 J	ND	0.4 J	ND	ND	ND	ND	ND	ND	0.6	ND
1,3-Dichlorobenzene	ND	ND	ND	0.7 J	ND	8 J	ND	ND	0.7 J	ND	0.7 J	0.8 J
1,4-Dichlorobenzene	ND	ND	ND	0.6 J	ND	8 J	ND	ND	0.7 J	ND	0.7 J	0.8 J
1,4-Dioxane	ND	ND	0.4 J	0.6 J	0.4 J	6 J	ND	4 J	0.6 J	ND	0.6 J	0.7 J
2-Butanone	1	1	2	1	1	6 J	0.8	3 J	1	ND	2	2
2-Hexanone	0.5 J	0.5 J	0.5 J	0.6 J	ND	5 J	ND	ND	0.4 J	ND	0.5 J	0.8 J
3-Chloro-1-propene	ND	0.4 J	ND	ND	ND	4 J	ND	ND	ND	ND	0.4 J	0.4 J
4-ethyltoluene	ND	1	1	1	1	8 J	ND	5 J	1	ND	1	1
Acetone	8	9	7	4	3	10	5	8	4	5	9	6
alpha-Chlorotoluene	0.5 J	0.5 J	ND	0.6 J	ND	8 J	ND	5 J	0.7 J	ND	0.7 J	0.9 J
Benzene	0.6 J	0.5 J	0.5 J	0.9	0.5 J	6 J	0.4 J	4 J	0.6 J	ND	0.6 J	0.6 J
Bromodichloromethane	0.8 J	0.8 J	0.7 J	1 J	ND	ND	ND	7 J	0.9 J	ND	1 J	1 J
Bromoform	1 J	1 J	1 J	1 J	ND	14 J	ND	11 J	1 J	ND	2 J	2 J
Bromomethane	0.5 J	0.5 J	0.5 J	0.5 J	0.4 J	6 J	ND	5 J	0.5 J	ND	0.6 J	0.7 J
Carbon Disulfide	0.4 J	0.5 J	0.4 J	0.5 J	0.5 J	6 J	0.5 J	4 J	0.6 J	ND	0.6	0.6
Carbon Tetrachloride	1 J	1	1 J	2	0.9 J	12 J	1 J	8 J	1	ND	3	18
Chlorobenzene	0.5 J	0.6 J	0.5 J	0.7 J	0.5 J	8 J	ND	5 J	0.6 J	ND	0.7 J	0.8 J
Chlorodibromomethane	0.9 J	1 J	0.9 J	1 J	ND	14 J	ND	10 J	1 J	ND	1 J	1 J
Chloroethane	0.4 J	0.4 J	0.3 J	0.4 J	0.3 J	5 J	ND	4 J	0.4 J	ND	0.5 J	0.4 J
Chloroform	0.6 J	0.7 J	4	17	2	29	1	9 J	3	3 J	2	5
Chloromethane	1	1	0.4	0.4	0.4 J	4 J	0.8	3 J	0.4	ND	0.4	0.6
cis-1,2-Dichloroethene	0.4 J	0.5 J	0.5 J	0.9	12	160	3	2100	16	380	4	4
cis-1,3-Dichloropropene	ND	ND	ND	0.6 J	ND	6 J	ND	ND	0.5 J	ND	0.5 J	0.7 J
Cyclohexane	0.3 J	0.4 J	0.4 J	0.4 J	ND	5 J	ND	ND	0.5 J	ND	0.4 J	0.4 J
Dichlorodifluoromethane	3	3	2	3	2	10	2	8 J	3	3 J	3	3
Diisopropyl ether	ND	ND	ND	ND	ND	6 J	ND	ND	ND	ND	ND	1 J
Ethanol	3	3	4	1	1	9	3	ND	2	10	1	ND
Ethyl Acetate	ND	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	ND	0.5 J	ND	5 J	ND	ND	0.4 J	ND	0.5 J	0.6 J
Ethylbenzene	0.5 J	0.9	1	1	1	7 J	0.6 J	5 J	1	ND	1	1
Freon 113	1 J	1 J	1 J	2	1 J	20	2	550	3	40	12	25
Freon 114	0.9 J	1 J	1 J	1 J	0.8 J	12 J	0.7 J	9 J	1 J	ND	1 J	1 J
Heptane	0.5 J	0.5 J	0.5 J	0.6 J	ND	5 J	ND	5 J	0.5 J	ND	0.5 J	0.6 J
Hexachlorobutadiene	1 J	1 J	1 J	2 J	1 J	18 J	ND	14 J	2 J	ND	2 J	2 J
Hexane	0.7	0.8	0.8	0.5 J	0.6 J	6 J	0.4 J	4 J	0.5 J	ND	1	0.6 J
Iso-Octane	0.6 J	0.6 J	0.6 J	0.7 J	0.5 J	8 J	0.5 J	6 J	0.7 J	ND	0.8 J	0.8 J
Isopropylbenzene	0.6 J	0.6 J	0.6 J	0.8 J	ND	8 J	ND	6 J	0.8 J	ND	0.7 J	0.8 J
Isoproyl alcohol	0.7	0.9	0.8	1	0.5 J	5 J	0.5	4 J	7	ND	1	ND
Methyl Methacrylate	0.4 J	3	ND	0.4 J	ND	5 J	ND	ND	0.4 J	ND	0.5 J	0.4 J
Methyl-tert-Butyl-Ether	0.4 J	0.4 J	0.4 J	0.4 J	0.6 J	6 J	ND	4 J	0.4 J	ND	0.7	0.5 J
Methylene Chloride	2	2	3	0.9	1	11	0.9	6 J	1	3 J	5	1
MIBK	0.4 J	0.5 J	ND	0.4 J	ND	6 J	ND	ND	0.5 J	ND	0.5 J	0.6 J
Naphthalene	ND	0.9 J	1	2	2	5 J	0.7 J	5 J	8	ND	2	3
n-Butane	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	0.7 J	ND	7 J	ND	ND	0.7 J	ND	0.8 J	0.9 J
n-Propylbenzene	ND	0.8 J	0.9 J	1	0.9 J	6 J	ND	ND	1	ND	0.9 J	0.9 J
Propylene	0.5	0.4	ND	ND	ND	ND	0.4	3 J	ND	ND	ND	MD
Styrene	ND	ND	ND	0.5 J	ND	5 J	ND	ND	0.5 J	ND	0.5 J	0.6 J
tert-Amyl methyl ether	0.5 J	0.5 J	0.4 J	0.5 J	ND	6 J	ND	4 J	0.5 J	ND	0.6 J	0.6 J
tert-Butyl Alcohol	0.4 J	0.5 J	0.5 J	0.6	0.9	5 J	0.3 J	3 J	0.4 J	ND	0.8	ND
Tetrachloroethene	2	2	6	39	590	6700	33	6300	100	330	19	66
Tetrahydrofuran	0.5 J	1	1	1	1	6	0.8	3 J	2	2 J	2	2
Toluene	0.8	1	1	2	1	6 J	0.6 J	4 J	1	ND	1	3
Total Xylenes	2 J	4	6	7	5	21 J	2 J	14 J	6	ND	6	6
trans-1,2-Dichloroethene	0.4 J	0.4 J	0.4 J	0.5 J	1	7 J	0.4 J	22	1	3 J	0.7 J	0.9
trans-1,3-Dichloropropene	ND	ND	ND	0.5 J	ND	5 J	ND	ND	0.5 J	ND	ND	0.6 J
Trichloroethene	0.6 J	1 J	52	87	97	240	25	1300	200	7000	190	320
Trichlorofluoromethane	2	2	2	13	2	11	2	7 J	2	ND	2	3
Vinyl Acetate	ND	ND	ND	ND	ND	ND	0.5 J	4 J	ND	ND	ND	ND
Vinyl Bromide	0.6 J	0.6 J	0.6 J	0.6 J	ND	8 J	ND	ND	0.6 J	ND	0.7 J	0.9
Vinyl Chloride	0.3 J	0.3 J	0.3 J	0.3 J	0.3 J	5 J	0.3 J	5 J	0.3 J	ND	0.4 J	0.5 J

Notes:
$\mu g/m^3$ = micrograms per cubic meter
All samples were analyzed for full list VOCs by modified method TO-15. Only detected analytes are presented above.

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE 101I					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	450	850	300	1	0.7 J	0.7 J
1,1,2,2-Tetrachloroethane	ND	ND	ND	1 J	0.7 J	0.8 J
1,1,2-Trichloroethane	3	5	ND	1 J	0.6 J	0.6 J
1,1-Dichloroethane	14	31	5	0.8 J	0.4 J	0.4 J
1,1-Dichloroethene	4	8	ND	0.7 J	0.4 J	0.5 J
1,2,3-Trichloropropane	ND	ND	ND	1 J	0.6 J	0.8 J
1,2,3-Trimethylbenzene	6	2	ND	0.6 J	ND	0.5 J
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	15	5	2	1	ND	0.7 J
1,2-Dibromoethane	ND	ND	ND	ND	ND	0.8 J
1,2-Dichlorobenzene	ND	ND	ND	0.6	ND	0.6 J
1,2-Dichloroethane	4	8	ND	0.9	0.5 J	0.5 J
1,2-Dichloropropane	ND	ND	ND	ND	0.6 J	0.6 J
1,3,5-Trimethylbenzene	4	ND	ND	0.6 J	ND	0.5 J
1,3-Butadiene	ND	ND	ND	0.7	0.4 J	0.4 J
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	3	1	ND	3	1	1
2-Hexanone	ND	ND	ND	ND	0.5 J	0.5 J
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	ND	0.4 J	ND
4-ethyltoluene	3	ND	ND	0.7 J	ND	ND
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	9	5	9	22	16	8
alpha-Chlorotoluene	ND	ND	ND	ND	ND	0.5 J
Acrylonitrile	ND	ND	ND	ND	0.4 J	ND
Benzene	1	ND	ND	1	0.4 J	0.6 J
Benzyl Chloride	ND	ND	ND	ND	ND	ND
Bromodichloromethane	23	ND	ND	1	0.8 J	0.8 J
Bromoform	ND	ND	ND	ND	ND	1 J
Bromomethane	ND	ND	ND	0.8	0.6 J	0.5 J
Carbon Disulfide	ND	ND	ND	0.9	0.5 J	0.4 J
Carbon Tetrachloride	2	ND	ND	2	1 J	1 J
Chlorobenzene	ND	ND	ND	ND	ND	0.5 J
Chlorodibromomethane	ND	ND	ND	ND	ND	0.9 J
Chloroethane	ND	ND	ND	0.6	0.4 J	0.4 J
Chloroform	2	1	ND	1	0.8 J	0.6 J
Chloromethane	1	0.5	ND	1	1	1
cis-1,2-Dichloroethene	9	15	3	0.7 J	ND	0.4 J
cis-1,3-Dichloropropene	ND	ND	ND	0.7 J	ND	ND
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	ND	0.9	0.7	0.3 J
Dichlorodifluoromethane	3	2	ND	3	2	3
Diisopropyl ether	ND	ND	ND	ND	ND	ND
Ethanol	5	4	2	10	7	3
Ethyl Acetate	ND	ND	ND	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	ND	0.7 J	ND	ND
Ethylbenzene	3	ND	ND	1	ND	0.5 J
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	ND	ND	2	2 J	1 J
Freon 114	ND	ND	ND	2	1 J	0.9 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	ND	2	ND	0.5 J
Hexachlorobutadiene	ND	ND	ND	2 J	ND	1 J
Hexane	1	ND	ND	3	3	0.7
iso-Octane	2	ND	ND	4	ND	0.6 J
Isopropylbenzene	ND	ND	ND	0.8 J	ND	0.6 J
Isoproyl alcohol	ND	0.8	0.8	2	3	0.7
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	0.6 J	ND	0.4 J
Methyl-tert-Butyl-Ether	ND	ND	ND	1	1	0.4 J
Methylene Chloride	ND	1	4	8	17	2
MIBK	ND	ND	ND	1	ND	0.4 J
Naphthalene	4	5	5	ND	ND	ND
n-Butane	0.8	0.7	ND	2	0.7	0.8
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	0.6 J	ND	ND
n-Propylbenzene	2	ND	ND	0.7 J	ND	ND
Propylene	ND	2	2	ND	ND	0.5
Styrene	ND	ND	ND	0.7 J	ND	ND
tert-Amyl methyl ether	ND	ND	ND	ND	ND	0.5 J
tert-Butyl Alcohol	ND	ND	ND	0.7	0.4 J	0.4 J
Tetrachloroethene	36	63	10	1	ND	2
Tetrahydrofuran	4	2	2	1	1	0.5 J
Toluene	3	ND	ND	3	0.4 J	0.8
Total Xylenes	13	ND	ND	4	ND	2 J
trans-1,2-Dichloroethene	ND	ND	ND	0.7 J	0.4 J	0.4 J
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
Trichloroethene	1200	2400	560	1	0.6 J	0.6 J
Trichlorofluoromethane	2	1	ND	2	2	2
Vinyl Acetate	1	ND	ND	ND	0.7 J	ND
Vinyl Bromide	ND	ND	ND	1	0.6 J	0.6 J
Vinyl Chloride	ND	ND	ND	0.5 J	0.3 J	0.3 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE101D					
Sample Date	09/16/10	12/22/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	ND	ND	ND	3	8	0.8 J
1,1,2,2-Tetrachloroethane	ND	ND	ND	3	0.9 J	1 J
1,1,2-Trichloroethane	ND	ND	ND	2	0.6 J	0.7 J
1,1-Dichloroethane	ND	ND	ND	2	0.9 J	0.5 J
1,1-Dichloroethene	ND	ND	ND	ND	0.7 J	0.4 J
1,2,3-Trichloropropane	ND	ND	ND	2	0.8 J	0.8 J
1,2,3-Trimethylbenzene	ND	ND	ND	4	1	1
1,2,4-Trichlorobenzene	ND	ND	ND	2 J	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	10	3	3
1,2-Dibromoethane	ND	ND	ND	3	ND	0.9 J
1,2-Dichlorobenzene	ND	ND	ND	2 J	ND	0.7 J
1,2-Dichloroethane	ND	ND	ND	2	0.5 J	0.5 J
1,2-Dichloropropane	ND	ND	ND	2	0.6 J	0.5 J
1,3,5-Trimethylbenzene	ND	ND	ND	3	0.9 J	1
1,3-Butadiene	ND	ND	ND	ND	0.4 J	0.5 J
1,3-Dichlorobenzene	ND	ND	ND	1 J	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	1 J	ND	ND
1,4-Dioxane	ND	ND	ND	1	ND	ND
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	ND	1	2	8	1	1
2-Hexanone	ND	ND	ND	2	0.7 J	0.5 J
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	ND	0.4 J	0.4 J
4-ethyltoluene	ND	ND	ND	3	0.8 J	1
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	19	10	10	36	4	9
alpha-Chlorotoluene	ND	ND	ND	2 J	ND	0.5 J
Acrylonitrile	ND	ND	ND	ND	0.4 J	ND
Benzene	ND	1	ND	4	0.5 J	0.5 J
Benzyl Chloride	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	3	0.9 J	0.8 J
Bromoform	ND	ND	ND	3 J	ND	1 J
Bromomethane	ND	ND	ND	2	0.6 J	0.5 J
Carbon Disulfide	ND	ND	ND	2	0.8	0.5 J
Carbon Tetrachloride	ND	ND	ND	4	1 J	1
Chlorobenzene	ND	ND	ND	2	0.5 J	0.6 J
Chlorodibromomethane	ND	ND	ND	3	0.9 J	1 J
Chloroethane	ND	ND	ND	ND	0.4 J	0.4 J
Chloroform	ND	ND	ND	2	7	0.7 J
Chloromethane	1	2	ND	3	0.4	1
cis-1,2-Dichloroethene	ND	3	ND	2	2	0.5 J
cis-1,3-Dichloropropene	ND	ND	ND	2	0.5 J	ND
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	ND	2	0.4 J	0.4 J
Dichlorodifluoromethane	2	3	ND	5	3	3
Diisopropyl ether	14	ND	ND	ND	ND	ND
Ethanol	7	5	11	29	1	3
Ethyl Acetate	12	ND	ND	ND	ND	0.5 J
Ethyl tert-butyl ether	ND	ND	ND	1	0.5 J	ND
Ethylbenzene	ND	ND	ND	4	0.8 J	0.9
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	4	2	ND	4	7	1 J
Freon 114	ND	ND	ND	3	1 J	1 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	ND	3	0.4 J	0.5 J
Hexachlorobutadiene	ND	ND	ND	ND	1 J	1 J
Hexane	30	2	2	18	2	0.8
iso-Octane	ND	ND	ND	4	0.7 J	0.6 J
Isopropylbenzene	ND	ND	ND	2	0.5 J	0.6 J
Isoproyl alcohol	9	1	4	9	1	0.9
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	2	0.4 J	3
Methyl-tert-Butyl-Ether	4	ND	ND	5	0.7	0.4 J
Methylene Chloride	150	7	4	84	8	2
MIBK	ND	ND	ND	4	0.5 J	0.5 J
Naphthalene	ND	ND	ND	3	0.8 J	0.9 J
n-Butane	ND	20	7	8	0.6	ND
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	2 J	0.6 J	ND
n-Propylbenzene	ND	ND	ND	2	0.7 J	0.8 J
Propylene	ND	ND	ND	ND	ND	0.4
Styrene	ND	ND	ND	1	ND	ND
tert-Amyl methyl ether	ND	ND	ND	2	0.5 J	0.5 J
tert-Butyl Alcohol	ND	ND	ND	2	0.5 J	0.5 J
Tetrachloroethene	ND	4	ND	26	210	2
Tetrahydrofuran	ND	ND	ND	7	1	1
Toluene	ND	2	3	12	0.9	1
Total Xylenes	ND	ND	ND	18	3	4
trans-1,2-Dichloroethene	ND	ND	ND	2	0.6 J	0.4 J
trans-1,3-Dichloropropene	ND	ND	ND	2	ND	ND
Trichloroethene	3	1	ND	3	120	1 J
Trichlorofluoromethane	ND	2	ND	4	3	2
Vinyl Acetate	ND	1	ND	ND	0.6 J	ND
Vinyl Bromide	ND	ND	ND	2	0.6 J	0.6 J
Vinyl Chloride	ND	ND	ND	1	0.4 J	0.3 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE102I					
Sample Date	09/16/10	12/22/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	3	ND	NA	2	3	2
1,1,2,2-Tetrachloroethane	ND	ND	NA	1 J	0.8 J	0.8 J
1,1,2-Trichloroethane	ND	ND	NA	1 J	0.6 J	0.6 J
1,1-Dichloroethane	ND	ND	NA	0.8 J	0.5 J	0.5 J
1,1-Dichloroethene	ND	ND	NA	0.7 J	0.4 J	0.4 J
1,2,3-Trichloropropane	ND	ND	NA	1 J	0.6 J	0.8 J
1,2,3-Trimethylbenzene	10	ND	NA	5	1	2
1,2,4-Trichlorobenzene	ND	ND	NA	1 J	ND	ND
1,2,4-Trimethylbenzene	35	1	NA	18	3	5
1,2-Dibromoethane	ND	ND	NA	1 J	ND	0.8 J
1,2-Dichlorobenzene	ND	ND	NA	0.8 J	ND	ND
1,2-Dichloroethane	ND	ND	NA	0.8	0.4 J	0.4 J
1,2-Dichloropropane	ND	ND	NA	0.9 J	0.6 J	0.6 J
1,3,5-Trimethylbenzene	7	ND	NA	4	0.8 J	1
1,3-Butadiene	ND	ND	NA	NA	0.3 J	ND
1,3-Dichlorobenzene	ND	ND	NA	0.7 J	ND	ND
1,4-Dichlorobenzene	ND	ND	NA	0.6 J	ND	ND
1,4-Dioxane	ND	ND	NA	0.8	ND	0.4 J
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	ND	1	NA	4	1	2
2-Hexanone	ND	ND	NA	0.9	0.6 J	0.5 J
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	NA	0.6 J	ND	ND
4-ethyltoluene	5	ND	NA	4	0.8 J	1
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	6	5	NA	14	4	7
alpha-Chlorotoluene	ND	ND	NA	0.7 J	ND	ND
Acrylonitrile	ND	ND	NA	0.5	0.4 J	ND
Benzene	ND	ND	NA	1	0.4 J	0.5 J
Benzyl Chloride	ND	ND	NA	ND	ND	ND
Bromodichloromethane	ND	ND	NA	2	0.8 J	0.7 J
Bromoform	ND	ND	NA	1 J	ND	1 J
Bromomethane	ND	ND	NA	0.8	0.5 J	0.5 J
Carbon Disulfide	ND	ND	NA	0.7	0.5 J	0.4 J
Carbon Tetrachloride	ND	ND	NA	2	1 J	1 J
Chlorobenzene	ND	ND	NA	0.9	ND	0.5 J
Chlorodibromomethane	ND	ND	NA	1 J	ND	0.9 J
Chloroethane	ND	ND	NA	0.6	0.4 J	0.3 J
Chloroform	4	ND	NA	3	5	4
Chloromethane	ND	0.9	NA	1	0.4	0.4
cis-1,2-Dichloroethene	ND	ND	NA	0.7 J	0.5 J	0.5 J
cis-1,3-Dichloropropene	ND	ND	NA	0.7 J	ND	ND
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	NA	0.6 J	ND	0.4 J
Dichlorodifluoromethane	ND	2	NA	3	2	2
Diisopropyl ether	ND	ND	NA	NA	ND	ND
Ethanol	2	3	NA	8	2	4
Ethyl Acetate	ND	ND	NA	NA	ND	ND
Ethyl tert-butyl ether	ND	ND	NA	0.7 J	ND	ND
Ethylbenzene	3	ND	NA	4	0.8 J	1
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	ND	NA	2	1 J	1 J
Freon 114	ND	ND	NA	2	1 J	1 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	NA	1	ND	0.5 J
Hexachlorobutadiene	ND	ND	NA	3	1 J	1 J
Hexane	ND	1	NA	1	0.8	0.8
iso-Octane	ND	ND	NA	1	0.6 J	0.6 J
Isopropylbenzene	ND	ND	NA	1	ND	0.6 J
Isoproyl alcohol	ND	0.6	NA	2	1	0.8
m,p-Xylene	NR	NR	NA	NR	NR	NR
Methyl Methacrylate	ND	ND	NA	0.6 J	ND	ND
Methyl-tert-Butyl-Ether	ND	ND	NA	0.7	0.5 J	0.4 J
Methylene Chloride	ND	6	NA	4	3	3
MIBK	ND	ND	NA	0.8 J	ND	ND
Naphthalene	3	ND	NA	5	0.8 J	1
n-Butane	4	2	NA	1	0.4 J	ND
o-Xylene	NR	NR	NA	NR	NR	NR
p-Isopropyltoluene	ND	ND	NA	1 J	ND	ND
n-Propylbenzene	3	ND	NA	2	0.6 J	0.9 J
Propylene	ND	ND	NA	ND	ND	ND
Styrene	ND	ND	NA	0.7 J	ND	ND
tert-Amyl methyl ether	ND	ND	NA	0.7 J	ND	0.4 J
tert-Butyl Alcohol	ND	ND	NA	1	0.5 J	0.5 J
Tetrachloroethene	6	NR	NA	3	6	6
Tetrahydrofuran	6	0.6	NA	5	1	1
Toluene	3	1	NA	4	0.8	1
Total Xylenes	22	ND	NA	20	3	6
trans-1,2-Dichloroethene	ND	ND	NA	0.7 J	0.4 J	0.4 J
trans-1,3-Dichloropropene	ND	ND	NA	0.7 J	ND	ND
Trichloroethene	88	3	NA	34	76	52
Trichlorofluoromethane	ND	1	NA	2	2	2
Vinyl Acetate	ND	ND	NA	ND	0.6 J	ND
Vinyl Bromide	ND	ND	NA	1	0.6 J	0.6 J
Vinyl Chloride	ND	ND	NA	0.5 J	0.4 J	0.3 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE102D					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	7	2	2	6	4	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	1 J	0.9 J	1 J
1,1,2-Trichloroethane	ND	ND	ND	1 J	0.6 J	0.8 J
1,1-Dichloroethane	ND	ND	ND	1	0.6 J	0.7 J
1,1-Dichloroethene	ND	ND	ND	1	0.6 J	0.6 J
1,2,3-Trichloropropane	ND	ND	ND	ND	0.7 J	0.9 J
1,2,3-Trimethylbenzene	5	ND	ND	7	1	2
1,2,4-Trichlorobenzene	ND	ND	ND	2 J	ND	0.8 J
1,2,4-Trimethylbenzene	18	2	2	22	4	6
1,2-Dibromoethane	ND	ND	ND	1 J	ND	1 J
1,2-Dichlorobenzene	ND	ND	ND	1 J	ND	0.8 J
1,2-Dichloroethane	ND	ND	ND	0.9	0.5 J	0.5 J
1,2-Dichloropropane	ND	ND	ND	1	0.6 J	0.6 J
1,3,5-Trimethylbenzene	4	ND	ND	4	ND	1
1,3-Butadiene	1	ND	ND	ND	0.3 J	0.4 J
1,3-Dichlorobenzene	ND	ND	ND	0.8 J	ND	0.7 J
1,4-Dichlorobenzene	ND	ND	ND	0.8 J	ND	0.6 J
1,4-Dioxane	ND	ND	ND	1	ND	0.6 J
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	4	0.9	0.7	5	1	1
2-Hexanone	ND	ND	ND	0.9 J	0.6 J	0.6 J
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	0.7 J	0.4 J	ND
4-ethyltoluene	3	ND	ND	4	1	1
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	10	8	6	12	4	4
alpha-Chlorotoluene	ND	ND	ND	0.9 J	ND	0.6 J
Acrylonitrile	ND	ND	ND	0.5	0.4 J	ND
Benzene	ND	ND	ND	1	0.5 J	0.9
Benzyl Chloride	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	2	0.9 J	1 J
Bromoform	ND	ND	ND	2 J	ND	1 J
Bromomethane	ND	ND	ND	1	0.6 J	0.5 J
Carbon Disulfide	ND	ND	ND	0.9	0.5 J	0.5 J
Carbon Tetrachloride	ND	ND	ND	2	2	2
Chlorobenzene	ND	ND	ND	1 J	ND	0.7 J
Chlorodibromomethane	ND	ND	ND	2 J	0.9 J	1 J
Chloroethane	ND	ND	ND	0.7	0.4 J	0.4 J
Chloroform	11	2	3	9	14	17
Chloromethane	ND	1	0.6	1	0.4	0.4
cis-1,2-Dichloroethene	ND	0.9	ND	1	0.5 J	0.9
cis-1,3-Dichloropropene	ND	ND	ND	0.9 J	ND	0.6 J
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	ND	0.7 J	0.5 J	0.4 J
Dichlorodifluoromethane	2	3	2	4	3	3
Diisopropyl ether	ND	ND	ND	ND	ND	ND
Ethanol	5	3	4	3	1	1
Ethyl Acetate	ND	ND	ND	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	ND	0.8 J	0.4 J	0.5 J
Ethylbenzene	3	ND	ND	4	ND	1
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	ND	ND	3	2	2
Freon 114	ND	ND	ND	2	1 J	1 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	ND	1	0.4 J	0.6 J
Hexachlorobutadiene	ND	ND	ND	3	1 J	2 J
Hexane	1	ND	ND	1	0.8	0.5 J
iso-Octane	ND	ND	ND	1	1	0.7 J
Isopropylbenzene	ND	ND	ND	1	0.5 J	0.8 J
Isoproyl alcohol	1	ND	ND	2	1	1
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	0.8 J	0.4 J	0.4 J
Methyl-tert-Butyl-Ether	ND	ND	ND	0.9	0.5 J	0.4 J
Methylene Chloride	7	2	ND	4	2	0.9
MIBK	ND	ND	ND	1	0.4 J	0.4 J
Naphthalene	3	ND	ND	6	3	2
n-Butane	ND	2	ND	2	2	ND
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	1	ND	0.7 J
n-Propylbenzene	ND	ND	ND	3	0.7 J	1
Propylene	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	0.8 J	ND	0.5 J
tert-Amyl methyl ether	ND	ND	ND	0.9 J	0.5 J	0.5 J
tert-Butyl Alcohol	ND	ND	ND	1	0.4 J	0.6
Tetrachloroethene	19	3	9	25	23	39
Tetrahydrofuran	36	7	3	6	1	1
Toluene	3	ND	ND	4	0.8	2
Total Xylenes	15	ND	ND	22	2 J	7
trans-1,2-Dichloroethene	ND	ND	ND	1	0.5 J	0.5 J
trans-1,3-Dichloropropene	ND	ND	ND	0.8 J	ND	0.5 J
Trichloroethene	110	17	21	89	81	87
Trichlorofluoromethane	5	2	6	9	12	13
Vinyl Acetate	ND	ND	ND	2	ND	ND
Vinyl Bromide	ND	ND	ND	1	0.6 J	0.6 J
Vinyl Chloride	ND	ND	ND	0.6	0.4 J	0.3 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE103I					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	ND	ND	ND	0.9 J	6	6
1,1,2,2-Tetrachloroethane	ND	ND	ND	1 J	0.9 J	ND
1,1,2-Trichloroethane	ND	ND	ND	0.7 J	0.7 J	ND
1,1-Dichloroethane	ND	ND	ND	0.6 J	2	2
1,1-Dichloroethene	ND	ND	ND	0.6 J	0.6 J	ND
1,2,3-Trichloropropane	ND	ND	ND	0.9 J	0.8 J	0.6 J
1,2,3-Trimethylbenzene	ND	ND	ND	4	1	2
1,2,4-Trichlorobenzene	ND	ND	ND	1 J	ND	ND
1,2,4-Trimethylbenzene	2	ND	1	14	3	5
1,2-Dibromoethane	ND	ND	ND	0.9 J	0.8 J	ND
1,2-Dichlorobenzene	ND	ND	ND	0.7 J	ND	ND
1,2-Dichloroethane	ND	ND	ND	0.7 J	0.5 J	ND
1,2-Dichloropropane	ND	ND	ND	0.7 J	0.6 J	ND
1,3,5-Trimethylbenzene	ND	ND	ND	2	0.9 J	1
1,3-Butadiene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	0.5 J	0.6 J	0.4 J
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	2	ND	ND	4	1	1
2-Hexanone	ND	ND	ND	0.6 J	0.5 J	ND
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	0.4 J	0.4 J	ND
4-ethyltoluene	ND	ND	ND	3	0.8 J	1
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	13	6	6	17	4	3
alpha-Chlorotoluene	ND	ND	ND	0.6 J	ND	ND
Acrylonitrile	ND	ND	ND	0.4 J	0.4 J	ND
Benzene	2	ND	ND	1	0.6 J	0.5 J
Benzyl Chloride	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	1 J	0.8 J	ND
Bromoform	ND	ND	ND	1 J	1 J	ND
Bromomethane	ND	ND	ND	0.6 J	0.6 J	0.4 J
Carbon Disulfide	ND	ND	ND	0.6 J	0.6 J	0.5 J
Carbon Tetrachloride	ND	ND	ND	1	1 J	0.9 J
Chlorobenzene	ND	ND	ND	0.6 J	0.5 J	0.5 J
Chlorodibromomethane	ND	ND	ND	1 J	0.9 J	ND
Chloroethane	ND	ND	ND	0.5 J	0.5 J	0.3 J
Chloroform	ND	ND	ND	0.8 J	3	2
Chloromethane	1	1	1	1	0.4	0.4 J
cis-1,2-Dichloroethene	1	ND	1	0.5 J	16	12
cis-1,3-Dichloropropene	ND	ND	ND	0.5 J	ND	ND
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	1	ND	ND	0.8	0.5 J	ND
Dichlorodifluoromethane	3	2	2	3	2	2
Diisopropyl ether	3	ND	ND	ND	ND	ND
Ethanol	17	3	6	14	2	1
Ethyl Acetate	3	ND	ND	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	ND	0.6 J	0.5 J	ND
Ethylbenzene	1	ND	ND	3	0.8 J	1
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	ND	ND	2	2	1 J
Freon 114	ND	ND	ND	1 J	1 J	0.8 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	2	ND	ND	1	0.5 J	ND
Hexachlorobutadiene	ND	ND	ND	2 J	1 J	1 J
Hexane	6	ND	ND	3	1	0.6 J
iso-Octane	2	ND	ND	1	0.7 J	0.5 J
Isopropylbenzene	ND	ND	ND	0.8 J	0.6 J	ND
Isoproyl alcohol	4	ND	3	2	1	0.5 J
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	0.5 J	0.4 J	ND
Methyl-tert-Butyl-Ether	1	ND	ND	0.7 J	0.7 J	0.6 J
Methylene Chloride	29	ND	2	8	4	1
MIBK	ND	ND	ND	ND	0.5 J	ND
Naphthalene	ND	ND	ND	7	0.9 J	2
n-Butane	3	1	1	3	0.6	ND
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	0.9 J	0.6 J	ND
n-Propylbenzene	ND	ND	ND	2	0.7 J	0.9 J
Propylene	ND	ND	ND	2	ND	ND
Styrene	ND	ND	ND	0.6 J	ND	ND
tert-Amyl methyl ether	ND	ND	ND	0.6 J	0.5 J	ND
tert-Butyl Alcohol	ND	ND	ND	0.8	0.7	0.9
Tetrachloroethene	ND	ND	2	1 J	420	590
Tetrahydrofuran	1	ND	ND	4	1	1
Toluene	6	ND	1	6	0.9	1
Total Xylenes	6	ND	ND	15	3	5
trans-1,2-Dichloroethene	ND	ND	ND	0.6 J	1	1
trans-1,3-Dichloropropene	ND	ND	ND	0.5 J	ND	ND
Trichloroethene	ND	ND	ND	0.9 J	100	97
Trichlorofluoromethane	2	ND	1	2	2	2
Vinyl Acetate	3	ND	ND	ND	ND	ND
Vinyl Bromide	ND	ND	ND	0.7 J	0.7 J	ND
Vinyl Chloride	ND	ND	ND	0.4 J	0.4 J	0.3 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE103D					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	ND	13	ND	2 J	20	31
1,1,2,2-Tetrachloroethane	ND	ND	ND	2 J	2 J	12 J
1,1,2-Trichloroethane	ND	ND	ND	1 J	2 J	10 J
1,1-Dichloroethane	ND	2	2	1 J	4	9
1,1-Dichloroethene	ND	ND	ND	1 J	2	6 J
1,2,3-Trichloropropane	ND	ND	ND	2 J	2 J	11 J
1,2,3-Trimethylbenzene	5	ND	2	4	ND	7 J
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	9 J
1,2,4-Trimethylbenzene	8	2	7	12	ND	9 J
1,2-Dibromoethane	ND	ND	ND	2 J	2 J	11 J
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	9 J
1,2-Dichloroethane	ND	ND	ND	1 J	1 J	6 J
1,2-Dichloropropane	ND	ND	ND	1 J	1 J	8 J
1,3,5-Trimethylbenzene	ND	ND	2	3	ND	8 J
1,3-Butadiene	ND	ND	ND	1	0.8 J	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8 J
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8 J
1,4-Dioxane	ND	ND	ND	0.9 J	1	6 J
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	4	1	4	5	2	6 J
2-Hexanone	ND	ND	ND	1 J	1 J	5 J
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	0.8 J	1 J	4 J
4-ethyltoluene	ND	ND	ND	3	ND	8 J
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	10	6	21	19	9	10
alpha-Chlorotoluene	ND	ND	ND	ND	ND	8 J
Acrylonitrile	ND	ND	ND	0.5 J	0.8 J	ND
Benzene	ND	ND	12	1	1 J	6 J
Benzyl Chloride	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	2 J	2 J	ND
Bromoform	ND	ND	ND	ND	2 J	14 J
Bromomethane	ND	ND	ND	1 J	1 J	6 J
Carbon Disulfide	ND	ND	ND	1 J	1 J	6 J
Carbon Tetrachloride	ND	ND	ND	2 J	2 J	12 J
Chlorobenzene	ND	ND	ND	1 J	1 J	8 J
Chlorodibromomethane	ND	ND	ND	2 J	2 J	14 J
Chloroethane	ND	ND	ND	0.9 J	1 J	5 J
Chloroform	ND	1	ND	1 J	6	29
Chloromethane	3	0.7	1	2	0.9	4 J
cis-1,2-Dichloroethene	ND	92	ND	1 J	360	160
cis-1,3-Dichloropropene	ND	ND	ND	ND	1 J	6 J
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	5	1 J	0.9 J	5 J
Dichlorodifluoromethane	6	2	2	4	3	10
Diisopropyl ether	5	ND	ND	ND	1 J	6 J
Ethanol	6	5	56	10	2	9
Ethyl Acetate	5	ND	ND	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	ND	1 J	1 J	5 J
Ethylbenzene	ND	ND	8	3	0.9 J	7 J
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	10	10	3 J	12	20
Freon 114	ND	ND	ND	2 J	2 J	12 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	8	1 J	1 J	5 J
Hexachlorobutadiene	ND	ND	ND	4 J	3 J	18 J
Hexane	3	1	20	2	3	6 J
iso-Octane	ND	ND	ND	1 J	1 J	8 J
Isopropylbenzene	ND	ND	ND	1 J	1 J	8 J
Isoproyl alcohol	5	ND	5	2	2	5 J
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	1 J	1 J	5 J
Methyl-tert-Butyl-Ether	ND	ND	ND	1 J	2	6 J
Methylene Chloride	7	3	4	4	19	11
MIBK	ND	ND	ND	1 J	1 J	6 J
Naphthalene	ND	ND	ND	3	ND	5 J
n-Butane	2	2	67	2	2	ND
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	1 J	ND	7 J
n-Propylbenzene	ND	ND	1	2	ND	6 J
Propylene	ND	ND	9	2	ND	ND
Styrene	ND	ND	ND	ND	ND	5 J
tert-Amyl methyl ether	ND	ND	ND	1 J	1 J	6 J
tert-Butyl Alcohol	3	ND	ND	1 J	0.9 J	5 J
Tetrachloroethene	9	1500	ND	3	1600	6700
Tetrahydrofuran	4	1	ND	6	2	6
Toluene	4	2	40	4	0.9 J	6 J
Total Xylenes	ND	ND	34	16	3 J	21 J
trans-1,2-Dichloroethene	ND	1	ND	1 J	3	7 J
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	5 J
Trichloroethene	7	92	ND	2 J	290	240
Trichlorofluoromethane	6	1	3	3	3	11
Vinyl Acetate	4	ND	ND	ND	ND	ND
Vinyl Bromide	ND	ND	ND	2 J	1 J	8 J
Vinyl Chloride	ND	2	ND	0.8 J	4	5 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE104I					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	4	NR	NA	1 J	4	2
1,1,2,2-Tetrachloroethane	ND	ND	NA	1 J	0.7 J	ND
1,1,2-Trichloroethane	ND	ND	NA	1 J	ND	ND
1,1-Dichloroethane	ND	ND	NA	1 J	0.6 J	0.5 J
1,1-Dichloroethene	ND	ND	NA	1 J	ND	ND
1,2,3-Trichloropropane	ND	ND	NA	1 J	ND	ND
1,2,3-Trimethylbenzene	4	ND	NA	ND	ND	0.7 J
1,2,4-Trichlorobenzene	ND	ND	NA	ND	ND	ND
1,2,4-Trimethylbenzene	12	1	NA	ND	ND	2
1,2-Dibromoethane	ND	ND	NA	2 J	ND	ND
1,2-Dichlorobenzene	ND	ND	NA	ND	ND	ND
1,2-Dichloroethane	ND	ND	NA	1 J	ND	ND
1,2-Dichloropropane	ND	ND	NA	1 J	ND	ND
1,3,5-Trimethylbenzene	3	ND	NA	ND	ND	0.5 J
1,3-Butadiene	ND	ND	NA	1	0.4 J	ND
1,3-Dichlorobenzene	ND	ND	NA	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	NA	ND	ND	ND
1,4-Dioxane	ND	ND	NA	0.8 J	0.4 J	ND
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	3	0.6	NA	3	1	0.8
2-Hexanone	ND	ND	NA	0.9 J	ND	ND
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	NA	0.9	0.3 J	ND
4-ethyltoluene	2	ND	NA	ND	ND	ND
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	11	3	NA	21	5	5
alpha-Chlorotoluene	ND	ND	NA	ND	ND	ND
Acrylonitrile	ND	ND	NA	0.6 J	0.3 J	ND
Benzene	1	ND	NA	1 J	0.4 J	0.4 J
Benzyl Chloride	ND	ND	NA	ND	ND	ND
Bromodichloromethane	ND	ND	NA	2 J	0.8 J	ND
Bromoform	ND	ND	NA	ND	ND	ND
Bromomethane	ND	ND	NA	1 J	0.4 J	ND
Carbon Disulfide	ND	ND	NA	1 J	0.5 J	0.5 J
Carbon Tetrachloride	ND	ND	NA	2 J	1 J	1 J
Chlorobenzene	ND	ND	NA	1 J	0.5 J	ND
Chlorodibromomethane	ND	ND	NA	2 J	ND	ND
Chloroethane	ND	ND	NA	0.9 J	0.3 J	ND
Chloroform	2	ND	NA	1 J	3	1
Chloromethane	ND	0.5	NA	2	0.5	0.8
cis-1,2-Dichloroethene	2	0.8	NA	0.9 J	2	3
cis-1,3-Dichloropropene	ND	ND	NA	1 J	ND	ND
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	0.8	ND	NA	1 J	ND	ND
Dichlorodifluoromethane	2	2	NA	3	2	2
Diisopropyl ether	5	ND	NA	ND	ND	ND
Ethanol	19	1	NA	12	2	3
Ethyl Acetate	5	ND	NA	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	NA	1 J	ND	ND
Ethylbenzene	2	ND	NA	1 J	0.6 J	0.6 J
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	ND	NA	3 J	2	2
Freon 114	ND	ND	NA	2 J	0.9 J	0.7 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	1	ND	NA	1 J	ND	ND
Hexachlorobutadiene	ND	ND	NA	2 J	ND	ND
Hexane	10	ND	NA	12	0.5 J	0.4 J
iso-Octane	ND	ND	NA	1 J	0.5 J	0.5 J
Isopropylbenzene	ND	ND	NA	1 J	ND	ND
Isoproyl alcohol	6	ND	NA	7	0.7	0.5
m,p-Xylene	NR	NR	NA	NR	NR	NR
Methyl Methacrylate	ND	ND	NA	0.9 J	ND	ND
Methyl-tert-Butyl-Ether	1	ND	NA	4	ND	ND
Methylene Chloride	51	ND	NA	65	1	0.9
MIBK	ND	ND	NA	1 J	ND	ND
Naphthalene	ND	ND	NA	ND	ND	0.7 J
n-Butane	2	0.6	NA	2	0.5 J	ND
o-Xylene	NR	NR	NA	NR	NR	NR
p-Isopropyltoluene	ND	ND	NA	ND	ND	ND
n-Propylbenzene	1	ND	NA	ND	ND	ND
Propylene	ND	ND	NA	ND	ND	0.4
Styrene	ND	ND	NA	ND	ND	ND
tert-Amyl methyl ether	ND	ND	NA	1 J	ND	ND
tert-Butyl Alcohol	ND	ND	NA	0.9 J	0.3 J	0.3 J
Tetrachloroethene	96	16	NA	2 J	54	33
Tetrahydrofuran	4	1	NA	1	1	0.8
Toluene	7	ND	NA	2	1	0.6 J
Total Xylenes	12	ND	NA	3 J	3	2 J
trans-1,2-Dichloroethene	ND	ND	NA	1 J	0.5 J	0.4 J
trans-1,3-Dichloropropene	ND	ND	NA	ND	ND	ND
Trichloroethene	72	12	NA	2 J	44	25
Trichlorofluoromethane	2	ND	NA	3	2	2
Vinyl Acetate	2	ND	NA	ND	ND	0.5 J
Vinyl Bromide	ND	ND	NA	1 J	0.5 J	ND
Vinyl Chloride	ND	ND	NA	0.7 J	0.3 J	0.3 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE104D					
Sample Date	09/16/10	12/22/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	ND	270	ND	370	620	440
1,1,2,2-Tetrachloroethane	ND	ND	ND	1 J	ND	9 J
1,1,2-Trichloroethane	ND	ND	ND	2 J	7 J	7 J
1,1-Dichloroethane	ND	66	ND	56	110	77
1,1-Dichloroethene	ND	ND	ND	3	7 J	7 J
1,2,3-Trichloropropane	ND	ND	ND	2 J	7 J	7 J
1,2,3-Trimethylbenzene	ND	ND	ND	7	ND	6 J
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3	ND	ND	21	ND	7 J
1,2-Dibromoethane	ND	ND	ND	2 J	ND	9 J
1,2-Dichlorobenzene	ND	ND	ND	1 J	ND	7 J
1,2-Dichloroethane	ND	ND	ND	1 J	5 J	5 J
1,2-Dichloropropane	ND	ND	ND	2 J	6 J	5 J
1,3,5-Trimethylbenzene	ND	ND	ND	4	ND	5 J
1,3-Butadiene	ND	ND	ND	ND	3 J	ND
1,3-Dichlorobenzene	ND	ND	ND	1 J	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	2	9	4 J
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	ND	ND	ND	7	5 J	3 J
2-Hexanone	ND	ND	ND	1 J	8	ND
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	1 J	4 J	ND
4-ethyltoluene	ND	ND	ND	4	ND	5 J
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	10	ND	6	26	10	8
alpha-Chlorotoluene	ND	ND	ND	1 J	ND	5 J
Acrylonitrile	ND	ND	ND	0.8 J	4	ND
Benzene	ND	ND	ND	2	4 J	4 J
Benzyl Chloride	ND	ND	ND	1 J	ND	ND
Bromodichloromethane	ND	ND	ND	2 J	8 J	7 J
Bromoform	ND	ND	ND	3 J	ND	11 J
Bromomethane	ND	ND	ND	1 J	6 J	5 J
Carbon Disulfide	ND	ND	ND	1	5 J	4 J
Carbon Tetrachloride	ND	ND	ND	3	9 J	8 J
Chlorobenzene	ND	ND	ND	1 J	ND	5 J
Chlorodibromomethane	ND	ND	ND	2 J	9 J	10 J
Chloroethane	ND	ND	ND	1 J	4 J	4 J
Chloroform	ND	ND	ND	3	10	9 J
Chloromethane	0.9	ND	ND	2	3 J	3 J
cis-1,2-Dichloroethene	ND	1200	ND	1000	3600	2100
cis-1,3-Dichloropropene	ND	ND	ND	1 J	ND	ND
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	ND	2	4 J	ND
Dichlorodifluoromethane	2	ND	ND	4	9 J	8 J
Diisopropyl ether	ND	ND	ND	ND	ND	ND
Ethanol	4	4	6	20	10	ND
Ethyl Acetate	ND	ND	ND	ND	6 J	ND
Ethyl tert-butyl ether	ND	ND	ND	1 J	4 J	ND
Ethylbenzene	ND	ND	ND	4	ND	5 J
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	560	560	280	260	550
Freon 114	ND	ND	ND	2 J	10 J	9 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	ND	2	5 J	5 J
Hexachlorobutadiene	ND	ND	ND	5	ND	14 J
Hexane	2	ND	2	7	5 J	4 J
iso-Octane	ND	ND	ND	3	7 J	6 J
Isopropylbenzene	ND	ND	ND	2 J	ND	6 J
Isoproyl alcohol	1	ND	ND	7	6	4 J
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	1 J	4 J	ND
Methyl-tert-Butyl-Ether	ND	ND	ND	3	4 J	4 J
Methylene Chloride	6	ND	14	28	9	6 J
MIBK	ND	ND	ND	1 J	5 J	ND
Naphthalene	ND	ND	ND	7	ND	5 J
n-Butane	ND	ND	3	5	4 J	ND
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	2 J	ND	ND
n-Propylbenzene	ND	ND	ND	3	ND	ND
Propylene	ND	ND	ND	ND	ND	3 J
Styrene	ND	ND	ND	1 J	ND	ND
tert-Amyl methyl ether	ND	ND	ND	1 J	5 J	4 J
tert-Butyl Alcohol	ND	ND	ND	2	4 J	3 J
Tetrachloroethene	ND	2400	ND	1400	5800	6300
Tetrahydrofuran	ND	ND	ND	7	4 J	3 J
Toluene	ND	ND	ND	8	4 J	4 J
Total Xylenes	ND	ND	ND	20	ND	14 J
trans-1,2-Dichloroethene	ND	13	ND	14	25	22
trans-1,3-Dichloropropene	ND	ND	ND	1 J	ND	ND
Trichloroethene	ND	470	ND	420	1600	1300
Trichlorofluoromethane	ND	ND	ND	3	9 J	7 J
Vinyl Acetate	ND	ND	ND	ND	5 J	4 J
Vinyl Bromide	ND	ND	ND	2 J	6 J	ND
Vinyl Chloride	ND	ND	ND	2	5	5 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE105I					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	ND	24	1	1 J	21	31
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.8 J	1 J	0.9 J
1,1,2-Trichloroethane	ND	ND	ND	0.7 J	0.8 J	0.9 J
1,1-Dichloroethane	ND	6	ND	0.6 J	5	7
1,1-Dichloroethene	ND	ND	ND	0.6 J	0.6 J	0.5 J
1,2,3-Trichloropropane	ND	ND	ND	0.7 J	0.8 J	0.9 J
1,2,3-Trimethylbenzene	14	ND	1	0.7 J	1	2
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1 J
1,2,4-Trimethylbenzene	44	3	4	1	3	7
1,2-Dibromoethane	ND	ND	ND	0.9 J	ND	0.8 J
1,2-Dichlorobenzene	ND	ND	ND	0.9 J	ND	0.8 J
1,2-Dichloroethane	ND	ND	ND	0.7 J	0.6 J	0.5 J
1,2-Dichloropropane	ND	ND	ND	0.7 J	0.5 J	0.6 J
1,3,5-Trimethylbenzene	10	ND	1	2	0.9 J	1
1,3-Butadiene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.7 J
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.7 J
1,4-Dioxane	ND	ND	ND	0.7 J	0.7 J	0.6 J
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	4	1	6	6	2	1
2-Hexanone	ND	ND	ND	0.7 J	0.6 J	0.4 J
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	0.4 J	ND	ND
4-ethyltoluene	7	ND	ND	3	0.8 J	1
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	11	3	15	27	9	4
alpha-Chlorotoluene	ND	ND	ND	0.5 J	ND	0.7 J
Acrylonitrile	ND	ND	ND	0.3 J	0.4 J	ND
Benzene	ND	ND	4	1	0.6 J	0.6 J
Benzyl Chloride	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	1 J	1 J	0.9 J
Bromoform	ND	ND	ND	1 J	1 J	1 J
Bromomethane	ND	ND	ND	0.8	0.6 J	0.5 J
Carbon Disulfide	ND	ND	ND	0.9	0.6 J	0.6 J
Carbon Tetrachloride	ND	ND	ND	1	1 J	1
Chlorobenzene	ND	ND	ND	0.6 J	0.5 J	0.6 J
Chlorodibromomethane	ND	ND	ND	1 J	0.9 J	1 J
Chloroethane	ND	ND	ND	0.7	0.4 J	0.4 J
Chloroform	ND	2	ND	0.9 J	4	3
Chloromethane	0.9	ND	ND	3	0.5	0.4
cis-1,2-Dichloroethene	ND	ND	ND	1	10	16
cis-1,3-Dichloropropene	ND	13	ND	0.5 J	ND	0.5 J
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	3	0.7 J	0.6 J	0.5 J
Dichlorodifluoromethane	2	2	2	3	2	3
Diisopropyl ether	ND	ND	ND	ND	0.6 J	ND
Ethanol	5	1	37	19	3	2
Ethyl Acetate	ND	ND	2	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	ND	0.5 J	0.5 J	0.4 J
Ethylbenzene	4	ND	3	3	0.9	1
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	2	ND	2	3	3
Freon 114	ND	ND	ND	1 J	1 J	1 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	3	3	0.5 J	0.5 J
Hexachlorobutadiene	ND	ND	ND	2 J	1 J	2 J
Hexane	2	ND	11	2	1	0.5 J
iso-Octane	ND	ND	4	1	0.7 J	0.7 J
Isopropylbenzene	ND	ND	ND	0.8 J	0.6 J	0.8 J
Isoproyl alcohol	ND	ND	6	9	2	7
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	0.6 J	0.5 J	0.4 J
Methyl-tert-Butyl-Ether	ND	ND	1	0.7 J	0.7 J	0.4 J
Methylene Chloride	6	0.8	48	7	5	1
MIBK	ND	ND	ND	0.8 J	0.6 J	0.5 J
Naphthalene	3	ND	1	6	0.8 J	8
n-Butane	0.5	ND	23	2	0.6	ND
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	0.9 J	0.6 J	0.7 J
n-Propylbenzene	4	ND	ND	2	0.7 J	1
Propylene	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	0.5 J	ND	0.5 J
tert-Amyl methyl ether	ND	ND	ND	0.5 J	0.5 J	0.5 J
tert-Butyl Alcohol	1	ND	ND	4	0.6 J	0.4 J
Tetrachloroethene	ND	55	5	2	95	100
Tetrahydrofuran	5	2	ND	4	2	2
Toluene	4	ND	14	5	2	1
Total Xylenes	28	ND	11	17	4	6
trans-1,2-Dichloroethene	ND	ND	ND	0.5 J	1	1
trans-1,3-Dichloropropene	ND	ND	ND	0.5 J	ND	0.5 J
Trichloroethene	ND	120	7	1	170	200
Trichlorofluoromethane	1	1	2	2	2	2
Vinyl Acetate	ND	ND	ND	3	ND	ND
Vinyl Bromide	ND	ND	ND	0.7 J	ND	0.6 J
Vinyl Chloride	ND	ND	ND	0.4 J	0.4 J	0.3 J

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE105D					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	12/02/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	1000	590	ND	1 J	490	930
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.9 J	8 J	ND
1,1,2-Trichloroethane	ND	ND	ND	0.8 J	6 J	ND
1,1-Dichloroethane	250	ND	ND	0.6 J	74	150
1,1-Dichloroethene	2	4	4	0.6 J	6 J	ND
1,2,3-Trichloropropane	ND	ND	ND	0.9 J	7 J	ND
1,2,3-Trimethylbenzene	8	ND	ND	3	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	30	4	2	8	ND	ND
1,2-Dibromoethane	ND	ND	ND	1 J	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	4	ND	ND
1,2-Dichloroethane	ND	ND	ND	4	5 J	ND
1,2-Dichloropropane	ND	ND	ND	0.7 J	5 J	ND
1,3,5-Trimethylbenzene	6	ND	ND	2	ND	ND
1,3-Butadiene	ND	ND	ND	0.4	3 J	ND
1,3-Dichlorobenzene	ND	ND	ND	0.6 J	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	0.7 J	ND	ND
1,4-Dioxane	ND	ND	ND	0.8	ND	ND
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	7	2	2	4	6 J	ND
2-Hexanone	ND	ND	ND	0.7 J	7 J	ND
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	0.5 J	3 J	ND
4-ethyltoluene	5	ND	ND	2	ND	ND
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	35	5	11	22	10	5
alpha-Chlorotoluene	ND	ND	ND	0.7 J	ND	ND
Acrylonitrile	ND	ND	ND	0.4 J	4 J	ND
Benzene	ND	1	3	1	4 J	ND
Benzyl Chloride	ND	ND	ND	ND	ND	ND
Bromodichloromethane	6	ND	ND	1 J	8 J	ND
Bromoform	ND	ND	ND	1 J	ND	ND
Bromomethane	ND	ND	ND	0.6 J	6 J	ND
Carbon Disulfide	ND	ND	ND	0.8	4 J	ND
Carbon Tetrachloride	3	6	ND	1	10 J	ND
Chlorobenzene	ND	ND	ND	1	ND	ND
Chlorodibromomethane	ND	ND	ND	1 J	9 J	ND
Chloroethane	1	1	ND	0.5 J	4 J	ND
Chloroform	ND	4	ND	0.8 J	10 J	3 J
Chloromethane	1	ND	ND	2	3 J	ND
cis-1,2-Dichloroethene	300	ND	ND	0.7 J	150	380
cis-1,3-Dichloropropene	ND	ND	ND	0.6 J	ND	ND
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	1	0.8	ND	ND
Dichlorodifluoromethane	2	5	2	3	9 J	3 J
Diisopropyl ether	2	ND	ND	ND	ND	ND
Ethanol	8	2	26	12	10	10
Ethyl Acetate	2	ND	ND	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	ND	0.6 J	4 J	ND
Ethylbenzene	4	ND	2	3	ND	ND
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	81	89	ND	2	62	40
Freon 114	ND	ND	ND	1 J	10 J	ND
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	1	0.9	5 J	ND
Hexachlorobutadiene	ND	ND	ND	2 J	ND	ND
Hexane	5	2	5	2	4 J	ND
iso-Octane	ND	ND	2	1	7 J	ND
Isopropylbenzene	ND	ND	ND	0.8 J	ND	ND
Isoproyl alcohol	2	ND	2	2	6	ND
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	0.7 J	4 J	ND
Methyl-tert-Butyl-Ether	ND	ND	ND	0.7 J	4 J	ND
Methylene Chloride	16	5	2	6	8	3 J
MIBK	ND	ND	ND	0.8 J	5 J	ND
Naphthalene	9	ND	ND	4	ND	ND
n-Butane	ND	2	13	2	4 J	ND
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	0.8 J	ND	ND
n-Propylbenzene	3	ND	ND	1	ND	ND
Propylene	2	ND	1	ND	ND	ND
Styrene	ND	ND	ND	0.7 J	ND	ND
tert-Amyl methyl ether	ND	ND	ND	0.6 J	5 J	ND
tert-Butyl Alcohol	3	ND	ND	0.9	4 J	ND
Tetrachloroethene	270	420	ND	2	240	330
Tetrahydrofuran	6	3	2	3	5 J	2 J
Toluene	3	2	8	14	4 J	ND
Total Xylenes	22	ND	10	20	ND	ND
trans-1,2-Dichloroethene	3	ND	ND	0.6 J	7 J	3 J
trans-1,3-Dichloropropene	ND	ND	ND	0.5 J	ND	ND
Trichloroethene	1100	1400	1	2	3000	7000
Trichlorofluoromethane	ND	3	1	2	9 J	ND
Vinyl Acetate	2	ND	ND	ND	4 J	ND
Vinyl Bromide	ND	ND	ND	0.8 J	6 J	ND
Vinyl Chloride	ND	ND	ND	0.4 J	4 J	ND

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE 106I					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	4	ND	NA	6	3	7
1,1,2,2-Tetrachloroethane	ND	ND	NA	1 J	0.8 J	1 J
1,1,2-Trichloroethane	ND	ND	NA	0.7 J	0.6 J	0.8 J
1,1-Dichloroethane	1	ND	NA	1	0.5 J	1
1,1-Dichloroethene	ND	ND	NA	0.6 J	2	0.6 J
1,2,3-Trichloropropane	ND	ND	NA	0.9 J	0.6 J	0.9 J
1,2,3-Trimethylbenzene	9	ND	NA	9	1	2
1,2,4-Trichlorobenzene	2	ND	NA	2	ND	0.8 J
1,2,4-Trimethylbenzene	29	ND	NA	29	3	6
1,2-Dibromoethane	ND	ND	NA	1 J	ND	1 J
1,2-Dichlorobenzene	1	ND	NA	0.7 J	ND	0.9 J
1,2-Dichloroethane	0.8	ND	NA	0.6 J	0.5 J	0.6 J
1,2-Dichloropropane	ND	ND	NA	0.7 J	ND	0.7 J
1,3,5-Trimethylbenzene	6	ND	NA	5	0.9 J	1
1,3-Butadiene	1	ND	NA	ND	2	0.6
1,3-Dichlorobenzene	ND	ND	NA	ND	ND	0.7 J
1,4-Dichlorobenzene	ND	ND	NA	0.7 J	2	0.7 J
1,4-Dioxane	ND	ND	NA	0.7	0.5 J	0.6 J
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	4	ND	NA	7	0.5 J	2
2-Hexanone	ND	ND	NA	1	0.6 J	0.5 J
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	NA	0.4 J	0.5 J	0.4 J
4-ethyltoluene	5	ND	NA	5	1	1
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	5	5	NA	22	11	9
alpha-Chlorotoluene	ND	ND	NA	0.6 J	ND	0.7 J
Acrylonitrile	0.4	ND	NA	0.4 J	0.4 J	ND
Benzene	0.8	ND	NA	0.9	0.9	0.6 J
Benzyl Chloride	1	ND	NA	0.7 J	ND	ND
Bromodichloromethane	ND	ND	NA	0.8 J	0.5 J	1 J
Bromoform	ND	ND	NA	1 J	0.3 J	2 J
Bromomethane	0.9	ND	NA	0.6 J	2	0.6 J
Carbon Disulfide	0.8	ND	NA	0.8	0.5 J	0.6
Carbon Tetrachloride	2	ND	NA	1	ND	3
Chlorobenzene	ND	ND	NA	0.7 J	0.3 J	0.7 J
Chlorodibromomethane	ND	ND	NA	1 J	1	1 J
Chloroethane	0.6	ND	NA	0.7	0.8	0.5 J
Chloroform	1	ND	NA	2	0.4 J	2
Chloromethane	0.8	0.8	NA	2	ND	0.4
cis-1,2-Dichloroethene	4	ND	NA	6	0.5 J	4
cis-1,3-Dichloropropene	ND	ND	NA	0.6 J	ND	0.5 J
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	NA	0.6 J	ND	0.4 J
Dichlorodifluoromethane	3	2	NA	3	0.8 J	3
Diisopropyl ether	ND	ND	NA	ND	ND	ND
Ethanol	3	2	NA	15	9	1
Ethyl Acetate	ND	ND	NA	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	NA	0.6 J	0.4 J	0.5 J
Ethylbenzene	3	ND	NA	4	2	1
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	4	ND	NA	5	4	12
Freon 114	2	ND	NA	1 J	0.9 J	1 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	NA	0.8 J	0.7 J	0.5 J
Hexachlorobutadiene	2	ND	NA	2 J	1 J	2 J
Hexane	0.8	ND	NA	1	1	1
iso-Octane	1	ND	NA	19	0.9 J	0.8 J
Isopropylbenzene	1	ND	NA	1	0.5 J	0.7 J
Isoproyl alcohol	1	ND	NA	13	1	1
m,p-Xylene	NR	NR	NA	NR	NR	NR
Methyl Methacrylate	ND	ND	NA	0.5 J	ND	0.5 J
Methyl-tert-Butyl-Ether	ND	ND	NA	0.7 J	0.5 J	0.7
Methylene Chloride	2	0.8	NA	6	2	5
MIBK	ND	ND	NA	0.8 J	0.4 J	0.5 J
Naphthalene	6	ND	NA	26	1	2
n-Butane	0.8	0.5	NA	1	0.5 J	ND
o-Xylene	NR	NR	NA	NR	NR	NR
p-Isopropyltoluene	2	ND	NA	1	ND	0.8 J
n-Propylbenzene	3	ND	NA	3	0.7 J	0.9 J
Propylene	ND	ND	NA	ND	ND	ND
Styrene	ND	ND	NA	0.7 J	ND	0.5 J
tert-Amyl methyl ether	ND	ND	NA	0.6 J	0.4 J	0.6 J
tert-Butyl Alcohol	0.9	ND	NA	2	1 J	0.8
Tetrachloroethene	15	ND	NA	15	7	19
Tetrahydrofuran	6	ND	NA	8	2	2
Toluene	2	ND	NA	5	3	1
Total Xylenes	17	ND	NA	22	8	6
trans-1,2-Dichloroethene	0.9	ND	NA	0.8	0.5 J	0.7 J
trans-1,3-Dichloropropene	ND	ND	NA	0.6 J	ND	ND
Trichloroethene	140	10	NA	210	92	190
Trichlorofluoromethane	2	1	NA	2	2	2
Vinyl Acetate	1	ND	NA	3	ND	ND
Vinyl Bromide	0.9	ND	NA	0.7 J	0.5 J	0.7 J
Vinyl Chloride	0.5	ND	NA	0.4 J	0.3 J	0.4 J

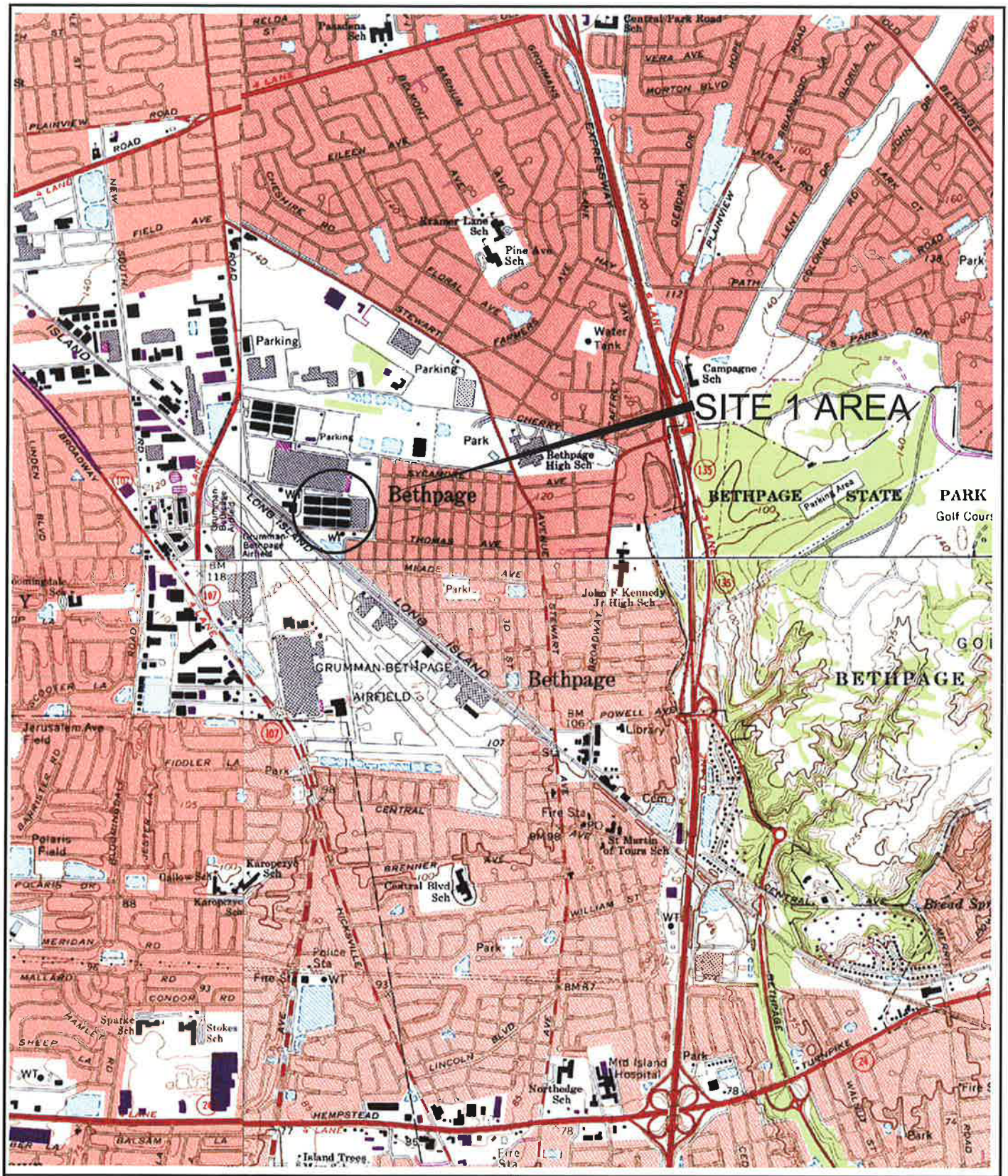
Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

Sample ID	SVE 106D					
Sample Date	09/16/10	12/08/10	03/30/11	06/28/11	09/06/11	10/14/11
Analysis by TO-15 ($\mu g/m^3$)						
1,1,1-Trichloroethane	20	12	9	20	23	29
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.9 J	1 J
1,1,2-Trichloroethane	ND	ND	ND	ND	0.7 J	0.9 J
1,1-Dichloroethane	5	2	5	4	3	3
1,1-Dichloroethene	ND	ND	ND	0.5 J	0.7 J	0.8
1,2,3-Trichloropropane	ND	ND	ND	ND	0.7 J	1 J
1,2,3-Trimethylbenzene	8	ND	ND	6	ND	2
1,2,4-Trichlorobenzene	NR	ND	ND	1 J	ND	0.9 J
1,2,4-Trimethylbenzene	17	2	2	23	ND	4
1,2-Dibromoethane	ND	ND	ND	ND	ND	1 J
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	1 J
1,2-Dichloroethane	ND	ND	ND	ND	0.6 J	0.7 J
1,2-Dichloropropane	ND	ND	ND	ND	0.6 J	0.8 J
1,3,5-Trimethylbenzene	6	ND	ND	4	ND	1
1,3-Butadiene	ND	ND	ND	ND	0.3 J	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.8 J
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.8 J
1,4-Dioxane	ND	ND	ND	0.5 J	0.7 J	0.7 J
2,2,4-Trimethylpentane	NR	NR	NR	NR	NR	NR
2-Butanone	8	2	0.8	5	1	2
2-Hexanone	ND	ND	ND	ND	0.5 J	0.8 J
2-Propanol	NR	NR	NR	NR	NR	NR
3-Chloro-1-propene	ND	ND	ND	ND	0.4 J	0.4 J
4-ethyltoluene	6	ND	ND	4	ND	1
4-Methyl-2-pentanone	NR	NR	NR	NR	NR	NR
Acetone	25	9	5	11	6	6
alpha-Chlorotoluene	ND	ND	ND	ND	ND	0.9 J
Acrylonitrile	ND	ND	ND	0.4 J	0.4 J	ND
Benzene	ND	ND	ND	2	0.5 J	0.6 J
Benzyl Chloride	ND	ND	ND	ND	ND	0.6 J
Bromodichloromethane	ND	ND	ND	ND	0.9 J	1 J
Bromoform	ND	ND	ND	ND	ND	2 J
Bromomethane	ND	ND	ND	ND	0.6 J	0.7 J
Carbon Disulfide	ND	ND	ND	0.6 J	0.6 J	0.6
Carbon Tetrachloride	8	26	17	9	6	18
Chlorobenzene	ND	ND	ND	ND	0.5 J	0.8 J
Chlorodibromomethane	ND	ND	ND	ND	1 J	1 J
Chloroethane	ND	ND	ND	0.4 J	0.4 J	0.4 J
Chloroform	ND	2	2	5	5	5
Chloromethane	3	1	0.5	0.7	0.5	0.6
cis-1,2-Dichloroethene	13	2	11	11	5	4
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.7 J
Cumene	NR	NR	NR	NR	NR	NR
Cyclohexane	ND	ND	ND	1	0.4 J	0.4 J
Dichlorodifluoromethane	6	3	3	4	2	3
Diisopropyl ether	ND	ND	ND	ND	ND	1 J
Ethanol	8	3	2	17	4	ND
Ethyl Acetate	ND	ND	ND	ND	ND	ND
Ethyl tert-butyl ether	ND	ND	ND	ND	0.6 J	0.6 J
Ethylbenzene	5	ND	ND	5	ND	1
Freon 11	NR	NR	NR	NR	NR	NR
Freon 113	ND	18	30	16	25	25
Freon 114	ND	ND	ND	ND	1 J	1 J
Freon 12	NR	NR	NR	NR	NR	NR
Heptane	ND	ND	ND	1	0.4 J	0.6 J
Hexachlorobutadiene	ND	ND	ND	ND	1 J	2 J
Hexane	3	ND	ND	3	2	0.6 J
iso-Octane	ND	ND	ND	130	0.7 J	0.8 J
Isopropylbenzene	ND	ND	ND	0.8 J	0.5 J	0.8 J
Isoproyl alcohol	5	ND	2	3	2	ND
m,p-Xylene	NR	NR	NR	NR	NR	NR
Methyl Methacrylate	ND	ND	ND	ND	0.4 J	0.4 J
Methyl-tert-Butyl-Ether	ND	ND	ND	ND	1	0.5 J
Methylene Chloride	4	2	4	5	17	1
MIBK	ND	ND	ND	0.5 J	0.4 J	0.6 J
Naphthalene	8	ND	ND	25	ND	3
n-Butane	ND	1	0.9	6	0.9	ND
o-Xylene	NR	NR	NR	NR	NR	NR
p-Isopropyltoluene	ND	ND	ND	0.7 J	ND	0.9 J
n-Propylbenzene	ND	ND	ND	2	ND	0.9 J
Propylene	ND	ND	ND	ND	ND	MD
Styrene	ND	ND	ND	ND	ND	0.6 J
tert-Amyl methyl ether	ND	ND	ND	ND	0.5 J	0.6 J
tert-Butyl Alcohol	4	ND	ND	0.6 J	0.5 J	ND
Tetrachloroethene	ND	13	19	41	8	66
Tetrahydrofuran	8	2	1	7	2	2
Toluene	5	2	2	11	0.5 J	3
Total Xylenes	21	ND	ND	25	ND	6
trans-1,2-Dichloroethene	ND	ND	ND	0.6 J	0.8	0.9
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.6 J
Trichloroethene	230	130	170	210	260	320
Trichlorofluoromethane	6	2	2	3	2	3
Vinyl Acetate	4	ND	ND	ND	ND	ND
Vinyl Bromide	ND	ND	ND	ND	0.6 J	0.9
Vinyl Chloride	ND	ND	ND	ND	0.4 J	0.5 J

Notes:
$\mu g/m^3$ = micrograms per cubic meter
NR = Not Recorded
NA = Data not available. Vapor samples could not be collected due to water in the extraction wells.

Data prior to July 2011 were collected by others.

FIGURES



Quadrangle Location Map

0 2000 4000 Feet

N

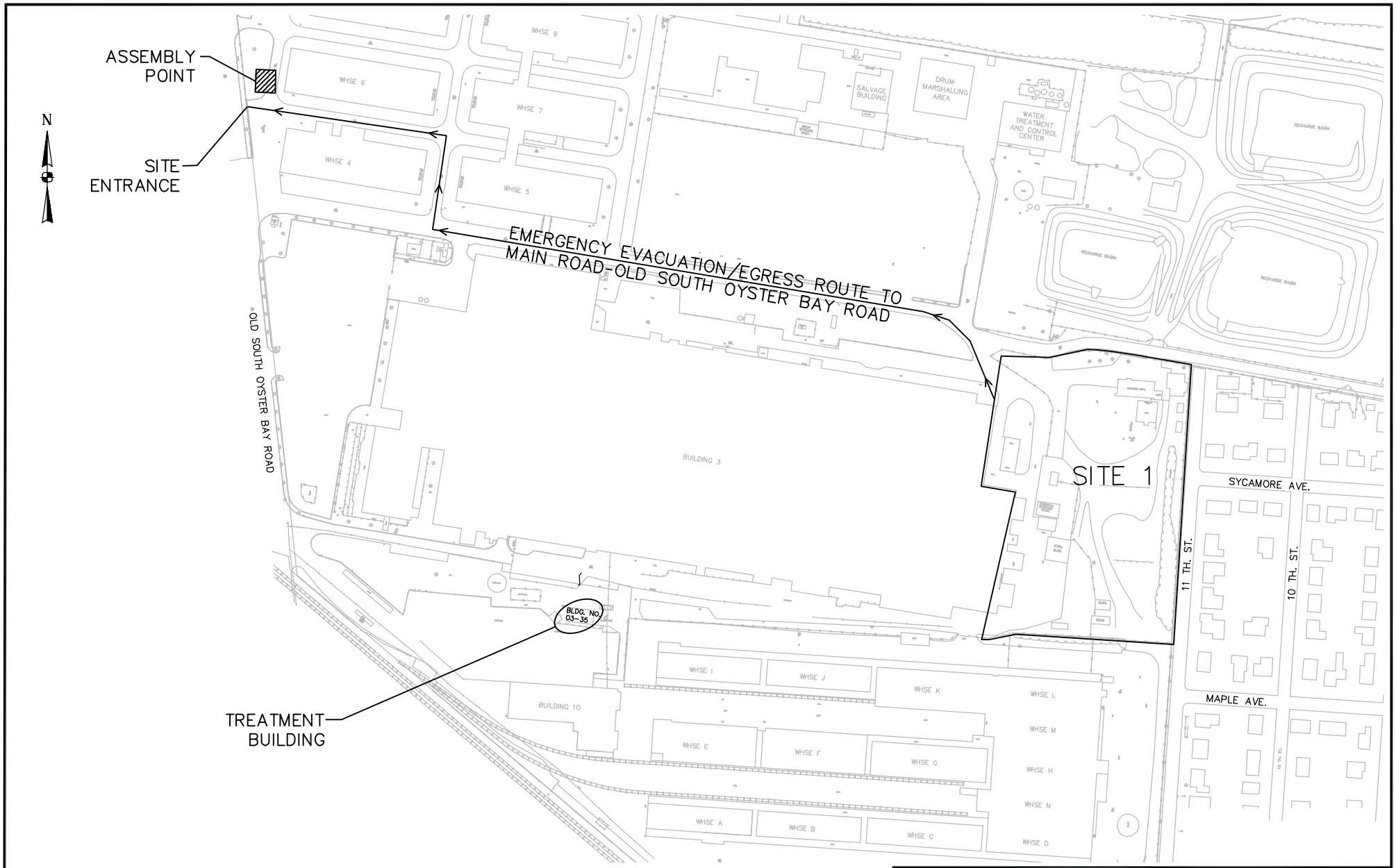
Source: U.S.G.S. Topographic Maps (7.5 Minute)
Amityville, Freeport, Hicksville, Huntington, NY Quadrangles

Department of the Navy
Naval Facilities Engineering Command, Mid-Atlantic

Site 1, Former Drum Marshalling Area
Naval Weapons Industrial Reserve Plant
Bethpage, NY

Figure 1: Site Location Map

H&S Environmental, Inc.



Department of the Navy
Naval Facilities Engineering Command, Mid–Atlantic

Site 1, Former Drum Marshalling Area
Naval Weapons Industrial Reserve Plant
Bethpage, NY

Figure 2
Site 1 Area and Vicinity

H&S Environmental, Inc.

N

PLANT 3

SITE 1

SVE-106D
SVE-106I
SVE-105I
SVE-105D
SVE-104D
SVE-104I
SVE-103D
SVE-103I
SVE-101D
SVE-101I
SVE-102D
SVE-102I

SITE 4

SVE-111D
SVE-110D
SVE-109D
SVE-108D
SVE-107D

TRAP & CLEANOUT #5
TRAP & CLEANOUT #4
TRAP & CLEANOUT #3
TRAP & CLEANOUT #2
TRAP & CLEANOUT #1

TREATMENT BUILDING

FLOW MONITORING STATION

BUILDING 10

WAREHOUSE I
WAREHOUSE J
WAREHOUSE K
WAREHOUSE L
WAREHOUSE M
WAREHOUSE E
WAREHOUSE F
WAREHOUSE G
WAREHOUSE H
WAREHOUSE N
WAREHOUSE A
WAREHOUSE B
WAREHOUSE C
WAREHOUSE D

LEGEND

- FORMER NWIRP BOUNDARY
- CURRENT NWIRP BOUNDARY
- SVE CONTAINMENT WELL LOCATION

SITE PLAN

EXISTING LAYOUT
SVE CONTAINMENT SYSTEM
SITE 1 - NWIRP BETHPAGE
BETHPAGE, NEW YORK

H&S Environmental, Inc.
160 East Main Street, Suite 2F, Westborough, MA 01581

SCALE IN FEET
0 160

DATE
5/22/2012

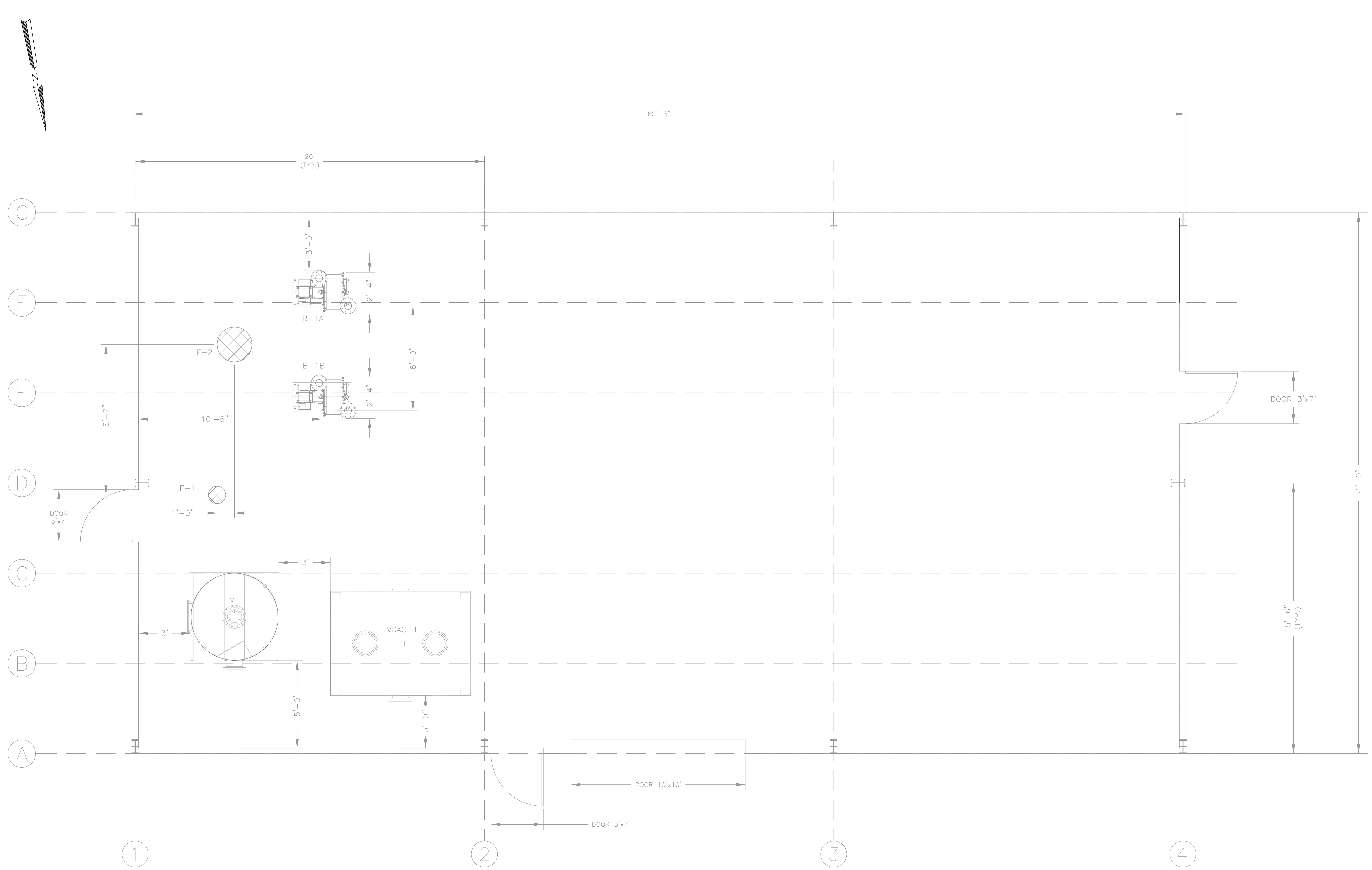
FIGURE
3

H&S

BETHPAGE SVE.DWG

NOTES:

1. ALL MAN DOORS AND OVERHEAD DOORS ARE EXISTING. MAN DOORS ARE APPROXIMATELY 7'X3'. OVERHEAD DOOR IS APPROXIMATELY 10'X10'.



PROCESS EQUIPMENT LIST		
ITEM NUMBER	NUMBER REQUIRED	NAME/DESCRIPTION
M-1	1	MOISTURE SEPARATOR -CONFIGURATION: VERTICAL, CYLINDRICAL -MATERIAL OF CONSTRUCTION: CARBON STEEL, EPOXY INTERIOR COATING, PAINT EXTERIOR COATING -CAPACITY: 400 GALLON CONDENSATE COLLECTION -DIMENSIONS: 5 FT DIA X 6 FEET HT, 718 GALLON
F-1	1	MAKE-UP AIR FILTER -CONFIGURATION: INTAKE FILTER/SILENCER COMBINATION HOUSING -MATERIAL OF CONSTRUCTION: CARBON STEEL, CORROSION RESISTANCE COATING -CAPACITY: 500 CFM AT 20 IW, 4 INCH FLANGED CONNECTION
F-2	1	BLOWER AIR FILTER -CONFIGURATION: INLINE VACUUM SERVICE FILTER -MATERIAL OF CONSTRUCTION: CARBON STEEL, CORROSION RESISTANCE COATING -CAPACITY: 1,200 CFM AT 35 IW, 10 INCH FLANGED CONNECTION
B-1A, B-1B	2	SOIL VAPOR EXTRACTION BLOWER -CONFIGURATION: HORIZONTAL CENTRIFUGAL -RATING: 600 CFM AT 40 IW -MOTOR: 7.5 HP, 460V, 3PH, 60HZ, ODP
VGAC-1	1	VAPOR-PHASE GRANULAR ACTIVATED CARBON -CONFIGURATION: RECTANGULAR TANK -MATERIAL OF CONSTRUCTION: CARBON STEEL, EPOXY INTERIOR COATING, EPOXY EXTERIOR COATING -RATING: 1,600 CFM AT 3 IW, 2,000 CFM AT 6 IW -CAPACITY: 5,000 LBS CARBON -DIMENSIONS: 6' X 8' FOOTPRINT, 6' 8" HT

3 0 3 6
1" = 3'

TETRA TECH ENGINEERING CORPORATION PC

REV	DESCRIPTION	PREP BY	DATE	APPRVD
0	ISSUED FOR CONSTRUCTION	DLB	10-14-09	SGP

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND, MID-ATLANTIC
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT BETHPAGE, NEW YORK
SITE 1, FORMER DRUM MARSHALLING AREA
SOIL VAPOR EXTRACTION CONTAINMENT SYSTEM
LAYOUT PLAN

SEAL AREA

THIS DRAWING PRODUCED ON AUTOCAD
DO NOT REVISE MANUALLY

SAT TO DATE
CODE I.D. NO.
SCALE : AS SHOWN
SPEC. NO.
CONSTR. CONTR. NO. N62473-10-D-3211
NAVFAC DRAWING NO. Figure 3
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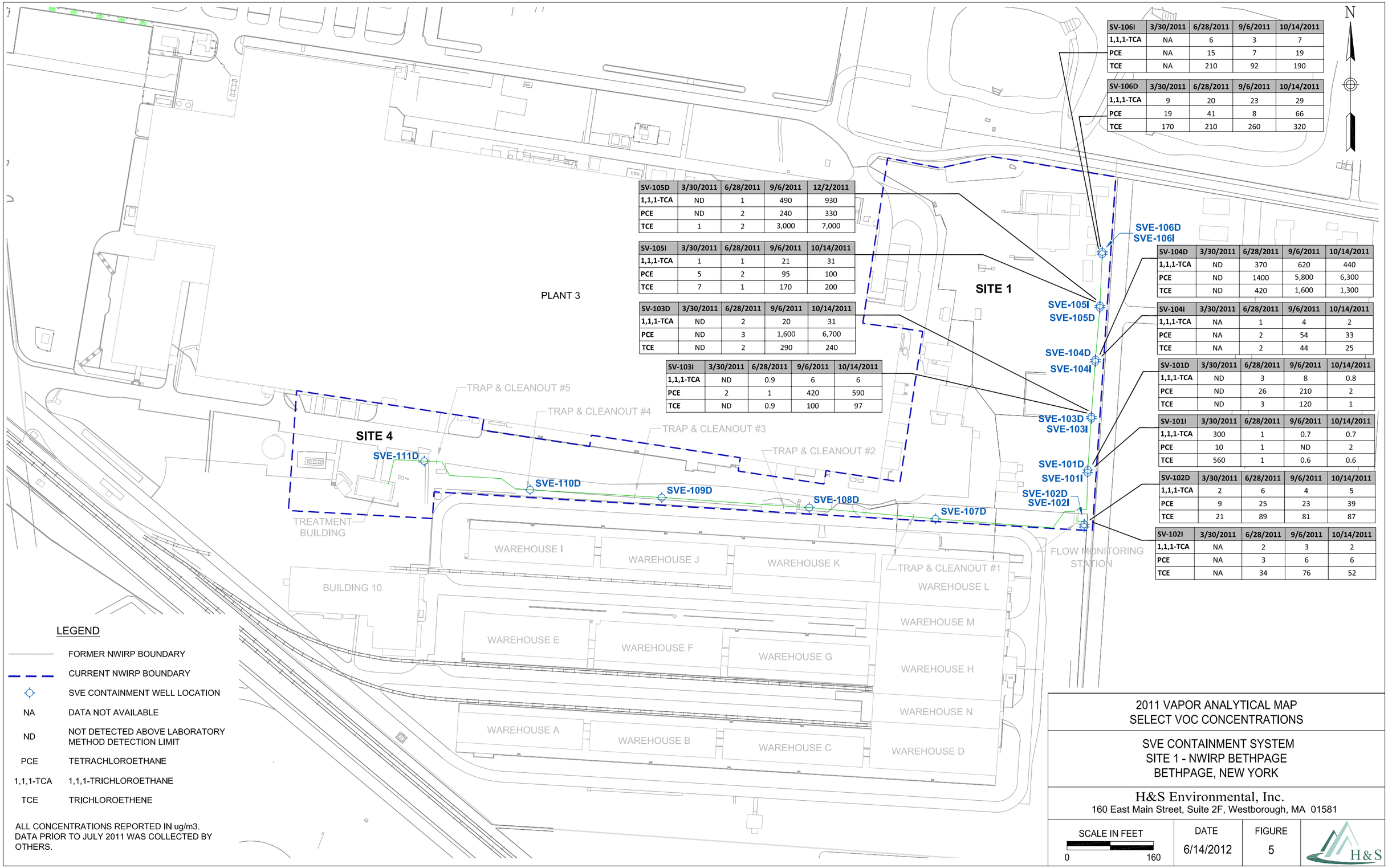
DIS. SH. NO. 1-3



SV-105D	3/30/2011	6/28/2011	9/6/2011	12/2/2011
1,1,1-TCA	ND	1	490	930
PCE	ND	2	240	330
TCE	1	2	3,000	7,000

SV-105I	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	1	1	21	31
PCE	5	2	95	100
TCE	7	1	170	200

SV-103D	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	ND	2	20	31
PCE	ND	3	1,600	6,700
TCE	ND	2	290	240

SV-103I	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	ND	0.9	6	6
PCE	2	1	420	590
TCE	ND	0.9	100	97

SV-106I	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	NA	6	3	7
PCE	NA	15	7	19
TCE	NA	210	92	190

SV-106D	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	9	20	23	29
PCE	19	41	8	66
TCE	170	210	260	320

SV-104D	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	ND	370	620	440
PCE	ND	1400	5,800	6,300
TCE	ND	420	1,600	1,300

SV-104I	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	NA	1	4	2
PCE	NA	2	54	33
TCE	NA	2	44	25

SV-101D	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	ND	3	8	0.8
PCE	ND	26	210	2
TCE	ND	3	120	1

SV-101I	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	300	1	0.7	0.7
PCE	10	1	ND	2
TCE	560	1	0.6	0.6

SV-102D	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	2	6	4	5
PCE	9	25	23	39
TCE	21	89	81	87

SV-102I	3/30/2011	6/28/2011	9/6/2011	10/14/2011
1,1,1-TCA	NA	2	3	2
PCE	NA	3	6	6
TCE	NA	34	76	52

LEGEND

	FORMER NWIRP BOUNDARY
	CURRENT NWIRP BOUNDARY
	SVE CONTAINMENT WELL LOCATION
NA	DATA NOT AVAILABLE
ND	NOT DETECTED ABOVE LABORATORY METHOD DETECTION LIMIT
PCE	TETRACHLOROETHANE
1,1,1-TCA	1,1,1-TRICHLOROETHANE
TCE	TRICHLOROETHENE

ALL CONCENTRATIONS REPORTED IN ug/m3.
DATA PRIOR TO JULY 2011 WAS COLLECTED BY OTHERS.

2011 VAPOR ANALYTICAL MAP
SELECT VOC CONCENTRATIONS

SVE CONTAINMENT SYSTEM
SITE 1 - NWIRP BETHPAGE
BETHPAGE, NEW YORK

H&S Environmental, Inc.
160 East Main Street, Suite 2F, Westborough, MA 01581

SCALE IN FEET
0 160

DATE
6/14/2012

FIGURE
5

H&S

BETHPAGE VOC.DWG

APPENDIX A
NYSDEC Air Permit Equivalent Approval

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Remedial Action A
625 Broadway, 11th Floor
Albany, New York 12233-7015
Phone: (518) 402-9625 • Fax: (518) 402-9022

Website: www.dec.state.ny.us

February 5, 2010

Lora Fly, Project Manager
Naval Facilities Engineering Command-Midlant
9742 Maryland Avenue
Norfolk, VA 23511-3095

RE: Naval Weapons Industrial Research Plant(NWIRP)
Site-Bethpage, NYSDEC No. 1-30-003B.

Dear Ms. Fly:

Tetra Tech FW, on behalf of the Department of the Navy (Navy), has submitted the enclosed New York State Department of Environmental Conservation (NYSDEC) Division of Air Resources (DAR) Air Permit Application as a permit equivalent. This DAR Air permit equivalent is for the soil vapor extraction system at Site 1 of Plant 3 of the former Naval Weapons Industrial Reserve Plant (NWIRP) site in Bethpage, NY. The NYSDEC Division of Environmental Remediation (DER) has reviewed the permit equivalent and, by means of this letter approves the Site 1 remedy air discharge for immediate operation.

The NWIRP Site 1 SVE system utilizes the reasonably available control technology (RACT) with activated carbon. The air discharge will be periodically monitored at start up and will be added for routine monitoring in the operation, maintenance and monitoring (OMM) plan, to be submitted shortly for Departmental review.

If you have any questions, please contact me at your earliest convenience at (518)402-9620.

Sincerely,

Steven M. Scharf, P.E.
Project Engineer
Division of Environmental Remediation
Bureau of Remedial Action A

Enclosure
ec/w/enc: J. Swartwout/S. Scharf/File
W. Parish, Region 1 NYSDEC
A. J. Shah, Region 1 NYSDEC
S. Patselos, Tetra Tech FW
J. Cofman, Northrop Grumman
E docs: Region 1, Nassau, Oyster Bay (T): NWIRP Bethpage 130003B-OU1-OMM

New York State Department of Environmental Conservation
Air Permit Application

DEC ID	APPLICATION ID	OFFICE USE ONLY
- -	- /	/ / -

Section I - Certification

Title V Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information [required pursuant to 6 NYCRR 201-6.3(d)] I believe the information is, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Responsible Official	Title
Signature	Date / /

State Facility Certification

I certify that this facility will be operated in conformance with all provisions of existing regulations.

Responsible Official	Title
Signature	Date / /

Section II - Identification Information

Title V Facility Permit N/A
❑ New ❑ Significant Modification ❑ Administrative Amendment
❑ Renewal ❑ Minor Modification General Permit Title:

State Facility Permit N/A
❑ New ❑ Modification
General Permit Title:

☒ Application involves construction of new facility ❑ Application involves construction of new emission unit(s)

Owner/Firm

Name US Navy / NAVFAC Midlant

Street Address 9742 Maryland Ave, Bldg Z-144

City	State	Country	Zip
Norfolk	VA	US	23511-3095

Owner Classification ☒ Federal ❑ State ❑ Municipal ❑ Corporation/Partnership ❑ Individual

Taxpayer ID

Facility

❑ Confidential

Name Naval Weapons Industrial Reserve Plant (NWIRP) Site 1

Location Address Bethpage

❑ City / ☒ Town / ❑ Village Oyster Bay, New York Zip 11714

Project Description

❑ Continuation Sheet(s)

Vapor phase granular activated carbon to remove VOCs from soil gas

Owner/Firm Contact Mailing Address

Name (Last, First, Middle Initial)		Phone No.
Fly, Lora		(757) 444-0781
Affiliation	**Title**	**Fax No.**
Department of the Navy	Remedial PM	( )
Street Address		
9742 Maryland Ave, Bldg Z-144		
City	**State**	**Country** / **Zip**
Norfolk	VA	US / 23511-3095

Facility Contact Mailing Address

Name (Last, First, Middle Initial)		Phone No.
		( )
Affiliation	**Title**	**Fax No.**
		( )
Street Address		
City	**State**	**Country** / **Zip**

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section III - Facility Information

Classification					
❑ Hospital	❑ Residential	❑ Educational/Institutional	❑ Commercial	☒ Industrial	❑ Utility

Affected States (Title V Only) N/A				
❑ Vermont	❑ Massachusetts	❑ Rhode Island	❑ Pennsylvania	Tribal Land:
❑ New Hampshire	❑ Connecticut	❑ New Jersey	❑ Ohio	Tribal Land:

SIC Codes												
9999												

Facility Description	❑ Continuation Sheet(s)
Soil vapor remediation by SVE followed by vapor phase GAC	

Compliance Statements (Title V Only) N/A
I certify that as of the date of this application the facility is in compliance with all applicable requirements: ❑ YES ❑ NO If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block on page 8 of this form along with the compliance plan information required. For all emission units at this facility that are operating in compliance with all applicable requirements complete the following: ❑ This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those units referenced in the compliance plan portion of Section IV of this application. ❑ For all emission units, subject to any applicable requirements that will become effective during the term of the permit, this facility will meet all such requirements on a timely basis. ❑ Compliance certification reports will be submitted at least once a year. Each report will certify compliance status with respect to each requirement, and the method used to determine the status.

Facility Applicable Federal Requirements N/A ❑ Continuation Sheet(s)									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

Facility State Only Requirements ❑ Continuation Sheet(s)									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

New York State Department of Environmental Conservation
Air Permit Application

DEC ID

Section III - Facility Information (continued)

Facility Compliance Certification N/A ❑ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

❑ Applicable Federal Requirement
❑ State Only Requirement
❑ Capping

CAS No. - -

Contaminant Name

Monitoring Information

❑ Ambient Air Monitoring ❑ Work Practice Involving Specific Operations ❑ Record Keeping/Maintenance Procedures

Description

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description

Facility Emissions Summary ☒ Continuation Sheet(s)

CAS No.	Contaminant Name	PTE (lbs/yr)	PTE Range Code	Actual (lbs/yr)
NY075 - 00 - 5	PM-10			
NY075 - 00 - 0	PARTICULATES			
7446 - 09 - 5	SULFUR DIOXIDE			
NY210 - 00 - 0	OXIDES OF NITROGEN			
630 - 08 - 0	CARBON MONOXIDE			
7439 - 92 - 1	LEAD			
NY998 - 00 - 0	VOC	1,222		
NY100 - 00 - 0	HAP	1,813		
00071 - 55 - 6	1,1,1-Trichloroethane (Methyl Chloroform)	591		
00127 - 18 - 4	Tetrachloroethylene	8		
00079 - 01 - 6	Trichloroethylene	1,181		
00075 - 34 - 3	1,1-Dichloroethane	11		
00075 - 35 - 4	1,1-Dichloroethylene (Vinylidine Chloride)	16		

New York State Department of Environmental Conservation
Air Permit Application

DEC ID

Section III - Facility Information

Facility Emissions Summary (continuation)

CAS No.	Contaminant Name	PTE (lbs/yr)	PTE Range Code	Actual (lbs/yr)
00540-59-0	cis-1,2-Dichloroethene	5		
00107-06-2	1,2-Dichloroethane	0		
00156-60-5	trans-1,2-Dichloroethene	0		
00075-01-4	Vinyl Chloride	0		
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New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- - - - -

Section IV - Emission Unit Information

Emission Unit Description

❑ Continuation Sheet(s)

EMISSION UNIT: 1-00EU1

Effluent from first soil vapor extraction blower (BL-1)
Vapor Phase Granular Activated Carbon Unit. The emission point is stack 00ST-2

Building

❑ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation
03-35	Treatment Building	60	40	0

Emission Point

❑ Continuation Sheet(s)

EMISSION PT.: 00ST2

Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
	36	6	8	70		

Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
	1,000			03-35	100+	

EMISSION PT.:

Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)

Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal

Emission Source/Control

❑ Continuation Sheet(s)

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
BL 1/2	1				048	Granular Act. Carbon	Tetrasolv Filtration

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- - - - - - - - -

Section IV - Emission Unit Information (continued)

Process Information

❑ Continuation Sheet(s)

EMISSION UNIT 1-00EU1 PROCESS SVE

Description

The Soil Vapor Extraction System will consist of 12 SVE wells (6 intermediate and 6 deep), a moisture separator, and 2 soil vapor extraction blowers (BL-1 and BL-2) which both vent to a vapor phase granular activated carbon unit for treatment prior to discharge from stack 00STA. The VGAC unit will be a 5,000 pound unit, filled with Tetrasolv Virgin Carbon. The VGAC unit has been designed to operate nominally at 600 cfm, with a maximum of 1,000 cfm.

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description

❑ Confidential
☒ Operating at Maximum Capacity
❑ Activity with Insignificant Emissions

Operating Schedule		Building	Floor/Location
Hrs/Day	Days/Yr		
24	365	03-35	Main

Emission Source/Control Identifier(s)

BL-1	BL-2						

EMISSION UNIT - PROCESS

Description

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description

❑ Confidential
❑ Operating at Maximum Capacity
❑ Activity with Insignificant Emissions

Operating Schedule		Building	Floor/Location
Hrs/Day	Days/Yr		

Emission Source/Control Identifier(s)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													
-													
-													
-													

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													
-													
-													
-													

Emission Unit Compliance Certification ❑ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	212							

❑ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
1-00EU1	00ST2	SVE		00079-01-6	Trichloroethylene

Monitoring Information

- ❑ Continuous Emission Monitoring
- ☒ Intermittent Emission Testing
- ❑ Ambient Air Monitoring
- ❑ Monitoring of Process or Control Device Parameters as Surrogate
- ❑ Work Practice Involving Specific Operations
- ❑ Record Keeping/Maintenance Procedures

Description

Monthly grab samples analyzed for VOCs from the VGAC unit influent and effluent

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
36,000		255	micrograms per cubic meter

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Instantaneous	05	Monthly	10	Upon Request

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section IV - Emission Unit Information (continued)

Determination of Non-Applicability (Title V Only) N/A ❑ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	❑ Applicable Federal Requirement ❑ State Only Requirement
-				

Description

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	❑ Applicable Federal Requirement ❑ State Only Requirement
-				

Description

Process Emissions Summary ☒ Continuation Sheet(s)

EMISSION UNIT 1-00EU1 PROCESS SVE

CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined
00071-55-6	1,1,1-Trichloroethane			80	0.34	02

PTE (lbs/hr)	PTE (lbs/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lbs/hr)	Actual (lbs/yr)
0.07	591			02		

EMISSION UNIT 1-00EU1 PROCESS SVE

CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined
00127-18-4	Tetrachloroethylene			80	0.00	02

PTE (lbs/hr)	PTE (lbs/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lbs/hr)	Actual (lbs/yr)
~~0.00~~ BRT	8			02		

EMISSION UNIT 1-00EU1 PROCESS SVE

CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined
00079-01-6	Trichloroethylene			80	0.67	02

PTE (lbs/hr)	PTE (lbs/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lbs/hr)	Actual (lbs/yr)
0.13	1,181			02		

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section IV - Emission Unit Information (continued)

EMISSION UNIT	Emission Unit Emissions Summary			☒ Continuation Sheet(s)
i-OOEU1				
CAS No.	Contaminant Name			
00075-34-3	1,1-Dichloroethane			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	11		
CAS No.	Contaminant Name			
00075-35-4	1,1-Dichloroethylene (Vinylidine Chloride)			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	16		
CAS No.	Contaminant Name			
00540-59-0	cis-1,2-Dichloroethene			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	5		
CAS No.	Contaminant Name			
00107-06-2	1,2-Dichloroethane			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	BRT		

Compliance Plan N/A

❑ Continuation Sheet(s)

For any emission units which are not in compliance at the time of permit application, the applicant shall complete the following

Consent Order — Certified progress reports are to be submitted every 6 months beginning ___/___/___

Emission Unit	Process	Emission Source	Applicable Federal Requirement									
			Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-												

Remedial Measure / Intermediate Milestones	R/I	Date Scheduled

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section IV - Emission Unit Information

EMISSION UNIT	Emission Unit Emissions Summary (continuation)			
1 - 0 0 E U 1				
CAS No.	Contaminant Name			
00156 - 60 - 5	trans-1,2-Dichloroethene			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	BRT		
CAS No.	Contaminant Name			
00075 - 01 - 4	Vinyl Chloride			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	BRT		
CAS No.	Contaminant Name			
- -				
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
- -				
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
- -				
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
- -				
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
- -				
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
- -				
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID

Section IV - Emission Unit Information (continued)

Request for Emission Reduction Credits

❑ Continuation Sheet(s)

EMISSION UNIT

Emission Reduction Description

Contaminant Emission Reduction Data

Baseline Period ___/___/___ to ___/___/___

CAS No.	Contaminant Name	Reduction Date	Reduction Method	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
- -		/ /			
- -					
- -					

Facility to Use Future Reduction

Name | APPLICATION ID

Location Address

❑ City / ❑ Town / ❑ Village | State | Zip

Use of Emission Reduction Credits

❑ Continuation Sheet(s)

EMISSION UNIT

Proposed Project Description

Contaminant Emissions Increase Data

CAS No.	Contaminant Name	PEP (lbs/yr)
- -		

Statement of Compliance

❑ All facilities under the ownership of this "ownership/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under Section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order.

Source of Emission Reduction Credit - Facility

Name | PERMIT ID

Location Address

❑ City / ❑ Town / ❑ Village | State | Zip

Emission Unit	CAS No.	Contaminant Name	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
-	- -			
-	- -			
-	- -			

DEC ID
- - -

Supporting Documentation

- ☐ P.E. Certification (form attached)
- ☐ List of Exempt Activities (form attached)
- ☐ Plot Plan
- ☐ Methods Used to Determine Compliance (form attached)
- ☒ Calculations
- ☐ Air Quality Model (_____ / _____ / _____)
- ☐ Confidentiality Justification
- ☐ Ambient Air Monitoring Plan (_____ / _____ / _____)
- ☐ Stack Test Protocols/Reports (_____ / _____ / _____)
- ☐ Continuous Emissions Monitoring Plans/QA/QC (_____ / _____ / _____)
- ☐ MACT Demonstration (_____ / _____ / _____)
- ☐ Operational Flexibility: Description of Alternative Operating Scenarios and Protocols
- ☐ Title IV: Application/Registration
- ☐ ERC Quantification (form attached)
- ☐ Use of ERC(s) (form attached)
- ☐ Baseline Period Demonstration
- ☐ Analysis of Contemporaneous Emission Increase/Decrease
- ☐ LAER Demonstration (_____ / _____ / _____)
- ☐ BACT Demonstration (_____ / _____ / _____)
- ☐ Other Document(s): _____ (/ /)

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APPENDIX B
Laboratory Analytical Data

October 2011 Monthly Data

ALS Environmental

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

October 14, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name:	**NWIRP Bethpage - GM-38**	Workorder:	**9931150**
Purchase Order:		Workorder ID:	**HNW025|NWIRP Bethpage GM-38**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Friday, October 07, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38 Discard Date: 12/13/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9931150001	IN-SITE1-01-10611	Air	10/6/11 13:30	10/7/11 09:15	Customer
9931150002	IN-SITE1-02-10611	Air	10/6/11 14:00	10/7/11 09:15	Customer
9931150003	EF-SITE1-10611	Air	10/6/11 13:30	10/7/11 09:15	Customer

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150001** Date Collected: 10/6/2011 13:30 Matrix: Air

Sample ID: **IN-SITE1-01-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	2.6	ppbv	1,2,3	0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Acrylonitrile	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
tert-Amyl methyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Benzene	0.21J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Benzyl Chloride	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Bromodichloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Bromoform	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Bromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,3-Butadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
n-Butane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
2-Butanone	0.72	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
tert-Butyl Alcohol	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Carbon Disulfide	0.24J	ppbv	3	0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Carbon Tetrachloride	0.36J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Chlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Chlorodibromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Chloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Chloroform	1.3	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Chloromethane	0.25J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
3-Chloro-1-propene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
o-Chlorotoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Cyclohexane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,2-Dibromoethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,2-Dichlorobenzene	0.24J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,3-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,4-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Dichlorodifluoromethane	0.59	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,1-Dichloroethane	5.3	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,2-Dichloroethane	0.39J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,1-Dichloroethene	0.42	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
cis-1,2-Dichloroethene	55	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
trans-1,2-Dichloroethene	0.73	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,2-Dichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
cis-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
trans-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,3-Dichloropropene, Total	0.40U	ppbv		0.80	0.40	0.40	TO-15		10/14/11 06:06	ECB	A
Diisopropyl ether	0.28U	ppbv		0.40	0.28	0.28	TO-15		10/14/11 06:06	ECB	A
1,4-Dioxane	0.26J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Ethanol	0.84	ppbv	4,5	0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Ethyl Acetate	0.28U	ppbv		0.40	0.28	0.28	TO-15		10/14/11 06:06	ECB	A
Ethyl tert-butyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150001** Date Collected: 10/6/2011 13:30 Matrix: Air

Sample ID: **IN-SITE1-01-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
4-Ethyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Freon 113	7.6	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Freon-114	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Heptane	0.22J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Hexachlorobutadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Hexane	0.20J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
2-Hexanone	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Isopropyl Alcohol	0.40J	ppbv	3	0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Isopropylbenzene	2.2	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
p-Isopropyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Methyl methacrylate	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Methyl t-Butyl Ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Methylene Chloride	0.31J	ppbv	3,6	0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Naphthalene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
iso-Octane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
n-Propylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Propylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Styrene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,1,2,2-Tetrachloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Tetrachloroethene	170	ppbv		2.0	1.0	1.0	TO-15		10/12/11 22:01	ECB	A
Tetrahydrofuran	1.4	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Toluene	0.42	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Total Xylenes	0.70J	ppbv		1.2	0.60	0.60	TO-15		10/14/11 06:06	ECB	A
1,2,4-Trichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,1,1-Trichloroethane	52	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,1,2-Trichloroethane	0.27J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Trichloroethene	250	ppbv		2.0	1.0	1.0	TO-15		10/12/11 22:01	ECB	A
Trichlorofluoromethane	0.56	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,2,3-Trichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,2,4-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,3,5-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
1,2,3-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Vinyl Acetate	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Vinyl Bromide	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
Vinyl Chloride	0.25J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
o-Xylene	0.24J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:06	ECB	A
mp-Xylene	0.46J	ppbv		0.80	0.40	0.40	TO-15		10/14/11 06:06	ECB	A
Acetone	6	ug/m3	1,2,3	1	0.5	0.5	TO-15		10/14/11 06:06	ECB	A
Acrylonitrile	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 06:06	ECB	A
tert-Amyl methyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150001** Date Collected: 10/6/2011 13:30 Matrix: Air

Sample ID: **IN-SITE1-01-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:06	ECB	A
Benzyl Chloride	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Bromodichloromethane	1U	ug/m3		3	1	1	TO-15		10/14/11 06:06	ECB	A
Bromoform	2U	ug/m3		4	2	2	TO-15		10/14/11 06:06	ECB	A
Bromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
1,3-Butadiene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 06:06	ECB	A
n-Butane	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 06:06	ECB	A
2-Butanone	2	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:06	ECB	A
tert-Butyl Alcohol	0.6U	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:06	ECB	A
Carbon Disulfide	0.8J	ug/m3	3	1	0.6	0.6	TO-15		10/14/11 06:06	ECB	A
Carbon Tetrachloride	2J	ug/m3		3	1	1	TO-15		10/14/11 06:06	ECB	A
Chlorobenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
Chlorodibromomethane	2U	ug/m3		3	2	2	TO-15		10/14/11 06:06	ECB	A
Chloroethane	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 06:06	ECB	A
Chloroform	6	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Chloromethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 06:06	ECB	A
3-Chloro-1-propene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:06	ECB	A
o-Chlorotoluene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Cyclohexane	0.7U	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:06	ECB	A
1,2-Dibromoethane	2U	ug/m3		3	2	2	TO-15		10/14/11 06:06	ECB	A
1,2-Dichlorobenzene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,3-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,4-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Dichlorodifluoromethane	3	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,1-Dichloroethane	21	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
1,2-Dichloroethane	2J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
1,1-Dichloroethene	2	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
cis-1,2-Dichloroethene	220	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
trans-1,2-Dichloroethene	3	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
1,2-Dichloropropane	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
cis-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
trans-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
1,3-Dichloropropene, Total	2U	ug/m3		4	2	2	TO-15		10/14/11 06:06	ECB	A
Diisopropyl ether	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,4-Dioxane	0.9J	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:06	ECB	A
Ethanol	2	ug/m3	4,5	0.8	0.4	0.4	TO-15		10/14/11 06:06	ECB	A
Ethyl Acetate	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Ethyl tert-butyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
Ethylbenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
4-Ethyltoluene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Freon 113	58	ug/m3		3	2	2	TO-15		10/14/11 06:06	ECB	A
Freon-114	1U	ug/m3		3	1	1	TO-15		10/14/11 06:06	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150001** Date Collected: 10/6/2011 13:30 Matrix: Air

Sample ID: **IN-SITE1-01-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.9J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
Hexachlorobutadiene	2U	ug/m3		4	2	2	TO-15		10/14/11 06:06	ECB	A
Hexane	0.7J	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:06	ECB	A
2-Hexanone	0.8U	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
Isopropyl Alcohol	1J	ug/m3	3	1	0.5	0.5	TO-15		10/14/11 06:06	ECB	A
Isopropylbenzene	11	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
p-Isopropyltoluene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Methyl Methacrylate	0.8U	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
Methyl t-Butyl Ether	0.7U	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:06	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.8U	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
Methylene Chloride	1J	ug/m3	3,6	1	0.7	0.7	TO-15		10/14/11 06:06	ECB	A
Naphthalene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
iso-Octane	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
n-Propylbenzene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Propylene	0.3U	ug/m3		0.7	0.3	0.3	TO-15		10/14/11 06:06	ECB	A
Styrene	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
1,1,2,2-Tetrachloroethane	1U	ug/m3		3	1	1	TO-15		10/14/11 06:06	ECB	A
Tetrachloroethene	1100	ug/m3		14	7	7	TO-15		10/12/11 22:01	ECB	A
Tetrahydrofuran	4	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:06	ECB	A
Toluene	2	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:06	ECB	A
Total Xylenes	3J	ug/m3		5	3	3	TO-15		10/14/11 06:06	ECB	A
1,2,4-Trichlorobenzene	1U	ug/m3		3	1	1	TO-15		10/14/11 06:06	ECB	A
1,1,1-Trichloroethane	280	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,1,2-Trichloroethane	1J	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Trichloroethene	1400	ug/m3		11	5	5	TO-15		10/12/11 22:01	ECB	A
Trichlorofluoromethane	3	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,2,3-Trichloropropane	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,2,4-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,3,5-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
1,2,3-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:06	ECB	A
Vinyl Acetate	0.7U	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:06	ECB	A
Vinyl Bromide	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
Vinyl Chloride	0.6J	ug/m3		1	0.5	0.5	TO-15		10/14/11 06:06	ECB	A
o-Xylene	1J	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:06	ECB	A
mp-Xylene	2J	ug/m3		3	2	2	TO-15		10/14/11 06:06	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	98	%		70-130			TO-15		10/12/11 22:01	ECB	A
4-Bromofluorobenzene (S)	100	%		70-130			TO-15		10/14/11 06:06	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID:	**9931150001**	Date Collected:	10/6/2011 13:30	Matrix:	Air
Sample ID:	**IN-SITE1-01-10611**	Date Received:	10/7/2011 09:15		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150002** Date Collected: 10/6/2011 14:00 Matrix: Air

Sample ID: **IN-SITE1-02-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	1.6	ppbv	1,2,3	0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Acrylonitrile	0.23J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
tert-Amyl methyl ether	0.24J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Benzene	0.29J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Benzyl Chloride	0.21J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Bromodichloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Bromoform	0.20J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Bromomethane	0.28J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,3-Butadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
n-Butane	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
2-Butanone	0.74	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
tert-Butyl Alcohol	0.25J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Carbon Disulfide	0.33J	ppbv	3	0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Carbon Tetrachloride	0.47	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Chlorobenzene	0.26J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Chlorodibromomethane	0.23J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Chloroethane	0.32J	ppbv	7	0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Chloroform	1.4	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Chloromethane	0.33J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
3-Chloro-1-propene	0.22J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
o-Chlorotoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Cyclohexane	0.22J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,2-Dibromoethane	0.22J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,2-Dichlorobenzene	0.25J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,3-Dichlorobenzene	0.24J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,4-Dichlorobenzene	0.22J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Dichlorodifluoromethane	0.64	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,1-Dichloroethane	5.1	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,2-Dichloroethane	0.47	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,1-Dichloroethene	0.47	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
cis-1,2-Dichloroethene	53	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
trans-1,2-Dichloroethene	0.80	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,2-Dichloropropane	0.24J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
cis-1,3-Dichloropropene	0.22J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
trans-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,3-Dichloropropene, Total	0.40U	ppbv		0.80	0.40	0.40	TO-15		10/14/11 06:51	ECB	A
Diisopropyl ether	0.28U	ppbv		0.40	0.28	0.28	TO-15		10/14/11 06:51	ECB	A
1,4-Dioxane	0.31J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Ethanol	0.84	ppbv	4,5	0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Ethyl Acetate	0.28U	ppbv		0.40	0.28	0.28	TO-15		10/14/11 06:51	ECB	A
Ethyl tert-butyl ether	0.23J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150002** Date Collected: 10/6/2011 14:00 Matrix: Air

Sample ID: **IN-SITE1-02-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.22J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
4-Ethyltoluene	0.23J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Freon 113	7.2	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Freon-114	0.27J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Heptane	0.29J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Hexachlorobutadiene	0.26J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Hexane	0.52	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
2-Hexanone	0.22J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Isopropyl Alcohol	0.90	ppbv	3	0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Isopropylbenzene	0.23J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
p-Isopropyltoluene	0.21J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Methyl methacrylate	0.21J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Methyl t-Butyl Ether	0.38J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.24J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Methylene Chloride	1.4	ppbv	3,6	0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Naphthalene	0.21J	ppbv	3	0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
iso-Octane	0.27J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
n-Propylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Propylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Styrene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,1,2,2-Tetrachloroethane	0.25J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Tetrachloroethene	140	ppbv		2.0	1.0	1.0	TO-15		10/12/11 22:45	ECB	A
Tetrahydrofuran	1.5	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Toluene	0.33J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Total Xylenes	0.75J	ppbv		1.2	0.60	0.60	TO-15		10/14/11 06:51	ECB	A
1,2,4-Trichlorobenzene	0.21J	ppbv	3	0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,1,1-Trichloroethane	49	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,1,2-Trichloroethane	0.40J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Trichloroethene	200	ppbv		2.0	1.0	1.0	TO-15		10/12/11 22:45	ECB	A
Trichlorofluoromethane	0.63	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,2,3-Trichloropropane	0.25J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,2,4-Trimethylbenzene	0.25J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,3,5-Trimethylbenzene	0.20J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
1,2,3-Trimethylbenzene	0.23J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Vinyl Acetate	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Vinyl Bromide	0.28J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
Vinyl Chloride	0.32J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
o-Xylene	0.26J	ppbv		0.40	0.20	0.20	TO-15		10/14/11 06:51	ECB	A
mp-Xylene	0.50J	ppbv		0.80	0.40	0.40	TO-15		10/14/11 06:51	ECB	A
Acetone	4	ug/m3	1,2,3	1	0.5	0.5	TO-15		10/14/11 06:51	ECB	A
Acrylonitrile	0.5J	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 06:51	ECB	A
tert-Amyl methyl ether	1J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150002** Date Collected: 10/6/2011 14:00 Matrix: Air

Sample ID: **IN-SITE1-02-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.9J	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:51	ECB	A
Benzyl Chloride	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Bromodichloromethane	1U	ug/m3		3	1	1	TO-15		10/14/11 06:51	ECB	A
Bromoform	2J	ug/m3		4	2	2	TO-15		10/14/11 06:51	ECB	A
Bromomethane	1J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
1,3-Butadiene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 06:51	ECB	A
n-Butane	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 06:51	ECB	A
2-Butanone	2	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:51	ECB	A
tert-Butyl Alcohol	0.8J	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:51	ECB	A
Carbon Disulfide	1J	ug/m3	3	1	0.6	0.6	TO-15		10/14/11 06:51	ECB	A
Carbon Tetrachloride	3	ug/m3		3	1	1	TO-15		10/14/11 06:51	ECB	A
Chlorobenzene	1J	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
Chlorodibromomethane	2J	ug/m3		3	2	2	TO-15		10/14/11 06:51	ECB	A
Chloroethane	0.8J	ug/m3	7	1	0.5	0.5	TO-15		10/14/11 06:51	ECB	A
Chloroform	7	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Chloromethane	0.7J	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 06:51	ECB	A
3-Chloro-1-propene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:51	ECB	A
o-Chlorotoluene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Cyclohexane	0.8J	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:51	ECB	A
1,2-Dibromoethane	2J	ug/m3		3	2	2	TO-15		10/14/11 06:51	ECB	A
1,2-Dichlorobenzene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,3-Dichlorobenzene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,4-Dichlorobenzene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Dichlorodifluoromethane	3	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,1-Dichloroethane	21	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
1,2-Dichloroethane	2	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
1,1-Dichloroethene	2	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
cis-1,2-Dichloroethene	210	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
trans-1,2-Dichloroethene	3	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
1,2-Dichloropropane	1J	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
cis-1,3-Dichloropropene	1J	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
trans-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
1,3-Dichloropropene, Total	2U	ug/m3		4	2	2	TO-15		10/14/11 06:51	ECB	A
Diisopropyl ether	1U	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,4-Dioxane	1J	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:51	ECB	A
Ethanol	2	ug/m3	4,5	0.8	0.4	0.4	TO-15		10/14/11 06:51	ECB	A
Ethyl Acetate	1U	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Ethyl tert-butyl ether	1J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
Ethylbenzene	1J	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
4-Ethyltoluene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Freon 113	55	ug/m3		3	2	2	TO-15		10/14/11 06:51	ECB	A
Freon-114	2J	ug/m3		3	1	1	TO-15		10/14/11 06:51	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150002** Date Collected: 10/6/2011 14:00 Matrix: Air

Sample ID: **IN-SITE1-02-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	1J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
Hexachlorobutadiene	3J	ug/m3		4	2	2	TO-15		10/14/11 06:51	ECB	A
Hexane	2	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:51	ECB	A
2-Hexanone	0.9J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
Isopropyl Alcohol	2	ug/m3	3	1	0.5	0.5	TO-15		10/14/11 06:51	ECB	A
Isopropylbenzene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
p-Isopropyltoluene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Methyl Methacrylate	0.8J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
Methyl t-Butyl Ether	1J	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:51	ECB	A
4-Methyl-2-Pentanone(MIBK)	1J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
Methylene Chloride	5	ug/m3	3,6	1	0.7	0.7	TO-15		10/14/11 06:51	ECB	A
Naphthalene	1J	ug/m3	3	2	1	1	TO-15		10/14/11 06:51	ECB	A
iso-Octane	1J	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
n-Propylbenzene	1U	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Propylene	0.3U	ug/m3		0.7	0.3	0.3	TO-15		10/14/11 06:51	ECB	A
Styrene	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
1,1,2,2-Tetrachloroethane	2J	ug/m3		3	1	1	TO-15		10/14/11 06:51	ECB	A
Tetrachloroethene	950	ug/m3		14	7	7	TO-15		10/12/11 22:45	ECB	A
Tetrahydrofuran	5	ug/m3		1	0.6	0.6	TO-15		10/14/11 06:51	ECB	A
Toluene	1J	ug/m3		2	0.8	0.8	TO-15		10/14/11 06:51	ECB	A
Total Xylenes	3J	ug/m3		5	3	3	TO-15		10/14/11 06:51	ECB	A
1,2,4-Trichlorobenzene	2J	ug/m3	3	3	1	1	TO-15		10/14/11 06:51	ECB	A
1,1,1-Trichloroethane	270	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,1,2-Trichloroethane	2J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Trichloroethene	1100	ug/m3		11	5	5	TO-15		10/12/11 22:45	ECB	A
Trichlorofluoromethane	4	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,2,3-Trichloropropane	2J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,2,4-Trimethylbenzene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,3,5-Trimethylbenzene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
1,2,3-Trimethylbenzene	1J	ug/m3		2	1	1	TO-15		10/14/11 06:51	ECB	A
Vinyl Acetate	0.7U	ug/m3		1	0.7	0.7	TO-15		10/14/11 06:51	ECB	A
Vinyl Bromide	1J	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
Vinyl Chloride	0.8J	ug/m3		1	0.5	0.5	TO-15		10/14/11 06:51	ECB	A
o-Xylene	1J	ug/m3		2	0.9	0.9	TO-15		10/14/11 06:51	ECB	A
mp-Xylene	2J	ug/m3		3	2	2	TO-15		10/14/11 06:51	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	99	%		70-130			TO-15		10/12/11 22:45	ECB	A
4-Bromofluorobenzene (S)	99	%		70-130			TO-15		10/14/11 06:51	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID:	**9931150002**	Date Collected:	10/6/2011 14:00	Matrix:	Air
Sample ID:	**IN-SITE1-02-10611**	Date Received:	10/7/2011 09:15		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150003** Date Collected: 10/6/2011 13:30 Matrix: Air

Sample ID: **EF-SITE1-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.4	ppbv	1,2,3	0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Acrylonitrile	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
tert-Amyl methyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Benzene	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Bromodichloromethane	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Bromoform	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Bromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,3-Butadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
n-Butane	0.86	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
2-Butanone	0.39	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
tert-Butyl Alcohol	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Carbon Disulfide	0.27	ppbv	3	0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Carbon Tetrachloride	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Chlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Chlorodibromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Chloroethane	0.12J	ppbv	7	0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Chloroform	0.78	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Chloromethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
o-Chlorotoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Cyclohexane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,2-Dibromoethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,2-Dichlorobenzene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,3-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,4-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Dichlorodifluoromethane	0.45	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,1-Dichloroethane	9.2	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,2-Dichloroethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,1-Dichloroethene	0.85	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
cis-1,2-Dichloroethene	100	ppbv		2.0	1.0	1.0	TO-15		10/12/11 23:27	ECB	A
trans-1,2-Dichloroethene	1.0	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,2-Dichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
cis-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 07:34	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/14/11 07:34	ECB	A
1,4-Dioxane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Ethanol	0.77	ppbv	4,5	0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/14/11 07:34	ECB	A
Ethyl tert-butyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150003** Date Collected: 10/6/2011 13:30 Matrix: Air

Sample ID: **EF-SITE1-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
4-Ethyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Freon 113	16	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Freon-114	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Heptane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Hexachlorobutadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Hexane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
2-Hexanone	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Isopropyl Alcohol	0.34	ppbv	3	0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Isopropylbenzene	9.3	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
p-Isopropyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Methyl methacrylate	0.25	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Methyl t-Butyl Ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Methylene Chloride	0.27	ppbv	3,6	0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Naphthalene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
iso-Octane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
n-Propylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Styrene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,1,2,2-Tetrachloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Tetrachloroethene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Tetrahydrofuran	23	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Toluene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Total Xylenes	0.30U	ppbv		0.60	0.30	0.30	TO-15		10/14/11 07:34	ECB	A
1,2,4-Trichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,1,1-Trichloroethane	64	ppbv		2.0	1.0	1.0	TO-15		10/12/11 23:27	ECB	A
1,1,2-Trichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Trichloroethene	1.2	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Trichlorofluoromethane	0.41	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,2,3-Trichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,2,4-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,3,5-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
1,2,3-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Vinyl Bromide	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
Vinyl Chloride	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
o-Xylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/14/11 07:34	ECB	A
mp-Xylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/14/11 07:34	ECB	A
Acetone	8	ug/m3	1,2,3	0.5	0.2	0.2	TO-15		10/14/11 07:34	ECB	A
Acrylonitrile	0.2J	ug/m3		0.4	0.2	0.2	TO-15		10/14/11 07:34	ECB	A
tert-Amyl methyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150003** Date Collected: 10/6/2011 13:30 Matrix: Air

Sample ID: **EF-SITE1-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Bromodichloromethane	0.7J	ug/m3		1	0.7	0.7	TO-15		10/14/11 07:34	ECB	A
Bromoform	1U	ug/m3		2	1	1	TO-15		10/14/11 07:34	ECB	A
Bromomethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
1,3-Butadiene	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/14/11 07:34	ECB	A
n-Butane	2	ug/m3		0.5	0.2	0.2	TO-15		10/14/11 07:34	ECB	A
2-Butanone	1	ug/m3		0.6	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
tert-Butyl Alcohol	0.3J	ug/m3		0.6	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
Carbon Disulfide	0.8	ug/m3	3	0.6	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
Carbon Tetrachloride	1J	ug/m3		1	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
Chlorobenzene	0.5U	ug/m3		0.9	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Chlorodibromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		10/14/11 07:34	ECB	A
Chloroethane	0.3J	ug/m3	7	0.5	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
Chloroform	4	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Chloromethane	0.3J	ug/m3		0.4	0.2	0.2	TO-15		10/14/11 07:34	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
o-Chlorotoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Cyclohexane	0.3U	ug/m3		0.7	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
1,2-Dibromoethane	0.8U	ug/m3		2	0.8	0.8	TO-15		10/14/11 07:34	ECB	A
1,2-Dichlorobenzene	0.6J	ug/m3		1	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
1,3-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
1,4-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
Dichlorodifluoromethane	2	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
1,1-Dichloroethane	37	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
1,2-Dichloroethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
1,1-Dichloroethene	3	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
cis-1,2-Dichloroethene	400	ug/m3		8	4	4	TO-15		10/12/11 23:27	ECB	A
trans-1,2-Dichloroethene	4	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
1,2-Dichloropropane	0.5U	ug/m3		0.9	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
cis-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 07:34	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
1,4-Dioxane	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Ethanol	1	ug/m3	4,5	0.4	0.2	0.2	TO-15		10/14/11 07:34	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Ethyl tert-butyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Ethylbenzene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
4-Ethyltoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Freon 113	120	ug/m3		2	0.8	0.8	TO-15		10/14/11 07:34	ECB	A
Freon-114	0.7U	ug/m3		1	0.7	0.7	TO-15		10/14/11 07:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150003** Date Collected: 10/6/2011 13:30 Matrix: Air

Sample ID: **EF-SITE1-10611** Date Received: 10/7/2011 09:15

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Hexachlorobutadiene	1U	ug/m3		2	1	1	TO-15		10/14/11 07:34	ECB	A
Hexane	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
2-Hexanone	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Isopropyl Alcohol	0.8	ug/m3	3	0.5	0.2	0.2	TO-15		10/14/11 07:34	ECB	A
Isopropylbenzene	46	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
p-Isopropyltoluene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
Methyl Methacrylate	1	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Methyl t-Butyl Ether	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Methylene Chloride	1	ug/m3	3,6	0.7	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Naphthalene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
iso-Octane	0.5U	ug/m3		0.9	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
n-Propylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		10/14/11 07:34	ECB	A
Styrene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
1,1,2,2-Tetrachloroethane	0.7U	ug/m3		1	0.7	0.7	TO-15		10/14/11 07:34	ECB	A
Tetrachloroethene	0.7J	ug/m3		1	0.7	0.7	TO-15		10/14/11 07:34	ECB	A
Tetrahydrofuran	68	ug/m3		0.6	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
Toluene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Total Xylenes	1U	ug/m3		3	1	1	TO-15		10/14/11 07:34	ECB	A
1,2,4-Trichlorobenzene	0.7U	ug/m3		1	0.7	0.7	TO-15		10/14/11 07:34	ECB	A
1,1,1-Trichloroethane	350	ug/m3		11	6	6	TO-15		10/12/11 23:27	ECB	A
1,1,2-Trichloroethane	0.6U	ug/m3		1	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
Trichloroethene	6	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
1,2,3-Trichloropropane	0.6U	ug/m3		1	0.6	0.6	TO-15		10/14/11 07:34	ECB	A
1,2,4-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
1,3,5-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
1,2,3-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/14/11 07:34	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Vinyl Bromide	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
Vinyl Chloride	0.4J	ug/m3		0.5	0.3	0.3	TO-15		10/14/11 07:34	ECB	A
o-Xylene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/14/11 07:34	ECB	A
mp-Xylene	0.9U	ug/m3		2	0.9	0.9	TO-15		10/14/11 07:34	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	100	%		70-130			TO-15		10/12/11 23:27	ECB	A
4-Bromofluorobenzene (S)	99	%		70-130			TO-15		10/14/11 07:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID:	**9931150003**	Date Collected:	10/6/2011 13:30	Matrix:	Air
Sample ID:	**EF-SITE1-10611**	Date Received:	10/7/2011 09:15		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

Anna G Milliken
Technical Manager

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

PARAMETER QUALIFIERS\FLAGS

[1] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Acetone. The % Recovery was reported as 142 and the control limits were 60 to 140.

[2] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Acetone. The % Recovery was reported as 141 and the control limits were 60 to 140.

[3] This compound was dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

[4] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 185 and the control limits were 60 to 140.

[5] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Ethanol. The RPD was reported as 45 and the upper control limit is 30.

[6] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 143 and the control limits were 60 to 140.

[7] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 142 and the control limits were 60 to 140.

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___
Courier: FED EX
Tracking #: 8750 4200 4517

9931150

Co. Name: H&S Environmental, Inc.
Contact (Report to): Jen Good   Phone: 508.366.7442
Address: 160 E. Main St., Suite 2F, Westborough, MA 01581

Bill to (if different than Report to): Same   PO#: 2034-003

Project Name/#: NWIRP Bethpage Site 1 Monthly Vapor   ALSI Quote #:

TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:

Email? [x] -Y jgood@hsenv.com
Fax? [ ] -Y No.:

**Container Type: 6L; **Container Size: summa; ***Preservative: –

ANALYSES/METHOD REQUESTED: VOCs (TO-15) - full list

Enter Number of Containers Per Analysis

#	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs (TO-15) - full list
1	IN-site1 -01 -10611	Can # 1533	10/6	1330	G	AIR	1
2	IN-site1 -02 -10611	Can # 1832	10/6	1400	G	AIR	1
3	EF-site1 -10611	Can # 1797	10/6	1330	G	AIR	1
4							
5							
6							
7							
8							

(completed by Sample ...)
Performed by: [signature]
Cooler Temp: N/A
Therm. ID:
No. of Coolers:
Notes:

Check	Y	N
Correct containers?	(Y)	N
Correct sample volume?	(Y)	N
Correct preservation?	(Y)	N
Headspace/Volatiles?	–	–
Circle appropriate Y or N.		
Custody seals Present?	Y	(N)
(if present) Seals intact?	Y	N
Received on ice?	Y	(N)
COC/Labels complete/accurate?	(Y)	N
Container in good condition?	(Y)	N

SAMPLED BY (Please Print): G. Gangemi
LOGGED BY(signature): [signature] Date: 10/10/11 Time: 1532
REVIEWED BY(signature): [signature] Date: 10/11/11

#	Relinquished By / Company Name	Date	Time	#	Received By / Company Name	Date	Time
1	[signature]	10/6	1400	2	[signature] - ALS	10/7/11	0915
3				4			
5				6			
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] (other)
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ] Other PWSID
State Samples Collected In? MD [ ] NJ [ ] NY [x] PA [ ]

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY   Rev 08-2008

ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: H&S ENVIRONMENTAL
Horizon WO#: 9931150
Sample Delivery Group ID: _____
Log In By/Date: Katie Stortzl 10/10/11
(signature) Katie Stortzl
Number of Shipping containers received: 1

Project Name/#: NWIRP BETHPAGE BASE #1
Date/Time received: 10/7/11 0915
Received By: S. MILLER
Project Manager Review (date) _____
(signature) _____
Courier: 8750 4200 4517

Circle the response below as appropriate.

1.	Did kit(s) come with a shipping slip (airbill, etc.)?	(YES)	NO	NA
	If YES, enter airbill numbers: _____			
Shipping Container Information:				
2.	Were shipping containers received without signs of tampering?	(YES)	NO	NA
	Comments _____			
3.	Were custody seals present and intact? SU 10/7/11	(YES)	(NO)	NA
4.	Were custody seals numbers present?	YES	(NO)	NA
	List Custody Seal Numbers:			
Sample Condition:				
5.	Were sample containers received intact without signs of tampering?	(YES)	NO	NA
	Comments _____			
Chain of Custody:				
6.	Did COC arrive with the samples?	(YES)	NO	NA
7.	Do sample ID/Sample Description(s) match samples submitted?	(YES)	NO	NA
8.	Is date and time of collection listed on the COC for all samples?	(YES)	NO	NA
9.	Is identification of sampler on COC?	(YES)	NO	NA
10.	Are requested test method(s) on COC?	(YES)	NO	NA
11.	Are necessary signatures on COC?	(YES)	NO	NA
12.	Was Internal COC initiated? (should always be YES)	(YES)	NO	NA
Sample Integrity Usability:				
13.	Do sample containers match the COC?	(YES)	NO	NA
14.	Were sample canisters received within 15 days of shipment to client	(YES)	NO	NA

Anomalies or Non-Conformances: _____

Rev. 2/2011

November 2011 Monthly Data

ALS Environmental

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November 18, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name:	**NWIRP Bethpage - GM-38**	Workorder:	**9936197**
Purchase Order:		Workorder ID:	**HNW031|NWIRP Bethpage - GM-38**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 05, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38 Discard Date: 01/17/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9936197001	SVE-Site 1-TI-110411	Air	11/4/11 13:00	11/5/11 08:53	Customer
9936197002	SVE-Site 1-TE110411	Air	11/4/11 13:00	11/5/11 08:53	Customer
9936197003	SVE-Site 1-TI-DUP110411	Air	11/4/11 13:30	11/5/11 08:53	Customer

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197001** Date Collected: 11/4/2011 13:00 Matrix: Air

Sample ID: **SVE-Site 1-TI-110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.2	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Acrylonitrile	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
tert-Amyl methyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Benzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Benzyl Chloride	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Bromodichloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Bromoform	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Bromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,3-Butadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
n-Butane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
2-Butanone	3.1	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
tert-Butyl Alcohol	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Carbon Disulfide	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Carbon Tetrachloride	0.31J	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Chlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Chlorodibromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Chloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Chloroform	0.73	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Chloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
3-Chloro-1-propene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
o-Chlorotoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Cyclohexane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,2-Dibromoethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,2-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,3-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,4-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Dichlorodifluoromethane	0.46	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,1-Dichloroethane	4.9	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,2-Dichloroethane	0.21J	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,1-Dichloroethene	0.85	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
cis-1,2-Dichloroethene	44	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
trans-1,2-Dichloroethene	0.54	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,2-Dichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
cis-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
trans-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,3-Dichloropropene, Total	0.40U	ppbv		0.80	0.40	0.40	TO-15		11/18/11 00:12	ECB	A
Diisopropyl ether	0.28U	ppbv		0.40	0.28	0.28	TO-15		11/18/11 00:12	ECB	A
1,4-Dioxane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Ethanol	0.98	ppbv	1	0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Ethyl Acetate	0.28U	ppbv		0.40	0.28	0.28	TO-15		11/18/11 00:12	ECB	A
Ethyl tert-butyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197001** Date Collected: 11/4/2011 13:00 Matrix: Air

Sample ID: **SVE-Site 1-TI-110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
4-Ethyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Freon 113	11	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Freon-114	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Heptane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Hexachlorobutadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Hexane	0.55	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
2-Hexanone	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Isopropyl Alcohol	0.38J	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Isopropylbenzene	1.8	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
p-Isopropyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Methyl methacrylate	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Methyl t-Butyl Ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Methylene Chloride	1.0	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Naphthalene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
iso-Octane	0.99	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
n-Propylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Propylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Styrene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,1,2,2-Tetrachloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Tetrachloroethene	140	ppbv		2.0	1.0	1.0	TO-15		11/16/11 03:32	ECB	A
Tetrahydrofuran	7.7	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Toluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Total Xylenes	0.60U	ppbv		1.2	0.60	0.60	TO-15		11/18/11 00:12	ECB	A
1,2,4-Trichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,1,1-Trichloroethane	49	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,1,2-Trichloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Trichloroethene	220	ppbv		2.0	1.0	1.0	TO-15		11/16/11 03:32	ECB	A
Trichlorofluoromethane	1.9	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,2,3-Trichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,2,4-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,3,5-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
1,2,3-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Vinyl Acetate	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Vinyl Bromide	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
Vinyl Chloride	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
o-Xylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:12	ECB	A
mp-Xylene	0.40U	ppbv		0.80	0.40	0.40	TO-15		11/18/11 00:12	ECB	A
Acetone	8	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:12	ECB	A
Acrylonitrile	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 00:12	ECB	A
tert-Amyl methyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197001** Date Collected: 11/4/2011 13:00 Matrix: Air

Sample ID: **SVE-Site 1-TI-110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:12	ECB	A
Benzyl Chloride	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Bromodichloromethane	1U	ug/m3		3	1	1	TO-15		11/18/11 00:12	ECB	A
Bromoform	2U	ug/m3		4	2	2	TO-15		11/18/11 00:12	ECB	A
Bromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
1,3-Butadiene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 00:12	ECB	A
n-Butane	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:12	ECB	A
2-Butanone	9	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:12	ECB	A
tert-Butyl Alcohol	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:12	ECB	A
Carbon Disulfide	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:12	ECB	A
Carbon Tetrachloride	2J	ug/m3		3	1	1	TO-15		11/18/11 00:12	ECB	A
Chlorobenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
Chlorodibromomethane	2U	ug/m3		3	2	2	TO-15		11/18/11 00:12	ECB	A
Chloroethane	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:12	ECB	A
Chloroform	4	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Chloromethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:12	ECB	A
3-Chloro-1-propene	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:12	ECB	A
o-Chlorotoluene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Cyclohexane	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:12	ECB	A
1,2-Dibromoethane	2U	ug/m3		3	2	2	TO-15		11/18/11 00:12	ECB	A
1,2-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,3-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,4-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Dichlorodifluoromethane	2	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,1-Dichloroethane	20	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
1,2-Dichloroethane	0.9J	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
1,1-Dichloroethene	3	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
cis-1,2-Dichloroethene	170	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
trans-1,2-Dichloroethene	2	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
1,2-Dichloropropane	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
cis-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
trans-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
1,3-Dichloropropene, Total	2U	ug/m3		4	2	2	TO-15		11/18/11 00:12	ECB	A
Diisopropyl ether	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,4-Dioxane	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:12	ECB	A
Ethanol	2	ug/m3	1	0.8	0.4	0.4	TO-15		11/18/11 00:12	ECB	A
Ethyl Acetate	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Ethyl tert-butyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
Ethylbenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
4-Ethyltoluene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Freon 113	82	ug/m3		3	2	2	TO-15		11/18/11 00:12	ECB	A
Freon-114	1U	ug/m3		3	1	1	TO-15		11/18/11 00:12	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197001** Date Collected: 11/4/2011 13:00 Matrix: Air

Sample ID: **SVE-Site 1-TI-110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
Hexachlorobutadiene	2U	ug/m3		4	2	2	TO-15		11/18/11 00:12	ECB	A
Hexane	2	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:12	ECB	A
2-Hexanone	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
Isopropyl Alcohol	0.9J	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:12	ECB	A
Isopropylbenzene	9	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
p-Isopropyltoluene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Methyl Methacrylate	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
Methyl t-Butyl Ether	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:12	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
Methylene Chloride	3	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:12	ECB	A
Naphthalene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
iso-Octane	5	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
n-Propylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Propylene	0.3U	ug/m3		0.7	0.3	0.3	TO-15		11/18/11 00:12	ECB	A
Styrene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
1,1,2,2-Tetrachloroethane	1U	ug/m3		3	1	1	TO-15		11/18/11 00:12	ECB	A
Tetrachloroethene	940	ug/m3		14	7	7	TO-15		11/16/11 03:32	ECB	A
Tetrahydrofuran	23	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:12	ECB	A
Toluene	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:12	ECB	A
Total Xylenes	3U	ug/m3		5	3	3	TO-15		11/18/11 00:12	ECB	A
1,2,4-Trichlorobenzene	1U	ug/m3		3	1	1	TO-15		11/18/11 00:12	ECB	A
1,1,1-Trichloroethane	270	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,1,2-Trichloroethane	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Trichloroethene	1200	ug/m3		11	5	5	TO-15		11/16/11 03:32	ECB	A
Trichlorofluoromethane	11	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,2,3-Trichloropropane	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,2,4-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,3,5-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
1,2,3-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:12	ECB	A
Vinyl Acetate	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:12	ECB	A
Vinyl Bromide	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
Vinyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:12	ECB	A
o-Xylene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:12	ECB	A
mp-Xylene	2U	ug/m3		3	2	2	TO-15		11/18/11 00:12	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	96	%		70-130			TO-15		11/16/11 03:32	ECB	A
4-Bromofluorobenzene (S)	99	%		70-130			TO-15		11/18/11 00:12	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID:	**9936197001**	Date Collected:	11/4/2011 13:00	Matrix:	Air
Sample ID:	**SVE-Site 1-TI-110411**	Date Received:	11/5/2011 08:53		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197002** Date Collected: 11/4/2011 13:00 Matrix: Air

Sample ID: **SVE-Site 1-TE110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	2.5	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
tert-Amyl methyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Benzene	0.10J	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Bromodichloromethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Bromoform	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Bromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,3-Butadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
n-Butane	0.60	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
2-Butanone	0.18J	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
tert-Butyl Alcohol	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Carbon Disulfide	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Carbon Tetrachloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Chlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Chlorodibromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Chloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Chloroform	0.64	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Chloromethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
o-Chlorotoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Cyclohexane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,2-Dibromoethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,2-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,3-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,4-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Dichlorodifluoromethane	0.45	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,1-Dichloroethane	7.1	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,2-Dichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,1-Dichloroethene	0.56	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
cis-1,2-Dichloroethene	50	ppbv		2.0	1.0	1.0	TO-15		11/16/11 04:18	ECB	A
trans-1,2-Dichloroethene	0.71	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,2-Dichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
cis-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:54	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		11/18/11 00:54	ECB	A
1,4-Dioxane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Ethanol	1.1	ppbv	1	0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		11/18/11 00:54	ECB	A
Ethyl tert-butyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197002** Date Collected: 11/4/2011 13:00 Matrix: Air

Sample ID: **SVE-Site 1-TE110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
4-Ethyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Freon 113	12	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Freon-114	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Heptane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Hexachlorobutadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Hexane	0.99	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
2-Hexanone	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Isopropyl Alcohol	0.37	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Isopropylbenzene	0.78	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
p-Isopropyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Methyl methacrylate	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Methyl t-Butyl Ether	0.27	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Methylene Chloride	6.6	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Naphthalene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
iso-Octane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
n-Propylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Styrene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,1,2,2-Tetrachloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Tetrachloroethene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Tetrahydrofuran	16	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Toluene	0.18J	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Total Xylenes	0.30U	ppbv		0.60	0.30	0.30	TO-15		11/18/11 00:54	ECB	A
1,2,4-Trichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,1,1-Trichloroethane	34	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,1,2-Trichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Trichloroethene	1.6	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Trichlorofluoromethane	0.35	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,2,3-Trichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,2,4-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,3,5-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
1,2,3-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Vinyl Bromide	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
Vinyl Chloride	0.11J	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
o-Xylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		11/18/11 00:54	ECB	A
mp-Xylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 00:54	ECB	A
Acetone	6	ug/m3		0.5	0.2	0.2	TO-15		11/18/11 00:54	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		11/18/11 00:54	ECB	A
tert-Amyl methyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197002** Date Collected: 11/4/2011 13:00 Matrix: Air

Sample ID: **SVE-Site 1-TE110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.3J	ug/m3		0.6	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Bromodichloromethane	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:54	ECB	A
Bromoform	1U	ug/m3		2	1	1	TO-15		11/18/11 00:54	ECB	A
Bromomethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
1,3-Butadiene	0.2U	ug/m3		0.4	0.2	0.2	TO-15		11/18/11 00:54	ECB	A
n-Butane	1	ug/m3		0.5	0.2	0.2	TO-15		11/18/11 00:54	ECB	A
2-Butanone	0.5J	ug/m3		0.6	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
tert-Butyl Alcohol	0.3U	ug/m3		0.6	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
Carbon Disulfide	0.3U	ug/m3		0.6	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
Carbon Tetrachloride	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
Chlorobenzene	0.5U	ug/m3		0.9	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Chlorodibromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:54	ECB	A
Chloroethane	0.3U	ug/m3		0.5	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
Chloroform	3	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Chloromethane	0.2J	ug/m3		0.4	0.2	0.2	TO-15		11/18/11 00:54	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
o-Chlorotoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Cyclohexane	0.3U	ug/m3		0.7	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
1,2-Dibromoethane	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:54	ECB	A
1,2-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
1,3-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
1,4-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
Dichlorodifluoromethane	2	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
1,1-Dichloroethane	29	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
1,2-Dichloroethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
1,1-Dichloroethene	2	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
cis-1,2-Dichloroethene	200	ug/m3		8	4	4	TO-15		11/16/11 04:18	ECB	A
trans-1,2-Dichloroethene	3	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
1,2-Dichloropropane	0.5U	ug/m3		0.9	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
cis-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:54	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
1,4-Dioxane	0.4U	ug/m3		0.7	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Ethanol	2	ug/m3	1	0.4	0.2	0.2	TO-15		11/18/11 00:54	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Ethyl tert-butyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Ethylbenzene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
4-Ethyltoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Freon 113	95	ug/m3		2	0.8	0.8	TO-15		11/18/11 00:54	ECB	A
Freon-114	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:54	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197002** Date Collected: 11/4/2011 13:00 Matrix: Air

Sample ID: **SVE-Site 1-TE110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Hexachlorobutadiene	1U	ug/m3		2	1	1	TO-15		11/18/11 00:54	ECB	A
Hexane	3	ug/m3		0.7	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
2-Hexanone	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Isopropyl Alcohol	0.9	ug/m3		0.5	0.2	0.2	TO-15		11/18/11 00:54	ECB	A
Isopropylbenzene	4	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
p-Isopropyltoluene	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
Methyl Methacrylate	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Methyl t-Butyl Ether	1	ug/m3		0.7	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Methylene Chloride	23	ug/m3		0.7	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Naphthalene	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
iso-Octane	0.5U	ug/m3		0.9	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
n-Propylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		11/18/11 00:54	ECB	A
Styrene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
1,1,2,2-Tetrachloroethane	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:54	ECB	A
Tetrachloroethene	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:54	ECB	A
Tetrahydrofuran	48	ug/m3		0.6	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
Toluene	0.7J	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Total Xylenes	1U	ug/m3		3	1	1	TO-15		11/18/11 00:54	ECB	A
1,2,4-Trichlorobenzene	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 00:54	ECB	A
1,1,1-Trichloroethane	190	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
1,1,2-Trichloroethane	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
Trichloroethene	9	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
1,2,3-Trichloropropane	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 00:54	ECB	A
1,2,4-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
1,3,5-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
1,2,3-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 00:54	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Vinyl Bromide	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
Vinyl Chloride	0.3J	ug/m3		0.5	0.3	0.3	TO-15		11/18/11 00:54	ECB	A
o-Xylene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 00:54	ECB	A
mp-Xylene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 00:54	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	100	%		70-130			TO-15		11/16/11 04:18	ECB	A
4-Bromofluorobenzene (S)	99	%		70-130			TO-15		11/18/11 00:54	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID:	**9936197002**	Date Collected:	11/4/2011 13:00	Matrix:	Air
Sample ID:	**SVE-Site 1-TE110411**	Date Received:	11/5/2011 08:53		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197003** Date Collected: 11/4/2011 13:30 Matrix: Air

Sample ID: **SVE-Site 1-TI-DUP110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	2.0	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Acrylonitrile	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
tert-Amyl methyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Benzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Benzyl Chloride	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Bromodichloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Bromoform	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Bromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,3-Butadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
n-Butane	0.53	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
2-Butanone	2.8	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
tert-Butyl Alcohol	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Carbon Disulfide	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Carbon Tetrachloride	0.39J	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Chlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Chlorodibromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Chloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Chloroform	0.78	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Chloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
3-Chloro-1-propene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
o-Chlorotoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Cyclohexane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,2-Dibromoethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,2-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,3-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,4-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Dichlorodifluoromethane	0.51	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,1-Dichloroethane	5.1	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,2-Dichloroethane	0.25J	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,1-Dichloroethene	0.89	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
cis-1,2-Dichloroethene	45	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
trans-1,2-Dichloroethene	0.62	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,2-Dichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
cis-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
trans-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,3-Dichloropropene, Total	0.40U	ppbv		0.80	0.40	0.40	TO-15		11/18/11 01:36	ECB	A
Diisopropyl ether	0.28U	ppbv		0.40	0.28	0.28	TO-15		11/18/11 01:36	ECB	A
1,4-Dioxane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Ethanol	0.83	ppbv	1	0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Ethyl Acetate	0.28U	ppbv		0.40	0.28	0.28	TO-15		11/18/11 01:36	ECB	A
Ethyl tert-butyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197003** Date Collected: 11/4/2011 13:30 Matrix: Air

Sample ID: **SVE-Site 1-TI-DUP110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
4-Ethyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Freon 113	11	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Freon-114	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Heptane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Hexachlorobutadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Hexane	0.56	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
2-Hexanone	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Isopropyl Alcohol	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Isopropylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
p-Isopropyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Methyl methacrylate	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Methyl t-Butyl Ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Methylene Chloride	0.84	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Naphthalene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
iso-Octane	1.0	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
n-Propylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Propylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Styrene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,1,2,2-Tetrachloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Tetrachloroethene	140	ppbv		2.0	1.0	1.0	TO-15		11/16/11 05:04	ECB	A
Tetrahydrofuran	7.7	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Toluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Total Xylenes	0.60U	ppbv		1.2	0.60	0.60	TO-15		11/18/11 01:36	ECB	A
1,2,4-Trichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,1,1-Trichloroethane	52	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,1,2-Trichloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Trichloroethene	210	ppbv		2.0	1.0	1.0	TO-15		11/16/11 05:04	ECB	A
Trichlorofluoromethane	2.1	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,2,3-Trichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,2,4-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,3,5-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
1,2,3-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Vinyl Acetate	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Vinyl Bromide	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
Vinyl Chloride	0.23J	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
o-Xylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		11/18/11 01:36	ECB	A
mp-Xylene	0.40U	ppbv		0.80	0.40	0.40	TO-15		11/18/11 01:36	ECB	A
Acetone	5	ug/m3		1	0.5	0.5	TO-15		11/18/11 01:36	ECB	A
Acrylonitrile	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 01:36	ECB	A
tert-Amyl methyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197003** Date Collected: 11/4/2011 13:30 Matrix: Air

Sample ID: **SVE-Site 1-TI-DUP110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 01:36	ECB	A
Benzyl Chloride	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Bromodichloromethane	1U	ug/m3		3	1	1	TO-15		11/18/11 01:36	ECB	A
Bromoform	2U	ug/m3		4	2	2	TO-15		11/18/11 01:36	ECB	A
Bromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
1,3-Butadiene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		11/18/11 01:36	ECB	A
n-Butane	1	ug/m3		1	0.5	0.5	TO-15		11/18/11 01:36	ECB	A
2-Butanone	8	ug/m3		1	0.6	0.6	TO-15		11/18/11 01:36	ECB	A
tert-Butyl Alcohol	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 01:36	ECB	A
Carbon Disulfide	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 01:36	ECB	A
Carbon Tetrachloride	2J	ug/m3		3	1	1	TO-15		11/18/11 01:36	ECB	A
Chlorobenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
Chlorodibromomethane	2U	ug/m3		3	2	2	TO-15		11/18/11 01:36	ECB	A
Chloroethane	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 01:36	ECB	A
Chloroform	4	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Chloromethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		11/18/11 01:36	ECB	A
3-Chloro-1-propene	0.6U	ug/m3		1	0.6	0.6	TO-15		11/18/11 01:36	ECB	A
o-Chlorotoluene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Cyclohexane	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 01:36	ECB	A
1,2-Dibromoethane	2U	ug/m3		3	2	2	TO-15		11/18/11 01:36	ECB	A
1,2-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,3-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,4-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Dichlorodifluoromethane	3	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,1-Dichloroethane	21	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
1,2-Dichloroethane	1J	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
1,1-Dichloroethene	4	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
cis-1,2-Dichloroethene	180	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
trans-1,2-Dichloroethene	2	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
1,2-Dichloropropane	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
cis-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
trans-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
1,3-Dichloropropene, Total	2U	ug/m3		4	2	2	TO-15		11/18/11 01:36	ECB	A
Diisopropyl ether	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,4-Dioxane	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 01:36	ECB	A
Ethanol	2	ug/m3	1	0.8	0.4	0.4	TO-15		11/18/11 01:36	ECB	A
Ethyl Acetate	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Ethyl tert-butyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
Ethylbenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
4-Ethyltoluene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Freon 113	86	ug/m3		3	2	2	TO-15		11/18/11 01:36	ECB	A
Freon-114	1U	ug/m3		3	1	1	TO-15		11/18/11 01:36	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197003** Date Collected: 11/4/2011 13:30 Matrix: Air

Sample ID: **SVE-Site 1-TI-DUP110411** Date Received: 11/5/2011 08:53

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
Hexachlorobutadiene	2U	ug/m3		4	2	2	TO-15		11/18/11 01:36	ECB	A
Hexane	2	ug/m3		1	0.7	0.7	TO-15		11/18/11 01:36	ECB	A
2-Hexanone	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
Isopropyl Alcohol	0.5U	ug/m3		1	0.5	0.5	TO-15		11/18/11 01:36	ECB	A
Isopropylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
p-Isopropyltoluene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Methyl Methacrylate	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
Methyl t-Butyl Ether	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 01:36	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
Methylene Chloride	3	ug/m3		1	0.7	0.7	TO-15		11/18/11 01:36	ECB	A
Naphthalene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
iso-Octane	5	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
n-Propylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Propylene	0.3U	ug/m3		0.7	0.3	0.3	TO-15		11/18/11 01:36	ECB	A
Styrene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
1,1,2,2-Tetrachloroethane	1U	ug/m3		3	1	1	TO-15		11/18/11 01:36	ECB	A
Tetrachloroethene	920	ug/m3		14	7	7	TO-15		11/16/11 05:04	ECB	A
Tetrahydrofuran	23	ug/m3		1	0.6	0.6	TO-15		11/18/11 01:36	ECB	A
Toluene	0.8U	ug/m3		2	0.8	0.8	TO-15		11/18/11 01:36	ECB	A
Total Xylenes	3U	ug/m3		5	3	3	TO-15		11/18/11 01:36	ECB	A
1,2,4-Trichlorobenzene	1U	ug/m3		3	1	1	TO-15		11/18/11 01:36	ECB	A
1,1,1-Trichloroethane	280	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,1,2-Trichloroethane	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Trichloroethene	1100	ug/m3		11	5	5	TO-15		11/16/11 05:04	ECB	A
Trichlorofluoromethane	12	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,2,3-Trichloropropane	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,2,4-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,3,5-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
1,2,3-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		11/18/11 01:36	ECB	A
Vinyl Acetate	0.7U	ug/m3		1	0.7	0.7	TO-15		11/18/11 01:36	ECB	A
Vinyl Bromide	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
Vinyl Chloride	0.6J	ug/m3		1	0.5	0.5	TO-15		11/18/11 01:36	ECB	A
o-Xylene	0.9U	ug/m3		2	0.9	0.9	TO-15		11/18/11 01:36	ECB	A
mp-Xylene	2U	ug/m3		3	2	2	TO-15		11/18/11 01:36	ECB	A

Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*	*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	100	%		70-130	TO-15		11/16/11 05:04	ECB	A
4-Bromofluorobenzene (S)	101	%		70-130	TO-15		11/18/11 01:36	ECB	A

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID:	**9936197003**	Date Collected:	11/4/2011 13:30	Matrix:	Air
Sample ID:	**SVE-Site 1-TI-DUP110411**	Date Received:	11/5/2011 08:53		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

ALS Environmental

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

PARAMETER QUALIFIERS\FLAGS

[1] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 157 and the control limits were 60 to 140.

ALS Environmental | Analytical Laboratory Services, Inc.

SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

AIR ANALYSIS
CHAIN-OF-CUSTODY/FIELD TEST DATA SHEET

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

COC | ALS | of

* 9 9 3 6 1 9 7 *

1. CLIENT INFORMATION

Client Name/Address: H+S environmental
Contact: Jen Good
Phone#: 508 366 - 7442
Project Name/#: NWIRP Bethpage Site 1
Bill To:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-___TAT Subject to ALSI approval and surcharges.
Date Required: Approved By:
Email? [X]-Y JGood@hsenv.com
Fax? [ ]-Y No.:

2. ANALYSES/METHOD REQUESTED

✓ APPROPRIATE TEST CODE/ANALYTE LIST.

No.	TO-15 Analysis:	STD LIST	UST LIST	OTHER
1	Full			
2	List			
3				
4				
5				
6				
7				
8				
9				
10				

3. LABORATORY

LABORATORY CANISTER CERTIFIED BY:
GC/MS Analyst Signature: Erin CBoyd
CANISTERS PREPARED BY:
Name: Erin CBoyd
Title: Sr GCMS Analyst
Custody Sealed Date/Time: 10/27/11 1350
Date Shipped to Client: 10/27/11
Custody Seal #(s): #0227

RECEIVING INFORMATION:

	Y	N	Initial
COC Complete/Accurate?			
Labels Complete/Accurate?			
Cont. In Good Cond.?			
Custody Seals Present?			
(If present) Seals Intact?			
Returned in ≤ 15 days?			
Custody Seal #(s):			
Courier/Tracking #:			

4. FIELD DATA SHEET

Sample Description/Location (as it will appear on the lab report)	Sample Type (Choose one: IA-indoor air, AS-ambient soil, V-vapor, SS-sub-slab)	Sample Date	Start Time	Stop Time	Temp Deg C	1L	6L	Canister No.	Flow Controller No.	Canister Pressure ("Hg) Start	Canister Pressure ("Hg) Stop	Canister Certification File	Canister Pressure ("Hg) Out	Canister Pressure ("Hg) In	Flow Controller Setpoint (mL/min)
1 SVE-site1-TI-110411	AIR	11/04/11	1230	1300			X	1371	7316777	30	-5				
2 SVE-Site1-TE-110411	AIR	11/04/11	1230	1300			X	1513	7308364	30	-10				
3 SVE-Site1-~~TE~~-DUP-110411	AIR	11/04/11	1300	1330			X	1267	7288477	30	-5				
4															
5															
6															
7															
8															
9															
10															

5. SAMPLED BY (Please Print):

LOGGED BY(signature): K. Snow DATE 11/18/11 TIME 1406
REVIEWED BY(signature): DATE TIME

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	11/04/11	1450	2	[signature]	11/5	853
3				4			
5				6			
7				8			
9				10			

6. PROJECT INFORMATION

Data Deliverables: [ ] Standard [ ] CLP-like [ ] DOD [ ] TO-15 [ ] Other
EDDs-Format Type:
ALSI Field Services: ☐ Pickup ☐ Labor
Other:

State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC [ ] other

Phone: 1-717-944-5541 ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057 Rev 03Mar2011

Bethpage Site 1 Sampling Form

Sampler: [signature] **Signature:** [signature]

Date: 11/09/11 **Date:** 11/09/11

Note: all pressures in "H20 unless otherwise specified

Sampling Port	Can #	Reg #	P0	P5	P10	P15	P20	P25	P30	System Pressure	Comments
TI	1371	736777	1330	1335	1340	1345	1350	1355	1300	1"H20	
TE	1513	736879	-30	-30	-30	-25	-20	-15	-10	0"H20	
AMB											
101-I											
101-D											
102-I											
102-D											
103-I											
103-D											
104-I											
104-D											
105-I											
105-D											
106-I											
106-D											

TI-DUP 1267 7288 4177 1300 -30 1305 -28 1310 -25 1315 -19 1320 -15 1325 -8 1330 -5 1"H20

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ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: H3S Env. Project Name/#: NWIRP Bethpage, Site 1

Horizon WO#: _____ Date/Time received: 11/5/11 0853

Sample Delivery Group ID: _____ Received By: Matthew Wolf

Log In By/Date: _____ Project Manager Review (date) _____

(signature) _____ (signature) _____

Number of Shipping containers received: _____ Courier: Fed Ex 8750 4200 4572

Circle the response below as appropriate.

1. Did kit(s) come with a shipping slip (airbill, etc.)? ..... YES (NO) NA
   If YES, enter airbill numbers: _____

Shipping Container Information:

2. Were shipping containers received without signs of tampering? ..... (YES) NO NA
   Comments _____
3. Were custody seals present and intact? ..... YES (NO) NA
4. Were custody seals numbers present? ..... YES (NO) NA
   List Custody Seal Numbers:

Sample Condition:

5. Were sample containers received intact without signs of tampering? ..... (YES) NO NA
   Comments _____

Chain of Custody:

6. Did COC arrive with the samples? ..... (YES) NO NA
7. Do sample ID/Sample Description(s) match samples submitted? ..... (YES) NO NA
8. Is date and time of collection listed on the COC for all samples? ..... (YES) NO NA
9. Is identification of sampler on COC? ..... (YES) NO NA
10. Are requested test method(s) on COC? ..... (YES) NO NA
11. Are necessary signatures on COC? ..... (YES) NO NA
12. Was Internal COC initiated? (should always be YES) ..... YES NO NA

Sample Integrity Usability:

13. Do sample containers match the COC? ..... (YES) NO NA
14. Were sample canisters received within 15 days of shipment to client ..... (YES) NO NA

Anomalies or Non-Conformances: _____

Rev. 2/2011

December 2011 Monthly Data

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December 29, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name:	**NWIRP Bethpage - GM-38**	Workorder:	**9943262**
Purchase Order:		Workorder ID:	**HNW037|NWIRP Bethpage - GM-38**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Saturday, December 17, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38 Discard Date: 02/27/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9943262001	SVE-TI-121611	Air	12/16/11 11:30	12/17/11 09:20	Customer
9943262002	SVE-TE-121611	Air	12/16/11 11:30	12/17/11 09:20	Customer
9943262003	SVE-TI-121611-2	Air	12/16/11 12:00	12/17/11 09:20	Customer

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262001** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TI-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.0	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Acrylonitrile	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
tert-Amyl methyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Benzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Benzyl Chloride	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Bromodichloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Bromoform	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Bromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,3-Butadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
n-Butane	0.31J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
2-Butanone	0.64	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
tert-Butyl Alcohol	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Carbon Disulfide	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Carbon Tetrachloride	0.55	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Chlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Chlorodibromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Chloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Chloroform	0.51	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Chloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
3-Chloro-1-propene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
o-Chlorotoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Cyclohexane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,2-Dibromoethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,2-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,3-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,4-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Dichlorodifluoromethane	0.62	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,1-Dichloroethane	4.2	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,2-Dichloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,1-Dichloroethene	0.31J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
cis-1,2-Dichloroethene	44	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
trans-1,2-Dichloroethene	0.49	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,2-Dichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
cis-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
trans-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,3-Dichloropropene, Total	0.40U	ppbv		0.80	0.40	0.40	TO-15		12/29/11 03:12	ECB	A
Diisopropyl ether	0.28U	ppbv		0.40	0.28	0.28	TO-15		12/29/11 03:12	ECB	A
1,4-Dioxane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Ethanol	1.5	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Ethyl Acetate	0.28U	ppbv		0.40	0.28	0.28	TO-15		12/29/11 03:12	ECB	A
Ethyl tert-butyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262001** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TI-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
4-Ethyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Freon 113	7.1	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Freon-114	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Heptane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Hexachlorobutadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Hexane	0.21J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
2-Hexanone	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Isopropyl Alcohol	0.47	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Isopropylbenzene	1.8	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
p-Isopropyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Methyl methacrylate	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Methyl t-Butyl Ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Methylene Chloride	0.64	ppbv	1,2	0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Naphthalene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
iso-Octane	0.47	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
n-Propylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Propylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Styrene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,1,2,2-Tetrachloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Tetrachloroethene	97	ppbv		2.0	1.0	1.0	TO-15		12/28/11 03:52	ECB	A
Tetrahydrofuran	1.0	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Toluene	0.41	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Total Xylenes	1.4	ppbv		1.2	0.60	0.60	TO-15		12/29/11 03:12	ECB	A
1,2,4-Trichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,1,1-Trichloroethane	47	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,1,2-Trichloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Trichloroethene	180	ppbv		2.0	1.0	1.0	TO-15		12/28/11 03:52	ECB	A
Trichlorofluoromethane	0.91	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,2,3-Trichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,2,4-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,3,5-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
1,2,3-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Vinyl Acetate	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Vinyl Bromide	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
Vinyl Chloride	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
o-Xylene	0.64	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:12	ECB	A
mp-Xylene	0.78J	ppbv		0.80	0.40	0.40	TO-15		12/29/11 03:12	ECB	A
Acetone	7	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:12	ECB	A
Acrylonitrile	0.4U	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 03:12	ECB	A
tert-Amyl methyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262001** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TI-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:12	ECB	A
Benzyl Chloride	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Bromodichloromethane	1U	ug/m3		3	1	1	TO-15		12/29/11 03:12	ECB	A
Bromoform	2U	ug/m3		4	2	2	TO-15		12/29/11 03:12	ECB	A
Bromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
1,3-Butadiene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 03:12	ECB	A
n-Butane	0.7J	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:12	ECB	A
2-Butanone	2	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:12	ECB	A
tert-Butyl Alcohol	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:12	ECB	A
Carbon Disulfide	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:12	ECB	A
Carbon Tetrachloride	3	ug/m3		3	1	1	TO-15		12/29/11 03:12	ECB	A
Chlorobenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
Chlorodibromomethane	2U	ug/m3		3	2	2	TO-15		12/29/11 03:12	ECB	A
Chloroethane	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:12	ECB	A
Chloroform	2	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Chloromethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:12	ECB	A
3-Chloro-1-propene	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:12	ECB	A
o-Chlorotoluene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Cyclohexane	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:12	ECB	A
1,2-Dibromoethane	2U	ug/m3		3	2	2	TO-15		12/29/11 03:12	ECB	A
1,2-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,3-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,4-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Dichlorodifluoromethane	3	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,1-Dichloroethane	17	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
1,2-Dichloroethane	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
1,1-Dichloroethene	1J	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
cis-1,2-Dichloroethene	170	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
trans-1,2-Dichloroethene	2	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
1,2-Dichloropropane	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
cis-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
trans-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
1,3-Dichloropropene, Total	2U	ug/m3		4	2	2	TO-15		12/29/11 03:12	ECB	A
Diisopropyl ether	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,4-Dioxane	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:12	ECB	A
Ethanol	3	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:12	ECB	A
Ethyl Acetate	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Ethyl tert-butyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
Ethylbenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
4-Ethyltoluene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Freon 113	54	ug/m3		3	2	2	TO-15		12/29/11 03:12	ECB	A
Freon-114	1U	ug/m3		3	1	1	TO-15		12/29/11 03:12	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262001** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TI-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
Hexachlorobutadiene	2U	ug/m3		4	2	2	TO-15		12/29/11 03:12	ECB	A
Hexane	0.8J	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:12	ECB	A
2-Hexanone	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
Isopropyl Alcohol	1	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:12	ECB	A
Isopropylbenzene	9	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
p-Isopropyltoluene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Methyl Methacrylate	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
Methyl t-Butyl Ether	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:12	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
Methylene Chloride	2	ug/m3	1,2	1	0.7	0.7	TO-15		12/29/11 03:12	ECB	A
Naphthalene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
iso-Octane	2	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
n-Propylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Propylene	0.3U	ug/m3		0.7	0.3	0.3	TO-15		12/29/11 03:12	ECB	A
Styrene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
1,1,2,2-Tetrachloroethane	1U	ug/m3		3	1	1	TO-15		12/29/11 03:12	ECB	A
Tetrachloroethene	660	ug/m3		14	7	7	TO-15		12/28/11 03:52	ECB	A
Tetrahydrofuran	3	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:12	ECB	A
Toluene	2	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:12	ECB	A
Total Xylenes	6	ug/m3		5	3	3	TO-15		12/29/11 03:12	ECB	A
1,2,4-Trichlorobenzene	1U	ug/m3		3	1	1	TO-15		12/29/11 03:12	ECB	A
1,1,1-Trichloroethane	260	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,1,2-Trichloroethane	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Trichloroethene	980	ug/m3		11	5	5	TO-15		12/28/11 03:52	ECB	A
Trichlorofluoromethane	5	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,2,3-Trichloropropane	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,2,4-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,3,5-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
1,2,3-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:12	ECB	A
Vinyl Acetate	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:12	ECB	A
Vinyl Bromide	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
Vinyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:12	ECB	A
o-Xylene	3	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:12	ECB	A
mp-Xylene	3J	ug/m3		3	2	2	TO-15		12/29/11 03:12	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	98	%		70-130			TO-15		12/28/11 03:52	ECB	A
4-Bromofluorobenzene (S)	102	%		70-130			TO-15		12/29/11 03:12	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262001** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TI-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262002** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TE-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	15	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
tert-Amyl methyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Benzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Bromodichloromethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Bromoform	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Bromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,3-Butadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
n-Butane	0.36	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
2-Butanone	0.47	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
tert-Butyl Alcohol	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Carbon Disulfide	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Carbon Tetrachloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Chlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Chlorodibromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Chloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Chloroform	0.46	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Chloromethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
o-Chlorotoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Cyclohexane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,2-Dibromoethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,2-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,3-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,4-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Dichlorodifluoromethane	0.56	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,1-Dichloroethane	4.1	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,2-Dichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,1-Dichloroethene	0.41	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
cis-1,2-Dichloroethene	47	ppbv		2.0	1.0	1.0	TO-15		12/28/11 04:35	ECB	A
trans-1,2-Dichloroethene	0.56	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,2-Dichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
cis-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:53	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		12/29/11 03:53	ECB	A
1,4-Dioxane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Ethanol	2.2	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		12/29/11 03:53	ECB	A
Ethyl tert-butyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262002** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TE-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
4-Ethyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Freon 113	8.3	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Freon-114	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Heptane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Hexachlorobutadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Hexane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
2-Hexanone	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Isopropyl Alcohol	0.42	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Isopropylbenzene	0.63	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
p-Isopropyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Methyl methacrylate	0.11J	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Methyl t-Butyl Ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Methylene Chloride	0.30	ppbv	1,2	0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Naphthalene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
iso-Octane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
n-Propylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Styrene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,1,2,2-Tetrachloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Tetrachloroethene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Tetrahydrofuran	9.4	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Toluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Total Xylenes	0.30U	ppbv		0.60	0.30	0.30	TO-15		12/29/11 03:53	ECB	A
1,2,4-Trichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,1,1-Trichloroethane	41	ppbv		2.0	1.0	1.0	TO-15		12/28/11 04:35	ECB	A
1,1,2-Trichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Trichloroethene	2.5	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Trichlorofluoromethane	0.68	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,2,3-Trichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,2,4-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,3,5-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
1,2,3-Trimethylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Vinyl Bromide	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
Vinyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
o-Xylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		12/29/11 03:53	ECB	A
mp-Xylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 03:53	ECB	A
Acetone	36	ug/m3		0.5	0.2	0.2	TO-15		12/29/11 03:53	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		12/29/11 03:53	ECB	A
tert-Amyl methyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262002** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TE-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Bromodichloromethane	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:53	ECB	A
Bromoform	1U	ug/m3		2	1	1	TO-15		12/29/11 03:53	ECB	A
Bromomethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
1,3-Butadiene	0.2U	ug/m3		0.4	0.2	0.2	TO-15		12/29/11 03:53	ECB	A
n-Butane	0.9	ug/m3		0.5	0.2	0.2	TO-15		12/29/11 03:53	ECB	A
2-Butanone	1	ug/m3		0.6	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
tert-Butyl Alcohol	0.3U	ug/m3		0.6	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
Carbon Disulfide	0.3U	ug/m3		0.6	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
Carbon Tetrachloride	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
Chlorobenzene	0.5U	ug/m3		0.9	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Chlorodibromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:53	ECB	A
Chloroethane	0.3U	ug/m3		0.5	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
Chloroform	2	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Chloromethane	0.2U	ug/m3		0.4	0.2	0.2	TO-15		12/29/11 03:53	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
o-Chlorotoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Cyclohexane	0.3U	ug/m3		0.7	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
1,2-Dibromoethane	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:53	ECB	A
1,2-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
1,3-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
1,4-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
Dichlorodifluoromethane	3	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
1,1-Dichloroethane	17	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
1,2-Dichloroethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
1,1-Dichloroethene	2	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
cis-1,2-Dichloroethene	190	ug/m3		8	4	4	TO-15		12/28/11 04:35	ECB	A
trans-1,2-Dichloroethene	2	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
1,2-Dichloropropane	0.5U	ug/m3		0.9	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
cis-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:53	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
1,4-Dioxane	0.4U	ug/m3		0.7	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Ethanol	4	ug/m3		0.4	0.2	0.2	TO-15		12/29/11 03:53	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Ethyl tert-butyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Ethylbenzene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
4-Ethyltoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Freon 113	63	ug/m3		2	0.8	0.8	TO-15		12/29/11 03:53	ECB	A
Freon-114	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:53	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262002** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TE-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Hexachlorobutadiene	1U	ug/m3		2	1	1	TO-15		12/29/11 03:53	ECB	A
Hexane	0.4U	ug/m3		0.7	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
2-Hexanone	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Isopropyl Alcohol	1	ug/m3		0.5	0.2	0.2	TO-15		12/29/11 03:53	ECB	A
Isopropylbenzene	3	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
p-Isopropyltoluene	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
Methyl Methacrylate	0.5J	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Methyl t-Butyl Ether	0.4U	ug/m3		0.7	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Methylene Chloride	1	ug/m3	1,2	0.7	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Naphthalene	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
iso-Octane	0.5U	ug/m3		0.9	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
n-Propylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		12/29/11 03:53	ECB	A
Styrene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
1,1,2,2-Tetrachloroethane	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:53	ECB	A
Tetrachloroethene	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:53	ECB	A
Tetrahydrofuran	28	ug/m3		0.6	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
Toluene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Total Xylenes	1U	ug/m3		3	1	1	TO-15		12/29/11 03:53	ECB	A
1,2,4-Trichlorobenzene	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 03:53	ECB	A
1,1,1-Trichloroethane	220	ug/m3		11	6	6	TO-15		12/28/11 04:35	ECB	A
1,1,2-Trichloroethane	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
Trichloroethene	14	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Trichlorofluoromethane	4	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
1,2,3-Trichloropropane	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 03:53	ECB	A
1,2,4-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
1,3,5-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
1,2,3-Trimethylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 03:53	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Vinyl Bromide	0.4U	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
Vinyl Chloride	0.3U	ug/m3		0.5	0.3	0.3	TO-15		12/29/11 03:53	ECB	A
o-Xylene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 03:53	ECB	A
mp-Xylene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 03:53	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	98	%		70-130			TO-15		12/28/11 04:35	ECB	A
4-Bromofluorobenzene (S)	100	%		70-130			TO-15		12/29/11 03:53	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262002** Date Collected: 12/16/2011 11:30 Matrix: Air

Sample ID: **SVE-TE-121611** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262003** Date Collected: 12/16/2011 12:00 Matrix: Air

Sample ID: **SVE-TI-121611-2** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	1.7	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Acrylonitrile	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
tert-Amyl methyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Benzene	0.32J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Benzyl Chloride	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Bromodichloromethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Bromoform	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Bromomethane	0.23J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,3-Butadiene	0.21J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
n-Butane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
2-Butanone	0.60	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
tert-Butyl Alcohol	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Carbon Disulfide	0.22J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Carbon Tetrachloride	0.68	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Chlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Chlorodibromomethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Chloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Chloroform	0.65	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Chloromethane	0.30J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
3-Chloro-1-propene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
o-Chlorotoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Cyclohexane	0.43	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,2-Dibromoethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,2-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,3-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,4-Dichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Dichlorodifluoromethane	0.78	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,1-Dichloroethane	4.3	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,2-Dichloroethane	0.37J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,1-Dichloroethene	0.46	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
cis-1,2-Dichloroethene	43	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
trans-1,2-Dichloroethene	0.62	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,2-Dichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
cis-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
trans-1,3-Dichloropropene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,3-Dichloropropene, Total	0.40U	ppbv		0.80	0.40	0.40	TO-15		12/29/11 04:34	ECB	A
Diisopropyl ether	0.28U	ppbv		0.40	0.28	0.28	TO-15		12/29/11 04:34	ECB	A
1,4-Dioxane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Ethanol	1.2	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Ethyl Acetate	0.28U	ppbv		0.40	0.28	0.28	TO-15		12/29/11 04:34	ECB	A
Ethyl tert-butyl ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262003** Date Collected: 12/16/2011 12:00 Matrix: Air

Sample ID: **SVE-TI-121611-2** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
4-Ethyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Freon 113	7.2	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Freon-114	0.26J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Heptane	0.32J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Hexachlorobutadiene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Hexane	1.0	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
2-Hexanone	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Isopropyl Alcohol	0.76	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Isopropylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
p-Isopropyltoluene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Methyl methacrylate	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Methyl t-Butyl Ether	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Methylene Chloride	1.1	ppbv	1,2	0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Naphthalene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
iso-Octane	0.28J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
n-Propylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Propylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Styrene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,1,2,2-Tetrachloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Tetrachloroethene	76	ppbv		4.0	2.0	2.0	TO-15		12/28/11 05:18	ECB	A
Tetrahydrofuran	1.1	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Toluene	0.26J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Total Xylenes	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/29/11 04:34	ECB	A
1,2,4-Trichlorobenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,1,1-Trichloroethane	47	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,1,2-Trichloroethane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Trichloroethene	190	ppbv		4.0	2.0	2.0	TO-15		12/28/11 05:18	ECB	A
Trichlorofluoromethane	1.1	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,2,3-Trichloropropane	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,2,4-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,3,5-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
1,2,3-Trimethylbenzene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Vinyl Acetate	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Vinyl Bromide	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
Vinyl Chloride	0.34J	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
o-Xylene	0.20U	ppbv		0.40	0.20	0.20	TO-15		12/29/11 04:34	ECB	A
mp-Xylene	0.40U	ppbv		0.80	0.40	0.40	TO-15		12/29/11 04:34	ECB	A
Acetone	4	ug/m3		1	0.5	0.5	TO-15		12/29/11 04:34	ECB	A
Acrylonitrile	0.4U	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 04:34	ECB	A
tert-Amyl methyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262003** Date Collected: 12/16/2011 12:00 Matrix: Air

Sample ID: **SVE-TI-121611-2** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	1J	ug/m3		1	0.6	0.6	TO-15		12/29/11 04:34	ECB	A
Benzyl Chloride	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Bromodichloromethane	1U	ug/m3		3	1	1	TO-15		12/29/11 04:34	ECB	A
Bromoform	2U	ug/m3		4	2	2	TO-15		12/29/11 04:34	ECB	A
Bromomethane	0.9J	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
1,3-Butadiene	0.5J	ug/m3		0.9	0.4	0.4	TO-15		12/29/11 04:34	ECB	A
n-Butane	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 04:34	ECB	A
2-Butanone	2	ug/m3		1	0.6	0.6	TO-15		12/29/11 04:34	ECB	A
tert-Butyl Alcohol	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 04:34	ECB	A
Carbon Disulfide	0.7J	ug/m3		1	0.6	0.6	TO-15		12/29/11 04:34	ECB	A
Carbon Tetrachloride	4	ug/m3		3	1	1	TO-15		12/29/11 04:34	ECB	A
Chlorobenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
Chlorodibromomethane	2U	ug/m3		3	2	2	TO-15		12/29/11 04:34	ECB	A
Chloroethane	0.5U	ug/m3		1	0.5	0.5	TO-15		12/29/11 04:34	ECB	A
Chloroform	3	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Chloromethane	0.6J	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 04:34	ECB	A
3-Chloro-1-propene	0.6U	ug/m3		1	0.6	0.6	TO-15		12/29/11 04:34	ECB	A
o-Chlorotoluene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Cyclohexane	1	ug/m3		1	0.7	0.7	TO-15		12/29/11 04:34	ECB	A
1,2-Dibromoethane	2U	ug/m3		3	2	2	TO-15		12/29/11 04:34	ECB	A
1,2-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,3-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,4-Dichlorobenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Dichlorodifluoromethane	4	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,1-Dichloroethane	18	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
1,2-Dichloroethane	1J	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
1,1-Dichloroethene	2	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
cis-1,2-Dichloroethene	170	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
trans-1,2-Dichloroethene	2	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
1,2-Dichloropropane	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
cis-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
trans-1,3-Dichloropropene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
1,3-Dichloropropene, Total	2U	ug/m3		4	2	2	TO-15		12/29/11 04:34	ECB	A
Diisopropyl ether	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,4-Dioxane	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 04:34	ECB	A
Ethanol	2	ug/m3		0.8	0.4	0.4	TO-15		12/29/11 04:34	ECB	A
Ethyl Acetate	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Ethyl tert-butyl ether	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
Ethylbenzene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
4-Ethyltoluene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Freon 113	55	ug/m3		3	2	2	TO-15		12/29/11 04:34	ECB	A
Freon-114	2J	ug/m3		3	1	1	TO-15		12/29/11 04:34	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262003** Date Collected: 12/16/2011 12:00 Matrix: Air

Sample ID: **SVE-TI-121611-2** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	1J	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
Hexachlorobutadiene	2U	ug/m3		4	2	2	TO-15		12/29/11 04:34	ECB	A
Hexane	4	ug/m3		1	0.7	0.7	TO-15		12/29/11 04:34	ECB	A
2-Hexanone	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
Isopropyl Alcohol	2	ug/m3		1	0.5	0.5	TO-15		12/29/11 04:34	ECB	A
Isopropylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
p-Isopropyltoluene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Methyl Methacrylate	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
Methyl t-Butyl Ether	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 04:34	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.8U	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
Methylene Chloride	4	ug/m3	1,2	1	0.7	0.7	TO-15		12/29/11 04:34	ECB	A
Naphthalene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
iso-Octane	1J	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
n-Propylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Propylene	0.3U	ug/m3		0.7	0.3	0.3	TO-15		12/29/11 04:34	ECB	A
Styrene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
1,1,2,2-Tetrachloroethane	1U	ug/m3		3	1	1	TO-15		12/29/11 04:34	ECB	A
Tetrachloroethene	510	ug/m3		27	14	14	TO-15		12/28/11 05:18	ECB	A
Tetrahydrofuran	3	ug/m3		1	0.6	0.6	TO-15		12/29/11 04:34	ECB	A
Toluene	1J	ug/m3		2	0.8	0.8	TO-15		12/29/11 04:34	ECB	A
Total Xylenes	3U	ug/m3		5	3	3	TO-15		12/29/11 04:34	ECB	A
1,2,4-Trichlorobenzene	1U	ug/m3		3	1	1	TO-15		12/29/11 04:34	ECB	A
1,1,1-Trichloroethane	250	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,1,2-Trichloroethane	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Trichloroethene	1000	ug/m3		21	11	11	TO-15		12/28/11 05:18	ECB	A
Trichlorofluoromethane	6	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,2,3-Trichloropropane	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,2,4-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,3,5-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
1,2,3-Trimethylbenzene	1U	ug/m3		2	1	1	TO-15		12/29/11 04:34	ECB	A
Vinyl Acetate	0.7U	ug/m3		1	0.7	0.7	TO-15		12/29/11 04:34	ECB	A
Vinyl Bromide	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
Vinyl Chloride	0.9J	ug/m3		1	0.5	0.5	TO-15		12/29/11 04:34	ECB	A
o-Xylene	0.9U	ug/m3		2	0.9	0.9	TO-15		12/29/11 04:34	ECB	A
mp-Xylene	2U	ug/m3		3	2	2	TO-15		12/29/11 04:34	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	99	%		70-130			TO-15		12/28/11 05:18	ECB	A
4-Bromofluorobenzene (S)	101	%		70-130			TO-15		12/29/11 04:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262003** Date Collected: 12/16/2011 12:00 Matrix: Air

Sample ID: **SVE-TI-121611-2** Date Received: 12/17/2011 09:20

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

Reporting limits for the TO-15 analysis were raised due to insufficient sample volume received as well as the level of target compounds present.

Anna G Milliken
Technical Manager

ALS Environmental

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

PARAMETER QUALIFIERS\FLAGS

[1] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 154 and the control limits were 60 to 140.

[2] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 157 and the control limits were 60 to 140.

ALS Environmental | Analytical Laboratory Services, Inc.

AIR ANALYSIS
CHAIN-OF-CUSTODY/FIELD TEST DATA SHEET

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: | of
ALSI Q: *9943262*

SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

1. CLIENT INFORMATION

Client Name/Address: H+S environmental
Contact: Jen Good
Phone#: 508 366-7442
Project Name/#: NWIRP Bethpage Site 1
Bill To:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-___TAT Subject to ALSI approval and surcharges.
Date Required: Approved By:
Email? [X]-Y JGood@hsenv.com
Fax? [ ]-Y No.:

2. ANALYSES/METHOD REQUESTED

✓ APPROPRIATE TEST CODE/ANALYTE LIST.

No.	TO-15 Analysis	STD LIST	UST LIST	OTHER
1	Full			
2	List			
3				
4				
5				
6				
7				
8				
9				
10				

3. LABORATORY

LABORATORY CANISTER CERTIFIED BY:
GC/MS Analyst Signature: Erin C Boyd
CANISTERS PREPARED BY:
Name: Erin C Boyd
Title: Sr GC/MS Analyst
Custody Sealed Date/Time: 12/14/11 1450
Date Shipped to Client: 12/14/11
Custody Seal #(s): #0293

RECEIVING INFORMATION:

	Y	N	Initial
COC Complete/Accurate?	✓		
Labels Complete/Accurate?	✓		
Cont. in Good Cond.?	✓		
Custody Seals Present?	✓		
(If present) Seals Intact?	✓		
Returned in ≤ 15 days?	✓		
Custody Seal #(s): 1450			
Courier/Tracking #: 8750 42004604			

4. FIELD DATA SHEET

Sample Description/Location (as it will appear on the lab report)	Sample Type	Sample Date	Start Time	Stop Time	Temp Deg C	1L	6L	Canister No.	Flow Controller No.	Canister Pressure ("Hg) Start	Canister Pressure ("Hg) Stop	Canister Certification File	Lab Canister Pressure ("Hg) Out	Lab Canister Pressure ("Hg) In	Flow Controller Setpoint (mL/min)
1 SVE-TI-121611	AIR	12/16/11	1100	1130			X	1364	7337513	-30	-5				168
2 SVE-TE-121611	AIR	12/16/11	1100	1130			X	1126	7304107	-30	-5				
3 SVE-TI-121611-2	AIR	12/16/11	1130	1200			X	1840	7288498	-30	-3				
4 Jemailed Jen Good that canister arrived w/pressure indicating it did not flow															
5 for entire sampling period. TMH 12/19/11															
6															
7															
8															
9															
10															

Sample Type - Choose one: *IA-indoor air *AS-ambient soil *V-vapor *SS-sub-slab

5. SAMPLED BY (Please Print): Greg Ganzelli

LOGGED BY(signature): [signature] Date: 12/17/11 Time: 1010
REVIEWED BY(signature): [signature] Date: 12/19/11 Time: 1126

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Greg Ganzelli	12/16		2 [signature]	12/17/11	0920
3			4		
5			6		
7			8		
9			10		

6. PROJECT INFORMATION

Data Deliverables: [ ] Standard [ ] CLP-like [ ] DOD [ ] TO-15 [ ] Other ______
EDDs-Format Type:
ALSI Field Services: ☐ Pickup ☐ Labor
Other:

State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC [ ] other

Phone: 1-717-944-5541 ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057 Rev 03Mar2011

ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: H+S Environmental
Horizon WO#: 9943262
Sample Delivery Group ID: _____
Log In By/Date: 12/17/11 1010
(signature) [signature]
Number of Shipping containers received: _____

Project Name/#: NWIEP Bethpage Site 1
Date/Time received: 12/17/11 0920
Received By: [signature]
Project Manager Review (date) _____
(signature) _____
Courier: FedEx 875042004606

Circle the response below as appropriate.

1.	Did kit(s) come with a shipping slip (airbill, etc.)?	(YES)	NO	NA
	If YES, enter airbill numbers: _____			
Shipping Container Information:				
2.	Were shipping containers received without signs of tampering?	(YES)	NO	NA
	Comments _____			
3.	Were custody seals present and intact?	(YES)	NO	NA
4.	Were custody seals numbers present?	(YES)	NO	NA
	List Custody Seal Numbers: 1450			
Sample Condition:				
5.	Were sample containers received intact without signs of tampering?	(YES)	NO	NA
	Comments _____			
Chain of Custody:				
6.	Did COC arrive with the samples?	(YES)	NO	NA
7.	Do sample ID/Sample Description(s) match samples submitted?	(YES)	NO	NA
8.	Is date and time of collection listed on the COC for all samples?	(YES)	NO	NA
9.	Is identification of sampler on COC?	(YES)	NO	NA
10.	Are requested test method(s) on COC?	(YES)	NO	NA
11.	Are necessary signatures on COC?	(YES)	NO	NA
12.	Was Internal COC initiated? (should always be YES)	YES	NO	NA
Sample Integrity Usability:				
13.	Do sample containers match the COC?	(YES)	NO	NA
14.	Were sample canisters received within 15 days of shipment to client	(YES)	NO	NA

Anomalies or Non-Conformances: _____

Rev. 2/2011

November 2011 Quarterly Data

ALS Environmental

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November 21, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name:	**NWIRP Bethpage - GM-38**	Workorder:	**9932357**
Purchase Order:	**2034-003**	Workorder ID:	**HNW028|NWIRP Bethpage QtrSite1**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Saturday, October 15, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1 Discard Date: 01/20/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9932357001	SVE-101I-101411	Air	10/14/11 12:40	10/15/11 09:00	Customer
9932357002	SVE-101D-101411	Air	10/14/11 12:40	10/15/11 09:00	Customer
9932357003	SVE-102I-101411	Air	10/14/11 12:02	10/15/11 09:00	Customer
9932357004	SVE-102D-101411	Air	10/14/11 12:02	10/15/11 09:00	Customer
9932357005	SVE-103I-101411	Air	10/14/11 12:45	10/15/11 09:00	Customer
9932357006	SVE-103D-101411	Air	10/14/11 12:45	10/15/11 09:00	Customer
9932357007	SVE-104I-101411	Air	10/14/11 12:45	10/15/11 09:00	Customer
9932357008	SVE-104D-101411	Air	10/14/11 12:45	10/15/11 09:00	Customer
9932357009	SVE-105I-101411	Air	10/14/11 12:02	10/15/11 09:00	Customer
9932357010	SVE-105D-101411	Air	10/14/11 12:02	10/15/11 09:00	Customer
9932357011	SVE-106I-101411	Air	10/14/11 12:02	10/15/11 09:00	Customer
9932357012	SVE-106D-101411	Air	10/14/11 12:02	10/15/11 09:00	Customer

Workorder Comments:

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1 Discard Date: 01/20/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357001** Date Collected: 10/14/2011 12:40 Matrix: Air

Sample ID: **SVE-101I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.2	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
tert-Amyl methyl ether	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Benzene	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Bromodichloromethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Bromoform	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Bromomethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,3-Butadiene	0.20J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
n-Butane	0.35	ppbv	1	0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
2-Butanone	0.45	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
tert-Butyl Alcohol	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Carbon Disulfide	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Carbon Tetrachloride	0.20J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Chlorobenzene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Chlorodibromomethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Chloroethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Chloroform	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Chloromethane	0.63	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
o-Chlorotoluene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Cyclohexane	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,2-Dibromoethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,2-Dichlorobenzene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,3-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,4-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Dichlorodifluoromethane	0.54	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,1-Dichloroethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,2-Dichloroethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,1-Dichloroethene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
cis-1,2-Dichloroethene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
trans-1,2-Dichloroethene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,2-Dichloropropane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
cis-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/27/11 07:08	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 07:08	ECB	A
1,4-Dioxane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Ethanol	1.8	ppbv	2,3	0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 07:08	ECB	A
Ethyl tert-butyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357001** Date Collected: 10/14/2011 12:40 Matrix: Air

Sample ID: **SVE-101I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
4-Ethyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Freon 113	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Freon-114	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Heptane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Hexachlorobutadiene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Hexane	0.20	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
2-Hexanone	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Isopropyl Alcohol	0.30	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Isopropylbenzene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
p-Isopropyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Methyl methacrylate	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Methyl t-Butyl Ether	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Methylene Chloride	0.53	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Naphthalene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
iso-Octane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
n-Propylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Propylene	0.31	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Styrene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,1,2,2-Tetrachloroethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Tetrachloroethene	0.24	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Tetrahydrofuran	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Toluene	0.21	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Total Xylenes	0.41J	ppbv		0.60	0.30	0.30	TO-15		10/27/11 07:08	ECB	A
1,2,4-Trichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,1,1-Trichloroethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,1,2-Trichloroethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Trichloroethene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Trichlorofluoromethane	0.30	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,2,3-Trichloropropane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,2,4-Trimethylbenzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,3,5-Trimethylbenzene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
1,2,3-Trimethylbenzene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Vinyl Bromide	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
Vinyl Chloride	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
o-Xylene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:08	ECB	A
mp-Xylene	0.27J	ppbv		0.40	0.20	0.20	TO-15		10/27/11 07:08	ECB	A
Acetone	8	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 07:08	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 07:08	ECB	A
tert-Amyl methyl ether	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357001** Date Collected: 10/14/2011 12:40 Matrix: Air

Sample ID: **SVE-101I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.6J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Bromodichloromethane	0.8J	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:08	ECB	A
Bromoform	1J	ug/m3		2	1	1	TO-15		10/27/11 07:08	ECB	A
Bromomethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
1,3-Butadiene	0.4J	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 07:08	ECB	A
n-Butane	0.8	ug/m3	1	0.5	0.2	0.2	TO-15		10/27/11 07:08	ECB	A
2-Butanone	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
tert-Butyl Alcohol	0.4J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
Carbon Disulfide	0.4J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
Carbon Tetrachloride	1J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
Chlorobenzene	0.5J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Chlorodibromomethane	0.9J	ug/m3		2	0.8	0.8	TO-15		10/27/11 07:08	ECB	A
Chloroethane	0.4J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
Chloroform	0.6J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Chloromethane	1	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 07:08	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
o-Chlorotoluene	0.5J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Cyclohexane	0.3J	ug/m3		0.7	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
1,2-Dibromoethane	0.8J	ug/m3		2	0.8	0.8	TO-15		10/27/11 07:08	ECB	A
1,2-Dichlorobenzene	0.6J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
1,3-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
1,4-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
Dichlorodifluoromethane	3	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
1,1-Dichloroethane	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
1,2-Dichloroethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
1,1-Dichloroethene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
cis-1,2-Dichloroethene	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
trans-1,2-Dichloroethene	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
1,2-Dichloropropane	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
cis-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		10/27/11 07:08	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
1,4-Dioxane	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Ethanol	3	ug/m3	2,3	0.4	0.2	0.2	TO-15		10/27/11 07:08	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Ethyl tert-butyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Ethylbenzene	0.5J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
4-Ethyltoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Freon 113	1J	ug/m3		2	0.8	0.8	TO-15		10/27/11 07:08	ECB	A
Freon-114	0.9J	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:08	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357001** Date Collected: 10/14/2011 12:40 Matrix: Air

Sample ID: **SVE-101I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Hexachlorobutadiene	1J	ug/m3		2	1	1	TO-15		10/27/11 07:08	ECB	A
Hexane	0.7	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
2-Hexanone	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Isopropyl Alcohol	0.7	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 07:08	ECB	A
Isopropylbenzene	0.6J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
p-Isopropyltoluene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
Methyl Methacrylate	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Methyl t-Butyl Ether	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Methylene Chloride	2	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Naphthalene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
iso-Octane	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
n-Propylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Propylene	0.5	ug/m3		0.3	0.2	0.2	TO-15		10/27/11 07:08	ECB	A
Styrene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
1,1,2,2-Tetrachloroethane	0.8J	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:08	ECB	A
Tetrachloroethene	2	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:08	ECB	A
Tetrahydrofuran	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
Toluene	0.8	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Total Xylenes	2J	ug/m3		3	1	1	TO-15		10/27/11 07:08	ECB	A
1,2,4-Trichlorobenzene	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:08	ECB	A
1,1,1-Trichloroethane	0.7J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
1,1,2-Trichloroethane	0.6J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
Trichloroethene	0.6J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
1,2,3-Trichloropropane	0.8J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:08	ECB	A
1,2,4-Trimethylbenzene	0.7J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
1,3,5-Trimethylbenzene	0.5J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
1,2,3-Trimethylbenzene	0.5J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:08	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Vinyl Bromide	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
Vinyl Chloride	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 07:08	ECB	A
o-Xylene	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:08	ECB	A
mp-Xylene	1J	ug/m3		2	0.9	0.9	TO-15		10/27/11 07:08	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	107	%		70-130			TO-15		10/27/11 07:08	ECB	A

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID:	**9932357001**	Date Collected:	10/14/2011 12:40	Matrix:	Air
Sample ID:	**SVE-101I-101411**	Date Received:	10/15/2011 09:00		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Several compounds were dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357002** Date Collected: 10/14/2011 12:40 Matrix: Air

Sample ID: **SVE-101D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.9	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
tert-Amyl methyl ether	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Benzene	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Bromodichloromethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Bromoform	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Bromomethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,3-Butadiene	0.21	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
n-Butane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
2-Butanone	0.42	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
tert-Butyl Alcohol	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Carbon Disulfide	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Carbon Tetrachloride	0.21	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Chlorobenzene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Chlorodibromomethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Chloroethane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Chloroform	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Chloromethane	0.63	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
3-Chloro-1-propene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
o-Chlorotoluene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Cyclohexane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,2-Dibromoethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,2-Dichlorobenzene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,3-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,4-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Dichlorodifluoromethane	0.53	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,1-Dichloroethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,2-Dichloroethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,1-Dichloroethene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
cis-1,2-Dichloroethene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
trans-1,2-Dichloroethene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,2-Dichloropropane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
cis-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/27/11 07:51	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 07:51	ECB	A
1,4-Dioxane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Ethanol	1.4	ppbv	2,3	0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Ethyl Acetate	0.14J	ppbv		0.20	0.14	0.14	TO-15		10/27/11 07:51	ECB	A
Ethyl tert-butyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357002** Date Collected: 10/14/2011 12:40 Matrix: Air

Sample ID: **SVE-101D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.20	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
4-Ethyltoluene	0.20	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Freon 113	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Freon-114	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Heptane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Hexachlorobutadiene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Hexane	0.23	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
2-Hexanone	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Isopropyl Alcohol	0.36	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Isopropylbenzene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
p-Isopropyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Methyl methacrylate	0.67	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Methyl t-Butyl Ether	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Methylene Chloride	0.57	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Naphthalene	0.17J	ppbv	4	0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
iso-Octane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
n-Propylbenzene	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Propylene	0.25	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Styrene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,1,2,2-Tetrachloroethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Tetrachloroethene	0.30	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Tetrahydrofuran	0.35	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Toluene	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Total Xylenes	0.90	ppbv		0.60	0.30	0.30	TO-15		10/27/11 07:51	ECB	A
1,2,4-Trichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,1,1-Trichloroethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,1,2-Trichloroethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Trichloroethene	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Trichlorofluoromethane	0.30	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,2,3-Trichloropropane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,2,4-Trimethylbenzene	0.67	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,3,5-Trimethylbenzene	0.20	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
1,2,3-Trimethylbenzene	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Vinyl Bromide	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
Vinyl Chloride	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
o-Xylene	0.30	ppbv		0.20	0.10	0.10	TO-15		10/27/11 07:51	ECB	A
mp-Xylene	0.60	ppbv		0.40	0.20	0.20	TO-15		10/27/11 07:51	ECB	A
Acetone	9	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 07:51	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 07:51	ECB	A
tert-Amyl methyl ether	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357002** Date Collected: 10/14/2011 12:40 Matrix: Air

Sample ID: **SVE-101D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Bromodichloromethane	0.8J	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:51	ECB	A
Bromoform	1J	ug/m3		2	1	1	TO-15		10/27/11 07:51	ECB	A
Bromomethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
1,3-Butadiene	0.5	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 07:51	ECB	A
n-Butane	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 07:51	ECB	A
2-Butanone	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
tert-Butyl Alcohol	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
Carbon Disulfide	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
Carbon Tetrachloride	1	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
Chlorobenzene	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Chlorodibromomethane	1J	ug/m3		2	0.8	0.8	TO-15		10/27/11 07:51	ECB	A
Chloroethane	0.4J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
Chloroform	0.7J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Chloromethane	1	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 07:51	ECB	A
3-Chloro-1-propene	0.4J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
o-Chlorotoluene	0.5J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Cyclohexane	0.4J	ug/m3		0.7	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
1,2-Dibromoethane	0.9J	ug/m3		2	0.8	0.8	TO-15		10/27/11 07:51	ECB	A
1,2-Dichlorobenzene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
1,3-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
1,4-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
Dichlorodifluoromethane	3	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
1,1-Dichloroethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
1,2-Dichloroethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
1,1-Dichloroethene	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
cis-1,2-Dichloroethene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
trans-1,2-Dichloroethene	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
1,2-Dichloropropane	0.5J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
cis-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		10/27/11 07:51	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
1,4-Dioxane	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Ethanol	3	ug/m3	2,3	0.4	0.2	0.2	TO-15		10/27/11 07:51	ECB	A
Ethyl Acetate	0.5J	ug/m3		0.8	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Ethyl tert-butyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Ethylbenzene	0.9	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
4-Ethyltoluene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Freon 113	1J	ug/m3		2	0.8	0.8	TO-15		10/27/11 07:51	ECB	A
Freon-114	1J	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:51	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357002** Date Collected: 10/14/2011 12:40 Matrix: Air

Sample ID: **SVE-101D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Hexachlorobutadiene	1J	ug/m3		2	1	1	TO-15		10/27/11 07:51	ECB	A
Hexane	0.8	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
2-Hexanone	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Isopropyl Alcohol	0.9	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 07:51	ECB	A
Isopropylbenzene	0.6J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
p-Isopropyltoluene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
Methyl Methacrylate	3	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Methyl t-Butyl Ether	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Methylene Chloride	2	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Naphthalene	0.9J	ug/m3	4	1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
iso-Octane	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
n-Propylbenzene	0.8J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Propylene	0.4	ug/m3		0.3	0.2	0.2	TO-15		10/27/11 07:51	ECB	A
Styrene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
1,1,2,2-Tetrachloroethane	1J	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:51	ECB	A
Tetrachloroethene	2	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:51	ECB	A
Tetrahydrofuran	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
Toluene	1	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Total Xylenes	4	ug/m3		3	1	1	TO-15		10/27/11 07:51	ECB	A
1,2,4-Trichlorobenzene	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 07:51	ECB	A
1,1,1-Trichloroethane	0.8J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
1,1,2-Trichloroethane	0.7J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
Trichloroethene	1J	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
1,2,3-Trichloropropane	0.8J	ug/m3		1	0.6	0.6	TO-15		10/27/11 07:51	ECB	A
1,2,4-Trimethylbenzene	3	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
1,3,5-Trimethylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
1,2,3-Trimethylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 07:51	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Vinyl Bromide	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
Vinyl Chloride	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 07:51	ECB	A
o-Xylene	1	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 07:51	ECB	A
mp-Xylene	3	ug/m3		2	0.9	0.9	TO-15		10/27/11 07:51	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	104	%		70-130			TO-15		10/27/11 07:51	ECB	A

Sample Comments:

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID:	**9932357002**	Date Collected:	10/14/2011 12:40	Matrix:	Air
Sample ID:	**SVE-101D-101411**	Date Received:	10/15/2011 09:00		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Several compounds were dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357003** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-102I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.1	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
tert-Amyl methyl ether	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Benzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Bromodichloromethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Bromoform	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Bromomethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,3-Butadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
n-Butane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
2-Butanone	0.52	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
tert-Butyl Alcohol	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Carbon Disulfide	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Carbon Tetrachloride	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Chlorobenzene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Chlorodibromomethane	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Chloroethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Chloroform	0.84	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Chloromethane	0.20	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
o-Chlorotoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Cyclohexane	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,2-Dibromoethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,2-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,3-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,4-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Dichlorodifluoromethane	0.50	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,1-Dichloroethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,2-Dichloroethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,1-Dichloroethene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
cis-1,2-Dichloroethene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
trans-1,2-Dichloroethene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,2-Dichloropropane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
cis-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/27/11 08:34	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 08:34	ECB	A
1,4-Dioxane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Ethanol	2.0	ppbv	2,3	0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 08:34	ECB	A
Ethyl tert-butyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357003** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-102I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.29	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
4-Ethyltoluene	0.24	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Freon 113	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Freon-114	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Heptane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Hexachlorobutadiene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Hexane	0.21	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
2-Hexanone	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Isopropyl Alcohol	0.32	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Isopropylbenzene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
p-Isopropyltoluene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Methyl methacrylate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Methyl t-Butyl Ether	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Methylene Chloride	0.95	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Naphthalene	0.22	ppbv	4	0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
iso-Octane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
n-Propylbenzene	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Styrene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,1,2,2-Tetrachloroethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Tetrachloroethene	0.84	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Tetrahydrofuran	0.47	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Toluene	0.29	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Total Xylenes	1.3	ppbv		0.60	0.30	0.30	TO-15		10/27/11 08:34	ECB	A
1,2,4-Trichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,1,1-Trichloroethane	0.40	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,1,2-Trichloroethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Trichloroethene	9.7	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Trichlorofluoromethane	0.42	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,2,3-Trichloropropane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,2,4-Trimethylbenzene	1.1	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,3,5-Trimethylbenzene	0.27	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
1,2,3-Trimethylbenzene	0.39	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Vinyl Bromide	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
Vinyl Chloride	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
o-Xylene	0.44	ppbv		0.20	0.10	0.10	TO-15		10/27/11 08:34	ECB	A
mp-Xylene	0.84	ppbv		0.40	0.20	0.20	TO-15		10/27/11 08:34	ECB	A
Acetone	7	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 08:34	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 08:34	ECB	A
tert-Amyl methyl ether	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357003** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-102I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Bromodichloromethane	0.7J	ug/m3		1	0.7	0.7	TO-15		10/27/11 08:34	ECB	A
Bromoform	1J	ug/m3		2	1	1	TO-15		10/27/11 08:34	ECB	A
Bromomethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
1,3-Butadiene	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 08:34	ECB	A
n-Butane	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 08:34	ECB	A
2-Butanone	2	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
tert-Butyl Alcohol	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
Carbon Disulfide	0.4J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
Carbon Tetrachloride	1J	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
Chlorobenzene	0.5J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Chlorodibromomethane	0.9J	ug/m3		2	0.8	0.8	TO-15		10/27/11 08:34	ECB	A
Chloroethane	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
Chloroform	4	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Chloromethane	0.4	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 08:34	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
o-Chlorotoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Cyclohexane	0.4J	ug/m3		0.7	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
1,2-Dibromoethane	0.8J	ug/m3		2	0.8	0.8	TO-15		10/27/11 08:34	ECB	A
1,2-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
1,3-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
1,4-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
Dichlorodifluoromethane	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
1,1-Dichloroethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
1,2-Dichloroethane	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
1,1-Dichloroethene	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
cis-1,2-Dichloroethene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
trans-1,2-Dichloroethene	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
1,2-Dichloropropane	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
cis-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		10/27/11 08:34	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
1,4-Dioxane	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Ethanol	4	ug/m3	2,3	0.4	0.2	0.2	TO-15		10/27/11 08:34	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Ethyl tert-butyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Ethylbenzene	1	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
4-Ethyltoluene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Freon 113	1J	ug/m3		2	0.8	0.8	TO-15		10/27/11 08:34	ECB	A
Freon-114	1J	ug/m3		1	0.7	0.7	TO-15		10/27/11 08:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357003** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-102I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Hexachlorobutadiene	1J	ug/m3		2	1	1	TO-15		10/27/11 08:34	ECB	A
Hexane	0.8	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
2-Hexanone	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Isopropyl Alcohol	0.8	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 08:34	ECB	A
Isopropylbenzene	0.6J	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
p-Isopropyltoluene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
Methyl Methacrylate	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Methyl t-Butyl Ether	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Methylene Chloride	3	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Naphthalene	1	ug/m3	4	1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
iso-Octane	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
n-Propylbenzene	0.9J	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		10/27/11 08:34	ECB	A
Styrene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
1,1,2,2-Tetrachloroethane	0.8J	ug/m3		1	0.7	0.7	TO-15		10/27/11 08:34	ECB	A
Tetrachloroethene	6	ug/m3		1	0.7	0.7	TO-15		10/27/11 08:34	ECB	A
Tetrahydrofuran	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
Toluene	1	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Total Xylenes	6	ug/m3		3	1	1	TO-15		10/27/11 08:34	ECB	A
1,2,4-Trichlorobenzene	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 08:34	ECB	A
1,1,1-Trichloroethane	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
1,1,2-Trichloroethane	0.6J	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
Trichloroethene	52	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
1,2,3-Trichloropropane	0.8J	ug/m3		1	0.6	0.6	TO-15		10/27/11 08:34	ECB	A
1,2,4-Trimethylbenzene	5	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
1,3,5-Trimethylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
1,2,3-Trimethylbenzene	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 08:34	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Vinyl Bromide	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
Vinyl Chloride	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 08:34	ECB	A
o-Xylene	2	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 08:34	ECB	A
mp-Xylene	4	ug/m3		2	0.9	0.9	TO-15		10/27/11 08:34	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	108	%		70-130			TO-15		10/27/11 08:34	ECB	A

Sample Comments:

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID:	**9932357003**	Date Collected:	10/14/2011 12:02	Matrix:	Air
Sample ID:	**SVE-102I-101411**	Date Received:	10/15/2011 09:00		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Several compounds were dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357004** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-102D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	1.6	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
tert-Amyl methyl ether	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Benzene	0.27	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Bromodichloromethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Bromoform	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Bromomethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,3-Butadiene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
n-Butane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
2-Butanone	0.43	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
tert-Butyl Alcohol	0.20	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Carbon Disulfide	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Carbon Tetrachloride	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Chlorobenzene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Chlorodibromomethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Chloroethane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Chloroform	3.4	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Chloromethane	0.21	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
o-Chlorotoluene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Cyclohexane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,2-Dibromoethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,2-Dichlorobenzene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,3-Dichlorobenzene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,4-Dichlorobenzene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Dichlorodifluoromethane	0.51	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,1-Dichloroethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,2-Dichloroethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,1-Dichloroethene	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
cis-1,2-Dichloroethene	0.24	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
trans-1,2-Dichloroethene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,2-Dichloropropane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
cis-1,3-Dichloropropene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
trans-1,3-Dichloropropene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,3-Dichloropropene, Total	0.23J	ppbv		0.40	0.20	0.20	TO-15		10/27/11 09:16	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 09:16	ECB	A
1,4-Dioxane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Ethanol	0.57	ppbv	2,3	0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 09:16	ECB	A
Ethyl tert-butyl ether	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357004** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-102D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.33	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
4-Ethyltoluene	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Freon 113	0.23	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Freon-114	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Heptane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Hexachlorobutadiene	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Hexane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
2-Hexanone	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Isopropyl Alcohol	0.40	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Isopropylbenzene	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
p-Isopropyltoluene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Methyl methacrylate	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Methyl t-Butyl Ether	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Methylene Chloride	0.26	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Naphthalene	0.32	ppbv	4	0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
iso-Octane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
n-Propylbenzene	0.22	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Styrene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,1,2,2-Tetrachloroethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Tetrachloroethene	5.7	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Tetrahydrofuran	0.41	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Toluene	0.59	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Total Xylenes	1.5	ppbv		0.60	0.30	0.30	TO-15		10/27/11 09:16	ECB	A
1,2,4-Trichlorobenzene	0.10J	ppbv	5	0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,1,1-Trichloroethane	0.86	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,1,2-Trichloroethane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Trichloroethene	16	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Trichlorofluoromethane	2.3	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,2,3-Trichloropropane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,2,4-Trimethylbenzene	1.2	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,3,5-Trimethylbenzene	0.29	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
1,2,3-Trimethylbenzene	0.46	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Vinyl Bromide	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
Vinyl Chloride	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
o-Xylene	0.50	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:16	ECB	A
mp-Xylene	1.0	ppbv		0.40	0.20	0.20	TO-15		10/27/11 09:16	ECB	A
Acetone	4	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 09:16	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 09:16	ECB	A
tert-Amyl methyl ether	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357004** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-102D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.9	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Bromodichloromethane	1J	ug/m3		1	0.7	0.7	TO-15		10/27/11 09:16	ECB	A
Bromoform	1J	ug/m3		2	1	1	TO-15		10/27/11 09:16	ECB	A
Bromomethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
1,3-Butadiene	0.4J	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 09:16	ECB	A
n-Butane	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 09:16	ECB	A
2-Butanone	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
tert-Butyl Alcohol	0.6	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
Carbon Disulfide	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
Carbon Tetrachloride	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
Chlorobenzene	0.7J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Chlorodibromomethane	1J	ug/m3		2	0.8	0.8	TO-15		10/27/11 09:16	ECB	A
Chloroethane	0.4J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
Chloroform	17	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Chloromethane	0.4	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 09:16	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
o-Chlorotoluene	0.6J	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Cyclohexane	0.4J	ug/m3		0.7	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
1,2-Dibromoethane	1J	ug/m3		2	0.8	0.8	TO-15		10/27/11 09:16	ECB	A
1,2-Dichlorobenzene	0.8J	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
1,3-Dichlorobenzene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
1,4-Dichlorobenzene	0.6J	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
Dichlorodifluoromethane	3	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
1,1-Dichloroethane	0.7J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
1,2-Dichloroethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
1,1-Dichloroethene	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
cis-1,2-Dichloroethene	0.9	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
trans-1,2-Dichloroethene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
1,2-Dichloropropane	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
cis-1,3-Dichloropropene	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
trans-1,3-Dichloropropene	0.5J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
1,3-Dichloropropene, Total	1J	ug/m3		2	0.9	0.9	TO-15		10/27/11 09:16	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
1,4-Dioxane	0.6J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Ethanol	1	ug/m3	2,3	0.4	0.2	0.2	TO-15		10/27/11 09:16	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Ethyl tert-butyl ether	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Ethylbenzene	1	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
4-Ethyltoluene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Freon 113	2	ug/m3		2	0.8	0.8	TO-15		10/27/11 09:16	ECB	A
Freon-114	1J	ug/m3		1	0.7	0.7	TO-15		10/27/11 09:16	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357004** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-102D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Hexachlorobutadiene	2J	ug/m3		2	1	1	TO-15		10/27/11 09:16	ECB	A
Hexane	0.5J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
2-Hexanone	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Isopropyl Alcohol	1	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 09:16	ECB	A
Isopropylbenzene	0.8J	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
p-Isopropyltoluene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
Methyl Methacrylate	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Methyl t-Butyl Ether	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Methylene Chloride	0.9	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Naphthalene	2	ug/m3	4	1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
iso-Octane	0.7J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
n-Propylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		10/27/11 09:16	ECB	A
Styrene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
1,1,2,2-Tetrachloroethane	1J	ug/m3		1	0.7	0.7	TO-15		10/27/11 09:16	ECB	A
Tetrachloroethene	39	ug/m3		1	0.7	0.7	TO-15		10/27/11 09:16	ECB	A
Tetrahydrofuran	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
Toluene	2	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Total Xylenes	7	ug/m3		3	1	1	TO-15		10/27/11 09:16	ECB	A
1,2,4-Trichlorobenzene	0.8J	ug/m3	5	1	0.7	0.7	TO-15		10/27/11 09:16	ECB	A
1,1,1-Trichloroethane	5	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
1,1,2-Trichloroethane	0.8J	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
Trichloroethene	87	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Trichlorofluoromethane	13	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
1,2,3-Trichloropropane	0.9J	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:16	ECB	A
1,2,4-Trimethylbenzene	6	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
1,3,5-Trimethylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
1,2,3-Trimethylbenzene	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:16	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Vinyl Bromide	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
Vinyl Chloride	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 09:16	ECB	A
o-Xylene	2	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:16	ECB	A
mp-Xylene	5	ug/m3		2	0.9	0.9	TO-15		10/27/11 09:16	ECB	A

Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*	*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	107	%		70-130	TO-15		10/27/11 09:16	ECB	A

Sample Comments:

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID:	**9932357004**	Date Collected:	10/14/2011 12:02	Matrix:	Air
Sample ID:	**SVE-102D-101411**	Date Received:	10/15/2011 09:00		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Several compounds were dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357005** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	1.4	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
tert-Amyl methyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Benzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Bromodichloromethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Bromoform	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Bromomethane	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,3-Butadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
n-Butane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
2-Butanone	0.35	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
tert-Butyl Alcohol	0.30	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Carbon Disulfide	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Carbon Tetrachloride	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Chlorobenzene	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Chlorodibromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Chloroethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Chloroform	0.37	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Chloromethane	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
o-Chlorotoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Cyclohexane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,2-Dibromoethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,2-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,3-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,4-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Dichlorodifluoromethane	0.48	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,1-Dichloroethane	0.40	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,2-Dichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,1-Dichloroethene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
cis-1,2-Dichloroethene	3.1	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
trans-1,2-Dichloroethene	0.26	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,2-Dichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
cis-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/27/11 09:59	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 09:59	ECB	A
1,4-Dioxane	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Ethanol	0.71	ppbv	2,3	0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 09:59	ECB	A
Ethyl tert-butyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357005** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.24	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
4-Ethyltoluene	0.25	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Freon 113	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Freon-114	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Heptane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Hexachlorobutadiene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Hexane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
2-Hexanone	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Isopropyl Alcohol	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Isopropylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
p-Isopropyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Methyl methacrylate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Methyl t-Butyl Ether	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Methylene Chloride	0.36	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Naphthalene	0.29	ppbv	4	0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
iso-Octane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
n-Propylbenzene	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Styrene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,1,2,2-Tetrachloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Tetrachloroethene	86	ppbv		2.0	1.0	1.0	TO-15		10/26/11 08:24	ECB	A
Tetrahydrofuran	0.40	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Toluene	0.26	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Total Xylenes	1.1	ppbv		0.60	0.30	0.30	TO-15		10/27/11 09:59	ECB	A
1,2,4-Trichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,1,1-Trichloroethane	1.0	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,1,2-Trichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Trichloroethene	18	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Trichlorofluoromethane	0.35	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,2,3-Trichloropropane	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,2,4-Trimethylbenzene	1.1	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,3,5-Trimethylbenzene	0.24	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
1,2,3-Trimethylbenzene	0.40	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Vinyl Bromide	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
Vinyl Chloride	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
o-Xylene	0.38	ppbv		0.20	0.10	0.10	TO-15		10/27/11 09:59	ECB	A
mp-Xylene	0.73	ppbv		0.40	0.20	0.20	TO-15		10/27/11 09:59	ECB	A
Acetone	3	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 09:59	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 09:59	ECB	A
tert-Amyl methyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357005** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Bromodichloromethane	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 09:59	ECB	A
Bromoform	1U	ug/m3		2	1	1	TO-15		10/27/11 09:59	ECB	A
Bromomethane	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
1,3-Butadiene	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 09:59	ECB	A
n-Butane	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 09:59	ECB	A
2-Butanone	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
tert-Butyl Alcohol	0.9	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
Carbon Disulfide	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
Carbon Tetrachloride	0.9J	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
Chlorobenzene	0.5J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Chlorodibromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		10/27/11 09:59	ECB	A
Chloroethane	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
Chloroform	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Chloromethane	0.4J	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 09:59	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
o-Chlorotoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Cyclohexane	0.3U	ug/m3		0.7	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
1,2-Dibromoethane	0.8U	ug/m3		2	0.8	0.8	TO-15		10/27/11 09:59	ECB	A
1,2-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
1,3-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
1,4-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
Dichlorodifluoromethane	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
1,1-Dichloroethane	2	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
1,2-Dichloroethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
1,1-Dichloroethene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
cis-1,2-Dichloroethene	12	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
trans-1,2-Dichloroethene	1	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
1,2-Dichloropropane	0.5U	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
cis-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		10/27/11 09:59	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
1,4-Dioxane	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Ethanol	1	ug/m3	2,3	0.4	0.2	0.2	TO-15		10/27/11 09:59	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Ethyl tert-butyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Ethylbenzene	1	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
4-Ethyltoluene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Freon 113	1J	ug/m3		2	0.8	0.8	TO-15		10/27/11 09:59	ECB	A
Freon-114	0.8J	ug/m3		1	0.7	0.7	TO-15		10/27/11 09:59	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357005** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Hexachlorobutadiene	1J	ug/m3		2	1	1	TO-15		10/27/11 09:59	ECB	A
Hexane	0.6J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
2-Hexanone	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Isopropyl Alcohol	0.5J	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 09:59	ECB	A
Isopropylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
p-Isopropyltoluene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
Methyl Methacrylate	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Methyl t-Butyl Ether	0.6J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Methylene Chloride	1	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Naphthalene	2	ug/m3	4	1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
iso-Octane	0.5J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
n-Propylbenzene	0.9J	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		10/27/11 09:59	ECB	A
Styrene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
1,1,2,2-Tetrachloroethane	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 09:59	ECB	A
Tetrachloroethene	590	ug/m3		14	7	7	TO-15		10/26/11 08:24	ECB	A
Tetrahydrofuran	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
Toluene	1	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Total Xylenes	5	ug/m3		3	1	1	TO-15		10/27/11 09:59	ECB	A
1,2,4-Trichlorobenzene	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 09:59	ECB	A
1,1,1-Trichloroethane	6	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
1,1,2-Trichloroethane	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
Trichloroethene	97	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
1,2,3-Trichloropropane	0.6J	ug/m3		1	0.6	0.6	TO-15		10/27/11 09:59	ECB	A
1,2,4-Trimethylbenzene	5	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
1,3,5-Trimethylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
1,2,3-Trimethylbenzene	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 09:59	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Vinyl Bromide	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
Vinyl Chloride	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 09:59	ECB	A
o-Xylene	2	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 09:59	ECB	A
mp-Xylene	3	ug/m3		2	0.9	0.9	TO-15		10/27/11 09:59	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	101	%		70-130			TO-15		10/26/11 08:24	ECB	A
4-Bromofluorobenzene (S)	105	%		70-130			TO-15		10/27/11 09:59	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357005** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

Several compounds were dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357006** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	4.1	ppbv	6	2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Acrylonitrile	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
tert-Amyl methyl ether	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Benzene	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Benzyl Chloride	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Bromodichloromethane	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Bromoform	1.4J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Bromomethane	1.7J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,3-Butadiene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
n-Butane	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
2-Butanone	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
tert-Butyl Alcohol	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Carbon Disulfide	1.8J	ppbv	6	2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Carbon Tetrachloride	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Chlorobenzene	1.7J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Chlorodibromomethane	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Chloroethane	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Chloroform	6.0	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Chloromethane	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
3-Chloro-1-propene	1.4J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
o-Chlorotoluene	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Cyclohexane	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,2-Dibromoethane	1.4J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,2-Dichlorobenzene	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,3-Dichlorobenzene	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,4-Dichlorobenzene	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Dichlorodifluoromethane	2.0	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,1-Dichloroethane	2.1	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,2-Dichloroethane	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,1-Dichloroethene	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
cis-1,2-Dichloroethene	40	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
trans-1,2-Dichloroethene	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,2-Dichloropropane	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
cis-1,3-Dichloropropene	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
trans-1,3-Dichloropropene	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,3-Dichloropropene, Total	2.5J	ppbv		4.0	2.0	2.0	TO-15		10/28/11 05:21	ECB	A
Diisopropyl ether	1.5J	ppbv		2.0	1.4	1.4	TO-15		10/28/11 05:21	ECB	A
1,4-Dioxane	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Ethanol	4.6	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Ethyl Acetate	1.4U	ppbv		2.0	1.4	1.4	TO-15		10/28/11 05:21	ECB	A
Ethyl tert-butyl ether	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357006** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
4-Ethyltoluene	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Freon 113	2.6	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Freon-114	1.7J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Heptane	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Hexachlorobutadiene	1.7J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Hexane	1.7J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
2-Hexanone	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Isopropyl Alcohol	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Isopropylbenzene	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
p-Isopropyltoluene	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Methyl methacrylate	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Methyl t-Butyl Ether	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
4-Methyl-2-Pentanone(MIBK)	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Methylene Chloride	3.3	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Naphthalene	1.0J	ppbv	7	2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
iso-Octane	1.7J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
n-Propylbenzene	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Propylene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Styrene	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,1,2,2-Tetrachloroethane	1.7J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Tetrachloroethene	990	ppbv		6.0	3.0	3.0	TO-15		10/28/11 11:49	ECB	A
Tetrahydrofuran	2.1	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Toluene	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Total Xylenes	4.8J	ppbv		6.0	3.0	3.0	TO-15		10/28/11 05:21	ECB	A
1,2,4-Trichlorobenzene	1.2J	ppbv	8	2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,1,1-Trichloroethane	5.6	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,1,2-Trichloroethane	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Trichloroethene	44	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Trichlorofluoromethane	2.0	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,2,3-Trichloropropane	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,2,4-Trimethylbenzene	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,3,5-Trimethylbenzene	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
1,2,3-Trimethylbenzene	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Vinyl Acetate	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Vinyl Bromide	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
Vinyl Chloride	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
o-Xylene	1.6J	ppbv		2.0	1.0	1.0	TO-15		10/28/11 05:21	ECB	A
mp-Xylene	3.3J	ppbv		4.0	2.0	2.0	TO-15		10/28/11 05:21	ECB	A
Acetone	10	ug/m3	6	5	2	2	TO-15		10/28/11 05:21	ECB	A
Acrylonitrile	2U	ug/m3		4	2	2	TO-15		10/28/11 05:21	ECB	A
tert-Amyl methyl ether	6J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357006** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	6J	ug/m3		6	3	3	TO-15		10/28/11 05:21	ECB	A
Benzyl Chloride	5U	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
Bromodichloromethane	7U	ug/m3		13	7	7	TO-15		10/28/11 05:21	ECB	A
Bromoform	14J	ug/m3		21	10	10	TO-15		10/28/11 05:21	ECB	A
Bromomethane	6J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
1,3-Butadiene	2U	ug/m3		4	2	2	TO-15		10/28/11 05:21	ECB	A
n-Butane	2U	ug/m3		5	2	2	TO-15		10/28/11 05:21	ECB	A
2-Butanone	6J	ug/m3		6	3	3	TO-15		10/28/11 05:21	ECB	A
tert-Butyl Alcohol	5J	ug/m3		6	3	3	TO-15		10/28/11 05:21	ECB	A
Carbon Disulfide	6J	ug/m3	6	6	3	3	TO-15		10/28/11 05:21	ECB	A
Carbon Tetrachloride	12J	ug/m3		13	6	6	TO-15		10/28/11 05:21	ECB	A
Chlorobenzene	8J	ug/m3		9	5	5	TO-15		10/28/11 05:21	ECB	A
Chlorodibromomethane	14J	ug/m3		17	8	8	TO-15		10/28/11 05:21	ECB	A
Chloroethane	5J	ug/m3		5	3	3	TO-15		10/28/11 05:21	ECB	A
Chloroform	29	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
Chloromethane	4J	ug/m3		4	2	2	TO-15		10/28/11 05:21	ECB	A
3-Chloro-1-propene	4J	ug/m3		6	3	3	TO-15		10/28/11 05:21	ECB	A
o-Chlorotoluene	8J	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
Cyclohexane	5J	ug/m3		7	3	3	TO-15		10/28/11 05:21	ECB	A
1,2-Dibromoethane	11J	ug/m3		15	8	8	TO-15		10/28/11 05:21	ECB	A
1,2-Dichlorobenzene	9J	ug/m3		12	6	6	TO-15		10/28/11 05:21	ECB	A
1,3-Dichlorobenzene	8J	ug/m3		12	6	6	TO-15		10/28/11 05:21	ECB	A
1,4-Dichlorobenzene	8J	ug/m3		12	6	6	TO-15		10/28/11 05:21	ECB	A
Dichlorodifluoromethane	10	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
1,1-Dichloroethane	9	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
1,2-Dichloroethane	6J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
1,1-Dichloroethene	6J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
cis-1,2-Dichloroethene	160	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
trans-1,2-Dichloroethene	7J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
1,2-Dichloropropane	8J	ug/m3		9	5	5	TO-15		10/28/11 05:21	ECB	A
cis-1,3-Dichloropropene	6J	ug/m3		9	4	4	TO-15		10/28/11 05:21	ECB	A
trans-1,3-Dichloropropene	5J	ug/m3		9	4	4	TO-15		10/28/11 05:21	ECB	A
1,3-Dichloropropene, Total	11J	ug/m3		18	9	9	TO-15		10/28/11 05:21	ECB	A
Diisopropyl ether	6J	ug/m3		8	6	6	TO-15		10/28/11 05:21	ECB	A
1,4-Dioxane	6J	ug/m3		7	4	4	TO-15		10/28/11 05:21	ECB	A
Ethanol	9	ug/m3		4	2	2	TO-15		10/28/11 05:21	ECB	A
Ethyl Acetate	5U	ug/m3		8	5	5	TO-15		10/28/11 05:21	ECB	A
Ethyl tert-butyl ether	5J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
Ethylbenzene	7J	ug/m3		9	4	4	TO-15		10/28/11 05:21	ECB	A
4-Ethyltoluene	8J	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
Freon 113	20	ug/m3		15	8	8	TO-15		10/28/11 05:21	ECB	A
Freon-114	12J	ug/m3		14	7	7	TO-15		10/28/11 05:21	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357006** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	5J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
Hexachlorobutadiene	18J	ug/m3		21	11	11	TO-15		10/28/11 05:21	ECB	A
Hexane	6J	ug/m3		7	4	4	TO-15		10/28/11 05:21	ECB	A
2-Hexanone	5J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
Isopropyl Alcohol	5J	ug/m3		5	2	2	TO-15		10/28/11 05:21	ECB	A
Isopropylbenzene	8J	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
p-Isopropyltoluene	7J	ug/m3		11	6	6	TO-15		10/28/11 05:21	ECB	A
Methyl Methacrylate	5J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
Methyl t-Butyl Ether	6J	ug/m3		7	4	4	TO-15		10/28/11 05:21	ECB	A
4-Methyl-2-Pentanone(MIBK)	6J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
Methylene Chloride	11	ug/m3		7	4	4	TO-15		10/28/11 05:21	ECB	A
Naphthalene	5J	ug/m3	7	10	5	5	TO-15		10/28/11 05:21	ECB	A
iso-Octane	8J	ug/m3		9	5	5	TO-15		10/28/11 05:21	ECB	A
n-Propylbenzene	6J	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
Propylene	2U	ug/m3		3	2	2	TO-15		10/28/11 05:21	ECB	A
Styrene	5J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
1,1,2,2-Tetrachloroethane	12J	ug/m3		14	7	7	TO-15		10/28/11 05:21	ECB	A
Tetrachloroethene	6700	ug/m3		41	20	20	TO-15		10/28/11 11:49	ECB	A
Tetrahydrofuran	6	ug/m3		6	3	3	TO-15		10/28/11 05:21	ECB	A
Toluene	6J	ug/m3		8	4	4	TO-15		10/28/11 05:21	ECB	A
Total Xylenes	21J	ug/m3		26	13	13	TO-15		10/28/11 05:21	ECB	A
1,2,4-Trichlorobenzene	9J	ug/m3	8	15	7	7	TO-15		10/28/11 05:21	ECB	A
1,1,1-Trichloroethane	31	ug/m3		11	6	6	TO-15		10/28/11 05:21	ECB	A
1,1,2-Trichloroethane	10J	ug/m3		11	6	6	TO-15		10/28/11 05:21	ECB	A
Trichloroethene	240	ug/m3		11	5	5	TO-15		10/28/11 05:21	ECB	A
Trichlorofluoromethane	11	ug/m3		11	6	6	TO-15		10/28/11 05:21	ECB	A
1,2,3-Trichloropropane	11J	ug/m3		12	6	6	TO-15		10/28/11 05:21	ECB	A
1,2,4-Trimethylbenzene	9J	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
1,3,5-Trimethylbenzene	8J	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
1,2,3-Trimethylbenzene	7J	ug/m3		10	5	5	TO-15		10/28/11 05:21	ECB	A
Vinyl Acetate	4U	ug/m3		7	4	4	TO-15		10/28/11 05:21	ECB	A
Vinyl Bromide	8J	ug/m3		9	4	4	TO-15		10/28/11 05:21	ECB	A
Vinyl Chloride	5J	ug/m3		5	3	3	TO-15		10/28/11 05:21	ECB	A
o-Xylene	7J	ug/m3		9	4	4	TO-15		10/28/11 05:21	ECB	A
mp-Xylene	14J	ug/m3		17	9	9	TO-15		10/28/11 05:21	ECB	A

Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*	*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	108	%		70-130	TO-15		10/28/11 05:21	ECB	A
4-Bromofluorobenzene (S)	100	%		70-130	TO-15		10/28/11 11:49	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357006** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-103D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

One or more of the method TO15 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357007** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-104I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	1.9	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
tert-Amyl methyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Benzene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Bromodichloromethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Bromoform	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Bromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,3-Butadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
n-Butane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
2-Butanone	0.26	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
tert-Butyl Alcohol	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Carbon Disulfide	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Carbon Tetrachloride	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Chlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Chlorodibromomethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Chloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Chloroform	0.27	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Chloromethane	0.39	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
o-Chlorotoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Cyclohexane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,2-Dibromoethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,2-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,3-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,4-Dichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Dichlorodifluoromethane	0.48	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,1-Dichloroethane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,2-Dichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,1-Dichloroethene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
cis-1,2-Dichloroethene	0.81	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
trans-1,2-Dichloroethene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,2-Dichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
cis-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/27/11 11:49	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 11:49	ECB	A
1,4-Dioxane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Ethanol	1.4	ppbv	2,3	0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 11:49	ECB	A
Ethyl tert-butyl ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357007** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-104I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
4-Ethyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Freon 113	0.23	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Freon-114	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Heptane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Hexachlorobutadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Hexane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
2-Hexanone	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Isopropyl Alcohol	0.21	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Isopropylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
p-Isopropyltoluene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Methyl methacrylate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Methyl t-Butyl Ether	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Methylene Chloride	0.26	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Naphthalene	0.12J	ppbv	4	0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
iso-Octane	0.10J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
n-Propylbenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Propylene	0.23	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Styrene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,1,2,2-Tetrachloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Tetrachloroethene	4.8	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Tetrahydrofuran	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Toluene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Total Xylenes	0.49J	ppbv		0.60	0.30	0.30	TO-15		10/27/11 11:49	ECB	A
1,2,4-Trichlorobenzene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,1,1-Trichloroethane	0.38	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,1,2-Trichloroethane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Trichloroethene	4.6	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Trichlorofluoromethane	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,2,3-Trichloropropane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,2,4-Trimethylbenzene	0.31	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,3,5-Trimethylbenzene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
1,2,3-Trimethylbenzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Vinyl Acetate	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Vinyl Bromide	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
Vinyl Chloride	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
o-Xylene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 11:49	ECB	A
mp-Xylene	0.33J	ppbv		0.40	0.20	0.20	TO-15		10/27/11 11:49	ECB	A
Acetone	5	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 11:49	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 11:49	ECB	A
tert-Amyl methyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357007** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-104I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.4J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Bromodichloromethane	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 11:49	ECB	A
Bromoform	1U	ug/m3		2	1	1	TO-15		10/27/11 11:49	ECB	A
Bromomethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
1,3-Butadiene	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 11:49	ECB	A
n-Butane	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 11:49	ECB	A
2-Butanone	0.8	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
tert-Butyl Alcohol	0.3J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
Carbon Disulfide	0.5J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
Carbon Tetrachloride	1J	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
Chlorobenzene	0.5U	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Chlorodibromomethane	0.8U	ug/m3		2	0.8	0.8	TO-15		10/27/11 11:49	ECB	A
Chloroethane	0.3U	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
Chloroform	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Chloromethane	0.8	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 11:49	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
o-Chlorotoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Cyclohexane	0.3U	ug/m3		0.7	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
1,2-Dibromoethane	0.8U	ug/m3		2	0.8	0.8	TO-15		10/27/11 11:49	ECB	A
1,2-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
1,3-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
1,4-Dichlorobenzene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
Dichlorodifluoromethane	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
1,1-Dichloroethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
1,2-Dichloroethane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
1,1-Dichloroethene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
cis-1,2-Dichloroethene	3	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
trans-1,2-Dichloroethene	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
1,2-Dichloropropane	0.5U	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
cis-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		10/27/11 11:49	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
1,4-Dioxane	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Ethanol	3	ug/m3	2,3	0.4	0.2	0.2	TO-15		10/27/11 11:49	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Ethyl tert-butyl ether	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Ethylbenzene	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
4-Ethyltoluene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Freon 113	2	ug/m3		2	0.8	0.8	TO-15		10/27/11 11:49	ECB	A
Freon-114	0.7J	ug/m3		1	0.7	0.7	TO-15		10/27/11 11:49	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357007** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-104I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Hexachlorobutadiene	1U	ug/m3		2	1	1	TO-15		10/27/11 11:49	ECB	A
Hexane	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
2-Hexanone	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Isopropyl Alcohol	0.5	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 11:49	ECB	A
Isopropylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
p-Isopropyltoluene	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
Methyl Methacrylate	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Methyl t-Butyl Ether	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Methylene Chloride	0.9	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Naphthalene	0.7J	ug/m3	4	1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
iso-Octane	0.5J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
n-Propylbenzene	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Propylene	0.4	ug/m3		0.3	0.2	0.2	TO-15		10/27/11 11:49	ECB	A
Styrene	0.4U	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
1,1,2,2-Tetrachloroethane	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 11:49	ECB	A
Tetrachloroethene	33	ug/m3		1	0.7	0.7	TO-15		10/27/11 11:49	ECB	A
Tetrahydrofuran	0.8	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
Toluene	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Total Xylenes	2J	ug/m3		3	1	1	TO-15		10/27/11 11:49	ECB	A
1,2,4-Trichlorobenzene	0.7U	ug/m3		1	0.7	0.7	TO-15		10/27/11 11:49	ECB	A
1,1,1-Trichloroethane	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
1,1,2-Trichloroethane	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
Trichloroethene	25	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
1,2,3-Trichloropropane	0.6U	ug/m3		1	0.6	0.6	TO-15		10/27/11 11:49	ECB	A
1,2,4-Trimethylbenzene	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
1,3,5-Trimethylbenzene	0.5J	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
1,2,3-Trimethylbenzene	0.7J	ug/m3		1	0.5	0.5	TO-15		10/27/11 11:49	ECB	A
Vinyl Acetate	0.5J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Vinyl Bromide	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
Vinyl Chloride	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 11:49	ECB	A
o-Xylene	0.7J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 11:49	ECB	A
mp-Xylene	1J	ug/m3		2	0.9	0.9	TO-15		10/27/11 11:49	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	98	%		70-130			TO-15		10/27/11 11:49	ECB	A

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID:	**9932357007**	Date Collected:	10/14/2011 12:45	Matrix:	Air
Sample ID:	**SVE-104I-101411**	Date Received:	10/15/2011 09:00		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Several compounds were dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357008** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-104D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.2	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Acrylonitrile	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
tert-Amyl methyl ether	1.0J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Benzene	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Benzyl Chloride	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Bromodichloromethane	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Bromoform	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Bromomethane	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,3-Butadiene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
n-Butane	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
2-Butanone	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
tert-Butyl Alcohol	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Carbon Disulfide	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Carbon Tetrachloride	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Chlorobenzene	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Chlorodibromomethane	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Chloroethane	1.4J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Chloroform	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Chloromethane	1.4J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
3-Chloro-1-propene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
o-Chlorotoluene	1.0J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Cyclohexane	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,2-Dibromoethane	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,2-Dichlorobenzene	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,3-Dichlorobenzene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,4-Dichlorobenzene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Dichlorodifluoromethane	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,1-Dichloroethane	19	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,2-Dichloroethane	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,1-Dichloroethene	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
cis-1,2-Dichloroethene	520	ppbv		6.0	3.0	3.0	TO-15		10/28/11 06:46	ECB	A
trans-1,2-Dichloroethene	5.5	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,2-Dichloropropane	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
cis-1,3-Dichloropropene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
trans-1,3-Dichloropropene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,3-Dichloropropene, Total	2.0U	ppbv		4.0	2.0	2.0	TO-15		10/27/11 12:35	ECB	A
Diisopropyl ether	1.4U	ppbv		2.0	1.4	1.4	TO-15		10/27/11 12:35	ECB	A
1,4-Dioxane	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Ethanol	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Ethyl Acetate	1.4U	ppbv		2.0	1.4	1.4	TO-15		10/27/11 12:35	ECB	A
Ethyl tert-butyl ether	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357008** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-104D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
4-Ethyltoluene	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Freon 113	72	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Freon-114	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Heptane	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Hexachlorobutadiene	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Hexane	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
2-Hexanone	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Isopropyl Alcohol	1.8J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Isopropylbenzene	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
p-Isopropyltoluene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Methyl methacrylate	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Methyl t-Butyl Ether	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
4-Methyl-2-Pentanone(MIBK)	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Methylene Chloride	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Naphthalene	1.0J	ppbv	4	2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
iso-Octane	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
n-Propylbenzene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Propylene	1.5J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Styrene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,1,2,2-Tetrachloroethane	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Tetrachloroethene	940	ppbv		6.0	3.0	3.0	TO-15		10/28/11 06:46	ECB	A
Tetrahydrofuran	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Toluene	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Total Xylenes	3.3J	ppbv		6.0	3.0	3.0	TO-15		10/27/11 12:35	ECB	A
1,2,4-Trichlorobenzene	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,1,1-Trichloroethane	81	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,1,2-Trichloroethane	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Trichloroethene	250	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Trichlorofluoromethane	1.3J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,2,3-Trichloropropane	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,2,4-Trimethylbenzene	1.4J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,3,5-Trimethylbenzene	1.0J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
1,2,3-Trimethylbenzene	1.2J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Vinyl Acetate	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Vinyl Bromide	1.0U	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
Vinyl Chloride	1.9J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
o-Xylene	1.1J	ppbv		2.0	1.0	1.0	TO-15		10/27/11 12:35	ECB	A
mp-Xylene	2.2J	ppbv		4.0	2.0	2.0	TO-15		10/27/11 12:35	ECB	A
Acetone	8	ug/m3		5	2	2	TO-15		10/27/11 12:35	ECB	A
Acrylonitrile	2U	ug/m3		4	2	2	TO-15		10/27/11 12:35	ECB	A
tert-Amyl methyl ether	4J	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357008** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-104D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	4J	ug/m3		6	3	3	TO-15		10/27/11 12:35	ECB	A
Benzyl Chloride	5U	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
Bromodichloromethane	7J	ug/m3		13	7	7	TO-15		10/27/11 12:35	ECB	A
Bromoform	11J	ug/m3		21	10	10	TO-15		10/27/11 12:35	ECB	A
Bromomethane	5J	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
1,3-Butadiene	2U	ug/m3		4	2	2	TO-15		10/27/11 12:35	ECB	A
n-Butane	2U	ug/m3		5	2	2	TO-15		10/27/11 12:35	ECB	A
2-Butanone	3J	ug/m3		6	3	3	TO-15		10/27/11 12:35	ECB	A
tert-Butyl Alcohol	3J	ug/m3		6	3	3	TO-15		10/27/11 12:35	ECB	A
Carbon Disulfide	4J	ug/m3		6	3	3	TO-15		10/27/11 12:35	ECB	A
Carbon Tetrachloride	8J	ug/m3		13	6	6	TO-15		10/27/11 12:35	ECB	A
Chlorobenzene	5J	ug/m3		9	5	5	TO-15		10/27/11 12:35	ECB	A
Chlorodibromomethane	10J	ug/m3		17	8	8	TO-15		10/27/11 12:35	ECB	A
Chloroethane	4J	ug/m3		5	3	3	TO-15		10/27/11 12:35	ECB	A
Chloroform	9J	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
Chloromethane	3J	ug/m3		4	2	2	TO-15		10/27/11 12:35	ECB	A
3-Chloro-1-propene	3U	ug/m3		6	3	3	TO-15		10/27/11 12:35	ECB	A
o-Chlorotoluene	5J	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
Cyclohexane	3U	ug/m3		7	3	3	TO-15		10/27/11 12:35	ECB	A
1,2-Dibromoethane	9J	ug/m3		15	8	8	TO-15		10/27/11 12:35	ECB	A
1,2-Dichlorobenzene	7J	ug/m3		12	6	6	TO-15		10/27/11 12:35	ECB	A
1,3-Dichlorobenzene	6U	ug/m3		12	6	6	TO-15		10/27/11 12:35	ECB	A
1,4-Dichlorobenzene	6U	ug/m3		12	6	6	TO-15		10/27/11 12:35	ECB	A
Dichlorodifluoromethane	8J	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
1,1-Dichloroethane	77	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
1,2-Dichloroethane	5J	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
1,1-Dichloroethene	7J	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
cis-1,2-Dichloroethene	2100	ug/m3		24	12	12	TO-15		10/28/11 06:46	ECB	A
trans-1,2-Dichloroethene	22	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
1,2-Dichloropropane	5J	ug/m3		9	5	5	TO-15		10/27/11 12:35	ECB	A
cis-1,3-Dichloropropene	4U	ug/m3		9	4	4	TO-15		10/27/11 12:35	ECB	A
trans-1,3-Dichloropropene	4U	ug/m3		9	4	4	TO-15		10/27/11 12:35	ECB	A
1,3-Dichloropropene, Total	9U	ug/m3		18	9	9	TO-15		10/27/11 12:35	ECB	A
Diisopropyl ether	6U	ug/m3		8	6	6	TO-15		10/27/11 12:35	ECB	A
1,4-Dioxane	4J	ug/m3		7	4	4	TO-15		10/27/11 12:35	ECB	A
Ethanol	2U	ug/m3		4	2	2	TO-15		10/27/11 12:35	ECB	A
Ethyl Acetate	5U	ug/m3		8	5	5	TO-15		10/27/11 12:35	ECB	A
Ethyl tert-butyl ether	4U	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
Ethylbenzene	5J	ug/m3		9	4	4	TO-15		10/27/11 12:35	ECB	A
4-Ethyltoluene	5J	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
Freon 113	550	ug/m3		15	8	8	TO-15		10/27/11 12:35	ECB	A
Freon-114	9J	ug/m3		14	7	7	TO-15		10/27/11 12:35	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357008** Date Collected: 10/14/2011 12:45 Matrix: Air

Sample ID: **SVE-104D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	5J	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
Hexachlorobutadiene	14J	ug/m3		21	11	11	TO-15		10/27/11 12:35	ECB	A
Hexane	4J	ug/m3		7	4	4	TO-15		10/27/11 12:35	ECB	A
2-Hexanone	4U	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
Isopropyl Alcohol	4J	ug/m3		5	2	2	TO-15		10/27/11 12:35	ECB	A
Isopropylbenzene	6J	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
p-Isopropyltoluene	6U	ug/m3		11	6	6	TO-15		10/27/11 12:35	ECB	A
Methyl Methacrylate	4U	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
Methyl t-Butyl Ether	4J	ug/m3		7	4	4	TO-15		10/27/11 12:35	ECB	A
4-Methyl-2-Pentanone(MIBK)	4U	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
Methylene Chloride	6J	ug/m3		7	4	4	TO-15		10/27/11 12:35	ECB	A
Naphthalene	5J	ug/m3	4	10	5	5	TO-15		10/27/11 12:35	ECB	A
iso-Octane	6J	ug/m3		9	5	5	TO-15		10/27/11 12:35	ECB	A
n-Propylbenzene	5U	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
Propylene	3J	ug/m3		3	2	2	TO-15		10/27/11 12:35	ECB	A
Styrene	4U	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
1,1,2,2-Tetrachloroethane	9J	ug/m3		14	7	7	TO-15		10/27/11 12:35	ECB	A
Tetrachloroethene	6300	ug/m3		41	20	20	TO-15		10/28/11 06:46	ECB	A
Tetrahydrofuran	3J	ug/m3		6	3	3	TO-15		10/27/11 12:35	ECB	A
Toluene	4J	ug/m3		8	4	4	TO-15		10/27/11 12:35	ECB	A
Total Xylenes	14J	ug/m3		26	13	13	TO-15		10/27/11 12:35	ECB	A
1,2,4-Trichlorobenzene	7U	ug/m3		15	7	7	TO-15		10/27/11 12:35	ECB	A
1,1,1-Trichloroethane	440	ug/m3		11	6	6	TO-15		10/27/11 12:35	ECB	A
1,1,2-Trichloroethane	7J	ug/m3		11	6	6	TO-15		10/27/11 12:35	ECB	A
Trichloroethene	1300	ug/m3		11	5	5	TO-15		10/27/11 12:35	ECB	A
Trichlorofluoromethane	7J	ug/m3		11	6	6	TO-15		10/27/11 12:35	ECB	A
1,2,3-Trichloropropane	7J	ug/m3		12	6	6	TO-15		10/27/11 12:35	ECB	A
1,2,4-Trimethylbenzene	7J	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
1,3,5-Trimethylbenzene	5J	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
1,2,3-Trimethylbenzene	6J	ug/m3		10	5	5	TO-15		10/27/11 12:35	ECB	A
Vinyl Acetate	4J	ug/m3		7	4	4	TO-15		10/27/11 12:35	ECB	A
Vinyl Bromide	4U	ug/m3		9	4	4	TO-15		10/27/11 12:35	ECB	A
Vinyl Chloride	5J	ug/m3		5	3	3	TO-15		10/27/11 12:35	ECB	A
o-Xylene	5J	ug/m3		9	4	4	TO-15		10/27/11 12:35	ECB	A
mp-Xylene	10J	ug/m3		17	9	9	TO-15		10/27/11 12:35	ECB	A

Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*	*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	100	%		70-130	TO-15		10/27/11 12:35	ECB	A
4-Bromofluorobenzene (S)	104	%		70-130	TO-15		10/28/11 06:46	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID:	**9932357008**	Date Collected:	10/14/2011 12:45	Matrix:	Air
Sample ID:	**SVE-104D-101411**	Date Received:	10/15/2011 09:00		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Several compounds were dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357009** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-105I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	1.7	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
tert-Amyl methyl ether	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Benzene	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Bromodichloromethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Bromoform	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Bromomethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,3-Butadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
n-Butane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
2-Butanone	0.39	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
tert-Butyl Alcohol	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Carbon Disulfide	0.20J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Carbon Tetrachloride	0.21	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Chlorobenzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Chlorodibromomethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Chloroethane	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Chloroform	0.53	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Chloromethane	0.21	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
3-Chloro-1-propene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
o-Chlorotoluene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Cyclohexane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,2-Dibromoethane	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,2-Dichlorobenzene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,3-Dichlorobenzene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,4-Dichlorobenzene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Dichlorodifluoromethane	0.52	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,1-Dichloroethane	1.8	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,2-Dichloroethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,1-Dichloroethene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
cis-1,2-Dichloroethene	4.1	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
trans-1,2-Dichloroethene	0.26	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,2-Dichloropropane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
cis-1,3-Dichloropropene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
trans-1,3-Dichloropropene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,3-Dichloropropene, Total	0.21J	ppbv		0.40	0.20	0.20	TO-15		10/27/11 06:23	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 06:23	ECB	A
1,4-Dioxane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Ethanol	1.1	ppbv	2,3	0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/27/11 06:23	ECB	A
Ethyl tert-butyl ether	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357009** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-105I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
4-Ethyltoluene	0.30	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Freon 113	0.38	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Freon-114	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Heptane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Hexachlorobutadiene	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Hexane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
2-Hexanone	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Isopropyl Alcohol	2.8	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Isopropylbenzene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
p-Isopropyltoluene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Methyl methacrylate	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Methyl t-Butyl Ether	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Methylene Chloride	0.42	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Naphthalene	1.5	ppbv	4	0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
iso-Octane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
n-Propylbenzene	0.22	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Styrene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,1,2,2-Tetrachloroethane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Tetrachloroethene	15	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Tetrahydrofuran	0.61	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Toluene	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Total Xylenes	1.3	ppbv		0.60	0.30	0.30	TO-15		10/27/11 06:23	ECB	A
1,2,4-Trichlorobenzene	0.14J	ppbv	5	0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,1,1-Trichloroethane	5.7	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,1,2-Trichloroethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Trichloroethene	38	ppbv		2.0	1.0	1.0	TO-15		10/28/11 06:04	ECB	A
Trichlorofluoromethane	0.33	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,2,3-Trichloropropane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,2,4-Trimethylbenzene	1.4	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,3,5-Trimethylbenzene	0.28	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
1,2,3-Trimethylbenzene	0.46	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Vinyl Bromide	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
Vinyl Chloride	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
o-Xylene	0.44	ppbv		0.20	0.10	0.10	TO-15		10/27/11 06:23	ECB	A
mp-Xylene	0.86	ppbv		0.40	0.20	0.20	TO-15		10/27/11 06:23	ECB	A
Acetone	4	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 06:23	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 06:23	ECB	A
tert-Amyl methyl ether	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357009** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-105I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.6J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
Bromodichloromethane	0.9J	ug/m3		1	0.7	0.7	TO-15		10/27/11 06:23	ECB	A
Bromoform	1J	ug/m3		2	1	1	TO-15		10/27/11 06:23	ECB	A
Bromomethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
1,3-Butadiene	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 06:23	ECB	A
n-Butane	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 06:23	ECB	A
2-Butanone	1	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
tert-Butyl Alcohol	0.4J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
Carbon Disulfide	0.6J	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
Carbon Tetrachloride	1	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
Chlorobenzene	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
Chlorodibromomethane	1J	ug/m3		2	0.8	0.8	TO-15		10/27/11 06:23	ECB	A
Chloroethane	0.4J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
Chloroform	3	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
Chloromethane	0.4	ug/m3		0.4	0.2	0.2	TO-15		10/27/11 06:23	ECB	A
3-Chloro-1-propene	0.3U	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
o-Chlorotoluene	0.7J	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
Cyclohexane	0.5J	ug/m3		0.7	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
1,2-Dibromoethane	0.8J	ug/m3		2	0.8	0.8	TO-15		10/27/11 06:23	ECB	A
1,2-Dichlorobenzene	0.8J	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
1,3-Dichlorobenzene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
1,4-Dichlorobenzene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
Dichlorodifluoromethane	3	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
1,1-Dichloroethane	7	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
1,2-Dichloroethane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
1,1-Dichloroethene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
cis-1,2-Dichloroethene	16	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
trans-1,2-Dichloroethene	1	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
1,2-Dichloropropane	0.6J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
cis-1,3-Dichloropropene	0.5J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
trans-1,3-Dichloropropene	0.5J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
1,3-Dichloropropene, Total	1J	ug/m3		2	0.9	0.9	TO-15		10/27/11 06:23	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
1,4-Dioxane	0.6J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Ethanol	2	ug/m3	2,3	0.4	0.2	0.2	TO-15		10/27/11 06:23	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
Ethyl tert-butyl ether	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Ethylbenzene	1	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
4-Ethyltoluene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
Freon 113	3	ug/m3		2	0.8	0.8	TO-15		10/27/11 06:23	ECB	A
Freon-114	1J	ug/m3		1	0.7	0.7	TO-15		10/27/11 06:23	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357009** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-105I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Hexachlorobutadiene	2J	ug/m3		2	1	1	TO-15		10/27/11 06:23	ECB	A
Hexane	0.5J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
2-Hexanone	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Isopropyl Alcohol	7	ug/m3		0.5	0.2	0.2	TO-15		10/27/11 06:23	ECB	A
Isopropylbenzene	0.8J	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
p-Isopropyltoluene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
Methyl Methacrylate	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Methyl t-Butyl Ether	0.4J	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Methylene Chloride	1	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Naphthalene	8	ug/m3	4	1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
iso-Octane	0.7J	ug/m3		0.9	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
n-Propylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		10/27/11 06:23	ECB	A
Styrene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
1,1,2,2-Tetrachloroethane	0.9J	ug/m3		1	0.7	0.7	TO-15		10/27/11 06:23	ECB	A
Tetrachloroethene	100	ug/m3		1	0.7	0.7	TO-15		10/27/11 06:23	ECB	A
Tetrahydrofuran	2	ug/m3		0.6	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
Toluene	1	ug/m3		0.8	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Total Xylenes	6	ug/m3		3	1	1	TO-15		10/27/11 06:23	ECB	A
1,2,4-Trichlorobenzene	1J	ug/m3	5	1	0.7	0.7	TO-15		10/27/11 06:23	ECB	A
1,1,1-Trichloroethane	31	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
1,1,2-Trichloroethane	0.9J	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
Trichloroethene	200	ug/m3		11	5	5	TO-15		10/28/11 06:04	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
1,2,3-Trichloropropane	0.9J	ug/m3		1	0.6	0.6	TO-15		10/27/11 06:23	ECB	A
1,2,4-Trimethylbenzene	7	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
1,3,5-Trimethylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
1,2,3-Trimethylbenzene	2	ug/m3		1	0.5	0.5	TO-15		10/27/11 06:23	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Vinyl Bromide	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
Vinyl Chloride	0.3J	ug/m3		0.5	0.3	0.3	TO-15		10/27/11 06:23	ECB	A
o-Xylene	2	ug/m3		0.9	0.4	0.4	TO-15		10/27/11 06:23	ECB	A
mp-Xylene	4	ug/m3		2	0.9	0.9	TO-15		10/27/11 06:23	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	110	%		70-130			TO-15		10/27/11 06:23	ECB	A
4-Bromofluorobenzene (S)	105	%		70-130			TO-15		10/28/11 06:04	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357009** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-105I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

Several compounds were dectected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357010** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-105D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
ADMINISTRATIVE											
Sample Cancelled	Cancelled								11/21/11 17:10	TH	

Sample Comments:

This sample was cancelled due coming to ALS from the client with no vacuum and the stem compromised in the field. TMH 11/21/11

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357011** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.9	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
tert-Amyl methyl ether	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Benzene	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Benzyl Chloride	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Bromodichloromethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Bromoform	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Bromomethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,3-Butadiene	0.25	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
n-Butane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
2-Butanone	0.71	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
tert-Butyl Alcohol	0.27	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Carbon Disulfide	0.20	ppbv	6	0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Carbon Tetrachloride	0.41	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Chlorobenzene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Chlorodibromomethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Chloroethane	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Chloroform	0.42	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Chloromethane	0.20	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
3-Chloro-1-propene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
o-Chlorotoluene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Cyclohexane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,2-Dibromoethane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,2-Dichlorobenzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,3-Dichlorobenzene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,4-Dichlorobenzene	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Dichlorodifluoromethane	0.54	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,1-Dichloroethane	0.32	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,2-Dichloroethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,1-Dichloroethene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
cis-1,2-Dichloroethene	1.1	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
trans-1,2-Dichloroethene	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,2-Dichloropropane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
cis-1,3-Dichloropropene	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
trans-1,3-Dichloropropene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,3-Dichloropropene, Total	0.20U	ppbv		0.40	0.20	0.20	TO-15		10/28/11 07:29	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/28/11 07:29	ECB	A
1,4-Dioxane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Ethanol	0.76	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/28/11 07:29	ECB	A
Ethyl tert-butyl ether	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357011** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.30	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
4-Ethyltoluene	0.28	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Freon 113	1.5	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Freon-114	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Heptane	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Hexachlorobutadiene	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Hexane	0.37	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
2-Hexanone	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Isopropyl Alcohol	0.39	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Isopropylbenzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
p-Isopropyltoluene	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Methyl methacrylate	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Methyl t-Butyl Ether	0.20J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Methylene Chloride	1.5	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Naphthalene	0.40	ppbv	7	0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
iso-Octane	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
n-Propylbenzene	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Styrene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,1,2,2-Tetrachloroethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Tetrachloroethene	2.8	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Tetrahydrofuran	0.83	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Toluene	0.32	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Total Xylenes	1.3	ppbv		0.60	0.30	0.30	TO-15		10/28/11 07:29	ECB	A
1,2,4-Trichlorobenzene	0.10J	ppbv	8	0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,1,1-Trichloroethane	1.2	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,1,2-Trichloroethane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Trichloroethene	35	ppbv		2.0	1.0	1.0	TO-15		10/28/11 10:20	ECB	A
Trichlorofluoromethane	0.36	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,2,3-Trichloropropane	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,2,4-Trimethylbenzene	1.2	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,3,5-Trimethylbenzene	0.28	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
1,2,3-Trimethylbenzene	0.43	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Vinyl Bromide	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
Vinyl Chloride	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
o-Xylene	0.46	ppbv		0.20	0.10	0.10	TO-15		10/28/11 07:29	ECB	A
mp-Xylene	0.86	ppbv		0.40	0.20	0.20	TO-15		10/28/11 07:29	ECB	A
Acetone	9	ug/m3		0.5	0.2	0.2	TO-15		10/28/11 07:29	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/28/11 07:29	ECB	A
tert-Amyl methyl ether	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357011** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.6J	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
Benzyl Chloride	0.5U	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
Bromodichloromethane	1J	ug/m3		1	0.7	0.7	TO-15		10/28/11 07:29	ECB	A
Bromoform	2J	ug/m3		2	1	1	TO-15		10/28/11 07:29	ECB	A
Bromomethane	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
1,3-Butadiene	0.6	ug/m3		0.4	0.2	0.2	TO-15		10/28/11 07:29	ECB	A
n-Butane	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/28/11 07:29	ECB	A
2-Butanone	2	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
tert-Butyl Alcohol	0.8	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
Carbon Disulfide	0.6	ug/m3	6	0.6	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
Carbon Tetrachloride	3	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
Chlorobenzene	0.7J	ug/m3		0.9	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
Chlorodibromomethane	1J	ug/m3		2	0.8	0.8	TO-15		10/28/11 07:29	ECB	A
Chloroethane	0.5J	ug/m3		0.5	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
Chloroform	2	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
Chloromethane	0.4	ug/m3		0.4	0.2	0.2	TO-15		10/28/11 07:29	ECB	A
3-Chloro-1-propene	0.4J	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
o-Chlorotoluene	0.7J	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
Cyclohexane	0.4J	ug/m3		0.7	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
1,2-Dibromoethane	1J	ug/m3		2	0.8	0.8	TO-15		10/28/11 07:29	ECB	A
1,2-Dichlorobenzene	0.9J	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
1,3-Dichlorobenzene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
1,4-Dichlorobenzene	0.7J	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
Dichlorodifluoromethane	3	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
1,1-Dichloroethane	1	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
1,2-Dichloroethane	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
1,1-Dichloroethene	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
cis-1,2-Dichloroethene	4	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
trans-1,2-Dichloroethene	0.7J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
1,2-Dichloropropane	0.7J	ug/m3		0.9	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
cis-1,3-Dichloropropene	0.5J	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
trans-1,3-Dichloropropene	0.4U	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
1,3-Dichloropropene, Total	0.9U	ug/m3		2	0.9	0.9	TO-15		10/28/11 07:29	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
1,4-Dioxane	0.6J	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Ethanol	1	ug/m3		0.4	0.2	0.2	TO-15		10/28/11 07:29	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
Ethyl tert-butyl ether	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Ethylbenzene	1	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
4-Ethyltoluene	1	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
Freon 113	12	ug/m3		2	0.8	0.8	TO-15		10/28/11 07:29	ECB	A
Freon-114	1J	ug/m3		1	0.7	0.7	TO-15		10/28/11 07:29	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357011** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106I-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Hexachlorobutadiene	2J	ug/m3		2	1	1	TO-15		10/28/11 07:29	ECB	A
Hexane	1	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
2-Hexanone	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Isopropyl Alcohol	1	ug/m3		0.5	0.2	0.2	TO-15		10/28/11 07:29	ECB	A
Isopropylbenzene	0.7J	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
p-Isopropyltoluene	0.8J	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
Methyl Methacrylate	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Methyl t-Butyl Ether	0.7	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Methylene Chloride	5	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Naphthalene	2	ug/m3	7	1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
iso-Octane	0.8J	ug/m3		0.9	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
n-Propylbenzene	0.9J	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		10/28/11 07:29	ECB	A
Styrene	0.5J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
1,1,2,2-Tetrachloroethane	1J	ug/m3		1	0.7	0.7	TO-15		10/28/11 07:29	ECB	A
Tetrachloroethene	19	ug/m3		1	0.7	0.7	TO-15		10/28/11 07:29	ECB	A
Tetrahydrofuran	2	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
Toluene	1	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Total Xylenes	6	ug/m3		3	1	1	TO-15		10/28/11 07:29	ECB	A
1,2,4-Trichlorobenzene	0.8J	ug/m3	8	1	0.7	0.7	TO-15		10/28/11 07:29	ECB	A
1,1,1-Trichloroethane	7	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
1,1,2-Trichloroethane	0.8J	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
Trichloroethene	190	ug/m3		11	5	5	TO-15		10/28/11 10:20	ECB	A
Trichlorofluoromethane	2	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
1,2,3-Trichloropropane	0.9J	ug/m3		1	0.6	0.6	TO-15		10/28/11 07:29	ECB	A
1,2,4-Trimethylbenzene	6	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
1,3,5-Trimethylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
1,2,3-Trimethylbenzene	2	ug/m3		1	0.5	0.5	TO-15		10/28/11 07:29	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Vinyl Bromide	0.7J	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
Vinyl Chloride	0.4J	ug/m3		0.5	0.3	0.3	TO-15		10/28/11 07:29	ECB	A
o-Xylene	2	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 07:29	ECB	A
mp-Xylene	4	ug/m3		2	0.9	0.9	TO-15		10/28/11 07:29	ECB	A

Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*	*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	107	%		70-130	TO-15		10/28/11 07:29	ECB	A
4-Bromofluorobenzene (S)	108	%		70-130	TO-15		10/28/11 10:20	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID:	**9932357011**	Date Collected:	10/14/2011 12:02	Matrix:	Air
Sample ID:	**SVE-106I-101411**	Date Received:	10/15/2011 09:00		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

One of the method TO15 internal standards were recovered outside of the control limits in the diluted sample.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357012** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	2.5	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Acrylonitrile	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
tert-Amyl methyl ether	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Benzene	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Benzyl Chloride	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Bromodichloromethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Bromoform	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Bromomethane	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,3-Butadiene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
n-Butane	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
2-Butanone	0.56	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
tert-Butyl Alcohol	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Carbon Disulfide	0.21	ppbv	6	0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Carbon Tetrachloride	2.8	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Chlorobenzene	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Chlorodibromomethane	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Chloroethane	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Chloroform	1.1	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Chloromethane	0.29	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
3-Chloro-1-propene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
o-Chlorotoluene	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Cyclohexane	0.12J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,2-Dibromoethane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,2-Dichlorobenzene	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,3-Dichlorobenzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,4-Dichlorobenzene	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Dichlorodifluoromethane	0.61	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,1-Dichloroethane	0.73	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,2-Dichloroethane	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,1-Dichloroethene	0.20J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
cis-1,2-Dichloroethene	0.99	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
trans-1,2-Dichloroethene	0.22	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,2-Dichloropropane	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
cis-1,3-Dichloropropene	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
trans-1,3-Dichloropropene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,3-Dichloropropene, Total	0.28J	ppbv		0.40	0.20	0.20	TO-15		10/28/11 12:31	ECB	A
Diisopropyl ether	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/28/11 12:31	ECB	A
1,4-Dioxane	0.20J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Ethanol	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Ethyl Acetate	0.14U	ppbv		0.20	0.14	0.14	TO-15		10/28/11 12:31	ECB	A
Ethyl tert-butyl ether	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357012** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.29	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
4-Ethyltoluene	0.23	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Freon 113	3.3	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Freon-114	0.20J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Heptane	0.14J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Hexachlorobutadiene	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Hexane	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
2-Hexanone	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Isopropyl Alcohol	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Isopropylbenzene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
p-Isopropyltoluene	0.16J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Methyl methacrylate	0.11J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Methyl t-Butyl Ether	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.15J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Methylene Chloride	0.31	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Naphthalene	0.59	ppbv	7	0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
iso-Octane	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
n-Propylbenzene	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Propylene	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Styrene	0.13J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,1,2,2-Tetrachloroethane	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Tetrachloroethene	9.8	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Tetrahydrofuran	0.66	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Toluene	0.74	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Total Xylenes	1.3	ppbv		0.60	0.30	0.30	TO-15		10/28/11 12:31	ECB	A
1,2,4-Trichlorobenzene	0.13J	ppbv	8	0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,1,1-Trichloroethane	5.4	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,1,2-Trichloroethane	0.17J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Trichloroethene	59	ppbv		2.0	1.0	1.0	TO-15		10/28/11 08:11	ECB	A
Trichlorofluoromethane	0.47	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,2,3-Trichloropropane	0.19J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,2,4-Trimethylbenzene	0.80	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,3,5-Trimethylbenzene	0.25	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
1,2,3-Trimethylbenzene	0.34	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Vinyl Acetate	0.10U	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Vinyl Bromide	0.20J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
Vinyl Chloride	0.18J	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
o-Xylene	0.41	ppbv		0.20	0.10	0.10	TO-15		10/28/11 12:31	ECB	A
mp-Xylene	0.87	ppbv		0.40	0.20	0.20	TO-15		10/28/11 12:31	ECB	A
Acetone	6	ug/m3		0.5	0.2	0.2	TO-15		10/28/11 12:31	ECB	A
Acrylonitrile	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/28/11 12:31	ECB	A
tert-Amyl methyl ether	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357012** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	0.6J	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
Benzyl Chloride	0.6J	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
Bromodichloromethane	1J	ug/m3		1	0.7	0.7	TO-15		10/28/11 12:31	ECB	A
Bromoform	2J	ug/m3		2	1	1	TO-15		10/28/11 12:31	ECB	A
Bromomethane	0.7J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
1,3-Butadiene	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/28/11 12:31	ECB	A
n-Butane	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/28/11 12:31	ECB	A
2-Butanone	2	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
tert-Butyl Alcohol	0.3U	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
Carbon Disulfide	0.6	ug/m3	6	0.6	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
Carbon Tetrachloride	18	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
Chlorobenzene	0.8J	ug/m3		0.9	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
Chlorodibromomethane	1J	ug/m3		2	0.8	0.8	TO-15		10/28/11 12:31	ECB	A
Chloroethane	0.4J	ug/m3		0.5	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
Chloroform	5	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
Chloromethane	0.6	ug/m3		0.4	0.2	0.2	TO-15		10/28/11 12:31	ECB	A
3-Chloro-1-propene	0.4J	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
o-Chlorotoluene	0.9J	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
Cyclohexane	0.4J	ug/m3		0.7	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
1,2-Dibromoethane	1J	ug/m3		2	0.8	0.8	TO-15		10/28/11 12:31	ECB	A
1,2-Dichlorobenzene	1J	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
1,3-Dichlorobenzene	0.8J	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
1,4-Dichlorobenzene	0.8J	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
Dichlorodifluoromethane	3	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
1,1-Dichloroethane	3	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
1,2-Dichloroethane	0.7J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
1,1-Dichloroethene	0.8	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
cis-1,2-Dichloroethene	4	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
trans-1,2-Dichloroethene	0.9	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
1,2-Dichloropropane	0.8J	ug/m3		0.9	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
cis-1,3-Dichloropropene	0.7J	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
trans-1,3-Dichloropropene	0.6J	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
1,3-Dichloropropene, Total	1J	ug/m3		2	0.9	0.9	TO-15		10/28/11 12:31	ECB	A
Diisopropyl ether	0.6U	ug/m3		0.8	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
1,4-Dioxane	0.7J	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Ethanol	0.2U	ug/m3		0.4	0.2	0.2	TO-15		10/28/11 12:31	ECB	A
Ethyl Acetate	0.5U	ug/m3		0.8	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
Ethyl tert-butyl ether	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Ethylbenzene	1	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
4-Ethyltoluene	1	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
Freon 113	25	ug/m3		2	0.8	0.8	TO-15		10/28/11 12:31	ECB	A
Freon-114	1J	ug/m3		1	0.7	0.7	TO-15		10/28/11 12:31	ECB	A

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357012** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Hexachlorobutadiene	2J	ug/m3		2	1	1	TO-15		10/28/11 12:31	ECB	A
Hexane	0.6J	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
2-Hexanone	0.8J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Isopropyl Alcohol	0.2U	ug/m3		0.5	0.2	0.2	TO-15		10/28/11 12:31	ECB	A
Isopropylbenzene	0.8J	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
p-Isopropyltoluene	0.9J	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
Methyl Methacrylate	0.4J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Methyl t-Butyl Ether	0.5J	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Methylene Chloride	1	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Naphthalene	3	ug/m3	7	1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
iso-Octane	0.8J	ug/m3		0.9	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
n-Propylbenzene	0.9J	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
Propylene	0.2U	ug/m3		0.3	0.2	0.2	TO-15		10/28/11 12:31	ECB	A
Styrene	0.6J	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
1,1,2,2-Tetrachloroethane	1J	ug/m3		1	0.7	0.7	TO-15		10/28/11 12:31	ECB	A
Tetrachloroethene	66	ug/m3		1	0.7	0.7	TO-15		10/28/11 12:31	ECB	A
Tetrahydrofuran	2	ug/m3		0.6	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
Toluene	3	ug/m3		0.8	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Total Xylenes	6	ug/m3		3	1	1	TO-15		10/28/11 12:31	ECB	A
1,2,4-Trichlorobenzene	0.9J	ug/m3	8	1	0.7	0.7	TO-15		10/28/11 12:31	ECB	A
1,1,1-Trichloroethane	29	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
1,1,2-Trichloroethane	0.9J	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
Trichloroethene	320	ug/m3		11	5	5	TO-15		10/28/11 08:11	ECB	A
Trichlorofluoromethane	3	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
1,2,3-Trichloropropane	1J	ug/m3		1	0.6	0.6	TO-15		10/28/11 12:31	ECB	A
1,2,4-Trimethylbenzene	4	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
1,3,5-Trimethylbenzene	1	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
1,2,3-Trimethylbenzene	2	ug/m3		1	0.5	0.5	TO-15		10/28/11 12:31	ECB	A
Vinyl Acetate	0.4U	ug/m3		0.7	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Vinyl Bromide	0.9	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
Vinyl Chloride	0.5J	ug/m3		0.5	0.3	0.3	TO-15		10/28/11 12:31	ECB	A
o-Xylene	2	ug/m3		0.9	0.4	0.4	TO-15		10/28/11 12:31	ECB	A
mp-Xylene	4	ug/m3		2	0.9	0.9	TO-15		10/28/11 12:31	ECB	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*			*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	108	%		70-130			TO-15		10/28/11 08:11	ECB	A
4-Bromofluorobenzene (S)	108	%		70-130			TO-15		10/28/11 12:31	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357012** Date Collected: 10/14/2011 12:02 Matrix: Air

Sample ID: **SVE-106D-101411** Date Received: 10/15/2011 09:00

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

Anna G Milliken
Technical Manager

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

PARAMETER QUALIFIERS\FLAGS

[1]	The QC sample type LCSD for method TO-15 was outside the control limits for the analyte n-Butane. The RPD was reported as 44 and the upper control limit is 30.
[2]	The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 160 and the control limits were 60 to 140.
[3]	The QC sample type LCS for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 164 and the control limits were 60 to 140.
[4]	This compound was recovered above quality control criteria in the initial calibration verification standard associated with this sample. The % Recovery was reported as 194% and the control limits were 70% to 130%.
[5]	This compound was recovered above quality control criteria in the initial calibration verification standard associated with this sample. The % Recovery was reported as 143% and the control limits were 70% to 130%.
[6]	This compound was detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.
[7]	This compound was recovered above quality control criteria in the initial calibration verification standard associated with this sample. The % Recovery was reported as 203% and the control limits were 70% to 130%.
[8]	This compound was recovered above quality control criteria in the initial calibration verification standard associated with this sample. The % Recovery was reported as 149% and the control limits were 70% to 130%.

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2
Courier: FED EX
Tracking #: 8602 0108 5064

9932357

Co. Name: H&S Environmental, Inc.
Contact (Report to): Jen Good — **Phone:** 508.366.7442
Address: 160 E. Main St., Suite 2F, Westborough, MA 01581

Bill to (if different than Report to): Same — **PO#:** 2034-003

Project Name/#: NWIRP Bethpage Site 1 Quarterly Vapor — **ALSI Quote #:**

TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:

Email? [x] -Y jgood@hsenv.com
Fax? -Y No.:

***Container Type: 6L — ***Container Size: summa — ***Preservative: —

ANALYSES/METHOD REQUESTED: VOCs (TO-15) - full list

Enter Number of Containers Per Analysis

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs (TO-15) - full list
1	SVE-101I-~~090611~~ 101411		10/14/11	1240	G	AIR	1
2	SVE-101D-~~090611~~ 101411		↓	↓	G	AIR	1
3	SVE-102I-~~090611~~ 101411			1202	G	AIR	1
4	SVE-102D-~~090611~~ 101411			↓	G	AIR	1
5	SVE-103I-~~090611~~ 101411			1240	G	AIR	1
6	SVE-103D-~~090611~~ 101411				G	AIR	1
7	SVE-104I-~~090611~~ 101411				G	AIR	1
8	SVE-104D-~~090611~~ 101411		↓	↓	G	AIR	1

Receipt Information (completed by Sample Receiving)
Performed by: [signature]
Cooler Temp: N/A
Therm. ID:
No. of Coolers:
Notes:

Circle appropriate Y or N.		
Correct containers?	Y (circled)	N
Correct sample volume?	Y (circled)	N
Correct preservation?	Y (circled)	N
Headspace/Volatiles?	—	—
Custody seals Present?	Y	N (circled)
(if present) Seals intact?	Y	N
Received on ice?	Y	N (circled)
COC/Labels complete/accurate?	Y (circled)	N
Container in good condition?	Y (circled)	N

SAMPLED BY (Please Print): G. Gangemi
LOGGED BY(signature): [signature] DATE 10/17/11 TIME 0815
REVIEWED BY(signature): [signature] DATE 10/18/11 TIME 1600

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	10/14/11	1300	2	[signature]	10/15	900
3				4			
5				6			
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] (other)
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [x] PA [ ] Other
PWSID

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite — **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY — Rev 08-2008

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 2 of 2
Courier: Fed Ex
Tracking #: 8602 0108 5864

9932357

Co. Name: H&S Environmental, Inc.
Contact (Report to): Jen Good Phone: 508.366.7442
Address: 160 E. Main St., Suite 2F
Westborough, MA 01581

Bill to (if different than Report to): Same
PO#: 2034-003

Project Name/#: NWIRP Bethpage Site 1 Quarterly Vapor
ALSI Quote #:

TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:

Email? [x] -Y jgood@hsenv.com
Fax? [ ] -Y No.:

***Container Type: 6L
***Container Size: summa
***Preservative: —

ANALYSES/METHOD REQUESTED: VOCs (TO-15) - full list

Enter Number of Containers Per Analysis

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs (TO-15) - full list
1	SVE-105I-~~090611~~ 101411		10/14/11	1202	G	AIR	1
2	SVE-105D-~~090611~~ 101411		↓	↓	G	AIR	1
3	SVE-106I-~~090611~~ 101411		↓	↓	G	AIR	1
4	SVE-106D-~~090611~~ 101411		↓	↓	G	AIR	1
5							
6							
7							
8							

SAMPLED BY (Please Print): G. Gangemi
LOGGED BY (signature): K. Snow Date 10/17/11 0810
REVIEWED BY (signature): [signature] Date 10/18/11 [illegible]

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	10/14/11	1320	2	[signature] / H&S	10/15	500
3				4			
5				6			
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] (other)
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [x] PA [ ]
Other
PWSID

Receipt Information (completed by Sample...)
Performed by: INIT: L HEAR
Cooler Temp: N/A
Therm. ID:
No. of Coolers:
Notes:

Custody seals Present?	Y	(N)
(if present) Seals intact?	Y	N
Received on ice?	Y	(N)
COC/Labels complete/accurate?	(Y)	N
Container in good condition?	(Y)	N
Correct containers?	(Y)	N
Correct sample volume?	(Y)	N
Correct preservation?	(Y)	N
Headspace/Volatiles?	—	—

Circle appropriate Y or N.

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
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Bethpage Site 1 Sampling Form

Sampler: G, Gaggiani
Date: 10/14/11

Signature: [signature]
Date: 10/14/11

Note: all pressures in "H20 unless otherwise specified

Sampling Port	Can #	Reg #	P0	P5	P10	P15	P20	P25	P30	System Pressure	Comments
	2 gauges		1210 / 1132	1215 / 1137	1220 / 1142	1225 / 1147	1230 / 1152	1235 / 1157	1240 / 1202		
TI	—	—	—	—	—	—	—	—	—		
TE	—	—	—	—	—	—	—	—	—		
AMB	—	—	—	—	—	—	—	—	—		
101-I	1830	731678	30	25	20	16	11	8	5	9	
101-D	1536	1008	31	26	22	18	8	8	5	21	
102-I	1799	1056	29	26	22	16	12	10	7	7½	
102-D	5810	1051	32	30	26	20	14	9	9	17	
103-~~I~~ D	1828	1034	32	29	26	23	20	17	14	21	
103-~~D~~ I	1076	1001	29	24	19	15	10	5	4	8½	
104-~~I~~ D	10075	1047	30	27	21	17	12	8	5	18½	
104-~~D~~ I	1054	1070	32	25	16	10	6	5	5	9	
105-~~I~~ D	1073	1077	32	29	25	20	10	15	12	16	
105-~~D~~ I	10066	1010	28	24	21	16	10	8	6	~~16~~ 8¼	
106-~~I~~ D	5024	1043	31	27	24	16	13	10	5	16	
106-~~D~~ I	1072	1015	31	27	22	17	12	10	8	9½	

ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: H3 S Env. Inc.
Horizon WO#: 9932357
Sample Delivery Group ID:
Log In By/Date: Kelli Snow 10/17/11
(signature) Kelli Snow
Number of Shipping containers received:

Project Name/#: NWIRP Bethpage Site 1 Artly Vapor
Date/Time received: 10/15/11 0900
Received By: Matthew Wolf
Project Manager Review (date)
(signature)
Courier: Fed Ex

Circle the response below as appropriate.

1.	Did kit(s) come with a shipping slip (airbill, etc.)?	YES	(NO)	NA
	If YES, enter airbill numbers:			
Shipping Container Information:				
2.	Were shipping containers received without signs of tampering?	(YES)	NO	NA
	Comments			
3.	Were custody seals present and intact?	YES	(NO)	NA
4.	Were custody seals numbers present?	YES	(NO)	NA
	List Custody Seal Numbers:			
Sample Condition:				
5.	Were sample containers received intact without signs of tampering?	(YES)	NO	NA
	Comments			
Chain of Custody:				
6.	Did COC arrive with the samples?	(YES)	NO	NA
7.	Do sample ID/Sample Description(s) match samples submitted?	(YES)	NO	NA
8.	Is date and time of collection listed on the COC for all samples?	(YES)	NO	NA
9.	Is identification of sampler on COC?	(YES)	NO	NA
10.	Are requested test method(s) on COC?	(YES)	NO	NA
11.	Are necessary signatures on COC?	(YES)	NO	NA
12.	Was Internal COC initiated? (should always be YES)	(YES)	NO	NA
Sample Integrity Usability:				
13.	Do sample containers match the COC?	(YES)	NO	NA
14.	Were sample canisters received within 15 days of shipment to client	(YES)	NO	NA

Anomalies or Non-Conformances:

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December 14, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name:	**NWIRP Bethpage - GM-38**	Workorder:	**9940702**
Purchase Order:		Workorder ID:	**HNW034|NWIRP Bethpage - GM-38**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Saturday, December 03, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38 Discard Date: 02/12/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9940702001	SVE-SITE1-105D-12211	Air	12/2/11 12:00	12/3/11 08:25	Customer

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

Lab ID: **9940702001** Date Collected: 12/2/2011 12:00 Matrix: Air

Sample ID: **SVE-SITE1-105D-12211** Date Received: 12/3/2011 08:25

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	1.9	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Acrylonitrile	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
tert-Amyl methyl ether	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Benzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Benzyl Chloride	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Bromodichloromethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Bromoform	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Bromomethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,3-Butadiene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
n-Butane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
2-Butanone	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
tert-Butyl Alcohol	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Carbon Disulfide	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Carbon Tetrachloride	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Chlorobenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Chlorodibromomethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Chloroethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Chloroform	0.67J	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Chloromethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
3-Chloro-1-propene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
o-Chlorotoluene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Cyclohexane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,2-Dibromoethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,2-Dichlorobenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,3-Dichlorobenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,4-Dichlorobenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Dichlorodifluoromethane	0.61J	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,1-Dichloroethane	38	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,2-Dichloroethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,1-Dichloroethene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
cis-1,2-Dichloroethene	97	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
trans-1,2-Dichloroethene	0.79J	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,2-Dichloropropane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
cis-1,3-Dichloropropene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
trans-1,3-Dichloropropene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,3-Dichloropropene, Total	1.2U	ppbv		2.4	1.2	1.2	TO-15		12/14/11 08:34	ECB	A
Diisopropyl ether	0.84U	ppbv		1.2	0.84	0.84	TO-15		12/14/11 08:34	ECB	A
1,4-Dioxane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Ethanol	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Ethyl Acetate	0.84U	ppbv		1.2	0.84	0.84	TO-15		12/14/11 08:34	ECB	A
Ethyl tert-butyl ether	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

Lab ID: **9940702001** Date Collected: 12/2/2011 12:00 Matrix: Air

Sample ID: **SVE-SITE1-105D-12211** Date Received: 12/3/2011 08:25

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Ethylbenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
4-Ethyltoluene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Freon 113	5.2	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Freon-114	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Heptane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Hexachlorobutadiene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Hexane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
2-Hexanone	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Isopropyl Alcohol	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Isopropylbenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
p-Isopropyltoluene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Methyl methacrylate	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Methyl t-Butyl Ether	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
4-Methyl-2-Pentanone(MIBK)	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Methylene Chloride	0.85J	ppbv	1,2	1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Naphthalene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
iso-Octane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
n-Propylbenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Propylene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Styrene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,1,2,2-Tetrachloroethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Tetrachloroethene	48	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Tetrahydrofuran	0.61J	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Toluene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Total Xylenes	1.8U	ppbv		3.6	1.8	1.8	TO-15		12/14/11 08:34	ECB	A
1,2,4-Trichlorobenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,1,1-Trichloroethane	170	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,1,2-Trichloroethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Trichloroethene	1300	ppbv		12	6.0	6.0	TO-15		12/14/11 07:54	ECB	A
Trichlorofluoromethane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,2,3-Trichloropropane	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,2,4-Trimethylbenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,3,5-Trimethylbenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
1,2,3-Trimethylbenzene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Vinyl Acetate	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Vinyl Bromide	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
Vinyl Chloride	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
o-Xylene	0.60U	ppbv		1.2	0.60	0.60	TO-15		12/14/11 08:34	ECB	A
mp-Xylene	1.2U	ppbv		2.4	1.2	1.2	TO-15		12/14/11 08:34	ECB	A
Acetone	5	ug/m3		3	1	1	TO-15		12/14/11 08:34	ECB	A
Acrylonitrile	1U	ug/m3		3	1	1	TO-15		12/14/11 08:34	ECB	A
tert-Amyl methyl ether	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

Lab ID: **9940702001** Date Collected: 12/2/2011 12:00 Matrix: Air

Sample ID: **SVE-SITE1-105D-12211** Date Received: 12/3/2011 08:25

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Benzene	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
Benzyl Chloride	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
Bromodichloromethane	4U	ug/m3		8	4	4	TO-15		12/14/11 08:34	ECB	A
Bromoform	6U	ug/m3		12	6	6	TO-15		12/14/11 08:34	ECB	A
Bromomethane	2U	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
1,3-Butadiene	1U	ug/m3		3	1	1	TO-15		12/14/11 08:34	ECB	A
n-Butane	1U	ug/m3		3	1	1	TO-15		12/14/11 08:34	ECB	A
2-Butanone	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
tert-Butyl Alcohol	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
Carbon Disulfide	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
Carbon Tetrachloride	4U	ug/m3		8	4	4	TO-15		12/14/11 08:34	ECB	A
Chlorobenzene	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
Chlorodibromomethane	5U	ug/m3		10	5	5	TO-15		12/14/11 08:34	ECB	A
Chloroethane	2U	ug/m3		3	2	2	TO-15		12/14/11 08:34	ECB	A
Chloroform	3J	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
Chloromethane	1U	ug/m3		2	1	1	TO-15		12/14/11 08:34	ECB	A
3-Chloro-1-propene	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
o-Chlorotoluene	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
Cyclohexane	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
1,2-Dibromoethane	5U	ug/m3		9	5	5	TO-15		12/14/11 08:34	ECB	A
1,2-Dichlorobenzene	4U	ug/m3		7	4	4	TO-15		12/14/11 08:34	ECB	A
1,3-Dichlorobenzene	4U	ug/m3		7	4	4	TO-15		12/14/11 08:34	ECB	A
1,4-Dichlorobenzene	4U	ug/m3		7	4	4	TO-15		12/14/11 08:34	ECB	A
Dichlorodifluoromethane	3J	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
1,1-Dichloroethane	150	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
1,2-Dichloroethane	2U	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
1,1-Dichloroethene	2U	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
cis-1,2-Dichloroethene	380	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
trans-1,2-Dichloroethene	3J	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
1,2-Dichloropropane	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
cis-1,3-Dichloropropene	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
trans-1,3-Dichloropropene	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
1,3-Dichloropropene, Total	5U	ug/m3		11	5	5	TO-15		12/14/11 08:34	ECB	A
Diisopropyl ether	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
1,4-Dioxane	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
Ethanol	1U	ug/m3		2	1	1	TO-15		12/14/11 08:34	ECB	A
Ethyl Acetate	3U	ug/m3		4	3	3	TO-15		12/14/11 08:34	ECB	A
Ethyl tert-butyl ether	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
Ethylbenzene	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
4-Ethyltoluene	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
Freon 113	40	ug/m3		9	5	5	TO-15		12/14/11 08:34	ECB	A
Freon-114	4U	ug/m3		8	4	4	TO-15		12/14/11 08:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

Lab ID: **9940702001** Date Collected: 12/2/2011 12:00 Matrix: Air

Sample ID: **SVE-SITE1-105D-12211** Date Received: 12/3/2011 08:25

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr
Heptane	2U	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
Hexachlorobutadiene	6U	ug/m3		13	6	6	TO-15		12/14/11 08:34	ECB	A
Hexane	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
2-Hexanone	2U	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
Isopropyl Alcohol	1U	ug/m3		3	1	1	TO-15		12/14/11 08:34	ECB	A
Isopropylbenzene	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
p-Isopropyltoluene	3U	ug/m3		7	3	3	TO-15		12/14/11 08:34	ECB	A
Methyl Methacrylate	2U	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
Methyl t-Butyl Ether	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
4-Methyl-2-Pentanone(MIBK)	2U	ug/m3		5	2	2	TO-15		12/14/11 08:34	ECB	A
Methylene Chloride	3J	ug/m3	1,2	4	2	2	TO-15		12/14/11 08:34	ECB	A
Naphthalene	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
iso-Octane	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
n-Propylbenzene	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
Propylene	1U	ug/m3		2	1	1	TO-15		12/14/11 08:34	ECB	A
Styrene	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
1,1,2,2-Tetrachloroethane	4U	ug/m3		8	4	4	TO-15		12/14/11 08:34	ECB	A
Tetrachloroethene	330	ug/m3		8	4	4	TO-15		12/14/11 08:34	ECB	A
Tetrahydrofuran	2J	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
Toluene	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
Total Xylenes	8U	ug/m3		16	8	8	TO-15		12/14/11 08:34	ECB	A
1,2,4-Trichlorobenzene	4U	ug/m3		9	4	4	TO-15		12/14/11 08:34	ECB	A
1,1,1-Trichloroethane	930	ug/m3		7	3	3	TO-15		12/14/11 08:34	ECB	A
1,1,2-Trichloroethane	3U	ug/m3		7	3	3	TO-15		12/14/11 08:34	ECB	A
Trichloroethene	7000	ug/m3		64	32	32	TO-15		12/14/11 07:54	ECB	A
Trichlorofluoromethane	3U	ug/m3		7	3	3	TO-15		12/14/11 08:34	ECB	A
1,2,3-Trichloropropane	4U	ug/m3		7	4	4	TO-15		12/14/11 08:34	ECB	A
1,2,4-Trimethylbenzene	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
1,3,5-Trimethylbenzene	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
1,2,3-Trimethylbenzene	3U	ug/m3		6	3	3	TO-15		12/14/11 08:34	ECB	A
Vinyl Acetate	2U	ug/m3		4	2	2	TO-15		12/14/11 08:34	ECB	A
Vinyl Bromide	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
Vinyl Chloride	2U	ug/m3		3	2	2	TO-15		12/14/11 08:34	ECB	A
o-Xylene	3U	ug/m3		5	3	3	TO-15		12/14/11 08:34	ECB	A
mp-Xylene	5U	ug/m3		10	5	5	TO-15		12/14/11 08:34	ECB	A

Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*	*Method*	*Prepared*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	96	%		70-130	TO-15		12/14/11 07:54	ECB	A
4-Bromofluorobenzene (S)	98	%		70-130	TO-15		12/14/11 08:34	ECB	A

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ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

Lab ID:	**9940702001**	Date Collected:	12/2/2011 12:00	Matrix:	Air
Sample ID:	**SVE-SITE1-105D-12211**	Date Received:	12/3/2011 08:25		

Parameters	Results	Units	Footnotes	LOQ	LOD	DL	Method	Prepared	Analyzed	By	Cntr

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

PARAMETER QUALIFIERS\FLAGS

[1] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 144 and the control limits were 60 to 140.

[2] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 146 and the control limits were 60 to 140.

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ALS Environmental | Analytical Laboratory Services, Inc.

SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

AIR ANALYSIS
CHAIN-OF-CUSTODY/FIELD TEST DATA SHEET

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: | ALSI Q: | of

* 9 9 4 0 7 0 2 *

1. CLIENT INFORMATION

Client Name/Address: H+S environmental
Contact: Jen Good
Phone#: 508 366-7442
Project Name/#: NWIRP Bethpage Site 1
Bill To: SAME
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-___TAT Subject to ALSI approval and surcharges.
Date Required: Approved By:
Email? [X] -Y Jgood@hsenv.com
Fax? [ ] -Y No.:

2. ANALYSES/METHOD REQUESTED

✓ APPROPRIATE TEST CODE/ANALYTE LIST.

No.	TO-15 Analysis:	STD LIST	UST LIST	OTHER
1	X			full list
2				
3				
4				
5				
6				
7				
8				
9				
10				

3. LABORATORY

LABORATORY CANISTER CERTIFIED BY:
GC/MS Analyst Signature: Erin C Boyd

CANISTERS PREPARED BY:
Name: Erin C Boyd
Title: Sr GC/MS Analyst
Custody Sealed Date/Time: 11/28/11 1245
Date Shipped to Client: 11/29/11
Custody Seal #(s): #0271

RECEIVING INFORMATION:

	Y	N	Initial
COC Complete/Accurate?			
Labels Complete/Accurate?			
Cont. in Good Cond.?			
Custody Seals Present?			
(if present) Seals Intact?			
Returned in ≤ 15 days?			
Custody Seal #(s):			
Courier/Tracking #:			

4. FIELD DATA SHEET

SAMPLE INFORMATION FOR TO-15 / TO-15 FIELD DATA / LABORATORY RECORD

Sample Description/Location (as it will appear on the lab report)	Sample Type-Choose one: *IA-indoor air *AS-ambient soil *V-vapor *SS-sub-slab	Sample Date	Start Time	Stop Time	Temp Deg C	1L	6L	Canister No.	Flow Controller No.	Canister Pressure ("Hg) Start	Canister Pressure ("Hg) Stop	Canister Certification File	Canister Pressure ("Hg) Out	Canister Pressure ("Hg) In	Flow Controller Setpoint (mL/min)
1 SVE-site1-105D-12211	AIR	12-2-11	1130	1200			X	5023	7266991	-25	-5				
2															
3															
4															
5															
6															
7															
8															
9															
10															

5. SAMPLED BY (Please Print):

LOGGED BY(signature): [signature] DATE 12/3/11 TIME 1104
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	12-2-11	1300	2 [signature]	12/3	0825
3			4		
5			6		
7			8		
9			10		

6. PROJECT INFORMATION

Data Deliverables: [ ] Standard [ ] CLP-like [ ] DOD [X] TO-15 [ ] Other
EDDs-Format Type:
ALSI Field Services: ☐ Pickup ☐ Labor
Other:

State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC [ ] other

Phone: 1-717-944-5541 ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057 Rev 03Mar2011

Bethpage Site 1 Sampling Form

Sampler: Greg Gargeni **Signature:**
Date: 12/2/11 **Date:** 12-2-11

Note: all pressures in "H20 unless otherwise specified

Sampling Port	Can #	Reg #	P0	P5	P10	P15	P20	P25	P30	System Pressure	Comments
			1130	1135	1140	1145	1150	1155	1300		
TI											
TE											
AMB											
101-I											
101-D											
102-I											
102-D											
103-I											
103-D											
104-I											
104-D											
105-I											
105-D	5023	7X6991	-25	-25	-23	-20	-15	-9	-5	24"H20	
106-I											
106-D											

* Note Res gauge workings start @ -25
Summa can gauge not working's stuck on -30
@ 1140 hrs Summa can gauge workings @ -26 / Im using res gauge.

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ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: H3 S Env
Horizon WO#: 9940702
Sample Delivery Group ID:
Log In By/Date: LMS
(signature) 12/3/11 1104
Number of Shipping containers received:

Project Name/#: NWIRP Bethpage Site 1
Date/Time received: 12/3/11 0825
Received By: Katie Startzel
Project Manager Review (date)
(signature)
Courier: FedEx 8750 4200 4631

Circle the response below as appropriate.

1. Did kit(s) come with a shipping slip (airbill, etc.)? YES (NO) NA
   If YES, enter airbill numbers:

Shipping Container Information:

2. Were shipping containers received without signs of tampering? (YES) NO NA
   Comments
3. Were custody seals present and intact? YES (NO) NA
4. Were custody seals numbers present? YES (NO) NA
   List Custody Seal Numbers:

Sample Condition:

5. Were sample containers received intact without signs of tampering? (YES) NO NA
   Comments

Chain of Custody:

6. Did COC arrive with the samples? (YES) NO NA
7. Do sample ID/Sample Description(s) match samples submitted? (YES) NO NA
8. Is date and time of collection listed on the COC for all samples? (YES) NO NA
9. Is identification of sampler on COC? (YES) NO NA
10. Are requested test method(s) on COC? (YES) NO NA
11. Are necessary signatures on COC? (YES) NO NA
12. Was Internal COC initiated? (should always be YES) (YES) NO NA

Sample Integrity Usability:

13. Do sample containers match the COC? (YES) NO NA
14. Were sample canisters received within 15 days of shipment to client (YES) NO NA

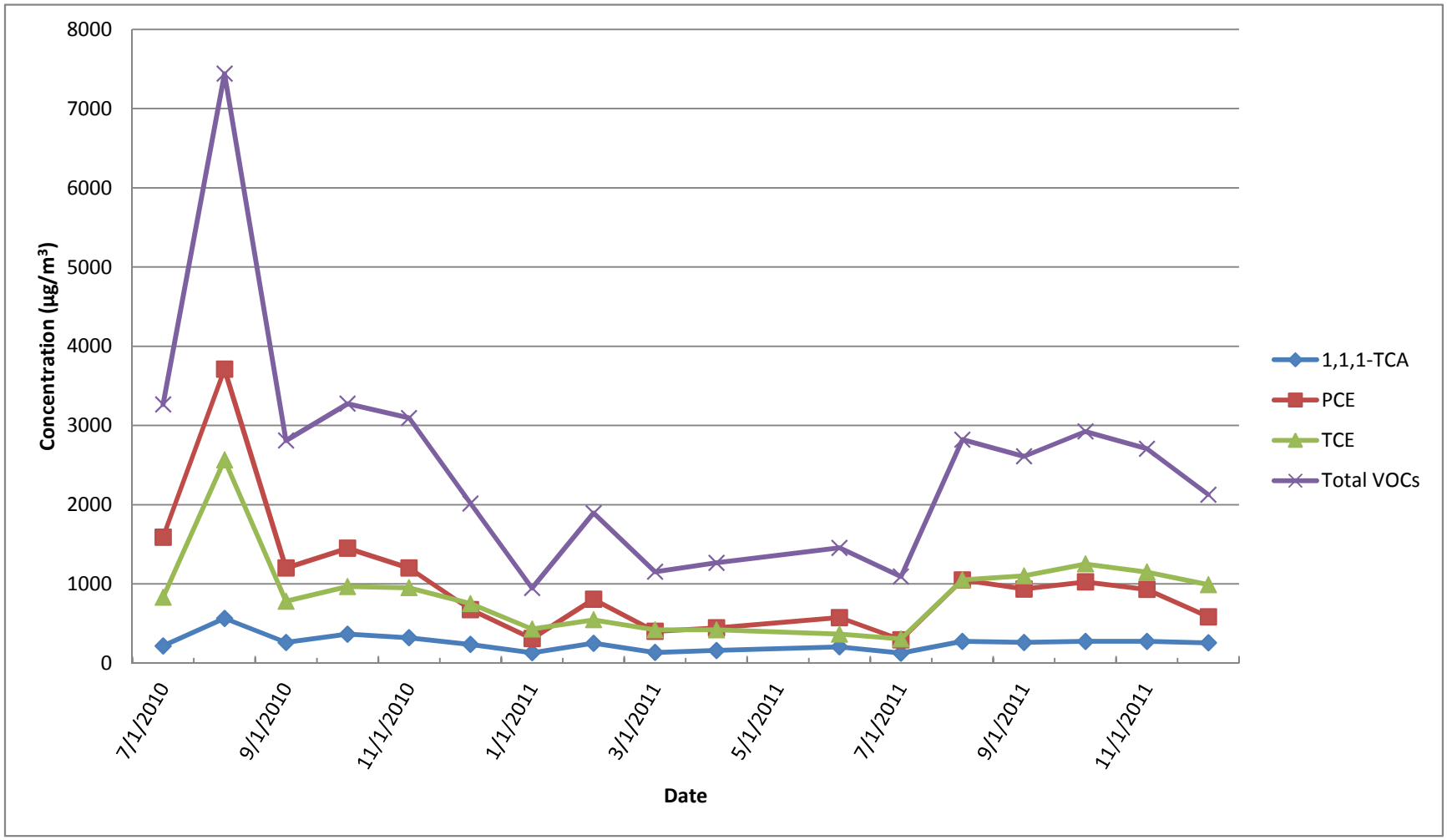
Anomalies or Non-Conformances:

Rev. 2/2011

APPENDIX C
Vapor Concentration Trend Graphs

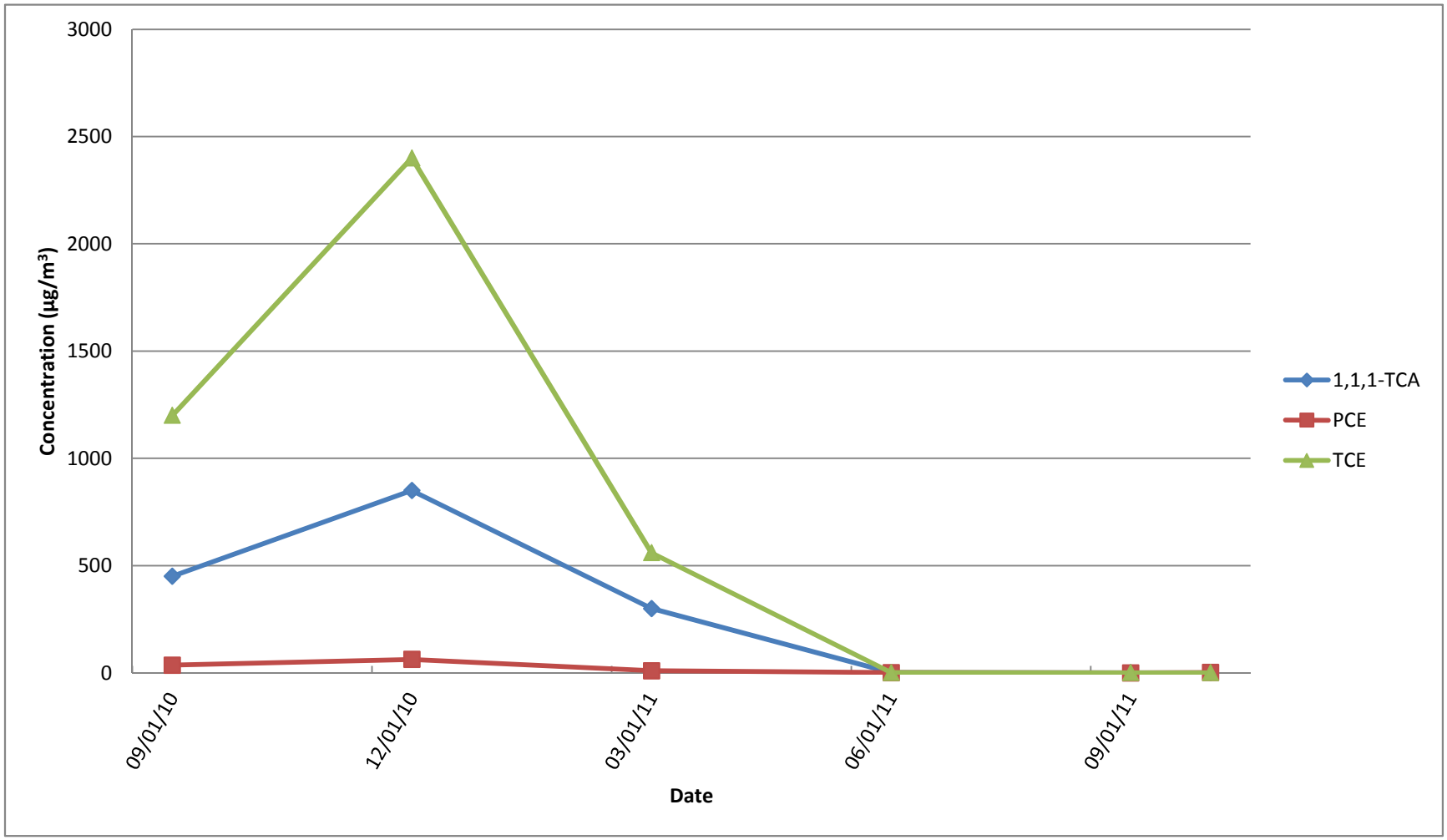
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select and Total VOCs

COMBINED INFLUENT



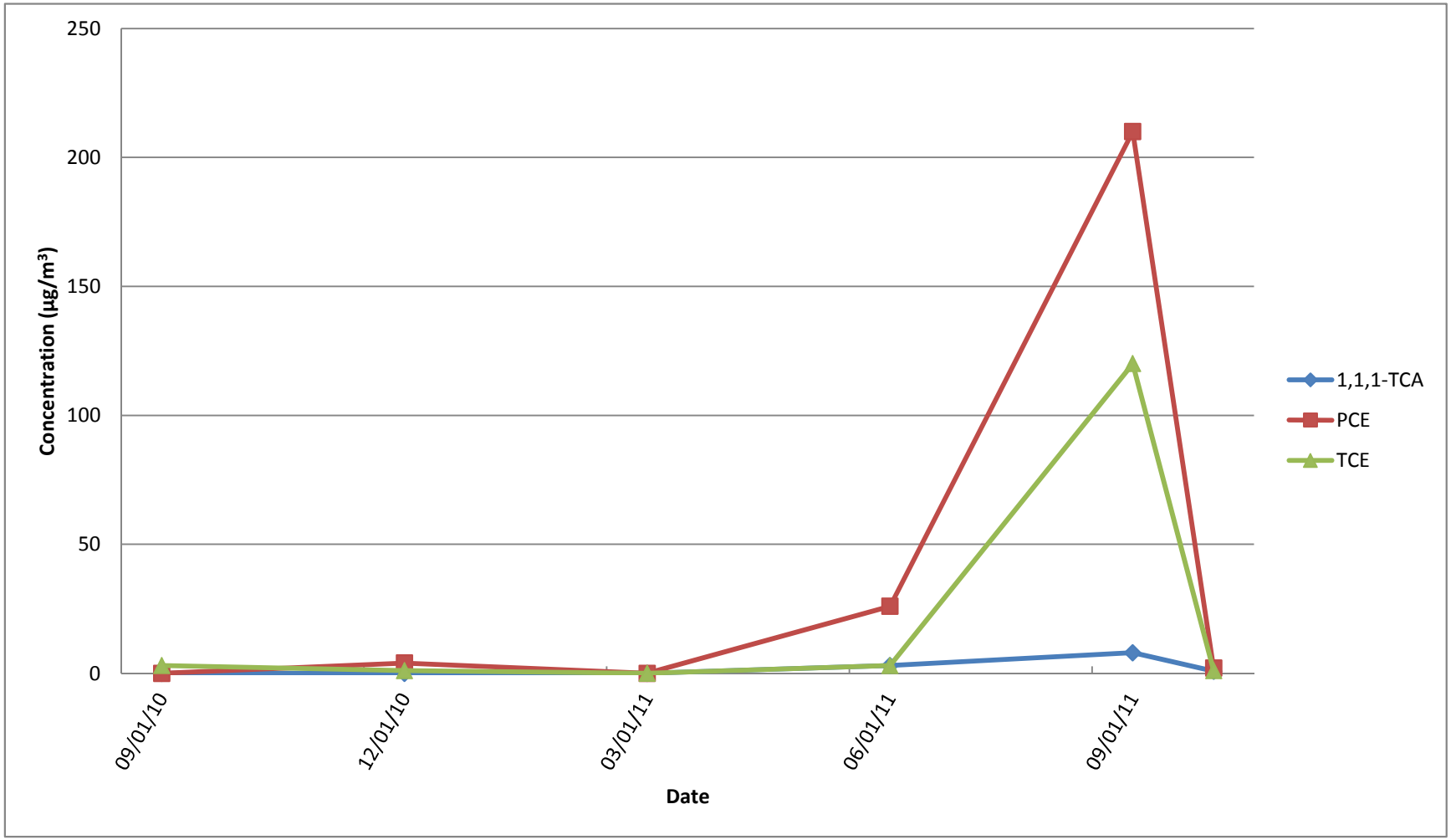
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-101I



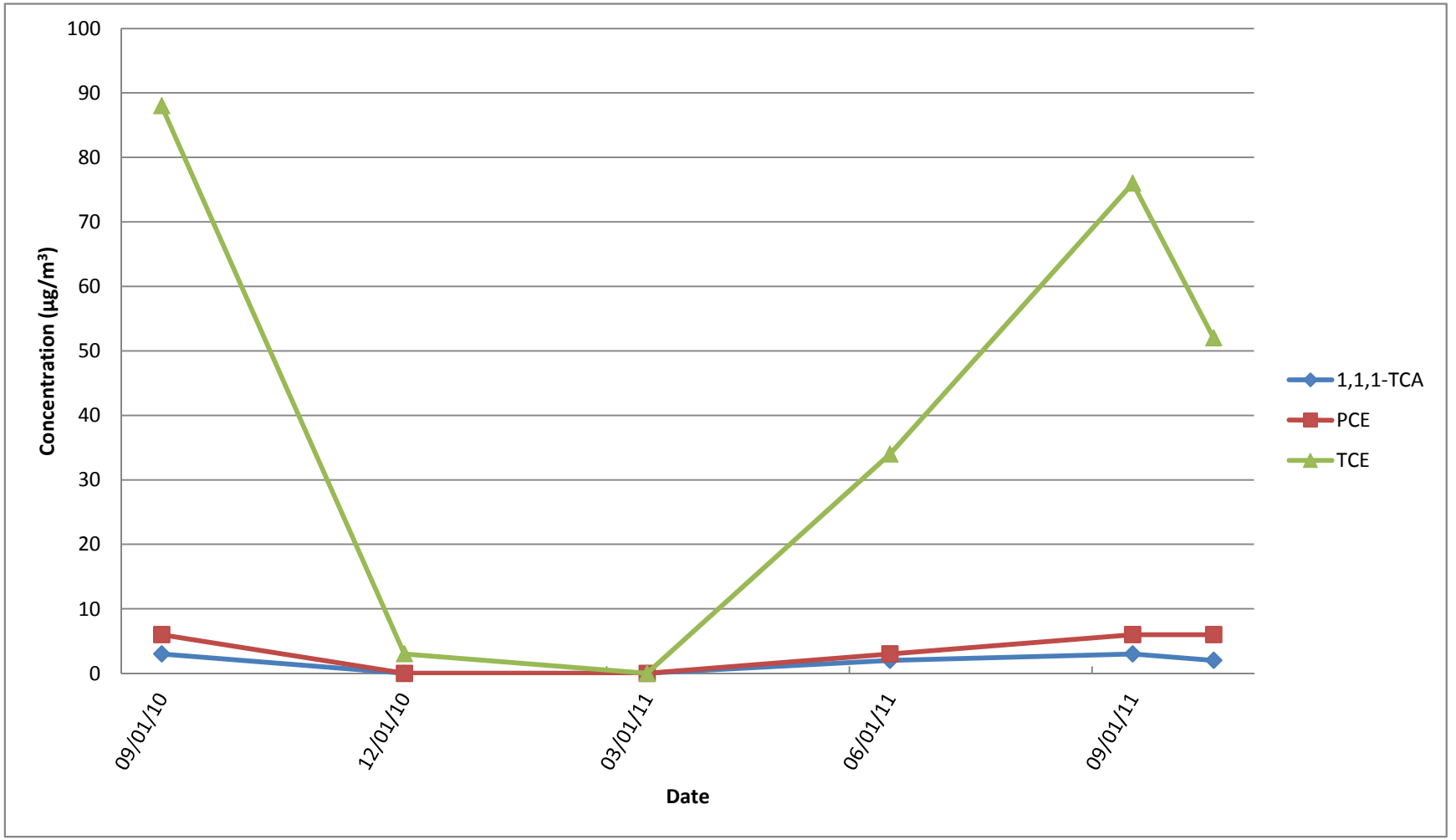
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-101D



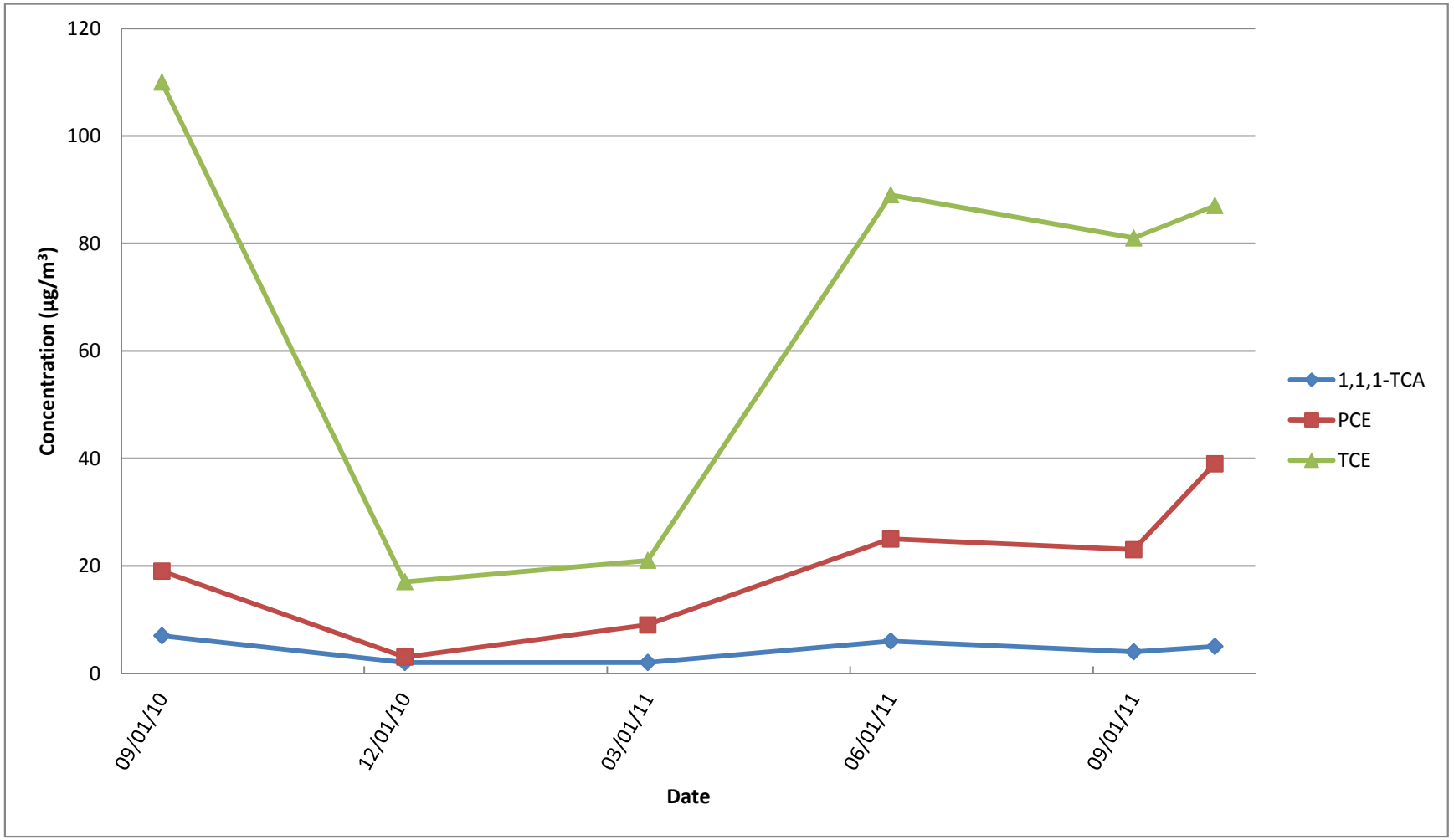
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV102I



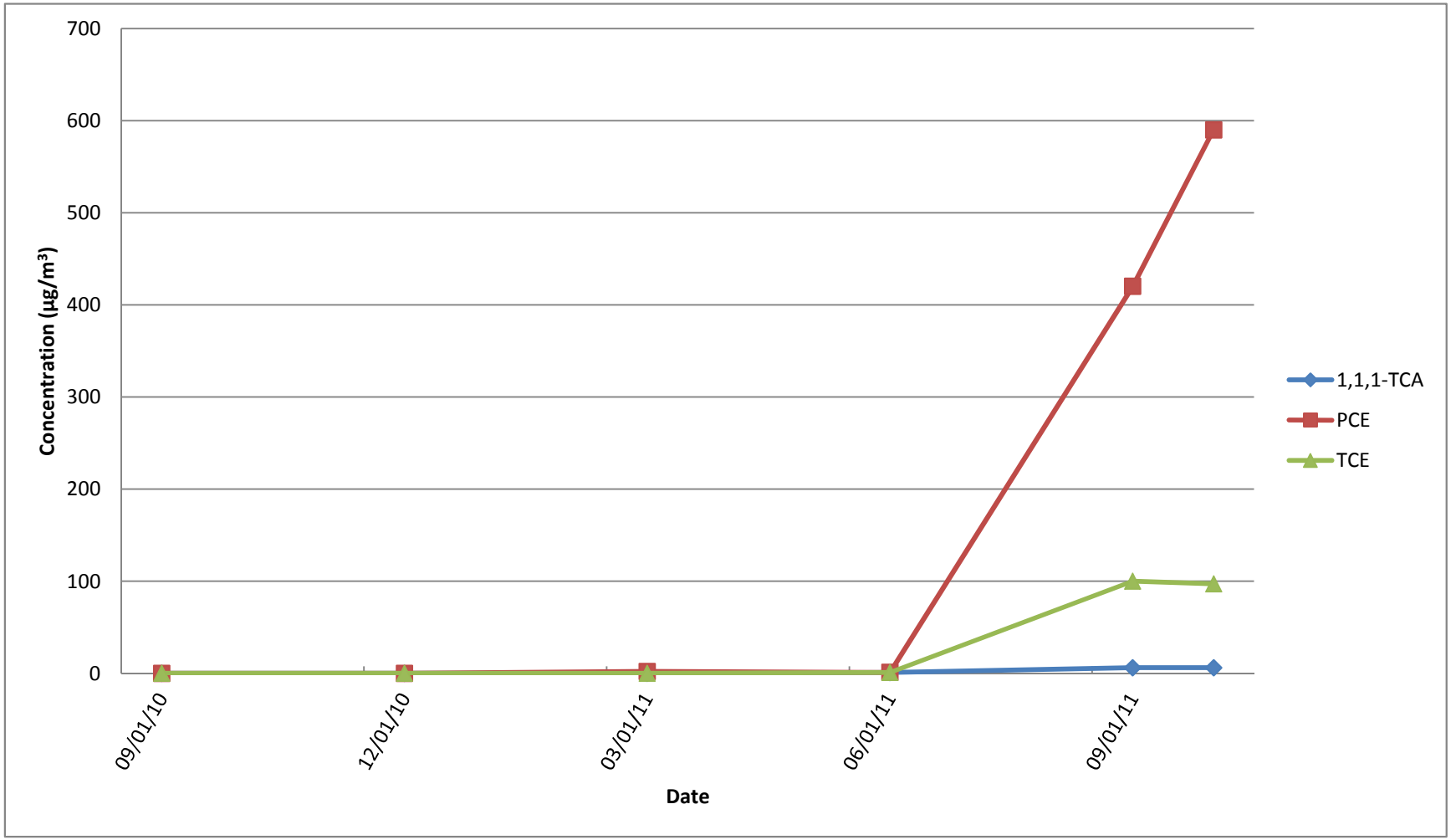
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-102D



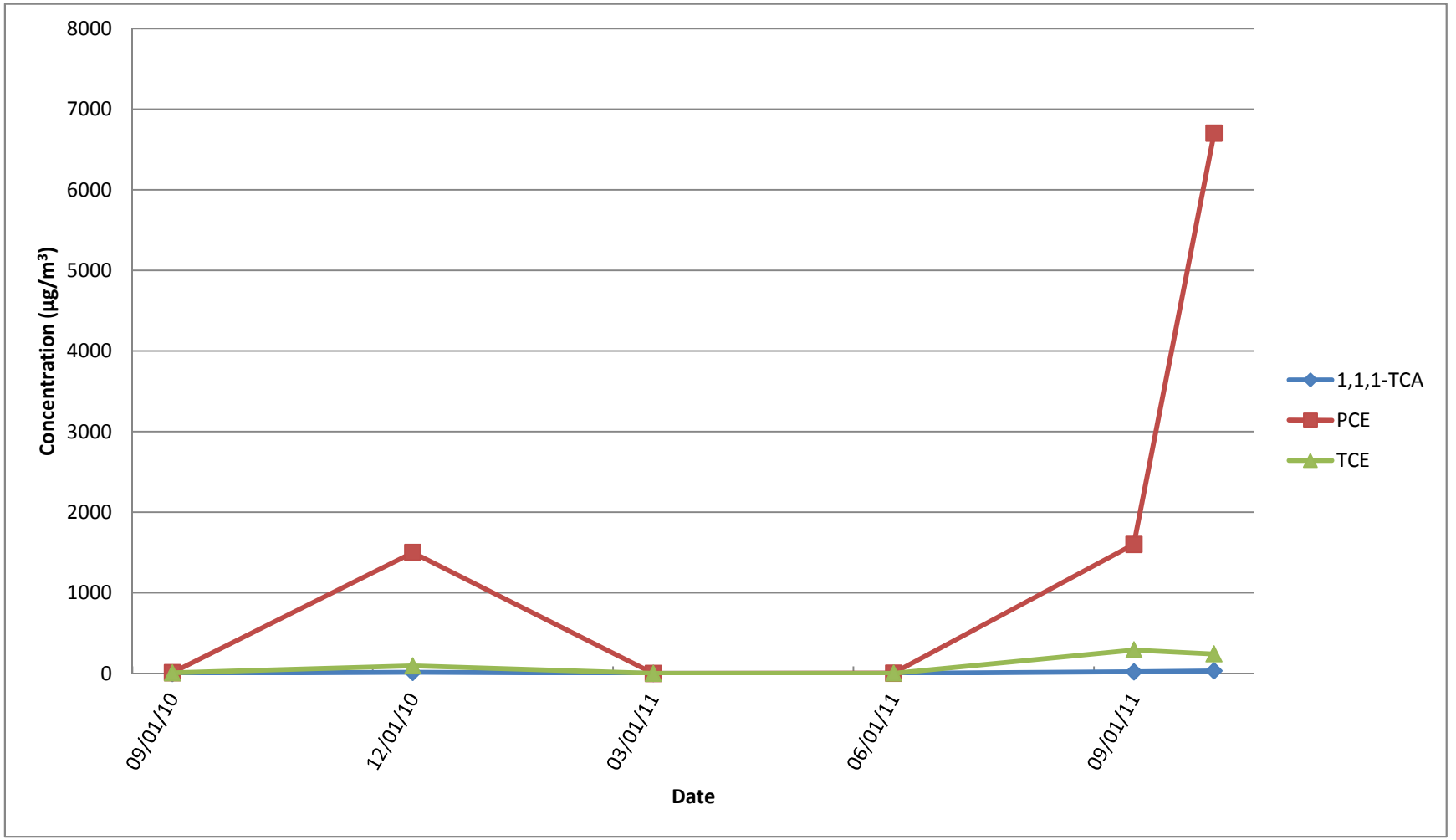
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-103I



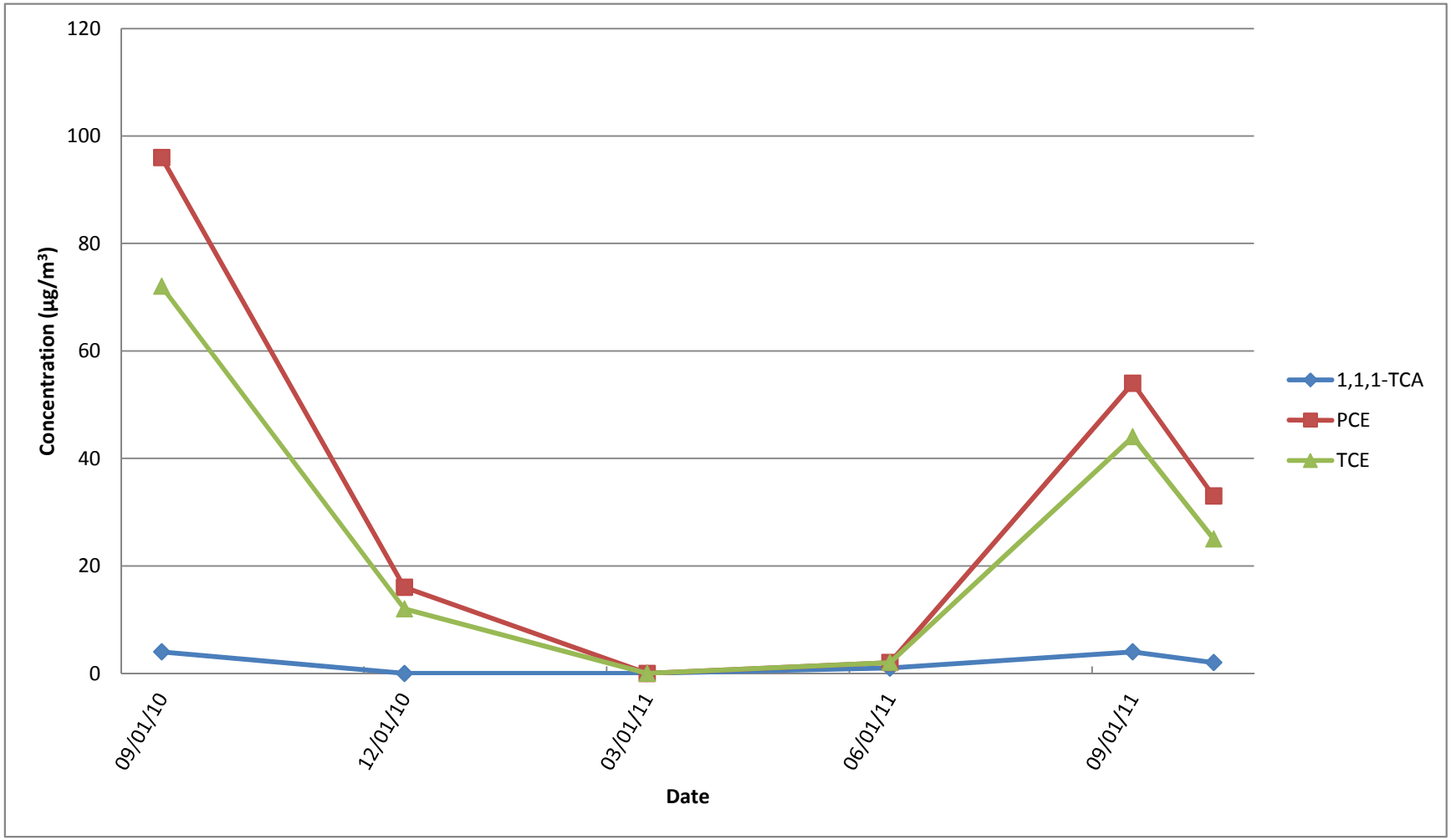
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV103D



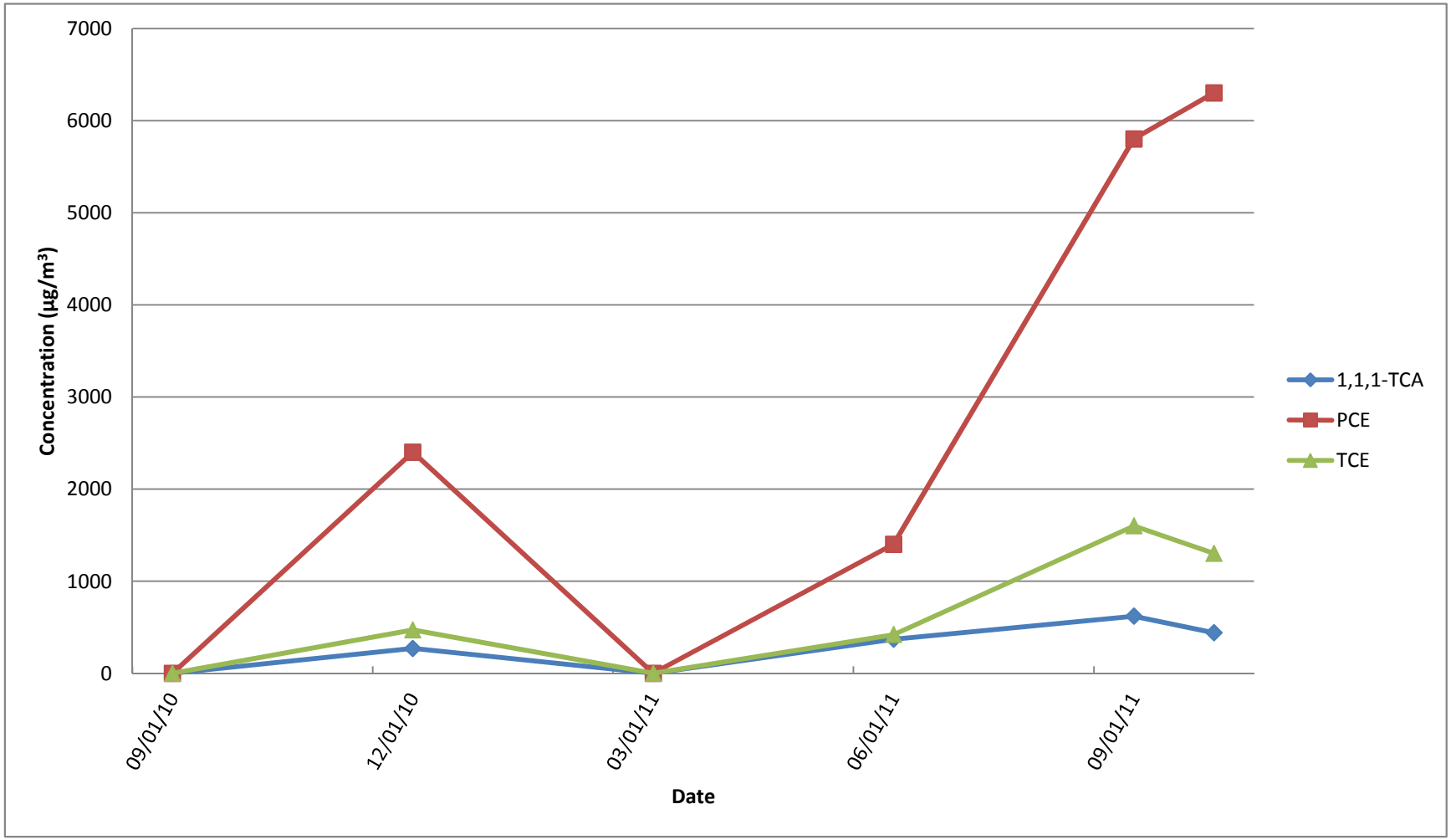
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV104I



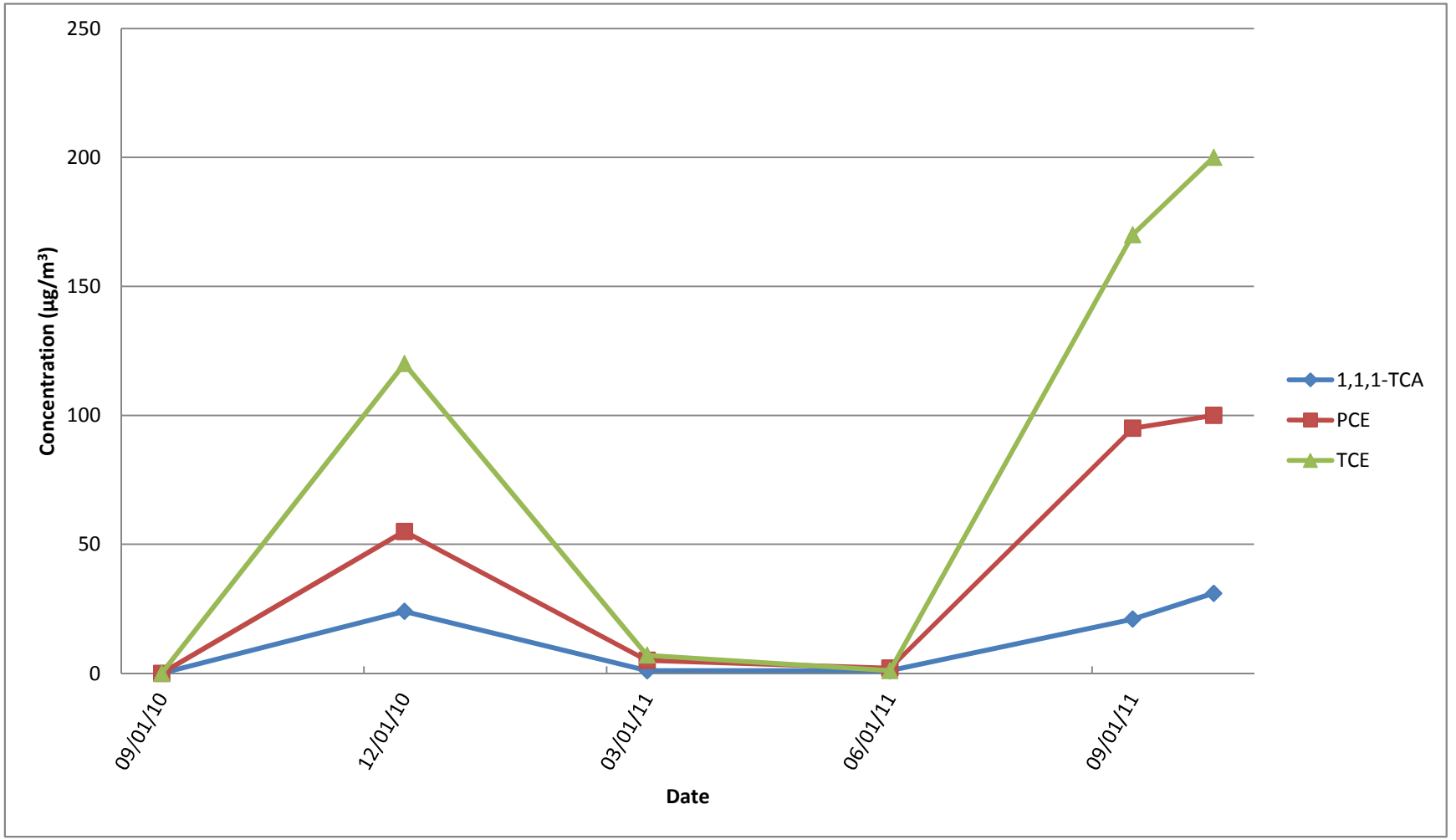
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-104D



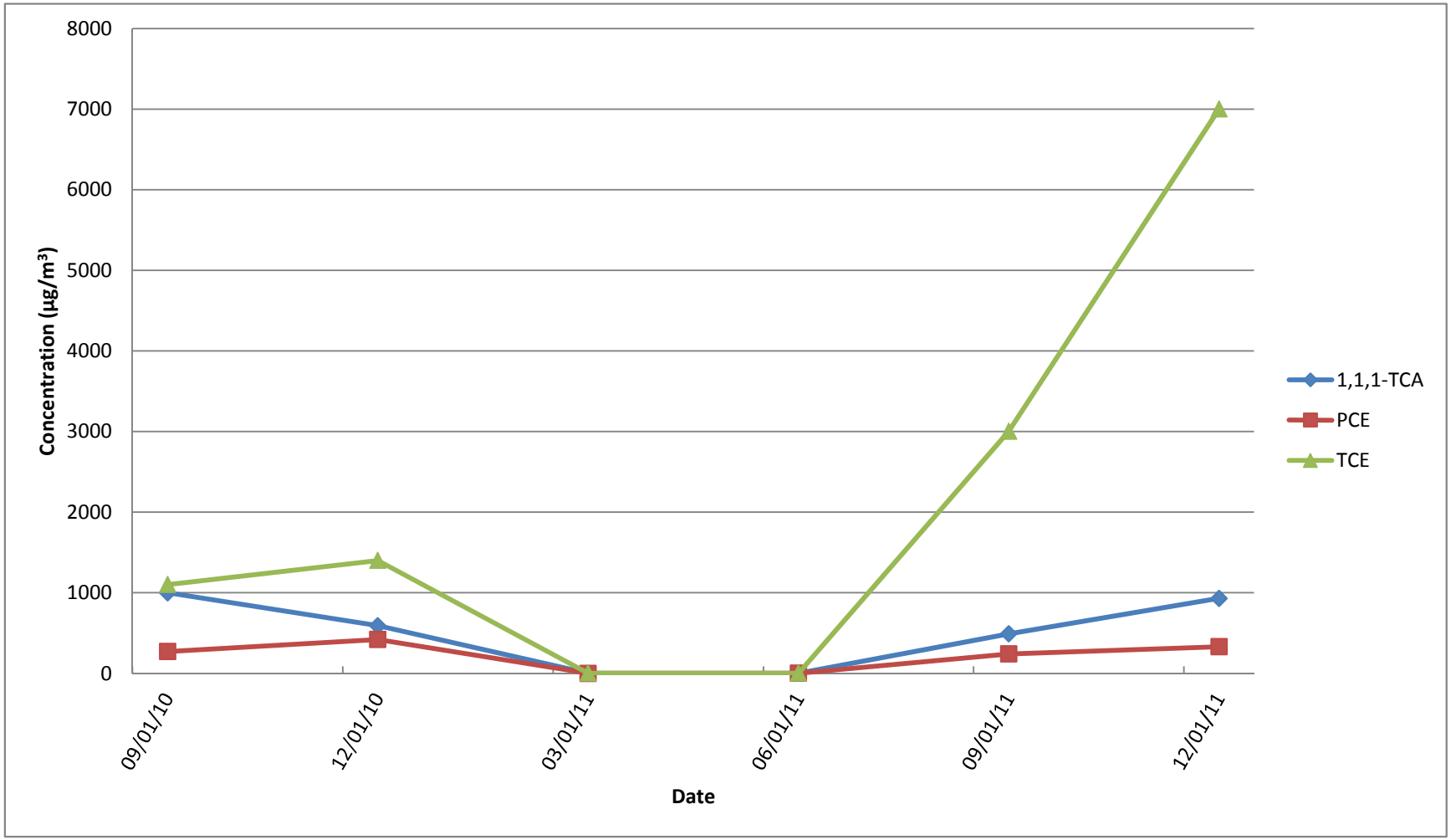
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-105I



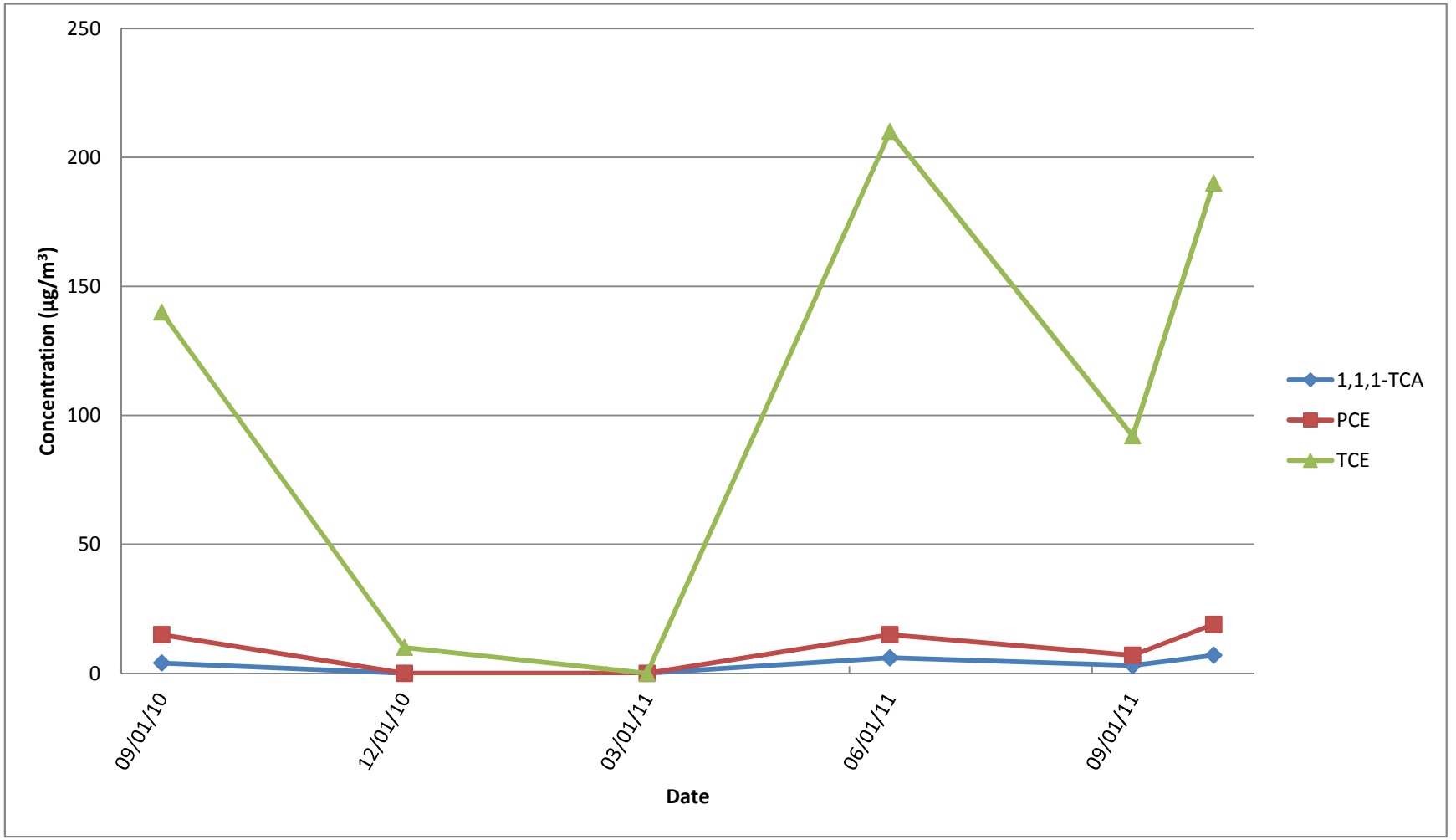
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-105D



Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-106I



Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs

SV-106D