8976 Wellington Road
Manassas, VA 20109

October 27, 2006

Robert C. Knizek, P.E.
Director, Remedial Bureau E
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: Transmittal of Annual Report – Soil Vapor Monitoring
Comprehensive Operation, Maintenance and Monitoring Program
Order on Consent Index # A7-0502-0104, Site # 704014

Dear Mr. Knizek:

Enclosed with this transmittal letter please find our Annual Soil Vapor Monitoring Report that has been prepared in accordance with the requirements set forth in the referenced Order on Consent. As outlined in the recommendations by Sanborn Head & Associates, Inc., IBM respectfully requests that the reporting schedule be modified slightly to better coordinate among the groundwater and soil vapor monitoring programs.

Should you have any questions concerning this submittal, please contact me at (703) 257-1606.

Sincerely,

M. E. Meyers

Mitchell E. Meyers
Program Manager

cc: K. Lynch, NYSDEC Region 7
D. Tuohy, NYSDEC - Albany
G. Litwin, NYSDOH – Troy
R. Denz, Broome County Health Department

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Sanborn, Head & Associates
Consulting Engineers & Scientists

October 27, 2006

File No. 2200.00

Mr. Mitchell E. Meyers
IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, Virginia 20110

Re: Annual Report
Soil Vapor Monitoring
Comprehensive Operation, Maintenance and Monitoring Program
Endicott, New York

Dear Mr. Meyers:

We have enclosed our report summarizing soil vapor monitoring conducted in Endicott, New York through August 2006. The monitoring is being conducted as a component of the Comprehensive Operations, Maintenance and Monitoring Plan (COM&M Plan). The work is part of IBM's required activities under Administrative Order on Consent #A7-0502-0104 (Order) as agreed upon between IBM and the New York Department of Environmental Conservation (NYSDEC).

We understand that this Plan will be submitted to the NYSDEC as a part of required deliverables under the Order. Thank you for the opportunity to be of service on this important project.

Very truly yours,

SANBORN, HEAD & ASSOCIATES, INC.

Daniel B. Carr, P.E., P.G.
Principal and Vice President

Erica M. Bradstreet
Project Geologist

\2200\Soil Vapor Monitoring\Annual Report\102706_Cover.ltr.doc

Charles L. Head ■ Daniel B. Carr ■ R. Scott Shillaber ■ Charles A. Crocetti
Mathew A. DiPilato ■ Duncan W. Wood ■ Joseph G. Engels ■ Vernon R. Kokosa ■ James A. Chabot

Sanborn, Head & Associates, Inc.
95 High Street ■ Portland, Maine 04101
portland@sanbornhead.com ■ **www.sanbornhead.com**
Phone (207) 761-9300 ■ Fax (207) 761-9339

ANNUAL REPORT
SOIL VAPOR MONITORING THROUGH AUGUST 2006

Comprehensive Operations, Maintenance, and Monitoring Program
Endicott, New York

Prepared for
IBM Corporate Environmental Affairs

Prepared by
Sanborn, Head & Associates, Inc.

File 2200.00
October 2006

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1.0 INTRODUCTION

This Annual Report for the Endicott Soil Vapor Monitoring Program (Annual Report) summarizes the first year of such monitoring conducted as a part of IBM's Comprehensive Operations, Maintenance and Monitoring Plan (COM&M Plan). This report summarizes the findings of routine soil vapor monitoring completed through August 2006.

The monitoring is being conducted under the COM&M Plan pursuant to the Administrative Order on Consent No. #704014 (Order) between the IBM Corporation (IBM) and the New York State Department of Environmental Conservation (NYSDEC). The objective of this work is to conduct routine monitoring for changes in the presence of volatile organic compounds (VOCs) that drove decisions for installation and maintenance of ventilation systems.

Sanborn Head & Associates, Inc. (SHA) prepared this report for IBM's submittal to NYSDEC and the New York State Department of Health (NYSDOH), collectively referred to as the "Agencies" as a component of deliverables that IBM agreed to provide under the COM&M Plan. The field sampling, analytical laboratory testing, and the preparation of this report were completed in accordance with the approved Soil Vapor Monitoring Plan dated September 29, 2004 (Monitoring Plan) as subsequently modified with approval of the Agencies. SHA's services and this document are subject to the limitations outlined in the text to follow and in Appendix A.

1.1 Background

IBM installed VOC vapor ventilation systems in certain areas of the Village of Endicott, and Town of Union New York. The ventilation systems were installed to address VOC vapor intrusion potential, which may be associated with VOCs present in the groundwater that IBM has been remediating. The limits of ventilation are shown on Figure 1. Trichloroethene (TCE) is the primary VOC found in soil vapor within the largest contiguous ventilation area. 1,1,1-Trichloroethane (TCA), tetrachloroethene (PCE) and their biochemical breakdown products are also found in this area, but at lower frequencies of detection and generally at lower concentrations. The available data also indicate multiple sources of VOC vapors not associated with IBM activities.

The soil vapor monitoring program includes regular collection and analysis of soil vapor from permanent implants within and along the periphery of the ventilation areas. Monitoring of groundwater at wells located near the soil vapor implants is also performed on a regular basis. The implant locations are shown on Figure 1, relative to the ventilation areas and nearby monitoring wells.

Where the depth to water table is sufficient, the soil vapor monitoring installations include one implant installed proximate to the water table (water table depth) and one installed at a depth of 7 to 8 feet below ground surface (bgs) which is roughly equivalent to foundation depth for structures with basements (foundation depth). Data from the water table depth implants are

being used as the primary indicator of soil vapor concentration trends driven primarily by changes in groundwater quality. The foundation depth implants are being used to assess for trends in soil vapor concentrations that may be indicative of changing vapor intrusion potential. In some locations where the water table is relatively deep, intermediate depth implants are also monitored. The implant completion details are summarized in Table 1.

Collection, field screening, and laboratory analysis of soil vapor samples was conducted on a monthly basis for fifteen consecutive months beginning in August 2004 and ending in October 2005. With Agency approval, sampling has been conducted every other month since that time.

1.2 Scope of Work

Since the Semi-Annual Report of March 30, 2006, routine bi-monthly soil vapor monitoring was conducted in April, June, and August 2006. Samples were collected from implants installed at thirty-six geographic locations. Contemporaneous monitoring of groundwater quality was conducted by others in August 2006 by sampling wells located proximate to soil vapor monitoring installations. The last Annual Report submitted to the Agencies in September 2005, presented data recorded through July of 2005.

Tabular summaries of the soil vapor and groundwater monitoring data reflecting the data collected during this monitoring period are provided on compact disk in Appendix B. Plots of groundwater and soil vapor concentrations were updated and are presented in Appendix B. as Figures B.1 through B.37.

1.3 Climatic Conditions and Groundwater Levels During the Monitoring Period

The soil vapor sampling was conducted under a variety of climatic conditions and under conditions of variable groundwater levels. Climatic and groundwater level records recorded by others during the year of monitoring were compiled and reviewed as a context for the findings discussed in Section 2.0. Plots depicting records of daily precipitation, temperature, and barometric pressure were prepared based on data available from the Greater Binghamton Airport[1] (GBA) and included as Appendix B.4.1 and B.4.2. As shown on the figures, over the course of the monitoring program, the sampling was conducted under rising, falling, and relatively neutral barometric pressure conditions.

Soil vapor concentrations are influenced by increases and decreases in moisture content of soils located between the water table and the ground surface (vadose zone soils). Vapor transport/flux by diffusion and advection decreases with increased moisture content. Infiltration of incident precipitation is expected to strip VOCs from the vapor phase and physically displace vapor from the soil pore space. In general, soil moisture contents in the vadose zone are expected to increase

[1] *Precipitation records recorded for the GBA for the year of monitoring and monthly average precipitation records for the 53-year period of record were obtained from the National Climatic Data Center (NCDC) at the National Oceanic and Atmospheric Administration (NOAA.. The climatic monitoring station is located approximately 10 miles northeast and 705 feet higher in elevation than the soil vapor monitoring area.*

during wet winter and spring weather when evapotranspiration is minimal. Soil moisture contents are expected to decline during dry weather in the growing season when deciduous trees are in leaf and actively withdrawing moisture from the subsurface, which is in turn transpired to the atmosphere. Based on probable travel times across the vadose zone and expected average annual infiltration, we believe the soil moisture conditions across the entire vadose zone at a given time may reflect infiltration conditions in the preceding six months to two years. Figure 2 depicts the deviation from average monthly precipitation through August 2006 as a context for the historical soil vapor monitoring and the most recent period of monitoring.

As shown on Figures B.1 and B.2 in Appendix B, soil vapor sampling in April, June, and August 2006 was generally conducted under rising barometric pressure conditions. Below average precipitation was recorded in February through May 2006 followed by above average precipitation in June through August 2006. Little precipitation was recorded proximate to the April sampling, while the June and August sampling events were completed before substantial rainfall events. As shown on Figure 2, predominantly wetter than average conditions were observed at the GBA since June 2004. As of August 2006, a cumulative deviation from average precipitation approaching 24 inches was recorded, which should be reflected in increased soil moisture conditions during the monitoring period.

IBM has initiated new groundwater extraction and treatment operations in 2005 and 2006 that have altered groundwater levels and flow directions and induced improvements in groundwater water quality within the monitoring area. Prior to May 2006, the majority of the increased groundwater extraction and treatment has been located north of Monroe Street including the startup of pumping at new groundwater extraction well EN-284TD and improvements in groundwater extraction at historical pumping centers located just north of Monroe Street.

The increased groundwater withdrawals have lowered groundwater levels across the ventilation area and in places, have largely dewatered the upper aquifer. The location plan included as Figure 1 depicts groundwater contours and dewatered "dry" areas and areas where the upper aquifer has been nearly dewatered as interpreted by Groundwater Sciences Corporation[2] (GSC) based on data recorded in August 2005. Less than one-year later in May 2006 additional groundwater withdrawals were initiated at two new test wells located south of Monroe Street and north of East Main Street (EN-499T and EN-447T). In August 2006 extraction at test well EN-215T began just south of Monroe Street. These increases in pumping are expected to further alter groundwater levels and flow directions.

2.0 DATA AND FINDINGS

The data continue to support that the geographic limits of ventilation established under the Groundwater Vapor Project (GVP) are conservative. The data recorded in the second full year of monitoring continue to show a pattern of declining concentrations in fall through spring followed

[2] Groundwater Sciences Corporation, April 14, 2006, Annual Groundwater Monitoring Status Report for 2005, *Figure 3-1 Groundwater Elevation Contour Map Upper Aquifer Water Table, August 11-14, 2005.*

by increasing concentrations during spring and summer months. As documented in past reports this cyclic pattern can be explained by normal cycling of moisture in the vadose zone. This section presents an assessment of overall concentration trends accounting for the observed seasonal cycling. The soil vapor data collected during the period are summarized in Appendix Tables B.1 and are depicted on Figure 3.

2.1 VOCs in Groundwater and Soil Vapor Samples

Contemporaneous monitoring of groundwater and soil vapor in April and August 2006 has indicated concentrations of TCE that are generally within the range of magnitude observed in past monitoring. Discussions of apparent temporal variations in groundwater and soil vapor conditions are discussed in the sections to follow.

2.2 Temporal Variations in Groundwater Quality and Soil Vapor

A visual review of the scatter plots (Appendix B.3) for each of the thirty-five monitoring locations next to monitoring wells that are sampled regularly indicates generally less than one-half an order of magnitude variation in TCE concentrations in groundwater over the two year monitoring period. For discussion purposes, the data trends are grouped as follows.

- Twenty-one locations[3] where the TCE concentrations in groundwater appear to be decreasing at least marginally; the data indicate decreases generally less than one-half order of magnitude, typically by a factor of 2 to 3, but approaching one order of magnitude (EN06-37);

- Thirteen monitoring locations where the TCE concentrations in groundwater are generally consistent and stable or show some limited variability[4] over the monitoring period without a clear increasing or decreasing trend;

- A single location, EN04-10 where TCE concentrations in groundwater appear to reflect a slight increasing trend.

The soil vapor data continue to show progressive seasonal increases and decreases that largely mirror the pattern observed in the first year of monitoring. Progressive declining concentrations were recorded from late summer 2005 into winter and early spring 2006, and increasing concentrations were observed from April to August 2006 coincident with dry weather in the growing season. This pattern is observed most prominently for the foundation depth implants

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[3] Locations where groundwater concentrations appear to be declining at least marginally include EN04-2, EN04-5, EN04-7, EN04-8, EN04-9, EN04-11, EN04-13, EN04-16, EN04-17, EN04-19, EN04-20, EN04-21, EN04-22, EN04-26, EN04-27, EN04-29, EN04-32, EN05-34, EN06-35, EN06-36, and EN06-37.

[4] Locations where concentrations exhibit no overall upward or downward trend include: EN04-1, EN04-3, EN04-4, EN04-12, EN04-14, EN04-15, EN04-18, , EN04-23, EN04-24, EN04-25, EN04-30, EN04-31, and EN05-33.

but is also typically reflected in the water table depth and intermediate implants and has been demonstrated to reflect soil moisture cycling through the vadose zone.

As outlined in more detail below, long-term trends in soil vapor concentrations were assessed by comparing the upper and lower bound of recorded concentrations over the period and visual review of linear and four-point moving average trend lines. As a generality, many locations have exhibited overall lower TCE concentrations over the second year of monitoring which is believed to reflect the combined effects of:

- Above-normal rainfall and increased soil moisture conditions;
- Decreases in source groundwater concentrations; and
- Increased attenuation from water table to foundation depth due to greater vadose zone thickness induced by declining water levels.

Monthly precipitation records depicted as Figure 3 support that the fall of 2005 through February 2006 represents the wettest heating season recorded since soil vapor investigations began. Precipitation in the summer of 2006 reflects the large storm event leading to widespread regional flooding in June.

2.2.1 Ventilation Perimeter Monitoring

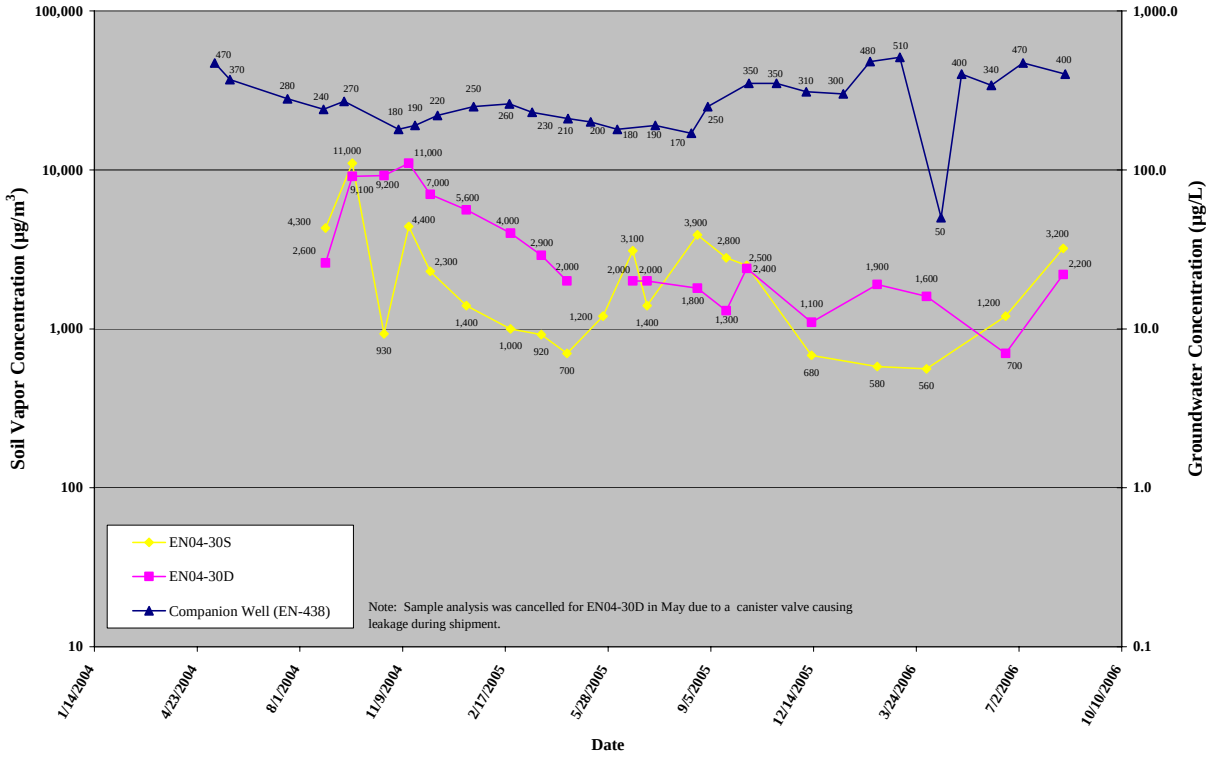
Of the seventeen implant completions dedicated to monitoring of conditions at or near the perimeter of ventilation areas all of the data indicate no material increase in vapor intrusion potential in that:

- TCE has either not been detected consistently or only trace concentrations have been found sporadically at all depths at six locations (EN04-3, EN04-4, EN04-6, EN04-15, EN04-24, EN04-25);
- At five locations, TCE has either not been detected or has been detected sporadically at low concentrations at foundation depth and concentrations have remained unchanged at water table depth (EN04-18, EN04-19, EN04-20, EN04-23) or appear to have declined (EN04-21);
- At three locations TCE concentrations do not indicate an overall upward or downward trend over the monitoring period (EN04-5, EN06-35, and EN06-37); and
- TCE concentrations appear to be declining at all depths at two locations (EN04-1 and EN04-32) and at water table depth at EN04-31. All three of the implants are located where significant changes in groundwater levels have been observed in response to increased groundwater withdrawals associated with groundwater extraction and treatment enhancements initiated by IBM in mid-2005 and mid-2006.

The data continue to support the limits of ventilation as conservative.

2.2.2 Remediation Progress Monitoring

Of the nineteen implants dedicated to monitoring within the ventilation limits, data for all but one either indicate declining concentrations (8[5]) or no long-term trend in TCE concentrations (10[6]) is apparent. All of the locations where the data suggest decreasing soil vapor concentrations are located north of East Main Street in the area where groundwater extraction and treatment operations have been substantially enhanced. As a generality, the declines in concentration have been less than one order of magnitude superimposed on seasonal fluctuations that in some cases approach or exceed an order of magnitude. As a representative example TCE concentrations in soil vapor samples from water table depth at EN04-30 (shown in pink) have declined about one from 11,000 µg/m^3 in the fall of 2004 to about 2,200 µg/m^3 in August 2006, an apparent decline by about a factor of 5. EN04-30 is located central between North and Monroe Streets.



At the two endpoints, TCE concentrations in samples from foundation depth (shown in yellow)

[5] *Locations where the data are believed to reflect an overall downward trend include EN04-2, EN04-8, EN04-9, EN-4-11, EN04-12, EN04-13, EN04-29, and EN04-30.*

[6] *Locations where no overall downward or upward trend is apparent include EN04-7, EN04-10, EN04-14, EN04-16, EN04-22, EN04-26, EN04-27, EN05-33, EN05-34 and EN-36.*

are 11,000 $\mu g/m^3$ and 3,200 $\mu g/m^3$, respectively ranging seasonally from about 560 to 4,400 $\mu g/m^3$ in between.

As shown by the dark blue line, TCE concentrations in groundwater have fluctuated between about 500 and 200 micrograms per liter (μg/L) or by about a factor of two. The changes in groundwater concentration are not of sufficient magnitude to fully explain the decline in vapor concentrations at water table depth. As such, we believe that the changes in soil vapor concentration likely reflect the superimposed effects of declining water table in response to pumping of the groundwater and the resultant increase vadose zone thickness, and increased soil moisture content resulting from above-normal precipitation during the recent year.

At EN04-17, TCE concentrations appear to reflect an increasing trend at water table depth, a trend that is not reflected at foundation depth. At water table depth, soil vapor concentrations have increased by about one order of magnitude while at foundation depth, the data suggest potential decline approaching one-half order of magnitude. As this implant is located in an area where aquifer saturated thicknesses have declined as a result of IBM's groundwater extraction and treatment initiatives. Given that groundwater concentrations have declined marginally, the apparent increase in soil vapor concentrations at depth could be temporary, reflecting exposure of additional vadose zone and increased surface area for VOC mass transfer from aqueous to vapor phase. This and other possible explanations will continue to be assessed in on-going monitoring of water levels, water quality and soil vapor conditions.

2.3 Quality Assurance/Quality Control

The following is a summary of Quality Assurance/Quality Control (QA/QC) measures taken on accordance with Project Data Quality Objectives (DQO). QA/QC measures include the use of tracer gas in the field, field screening of soil vapor samples, and laboratory measures for quality assurance samples including duplicates, equipment blanks, and laboratory control samples. New Environmental Horizons, Inc. (NEH) completed an independent data validation and usability assessment of the data.

2.3.1 Recent Quarter of Monitoring

QA/QC measures taken during the last three months of the monitoring period included:

- Field screening Tedlar bag samples for CO_2, O_2, and CH_4;
- Collection and analysis of field duplicates for approximately 10% of the samples and calculation of the relative percent difference (RPD) between the sample and the associated duplicate (RPD less than 30% is acceptable according to the Plan);
- Analysis of equipment blanks, which were collected and submitted on 11 out of the 11 days of sampling performed over the sampling period; and

- Analysis of laboratory control samples.

Tracer testing with Helium conducted in April 2006 has continued to indicate that leakage of atmospheric air into the sampling process is not a significant source of low bias in the sampling conducted to date. Helium tracer testing was performed at twenty implants, and was only detected in one sample, at a concentration representing approximately 0.015% of the sample volume. The locations where tracer testing was performed are indicated on Table B.1.

All data collected during the period were considered usable and met the project data quality objectives. Less than 1 % of the data were subject to data qualifier "flags" indicating the results were "estimated" values. The NEH data flags are included in Table B.1. Copies of the NEH Data Usability Assessment reports are included in Appendix D.

2.3.2 Annual Monitoring Period

Data collected during the twelve-month monitoring period were subject to QA/QC measures intended to produce data of documented quality against project-specific DQO and measurement performance criteria (MPC) outlined in the approved Monitoring Plan. MPC for precision, accuracy/bias, representativeness, completeness, sensitivity, and comparability were determined for the laboratory analysis of VOCs in the submitted soil vapor samples. All data collected during the annual period were considered usable and generally subject to few data qualifier "flags."

Over the annual monitoring period, the average reporting limit for TCE of 4.9 $\mu g/m^3$; well below the DQO of 5.4 $\mu g/m^3$ for sensitivity. Forty of forty-three duplicate pairs (93%) collected over the year met the project DQO for precision. Specifically, only sixteen separate analytical results (eight pairs) were flagged for field duplicate imprecision out of a total of 5,104 analytical results recorded over the course of the last year of monitoring. Of the eight pairs of analytical results flagged for duplicate imprecision, five pairs were within an order of magnitude, generally just over the DQO of 30%.

In total, only about 0.7% of 5,104 analytical results recorded over the course of monitoring were subject to data qualifiers. Approximately one-half of the small number of data qualifying flags were due to field duplicate imprecision, usually corresponded to widely varying final vacuums of the sample and duplicate. Approximately 30% of the data qualifying flags were due to greater than 5 inches Hg vacuum differential between the final recorded vacuum and the laboratory receipt vacuum, most likely due to differences in vacuum gauge accuracy in the field versus in the laboratory.

A review of the data for the key VOCs indicated that with few exceptions, the monitoring has yielded consistent concentrations with progressive increases or decreases. Out of the 444 samples of soil vapor collected, only the results for two samples indicate more than one order of magnitude outlying variation in soil vapor concentrations when compared with results of

sampling during the months before and after. As such, over 99% of the observations were consistent and repeatable over the annual period.

3.0 CONCLUSIONS AND RECOMMENDATIONS

IBM has executed an extensive program of soil vapor monitoring over two calendar years. The program is intended to assess for and track changes in the presence of VOCs that drove ventilation decisions under the Endicott GVP. The work has included collection and analysis of soil vapor samples from permanent monitoring locations inside and along the immediate periphery of ventilation areas in accordance with protocols outlined in an Agency-approved Monitoring Plan.

The data recorded in two years of monitoring support the use of soil vapor implants for monitoring of vapor intrusion potential. The soil vapor sampling was conducted over a variety of climatic conditions including seasonal wet and dry periods and variable groundwater levels. All of the more than 15,000 pieces of analytical data were found useable, meeting measurement performance criteria, with less than 2% subject to validation qualifiers. The data demonstrate a high degree of repeatability, validating the sampling and analytical techniques utilized pursuant to the Monitoring Plan. The findings of this monitoring program have been shown to be consistent with the findings of historical substructure soil vapor sampling.

We highlight the following observations and conclusions derived during the two-year monitoring period that have been presented in past reports approved by the Agencies:

- In the first quarterly report issued in December 2004, following the first three months of monitoring, we demonstrated that data derived from sampling of implants installed at foundation depth were consistent with historical substructure sampling data. The report also discussed the presence of "limiting soil conditions" attributable to greater attenuation of soil vapor concentrations from water table depth to foundation depth.

- In the quarterly report submitted to the Agencies in June 2005, we presented soil texture and soil vapor profiles further documenting the presence of limiting soil conditions and the related attenuation of vapor concentrations across the vadose zone.

- In the Annual Report of September 2005, we discussed the apparent seasonal variations in soil vapor concentrations that have been now observed for two years. We presented a quantitative assessment demonstrating that that the magnitude of seasonal variations could be explained by physical-chemical processes including physical displacement and partitioning into infiltrating water and reduced effectiveness of diffusion.

- The Semi-Annual report dated March 2006 presented data and observations further documenting the presence of limiting soil conditions in portions of the investigative area that explain limited soil vapor concentrations at foundation depth, despite groundwater quality conditions offering vapor migration potential. Subsurface investigations and the installation

of additional implants was conducted in lieu of additional indoor air sampling to aid in explaining repeated past sampling of indoor air. This report also documented increased moisture contents of vadose zone soils believed to reflect above-average precipitation and consequential reductions in vapor intrusion potential

- Finally, the data recorded over two years after defining the present limits of ventilation continue to support the limits of ventilation as conservative. Taking into account seasonal variability, the available data support an overall long-term declining vapor intrusion potential believed attributable to declining groundwater concentrations, declining water table conditions, and soil moisture conditions.

Based on the findings derived from the first two years this program, we recommend that the frequency of soil vapor monitoring remain on a bi-monthly basis or six times per year to continue to capture the seasonal variation and to provide sufficient data to discern seasonal from longer-term trends. On this schedule, sampling would continue to be conducted in February, April, June, August, October, and December. We believe that concurrent groundwater monitoring is no longer necessary in that the apparent relationship among soil vapor and groundwater concentrations have been established and the majority of the wells are sampled quarterly with a few sampled semi-annually and monthly as a part of the routine groundwater monitoring program.

We recommend that the soil vapor sampling be limited to the foundation and water table depth implants for all but the August sampling event when intermediate depth implants would also be sampled. Generally, sampling of the intermediate implants has indicated consistent patterns of attenuation of vapor concentrations across the vadose zone over the range of seasonal conditions. Although this data has been useful in documenting vapor attenuation mechanisms and patterns, we believe that it is not necessary to monitor the intermediate depths as frequently.

We recommend eliminating EN04-8 and EN04-24 from the routine monitoring program. We believe that on-going sampling of EN04-9 and EN04-10 provides for adequate spatial coverage for the EN04-8 vicinity. The foundation depth implant at EN04-8 has not been functional. EN04-24 provides data that is redundant with EN04-25. TCE has not been detected at either water table or foundation depth at either of these locations.

Finally, we recommend that the findings of the soil vapor monitoring be reported on a timetable consistent with the groundwater remediation operations and monitoring program. We recommend that the next report for soil vapor monitoring be submitted to the Agencies in early June lagging submittal of the Annual Report for the groundwater program by six weeks. Similarly, the next semi-annual report would be submitted in early December following the semi-annual report on groundwater to be submitted in October. We believe that this change in reporting schedule will allow for better coordination among the groundwater and soil vapor monitoring programs.

TABLES

TABLE 1
Summary of Soil Vapor Monitoring Implants
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, and Monitoring Program
Endicott, New York

Location Designation [1]	Installation Date	Implant Type [2]		Subsurface Conditions				Completion Details	Distance Above Water Table[5] (ft)	Vadose Zone Between Shallow and Deep Implants[6] (ft)	Saturated Screened Interval[7] (ft)
		Remediation Progress Monitoring	Ventilation Perimeter Monitoring	Nearby Monitoring Well [3]	Date Recorded/ Depth to Water Table [4]	Nominal Implant Depth (ft. bgs)	Inferred Stratum Screened				
EN04-1S	Jul-04		X	EN-094	7/26/04 28.47	8	Fill Over Sand	0-1' Concrete Surface Seal 1-6.8 Bentonite Seal 6.8-8.5' Sand Filter Pack 8-8.5' Screened Interval	5.5	13.5	10.5
EN04-1D	Jul-04					23	Sand	0-1' Concrete Surface Seal 1-22' Bentonite Seal 22-23' Glass Bead Filter Pack 22.5-23' Screened Interval			
EN04-2S	Jul-04	X		EN-450	8/5/04 25.17	8	Fill	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	5.2	11	4.8
EN04-2D	Jul-04					20	Sand & Gravel	0-1' Concrete Surface Seal 1-19' Bentonite Seal 19-20' Glass Bead Filter Pack 19.5-20' Screened Interval			
EN04-3S	Jul-04		X	EN-203	7/26/04 24.86	8	Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	5.9	10	10.1
EN04-3D	Jul-04					19	Sand	0-1' Concrete Surface Seal 1-18' Bentonite Seal 18-19' Glass Bead Filter Pack 18.5-19' Screened Interval			
EN04-4S	Jul-04		X	EN-022	8/5/04 22.98	8	Fill	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	6	8	<1
EN04-4D	Jul-04					17	Gravel	0-1' Concrete Surface Seal 1-16' Bentonite Seal 16-17' Glass Bead Filter Pack 16.5-17' Screened Interval			
EN04-5S	Jul-04		X	EN-459A	8/18/04 40.01	8	Sand & Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	5	25	10
EN04-5D	Jul-04					34	Sand	0-1' Concrete Surface Seal 1-33' Bentonite Seal 33-34' Glass Bead Filter Pack 33.5-34' Screened Interval			
EN04-6S	Jul-04		X	EN-310	7/29/04 <28	8	Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	1	18	0
EN04-6D	Jul-04					27	Sand & Gravel	0-1' Concrete Surface Seal 1-26' Bentonite Seal 26-27' Glass Bead Filter Pack 26.5-27' Screened Interval			
EN04-7S	Jul-04	X		EN-311	7/28/04 43.7	8	Sand Over Sand & Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	9.7	25	1.3
EN04-7D	Jul-04					34	Poorly Sorted Sand	0-1' Concrete Surface Seal 1-33' Bentonite Seal 33-34' Glass Bead Filter Pack 33.5-34' Screened Interval			
EN04-8S	Jul/Aug-02	X		EN-430	4/16/04 20.84	8	Sand & Gravel	0-2' Concrete Surface Seal 2-6.75' Bentonite Seal 6.75-7.75' Glass Bead Filter Pack 7.25-7.75' Screened Interval	8	2.8	2.2
EN04-8D	Jul/Aug-02					12	Sand & Gravel	0-2' Concrete Surface Seal 2-10.5' Bentonite Seal 10.5-11.7' Glass Bead Filter Pack 11.2-11.7' Screened Interval			
EN04-9S	Jul/Aug-02	X		EN-279	11/3/03 26.23	8	Welll Sorted Sand	0-2' Concrete Surface Seal 2-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	6	11	8
EN04-9D	Jul/Aug-02					20	Well Sorted Sand	0-2' Concrete Surface Seal 2-19' Bentonite Seal 19-20' Glass Bead Filter Pack 19.5-20' Screened Interval			

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Summary of Soil Vapor Monitoring Implants
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		Remediation Progress Monitoring	Ventilation Perimeter Monitoring	Nearby Monitoring Well [3]	Date Recorded/ Depth to Water Table [4]	Nominal Implant Depth (ft. bgs)	Inferred Stratum Screened				
EN04-10S	Jul/Aug-02	X		EN-077	11/3/04 26.18	8	Gravel	0-2' Concrete Surface Seal 2-6.5' Bentonite Seal 6.5-7.5' Glass Bead Filter Pack 7-7.5' Screened Interval	6.3	11.2	1.3
EN04-10D	Jul/Aug-02					20	Well Sorted Sand	0-2' Concrete Surface Seal 2-18.7' Bentonite Seal 18.7-19.7' Glass Bead Filter Pack 19.2-19.7' Screened Interval			
EN04-11S	Jul-04	X		EN-215A	7/29/04 28.17	8	Well Sorted Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8.5' Sand Filter Pack 8-8.5' Screened Interval	7.2	11.5	7.2
EN04-11D	Jul-04					21	Well Sorted Sand	0-1' Concrete Surface Seal 1-20' Bentonite Seal 20-21' Glass Bead Filter Pack 20.5-21' Screened Interval			
EN04-12S	Jul-04	X		EN-214A	7/30/04 25.18	8	Sand & Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	6.2	10	11.8
EN04-12D	Jul-04					19	Sand & Gravel	0-1' Concrete Surface Seal 1-18' Bentonite Seal 18-19' Glass Bead Filter Pack 18.5-19' Screened Interval			
EN04-13S	Jul-04	X		EN-449	7/29/04 36.05	8	Well Sorted Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	6	21	13.5
EN04-13D	Jul-04					30	Sand & Gravel	0-1' Concrete Surface Seal 1-29' Bentonite Seal 29-30' Glass Bead Filter Pack 29.5-30' Screened Interval			
EN04-14S	Jul-04	X		EN-462	8/5/04 40.09	8	Sand & Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	5	25	4
EN04-14D	Jul-04					34	Poorly Sorted Sand	0-1' Concrete Surface Seal 1-33' Bentonite Seal 33-34' Glass Bead Filter Pack 33.5-34' Screened Interval			
EN04-15S	Jul-04		X	EN-162	7/29/04 35.33	8	Well Sorted Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	5.3	21	6.2
EN04-15D	Jul-04					30	Sand & Gravel	0-1' Concrete Surface Seal 1-29' Bentonite Seal 29-30' Glass Bead Filter Pack 29.5-30' Screened Interval			
EN04-16S	Jul-04	X		EN-206	7/27/04 39.54	8	Fill	0-1' Concrete Surface Seal 1-7.3' Bentonite Seal 7.3-8.5' Sand Filter Pack 8-8.5' Screened Interval	5.5	24.5	10.5
EN04-16D	Jul-04					34	Sand & Gravel	0-1' Concrete Surface Seal 1-33' Bentonite Seal 33-34' Glass Bead Filter Pack 33.5-34' Screened Interval			
EN04-17S	Jul-04	X		EN-401	7/29/04 35.5	8	Sand & Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	7.5	19	3.5
EN04-17D	Jul-04					28	Sand & Gravel	0-1' Concrete Surface Seal 1-27' Bentonite Seal 27-28' Glass Bead Filter Pack 27.5-28' Screened Interval			
EN04-18S	Jul-04		X	EN-217A	7/29/04 36.69	8	Sand & Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	5.9	22	5.3
EN04-18D	Jul-04					31	Sand & Gravel	0-1' Concrete Surface Seal 1-30' Bentonite Seal 30-31' Glass Bead Filter Pack 30.5-31' Screened Interval			

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Endicott, New York

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		Remediation Progress Monitoring	Ventilation Perimeter Monitoring	Nearby Monitoring Well [3]	Date Recorded/ Depth to Water Table [4]	Nominal Implant Depth (ft. bgs)	Inferred Stratum Screened				
EN04-19S	Jul-04	X		EN-426	7/26/04 35.39	8	Sand & Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	5.9	20.5	4.6
EN04-19D	Jul-04					29.5	Sand & Gravel	0-1' Concrete Surface Seal 1-28.5' Bentonite Seal 28.5-29.5' Glass Bead Filter Pack 29-29.5' Screened Interval			
EN04-20S	Jul-04		X	EN-207	7/27/04 43.2	8	Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	7.7	25.5	4.3
EN04-20I	Jul-04					24	Gravel	0-1' Concrete Surface Seal 1-23' Bentonite Seal 23-24' Glass Bead Filter Pack 23.5-24' Screened Interval		9.5	
EN04-20D	Jul-04					36	Sand	0-1' Concrete Surface Seal 1-20' Formation Material 20-33.5' Bentonite Seal 33.5-35.5' Glass Bead Filter Pack 35-35.5' Screened Interval			
EN04-21S	Jul-04		X	EN-468	10/14/04 34.43	7.5	Sand & Gravel	0-1' Concrete Surface Seal 1-6.5' Bentonite Seal 6.5-7.5' Glass Bead Filter Pack 7-7.5' Screened Interval	12	14.5	4
EN04-21D	Jul-04					23	Sand & Gravel	0-1' Concrete Surface Seal 1-12' Formation Material 12-22' Bentonite Seal 22-23' Glass Bead Filter Pack 22.5-23' Screened Interval			
EN04-22S	Jul/Aug-02	X		EN-80* and EN-393*	7/27/04 18.75	8	Well Sorted Sand	0-2' Concrete Surface Seal 2-7.1' Bentonite Seal 7.1-7.5' Glass Bead Filter Pack 7.5-8' Screened Interval	2.8	7	6
EN04-22D	Jul/Aug-02					16	Well Sorted Sand	0-2' Concrete Surface Seal 2-15' Bentonite Seal 15-16' Glass Bead Filter Pack 15.5-16' Screened Interval			
EN04-23S	Jul-04		X	EN-174	7/30/04 26.48	8	Well Sorted Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	3.5	14	4.5
EN04-23I	Jul-04					15	Well Sorted Sand	0-1' Concrete Surface Seal 1-14' Bentonite Seal 14-15' Glass Bead Filter Pack 14.5-15' Screened Interval		7	
EN04-23D	Jul-04					23	Well Sorted Sand	0-1' Concrete Surface Seal 1-22' Bentonite Seal 22-23' Glass Bead Filter Pack 22.5-23' Screened Interval			
EN04-24S	Jul-04		X	EN-65	7/29/04 22.89	8	Fill	0-1' Concrete Surface Seal 1-6.5' Bentonite Seal 6.5-8.5' Sand Filter Pack 8-8.5' Screened Interval	3.9	9.5	17.8
EN04-24D	Jul-04					19	Poorly Sorted Sand	0-1' Concrete Surface Seal 1-18' Bentonite Seal 18-19' Glass Bead Filter Pack 18.5-19' Screened Interval			
EN04-25S	Aug-04		X	EN-395	7/29/04 18.88	8	Fill	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	1.4	8.5	5
EN04-25D	Aug-04					17.5	Sand & Gravel	0-1' Concrete Surface Seal 1-16.5' Bentonite Seal 16.5-17.5' Glass Bead Filter Pack 17-17.5' Screened Interval			

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		Remediation Progress Monitoring	Ventilation Perimeter Monitoring	Nearby Monitoring Well [3]	Date Recorded/ Depth to Water Table [4]	Nominal Implant Depth (ft. bgs)	Inferred Stratum Screened				
EN04-26S	Jul-04	X		EN-304	7/30/04 17.39	8	Sand & Gravel	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	3.4	5	6.6
EN04-26D	Jul-04					14	Sand & Gravel	0-1' Concrete Surface Seal 1-13' Bentonite Seal 13-14' Glass Bead Filter Pack 13.5-14' Screened Interval			
EN04-27S	Jul-04		X	EN-417A	7/29/04 8.91	8	Fill	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	0.9	-	14
EN04-28S	Jul-04	X		EN-109*	10*	8	To be installed as part of the Building 57 Investigation				
EN05-29S	4/18/2005	X		EN-437	8/5/04 23.87	7.5	Well Sorted Sand	0-1' Concrete Surface Seal 1-5.5' Bentonite Seal 5.5-7.5' Glass Bead Filter Pack 7-7.5' Screened Interval	3.9	11	11.1
EN05-29I	4/18/2005					12.5	Well Sorted Sand	0-1' Concrete Surface Seal 1-11' Bentonite Seal 11-12.5' Glass Bead Filter Pack 12-12.5' Screened Interval			
EN04-29D	Jul-04					20	Well Sorted Sand	0-1' Concrete Surface Seal 1-19' Bentonite Seal 19-20' Glass Bead Filter Pack 19.5-20' Screened Interval			
EN04-30S	Jul-04	X		EN-438	8/5/04 26.02	9	Well sorted Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	6	11	8
EN04-30D	Jul-04					20	Well Sorted Sand	0-1' Concrete Surface Seal 1-19' Bentonite Seal 19-20' Glass Bead Filter Pack 19.5-20' Screened Interval			
EN04-31S	Aug-04		X	EN-453	8/25/04 19.48	10	Well sorted Sand	0-1' Concrete Surface Seal 1-9' Bentonite Seal 9-10 Glass Bead Filter Pack 9.5-10' Screened Interval	0.5	8	12
EN04-31D	Aug-04					19	Well Sorted Sand	0-1' Concrete Surface Seal 1-18' Bentonite Seal 18-19' Glass Bead Filter Pack 18.5-19' Screened Interval			
EN04-32S	Aug-04		X	EN-457A	8/23/04 21.36	8	Well sorted Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	3.4	9	5
EN04-32D	Aug-04					18	Sand	0-1' Concrete Surface Seal 1-17' Bentonite Seal 17-18' Glass Bead Filter Pack 17.5-18' Screened Interval			

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		Remediation Progress Monitoring	Ventilation Perimeter Monitoring	Nearby Monitoring Well [3]	Date Recorded/ Depth to Water Table [4]	Nominal Implant Depth (ft. bgs)	Inferred Stratum Screened				
EN05-33S	Apr-05	X		EN-162	4/19/04 34.36	7.5	Well Sorted Sand	0-1' Concrete Surface Seal 1-5.8' Bentonite Seal 5.8-7.5' Glass Bead Filter Pack 7-7.5' Screened Interval	2.3	22.5	6.2
EN05-33I21	Apr-05					21.5	Well Sorted Sand	0-1' Concrete Surface Seal 1-19' Bentonite Seal 19-21.5' Glass Bead Filter Pack 21-21.5' Screened Interval			
EN05-33I29	Apr-05					29	Poorly Sorted Sand and Gravel	0-1' Concrete Surface Seal 1-27.7' Bentonite Seal 27.7-29' Glass Bead Filter Pack 28.5-29' Screened Interval			
EN05-33D	Apr-05					32	Well Sorted Sand	0-1' Concrete Surface Seal 1-30' Bentonite Seal 30-32' Glass Bead Filter Pack 31.5-32' Screened Interval			
EN05-34S	Apr-05	X		EN-304	4/18/2004 16.67	8	Well Sorted Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	3.2	4	6.6
EN05-34I	Apr-05					11	Well Sorted Sand	0-1' Concrete Surface Seal 1-10' Bentonite Seal 10-11' Glass Bead Filter Pack 10.5-11' Screened Interval			
EN05-34D	Apr-05					13.5	Well Sorted Sand	0-1' Concrete Surface Seal 1-12' Bentonite Seal 12-13.5' Glass Bead Filter Pack 13-13.5' Screened Interval			
EN06-35S	Jan-06		X	EN-460A	8/11/04 40.2	8	Well Sorted Sand	0-1' Concrete Surface Seal 1-7.2' Bentonite Seal 7.2-8.5' Glass Bead Filter Pack 7.5-8' Screened Interval	6.2	25.3	10
EN06-35I16	Jan-06					16	Poorly Sorted Sand and Gravel	8.5-14.7' Bentonite Seal 14.7-16.6' Glass Bead Filter Pack 15.5-16' Screened Interval			
EN06-35I24	Jan-06					24	Well Sorted Sand	16.6-22.3' Bentonite Seal 22.3-24.3' Glass Bead Filter Pack 23.5-24' Screened Interval			
EN06-35D	Jan-06					34	Poorly Sorted Sand and Gravel	24.3-33.3' Bentonite Seal 33.3-34.3' Glass Bead Filter Pack 33.8-34.3' Screened Interval			
EN06-36S	Jan-06		X	EN-459A	8/18/04 40.01	8	Well Sorted Sand	0-1' Concrete Surface Seal 1-6.9' Bentonite Seal 6.9-8.6' Sand Filter Pack 7.5-8.0' Screened Interval	7	23.8	10
EN06-36I21	Jan-06					12	Poorly Sorted Sand and Gravel	8.6-10.5 Bentonite Seal 10.5-11.5' Glass Bead Filter Pack 11.5-12.' Screened Interval			
EN06-36I29	Jan-06					22	Well Sorted Sand	12.5-20.9' Bentonite Seal 20.9-22.5' Glass Bead Filter Pack 21.5-22.' Screened Interval			
EN06-36D	Jan-06					33	Poorly Sorted Sand and Gravel	22.5-31.8' Bentonite Seal 31.8-34' Glass Bead Filter Pack 32.5-33' Screened Interval			

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		Remediation Progress Monitoring	Ventilation Perimeter Monitoring	Nearby Monitoring Well [3]	Date Recorded/ Depth to Water Table [4]	Nominal Implant Depth (ft. bgs)	Inferred Stratum Screened				
EN06-37S	Jan-06		X	EN-394	7/27/04 22.3	8	Well Sorted Sand	0-1' Concrete Surface Seal 1-7' Bentonite Seal 7-8' Glass Bead Filter Pack 7.5-8' Screened Interval	1.3	12	3.2
EN06-37I	Jan-06					12	Well Sorted Sand	0-1' Concrete Surface Seal 1-11' Bentonite Seal 11-12' Glass Bead Filter Pack 11.5-12' Screened Interval			
EN06-37D	Jan-06					21	Well Sorted Sand	0-1' Concrete Surface Seal 1-20' Bentonite Seal 20-21' Glass Bead Filter Pack 20.5-21' Screened Interval			

Notes:

1. This table is intended to summarize implant depths, subsurface conditions and completion details for soil gas monitoring implants used as part of IBM's Comprehensive Operations, Maintenance and Monitoring program in Endicott, New York.

2. Remediation Progress Monitoring implants are intended to monitor ongoing groundwater remediation activities within and on the boundary of the area where IBM is currently remediating groundwater. Ventilation Progress Perimeter Monitoring implants are intended to monitor conditions at or near the limits of the Ventilation Area.

3. The "nearby monitoring wells" field identifies the monitoring well used to characterize groundwater quality proximate to the implant location, typically within 20 feet horizontally. Entries flagged with an asterisk are well locations more remote from the implant location.

4. The "depth to water table" field is based on depth to water measurements recorded from top of well casing (TOC) as measured by SHA and GSC personnel between July 26 and August 5, 2004 and by SHA on April 18 and 19, 2005. Water levels indicated by an asterisk are nominal water levels based on monitoring wells more than approximately 20 feet from the soil vapor implant.

5. The "distance above water table" field reflects the approximate vertical distance between the deep implant and the water table as noted under "subsurface conditions." During implant installation, drilling depths were generally targeted to 5' above the water table based on current available information. The actual separation will vary with fluctuations in water level conditions and may be greater or less.

6. The "Vadose Zone Between Shallow and Deep Implants" field identifies the thickness of unsaturated soils between the implants and represents to the distance between the top of the glass bead filter pack of the deeper implant and the bottom of the implant screen of the shallow implant.

7. The "Saturated Screened Interval" field lists the approximate thickness of upper aquifer that the well is screened across which is based on boring and well completion logs provided by others and the depth to water table as noted under "subsurface conditions." The actual saturated screen interval will vary with fluctuations in groundwater levels.

FIGURES

ANNUAL REPORT – SOIL VAPOR MONITORING
COMPREHENSIVE OPERATIONS, MAINTENANCE & MONITORING PROGRAM
ENDICOTT, NEW YORK

SOIL VAPOR IMPLANT LOCATION PLAN

PROJECT NUMBER: 22000.00
FIGURE NUMBER: 1

DRAWN BY: EMB
DESIGNED BY: EMB
CHECKED BY: CJM
REVIEWED BY: CJM
PROJECT MGR: DBC
PIC: DBC
DATE: OCT 06

GRAPHICAL SCALE
200' 100' 0 200' 400'

Sanborn, Head & Associates
Consulting Engineers & Scientists

NO.	DATE	DESCRIPTION	BY

NOTES

1. THIS FIGURE IS INTENDED TO DEPICT SOIL VAPOR MONITORING LOCATIONS THAT HAVE BEEN ESTABLISHED AND MAINTAINED AS PART OF THE COMPREHENSIVE OPERATIONS, MAINTENANCE & MONITORING PROGRAM. THE LOCATIONS OF THE SOIL VAPOR MONITORING WELLS ARE BASED ON PAPER MEASUREMENTS RELATIVE TO PHYSICAL FEATURES IN THE FIELD AND ARE ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

2. THE BASE MAP INFORMATION PRESENTED BELOW IS ADAPTED FROM FOUR AUTOCAD DRAWINGS ENTITLED, "ENDICOTT2000LOW.DWG", "ENDICOTT2000LOW.DWG", "ENDICOTT2000LOW.DWG", AND, "ENDICOTTPLAT.DWG". THE POSITIONAL ACCURACY OF THE BASE MAP FEATURES IS +/- 100 FEET AS SHOWN ON FIGURE 1 OF THE REPORT ENTITLED "AS-BUILT AUTOCAD DRAWING ENTITLED "ALL_BASE.DWG" PROVIDED BY GROUNDWATER SCIENCES CORPORATION (GSC) OF HARRISBURG, PENNSYLVANIA TO SHA IN SEPTEMBER 2003. THE LOCATIONS OF GROUNDWATER MONITORING AND RECOVERY WELLS ARE BASED ON AN AUTOCAD DRAWING BY GSC SUBMITTED TO SHA ON 05/17/2004 ENTITLED "2007NOS6.DWG". THE WELL LOCATIONS ARE REPORTEDLY BASED ON FIELD SURVEYS PERFORMED IN 2003 AND 2004. LOGS FOR WELLS INSTALLED IN MAY AND AUGUST 2004, WELL LOCATIONS ARE BASED ON NORTHING AND EASTING COORDINATES PROVIDED ON DRAFT WELL LOGS PROVIDED TO SHA ON 09/21/2004.

3. GROUNDWATER CONTOURS, FLOW DIVIDES AND FLOW ARROWS, GROUNDWATER MONITORING AND EXTRACTION WELLS, AND AREAS OF SATURATED THICKNESS <2' OR "DRY" WERE ADAPTED FROM A DRAWING BY GSC, ENTITLED 20070123_SHA.DWG. THE CONTOURS REPRESENT INFERRED GROUNDWATER ELEVATIONS BASED ON GROUNDWATER MEASUREMENTS ON AUGUST 31, 2006.

4. THE LIMITS OF VENTILATION SHOWN IN RED ENCOMPASS PROPERTIES WHERE IBM HAS OFFERED TO INSTALL A VENTILATION SYSTEM. THE VENTILATION AREAS WERE IDENTIFIED UNDER THE REVIEW OF THE NEW YORK STATE DEPARTMENTS OF ENVIRONMENTAL CONSERVATION AND HEALTH BASED ON RESULTS OF SAMPLING FOUNDATION LEVEL SOIL VAPOR, SUBSTRUCTURE SOIL VAPOR, INDOOR AIR, AND OUTDOOR AIR COMPLETED BETWEEN NOVEMBER 2002 AND MARCH 2005.

LEGEND

- LIMITS OF VENTILATION
- MAILING ADDRESS; ARROW INDICATES FACING STREET
- EN04–1 — SOIL VAPOR MONITORING LOCATION – PERIMETER MONITORING
- EN04–1 — SOIL VAPOR MONITORING LOCATION – REMEDIATION PROGRESS MONITORING
- EN–430 — UPPER AQUIFER MONITORING WELL
- EN–428 — UPPER AQUIFER INTERCEPTOR EXTRACTION WELL
- 819 — GROUNDWATER ELEVATION CONTOUR (FEET AMSL)
- INFERRED DIRECTION OF GROUNDWATER FLOW
- AREA OF UNSATURATED SOIL IN THE UPPER AQUIFER
- AREA WHERE SATURATED THICKNESS IS LESS THAN 2'

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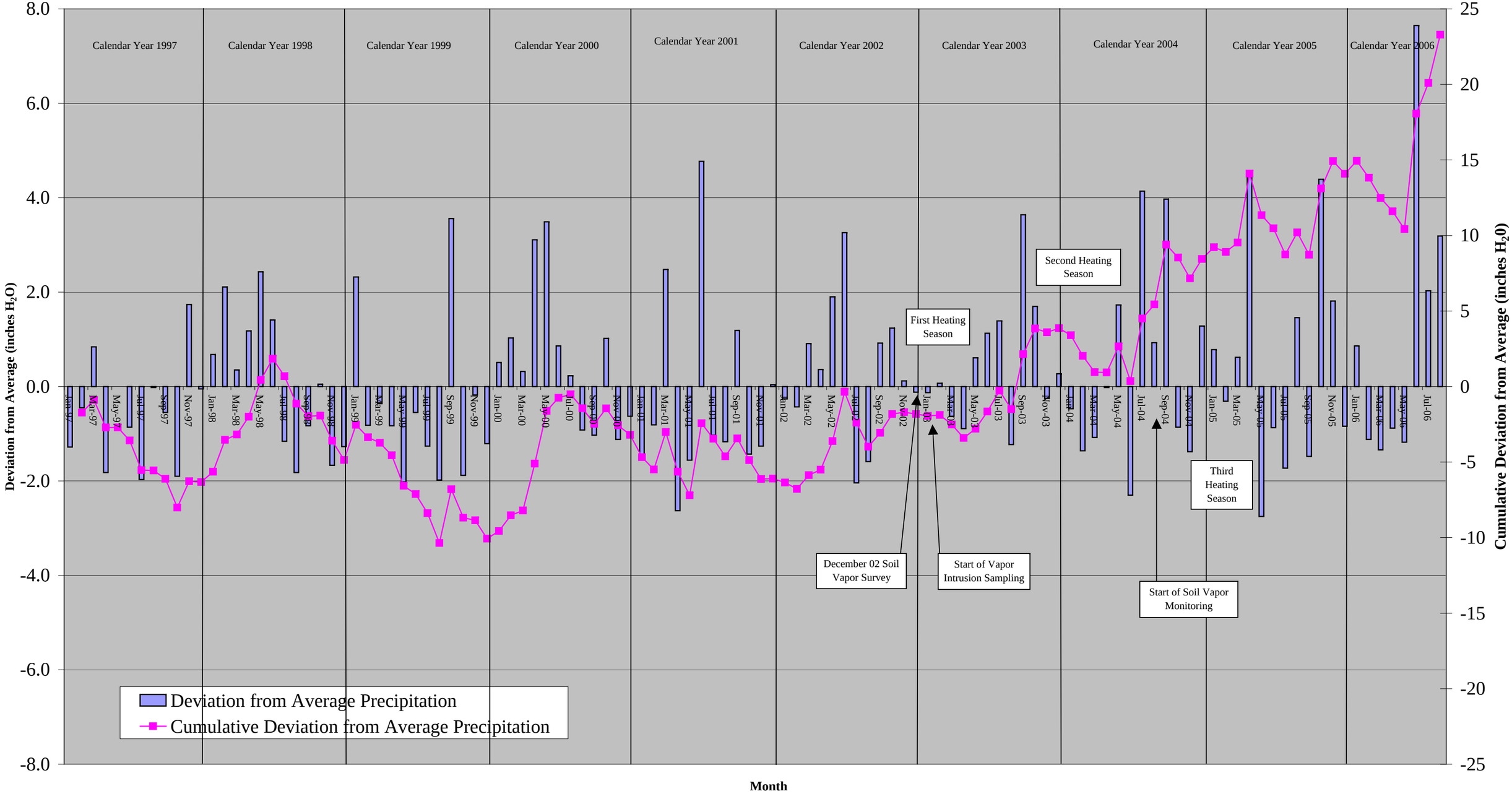
MXD's: S:\PROJECTS\22000.00 - IBM ENDICOTT\Maps\VAPOR\ESRIMXD\ALL_2007-07.mxd
S:\PROJECTS\22000.00 - IBM ENDICOTT\Maps\VAPOR\ESRIMXD\SR_2007Q4.mxd

MAGIC: S:\PROJECTS\22000.00 - IBM ENDICOTT\Maps\Vapor Screens Fig\Soil Vapor Present (Approx Locations) ALL_2007-07.jpg

PLT: S:\PROJECTS\22000.00 - IBM ENDICOTT\Maps\Plots\Vapor Monitoring\070906_Landrum_Thurber\Layout Figure 1
CTB FILE: SHA STANDARD.CTB
PLOT DATE: 10-25-06

Figure 2
Historical Precipitation Records
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Monitoring, and Maintenance Program
Endicott, New York



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N

NORTH STREET

MONROE STREET

EAST MAIN STREET

GARFIELD AVE

GRANT AVE

TRACY ST

MCKINLEY AVENUE

ARTHUR AVE

JACKSON AVE

RIVERVIEW DRIVE

SUSQUEHANNA RIVER

EN04-1 EN04-2 EN04-3 EN04-4 EN04-5 EN04-6 EN04-7 EN04-8 EN04-9 EN04-10 EN04-11 EN04-12 EN04-13 EN04-14 EN04-15 EN04-16 EN04-17 EN04-18 EN04-19 EN04-20 EN04-21 EN04-22 EN04-23 EN04-24 EN04-25 EN04-26 EN04-27 EN04-29 EN04-30 EN04-31 EN04-32 EN05-34 EN06-35 EN06-36 EN06-37

EN-094 EN-450 EN-202 EN-438 EN-279 EN-430 EN-077 EN-457A EN-457 EN-214A EN-214 EN-304 EN-417A EN-308 EN-352 EN-068 EN-087 EN-344 EN-462 EN-461 EN-207 EN-463 EN-464 EN-465 EN-466 EN-467 EN-468 EN-469 EN-470 EN-471 EN-472 EN-473 EN-474 EN-475 EN-476 EN-477 EN-478 EN-479 EN-480 EN-481 EN-482 EN-483 EN-484 EN-485 EN-486 EN-487 EN-488 EN-489 EN-490 EN-491 EN-492 EN-493 EN-494 EN-495 EN-496 EN-497 EN-498 EN-499 EN-500 EN-501 EN-502 EN-503 EN-504 EN-505 EN-506 EN-507 EN-508 EN-509 EN-510 EN-511 EN-512 EN-513 EN-514 EN-515 EN-516 EN-517 EN-518 EN-519 EN-520 EN-521 EN-522 EN-523 EN-524 EN-525 EN-526 EN-527 EN-528 EN-529 EN-530 EN-531 EN-532 EN-533 EN-534 EN-535 EN-536 EN-537 EN-538 EN-539 EN-540 EN-541 EN-542 EN-543 EN-544 EN-545 EN-546 EN-547 EN-548 EN-549 EN-550 EN-551 EN-552 EN-553 EN-554 EN-555 EN-556 EN-557 EN-558 EN-559 EN-560 EN-561 EN-562 EN-563 EN-564 EN-565 EN-566 EN-567 EN-568 EN-569 EN-570 EN-571 EN-572 EN-573 EN-574 EN-575 EN-576 EN-577 EN-578 EN-579 EN-580 EN-581 EN-582 EN-583 EN-584 EN-585 EN-586 EN-587 EN-588 EN-589 EN-590 EN-591 EN-592 EN-593 EN-594 EN-595 EN-596 EN-597 EN-598 EN-599 EN-600 EN-601 EN-602 EN-603 EN-604 EN-605 EN-606 EN-607 EN-608 EN-609 EN-610 EN-611 EN-612 EN-613 EN-614 EN-615 EN-616 EN-617 EN-618 EN-619 EN-620 EN-621 EN-622 EN-623 EN-624 EN-625 EN-626 EN-627 EN-628 EN-629 EN-630 EN-631 EN-632 EN-633 EN-634 EN-635 EN-636 EN-637 EN-638 EN-639 EN-640 EN-641 EN-642 EN-643 EN-644 EN-645 EN-646 EN-647 EN-648 EN-649 EN-650 EN-651 EN-652 EN-653 EN-654 EN-655 EN-656 EN-657 EN-658 EN-659 EN-660 EN-661 EN-662 EN-663 EN-664 EN-665 EN-666 EN-667 EN-668 EN-669 EN-670 EN-671 EN-672 EN-673 EN-674 EN-675 EN-676 EN-677 EN-678 EN-679 EN-680 EN-681 EN-682 EN-683 EN-684 EN-685 EN-686 EN-687 EN-688 EN-689 EN-690 EN-691 EN-692 EN-693 EN-694 EN-695 EN-696 EN-697 EN-698 EN-699 EN-700 EN-701 EN-702 EN-703 EN-704 EN-705 EN-706 EN-707 EN-708 EN-709 EN-710 EN-711 EN-712 EN-713 EN-714 EN-715 EN-716 EN-717 EN-718 EN-719 EN-720 EN-721 EN-722 EN-723 EN-724 EN-725 EN-726 EN-727 EN-728 EN-729 EN-730 EN-731 EN-732 EN-733 EN-734 EN-735 EN-736 EN-737 EN-738 EN-739 EN-740 EN-741 EN-742 EN-743 EN-744 EN-745 EN-746 EN-747 EN-748 EN-749 EN-750 EN-751 EN-752 EN-753 EN-754 EN-755 EN-756 EN-757 EN-758 EN-759 EN-760 EN-761 EN-762 EN-763 EN-764 EN-765 EN-766 EN-767 EN-768 EN-769 EN-770 EN-771 EN-772 EN-773 EN-774 EN-775 EN-776 EN-777 EN-778 EN-779 EN-780 EN-781 EN-782 EN-783 EN-784 EN-785 EN-786 EN-787 EN-788 EN-789 EN-790 EN-791 EN-792 EN-793 EN-794 EN-795 EN-796 EN-797 EN-798 EN-799 EN-800 EN-801 EN-802 EN-803 EN-804 EN-805 EN-806 EN-807 EN-808 EN-809 EN-810 EN-811 EN-812 EN-813 EN-814 EN-815 EN-816 EN-817 EN-818 EN-819 EN-820 EN-821 EN-822 EN-823 EN-824 EN-825 EN-826 EN-827 EN-828 EN-829 EN-830 EN-831 EN-832 EN-833 EN-834 EN-835 EN-836 EN-837 EN-838 EN-839 EN-840 EN-841 EN-842 EN-843 EN-844 EN-845 EN-846 EN-847 EN-848 EN-849 EN-850 EN-851 EN-852 EN-853 EN-854 EN-855 EN-856 EN-857 EN-858 EN-859 EN-860 EN-861 EN-862 EN-863 EN-864 EN-865 EN-866 EN-867 EN-868 EN-869 EN-870 EN-871 EN-872 EN-873 EN-874 EN-875 EN-876 EN-877 EN-878 EN-879 EN-880 EN-881 EN-882 EN-883 EN-884 EN-885 EN-886 EN-887 EN-888 EN-889 EN-890 EN-891 EN-892 EN-893 EN-894 EN-895 EN-896 EN-897 EN-898 EN-899 EN-900 EN-901 EN-902 EN-903 EN-904 EN-905 EN-906 EN-907 EN-908 EN-909 EN-910 EN-911 EN-912 EN-913 EN-914 EN-915 EN-916 EN-917 EN-918 EN-919 EN-920 EN-921 EN-922 EN-923 EN-924 EN-925 EN-926 EN-927 EN-928 EN-929 EN-930 EN-931 EN-932 EN-933 EN-934 EN-935 EN-936 EN-937 EN-938 EN-939 EN-940 EN-941 EN-942 EN-943 EN-944 EN-945 EN-946 EN-947 EN-948 EN-949 EN-950 EN-951 EN-952 EN-953 EN-954 EN-955 EN-956 EN-957 EN-958 EN-959 EN-960 EN-961 EN-962 EN-963 EN-964 EN-965 EN-966 EN-967 EN-968 EN-969 EN-970 EN-971 EN-972 EN-973 EN-974 EN-975 EN-976 EN-977 EN-978 EN-979 EN-980 EN-981 EN-982 EN-983 EN-984 EN-985 EN-986 EN-987 EN-988 EN-989 EN-990 EN-991 EN-992 EN-993 EN-994 EN-995 EN-996 EN-997 EN-998 EN-999 EN-1000

1,000 100 10 10,000

NOTES:

1. THIS FIGURE IS INTENDED TO DEPICT THE TEMPORAL AND SPATIAL PATTERNS OF TRICHLOROETHENE (TCE) IN SOIL VAPOR FROM SAMPLES COLLECTED FROM SHALLOW AND DEEP IMPLANTS BETWEEN AUGUST 2004 AND AUGUST 2006.

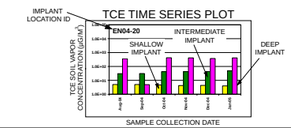
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER CUBIC METER ($\mu g/M^3$). WHERE TCE WAS NOT DETECTED ABOVE LABORATORY REPORTING LIMITS, THE GRAPH REFLECTS THE LABORATORY REPORTING LIMIT. THE LABORATORY REPORTING LIMIT VARIES FROM SAMPLE TO SAMPLE; HOWEVER, THE "NOMINAL" REPORTING LIMIT REFERENCED IN THE MONITORING PLAN FOR TCE IS 5.4 $\mu g/M^3$.

3. INFERRED PATTERNS OF TCE IN SOIL VAPOR AS SHOWN BY ISOPLETHS ARE BASED ON THE RESULTS OF SOIL VAPOR SAMPLES FROM FOUNDATION DEPTH COLLECTED THROUGHOUT THE STUDY AREA. SOIL VAPOR SAMPLES WERE COLLECTED BY SANBORN, HEAD AND ASSOCIATES, INC (SHA) FROM DECEMBER 2002 TO MARCH 2005 AS PART OF THE GROUNDWATER VAPOR PROJECT AND IN EARLY JUNE AND LATE JULY 2004 AS PART OF THE FORMER IDEAL CLEANERS SUPPLEMENTAL REMEDIAL INVESTIGATION CONDUCTED BY GROUNDWATER SCIENCES CORPORATION (GSC) OF HARRISBURG, PENNSYLVANIA. THE CONTOURS REPRESENT INFERRED CONCENTRATIONS IN UNITS OF $\mu g/M^3$ AND ARE BASED ON AVAILABLE DATA AT THE TIME THE SOIL VAPOR MONITORING PLAN WAS PREPARED.

LEGEND:

- EN04-30 — SOIL VAPOR IMPLANT LOCATION/DESIGNATION - REMEDIATION PROGRESS MONITORING
- EN04-31 — SOIL VAPOR IMPLANT LOCATION/DESIGNATION - PERIMETER MONITORING
- EN-437 — GROUNDWATER MONITORING WELL
- LIMITS OF VENTILATION
- INFERRED TRICHLOROETHENE ISOPLETHS AT FOUNDATION LEVEL ($\mu g/M^3$). (SEE NOTE 5)

TCE TIME SERIES PLOT



GRAPHICAL SCALE

Feet

250 125 0 250 500 750

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

NO.	DATE	DESCRIPTION	BY

DRAWN BY: EMB
DESIGNED BY: EMB
CHECKED BY: CJM
REVIEWED BY: CJM
PROJECT MGR: DBC
PIC: DBC
DATE: OCT 06

ANNUAL REPORT - SOIL VAPOR MONITORING
COMPREHENSIVE OPERATIONS, MAINTENANCE & MONITORING PROGRAM
ENDICOTT, NEW YORK

PLAN VIEW SOIL VAPOR DATA SUMMARY

PROJECT NUMBER :
2200.00

3

FILE: S:\DATA\2200\2209\Acrfiles\Figure\Maine Figure\Img_fpv_013004.mxd
CAD FILE:
REVISION DATE:
PLOT DATE: 03/01/05

APPENDIX A

LIMITATIONS

LIMITATIONS

1. The conclusions described in this report are based in part on the data obtained from a finite number of soil vapor, ambient air, soil, and groundwater samples from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further investigation is initiated. If variations or other latent conditions then appear evident, it may be necessary to re-evaluate the conclusions of this report.

2. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples logged by others; actual soil transitions are probably more gradual. SHA has relied on the available logs, records, and interpretations of others and has not independently verified the data and interpretations. For specific information, refer to the exploration logs.

4. The VOC presence in soil vapor shown on Figure 1 was inferred based on the data available to SHA at the time the report was prepared using generally accepted professional practices and is based on limited information obtained from data points with variable spacing. They are intended to depict conditions during a given period of time, consistent with available information. The actual conditions will vary from those shown both spatially and temporally. Other interpretations are possible.

5. The conclusions contained in this report are based in part upon various types of chemical data as well as historical and hydrogeologic information developed by previous investigators. While SHA has reviewed that data available to us at the time the report was prepared and information as stated in this report, any of SHA's interpretations and conclusions that have relied on that information will be contingent on its validity. SHA has not performed an independent assessment of the reliability of the data; should additional chemical data, historical information, or hydrogeologic information become available in the future, such information should be reviewed by SHA and the interpretations and conclusions presented herein may be modified accordingly.

6. Sampling and quantitative laboratory testing was performed by others as part of the investigation as noted within the report. Where such analyses have been conducted by an outside laboratory, unless otherwise stated in the report, SHA has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these data.

7. This report has been prepared for, and is intended for the exclusive use of, the IBM Corporation. The contents of this report should not be relied upon by any party other than IBM without the express written consent of IBM. No other warranty, express or implied, is made.

8. In the event that any changes in the nature, design, or location of any facilities associated with this work are planned, the conclusions contained in this report should not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing by SHA. SHA is not responsible for any claims, damages, or liability associated with interpretation of subsurface data or re-use of the subsurface data or engineering analyses without the express written authorization of SHA.

APPENDIX B

FIELD SAMPLING AND LABORATORY ANALYSIS

APPENDIX B.1

SUMMARY OF FIELD SAMPLING

APPENDIX B.1

SUMMARY OF FIELD SAMPLING
Soil Vapor Monitoring Program, Endicott, New York

This summary of field sampling is provided for activities completed during monitoring from April 2006 through August 2006. Summaries of prior monitoring activities are provided in the previous monitoring reports.

B.1.1 Background

Soil vapor monitoring was conducted at 36 locations in April, June, and August 2006. Soil vapor implant installation details are provided in Table 1. The implants consist of ¼-inch outside diameter (O.D.) by six-inch long woven stainless steel screen connected to ¼-inch O.D. lab-grade stainless steel tubing. The stainless steel tubing is finished above the ground surface with a compression fitting and gas-tight threaded cap and contained in an 8 or 9-inch diameter flush-mount protective road box.

B.1.2 Soil Vapor Implant Sampling

The soil vapor implants were sampled from April 3rd to 6th, June 19th to 22nd, and August 14th to 17th, 2006. Soil vapor samples were collected generally following procedures described in the approved Monitoring Plan, dated December 1, 2004. Groundwater Sciences, Inc. of Harrisburg, Pennsylvania and IBM personnel performed concurrent groundwater sampling in August 2006. The collection of soil vapor samples is documented on Soil Vapor Field Sampling Summary Forms in Appendix B.2.

Soil vapor samples were collected in one-liter SUMMA® canisters by connecting the stainless steel implant tubing to a short section of Teflon tubing fitted with an in-line Swagelok® valve. Each vapor implant was purged of one probe volume (estimated at about 10 milliliters [ml] per foot of probe depth) using a disposable syringe. An in-line vacuum gauge was monitored during purging, and the withdrawal rate was adjusted to limit the vacuum to around 2 inches H_2O or below.

Samples for laboratory analysis were collected using an in-line 1-hour flow controller, yielding a collection rate of approximately 0.013 liters per minute or less, a rate comparable to the rate of substructure soil vapor collection as part of the previous vapor intrusion sampling completed in Endicott. Duplicate samples were collected concurrently using an additional Swagelok® "T" fitting and two two-hour controllers to maintain an approximately equivalent sample collection rate.

Helium was used as a tracer gas in April 2006 at a subset of twenty locations where implants had either been installed in January 2006 or where historically one or more data results for TCE had varied by more than an order of magnitude. Helium tracer gas was applied after the collection of the Summa canister sample, during the collection of the

field screening Tedlar bag sample. Helium was released at an approximate rate of 500 cc/minute for approximately 15 minutes into a 5-gallon plastic bucket inverted over the implant. A Tedlar bag was collected via a Gillian air pump and analyzed in the field using a MGD, Model 2002 Helium Leak Detector.

In addition, the Tedlar bag was field screened following the same methodology used in previous sampling and described in previous reports. The sample was screened in the field for carbon dioxide (CO_2), oxygen (O_2), and methane (CH_4) using a CES Lantec GEM 2000 four-gas meter, and for volatile organic compounds (VOCs) using a Photovac Model 2020 photo-ionization detector (PID) equipped with a 10.6 eV lamp and a Photovac MicroFID portable flame ionization detector (FID).

B.1.3 Quality Assurance/Quality Control

Quality Control measures such as field duplicates and blanks and analytical laboratory blanks were taken as required by the Monitoring Plan. Seven duplicates and four equipment blanks were collected each sampling round. QA/QC measures implemented during field sampling activities included:

- Confirmation of sample container and metering valve integrity before and after sample collection;
- Sample collection following consistent procedures as outlined in the Monitoring Plan;
- Equipment blanks accompanying empty sample containers to the field, and collected samples back to the lab; and
- Collection of field duplicate samples.

The SUMMA® canisters used for sample collection were "certified clean" by the analytical laboratory to the laboratory reporting limits, and confirmation of the presence of the certification seal or label for each container was noted prior to sample collection. The flow metering valves were cleaned prior to use and the laboratory verified the regulated flow rate. The canister vacuum was noted and recorded before and after the collection of samples.

Equipment blanks consisted of laboratory-certified SUMMA® canisters filled in the field with lab-grade nitrogen, and not opened during the course of its transport. Duplicate samples were collected simultaneously (i.e., over the same time interval) and spatially immediately adjacent to each other.

The collection, transfer of custody, and shipping/transport of the samples to the analytical laboratory was documented using chain-of-custody forms. The laboratory confirmed receipt vacuum and canister identification details and noted any discrepancies.

APPENDIX B.2

COMPACT DISC WITH TABULAR DATA SUMMARIES AND FIELD SAMPLING RECORDS

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
Implant Location	**EN04-1**	SG-053	8	11-Dec-02	SG053S121102	Summa Canister	19.8	0.5	0.0	1.71	N	N			µg/m3		**0.88**			**46**		<	0.14	U	<	0.69	U	<	0.044	U		**31**		<	0.069	U	<	0.14	U	<	0.23	U		**2.7**			**5.2**	
Monitoring Well	**EN-094**	EN04-1S	8	26-Aug-04	EN041S082604	Summa Canister	18.9	0.9	0.0	1.87	Y	N	1.7E-02		µg/m3	<	6.4	U		**90**		<	3.8	U	<	3.8	U	<	2.4	U		**31**			**5.9**		<	3.8	U	<	2.5	U		**4.8**		<	7.3	U
Water Table Depth (ft)	*28*	EN04-1S	8	21-Sep-04	EN041S092104	Summa Canister	18.9	0.6	0.1	1.79	Y	N	2.0E-02		µg/m3	<	6.2	U		**110**		<	3.6	U	<	3.6	U	<	2.3	U		**36**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	UJ	<	7.0	U
Total VOCs	*3*	EN04-1S	8	19-Oct-04	EN041S101904	Summa Canister	21.0	0.3	0.0	8.4	Y	N	5.1E-02		µg/m3	<	5.7	U		**79**		<	3.3	U	<	4.0	U	<	2.1	U		**26**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Sum Ethenes	*2*	EN04-1S	8	15-Nov-04	EN041S111504	Summa Canister	20.5	0.3	0.0	1.64	N	N	3.6E-05		µg/m3	<	5.6	U		**51**		<	3.2	U	<	3.2	U	<	2.1	U		**16**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethanes	*1*	EN04-1S	8	7-Dec-04	EN041S120704	Summa Canister	20.6	0.0	0.0	1.61	N	N	7.1E-06		µg/m3	<	5.5	U		**40**		<	3.2	U	<	3.2	U	<	2.0	U		**12**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
Other		EN04-1S	8	10-Jan-05	EN041S011005	Summa Canister	20.7	0.0	0.1	1.58	N	N			µg/m3	<	5.4	U		**24**		<	3.1	U	<	3.1	U	<	2.0	U		**8.9**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-1S	8	21-Feb-05	EN041S022105	Summa Canister	20.2	0.2	0.4	1.64	N	N			µg/m3	<	5.6	U		**16**		<	3.2	U	<	3.2	U	<	2.1	U		**9.3**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-1S	8	21-Mar-05	EN041S0332105	Summa Canister	20.4	0.0	0.0	1.79	N	N			µg/m3	<	6.1	U		**17**		<	3.5	U	<	3.5	U	<	2.3	U		**11**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-1S	8	18-Apr-05	EN041S041805	Summa Canister	19.4	0.2	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-1S	8	23-May-05	EN041S052305	Summa Canister	20.4	0.0	0.0	1.58	N	N			µg/m3	<	5.4	U		**27**		<	3.1	U	<	3.1	U	<	2.0	U		**7.4**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-1S	8	21-Jun-05	EN041S062105	Summa Canister	20.1	0.3	0.0	1.83	N	N			µg/m3	<	6.2	U		**51**		<	3.6	U	<	3.6	U	<	2.3	U		**14**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-1S	8	5-Jul-05	EN041S070505	Summa Canister	20.1	0.4	0.0	1.83	N	N			µg/m3	<	6.2	U		**62**		<	3.6	U	<	3.6	U	<	2.3	U		**20**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-1S	8	22-Aug-05	EN041S082205	Summa Canister	19.4	0.6	1.4	1.91	N	N			µg/m3	<	6.5	U		**120**		<	3.8	U	<	3.8	U	<	2.4	U		**30**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-1S	8	19-Sep-05	EN041S091905	Summa Canister	19.9	0.6	0.0	1.68	N	N			µg/m3	<	5.7	U		**81**		<	3.3	U	<	3.3	U	<	2.1	U		**22**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-1S	8	10-Oct-05	EN041S101005	Summa Canister	20.3	0.5	0.0	1.79	N	N			µg/m3	<	6.1	U		**68**		<	3.5	U	<	3.5	U	<	2.3	U		**18**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-1S	8	12-Dec-05	EN041S121205	Summa Canister	20.4	0.1	0.0	1.75	N	N			µg/m3	<	5.9	U		**10**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-1S	8	14-Feb-06	EN041S021406	Summa Canister	19.9	0.0	0.0	2.31	N	N			µg/m3	<	7.8	U		**12**		<	4.6	U	<	4.6	U	<	3.0	U	<	6.3	U	<	4.6	U	<	4.7	U	<	3.0	U	<	4.0	U	<	8.8	U
		EN04-1S	8	3-Apr-06	EN041S040306	Summa Canister	20.8	0.2	0.0	1.79	N	N			µg/m3	<	6.1	U		**11**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-1S	8	19-Jun-06	EN041S061906	Summa Canister	19.7	0.2	0.0	1.87	N	N			µg/m3	<	6.3	U		**31**		<	3.7	U	<	3.7	U	<	2.4	U		**7.8**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-1S	8	14-Aug-06	EN041S081406	Summa Canister	20.3	0.8	0.0	2.49	N	N			µg/m3	<	8.4	U		**59**		<	4.9	U	<	4.9	U	<	3.2	U		**15**		<	4.9	U	<	5.0	U	<	3.3	U	<	4.3	U	<	9.5	U
		EN04-1D	23	26-Aug-04	EN041D082604	Summa Canister	19.1	0.4	0.0	1.87	Y	N	2.8E-02		µg/m3	<	6.4	U		**330**		<	3.8	U	<	3.8	U	<	2.4	U		**83**			**5.4**		<	3.8	U	<	2.5	U		**5.8**		<	7.3	U
		EN04-1D Dup.	23	26-Aug-04	DU34092082604	Summa Canister	19.1	0.4	0.0	1.83	Y	N	2.8E-02		µg/m3	<	6.3	U		**300**		<	3.7	U	<	3.7	U	<	2.4	U		**71**			**11**		<	3.8	U	<	2.4	U		**9.9**		<	7.1	U
		EN04-1D	23	21-Sep-04	EN041D092104	Summa Canister	18.9	0.5	0.1	1.68	Y	N	2.0E-01		µg/m3	<	5.8	U		**450**		<	3.4	U	<	3.4	U	<	2.2	U		**110**		<	3.4	U	<	3.4	U	<	2.2	U	<	3.0	UJ	<	6.5	U
		EN04-1D	23	19-Oct-04	EN041D101904	Summa Canister	20.8	0.5	0.0	8.75	Y	N	1.2E-04		µg/m3	<	5.9	U		**460**		<	3.5	U	<	4.2	U	<	2.2	U		**93**		<	3.5	U	<	3.5	U	<	2.3	U	<	3	U	<	6.7	U
		EN04-1D	23	15-Nov-04	EN041D111504	Summa Canister	20.4	0.4	0.0	1.68	Y	N	5.5E-05		µg/m3		6.9			**270**		<	3.3	U	<	3.3	U	<	2.1	U		**56**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-1D Dup.	23	15-Nov-04	DU33391111504	Summa Canister	20.4	0.4	0.0	1.83	N	N	7.1E-05		µg/m3	<	6.2	U		**300**		<	3.6	U	<	3.6	U	<	2.3	U		**63**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-1D	23	7-Dec-04	EN041D120704	Summa Canister	20.7	0.1	0.0	1.61	N	N	3.1E-05		µg/m3	<	5.5	U		**460**		<	3.2	U	<	3.2	U	<	2.0	U		**93**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-1D	23	10-Jan-05	EN041D011005	Summa Canister	20.7	0.0	0.1	1.68	N	N			µg/m3	<	5.7	U		**450**		<	3.3	U	<	3.3	U	<	2.1	U		**69**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-1D Dup.	23	10-Jan-05	DU30826011005	Summa Canister	20.7	0.0	0.1	1.71	N	N			µg/m3	<	5.8	U		**460**		<	3.4	U	<	3.4	U	<	2.2	U		**73**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-1D	23	21-Feb-05	EN041D022105	Summa Canister	20.4	0.2	0.4	1.75	N	N			µg/m3	<	5.9	U		**360**		<	3.5	U	<	3.5	U	<	2.2	U		**54**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-1D	23	21-Mar-05	EN041D032105	Summa Canister	20.3	0.1	0.0	1.68	N	N			µg/m3	<	5.7	U		**350**		<	3.3	U	<	3.3	U	<	2.1	U		**55**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-1D	23	18-Apr-05	EN041D041805	Summa Canister	19.6	0.1	0.0	1.83	N	N			µg/m3	<	6.2	U		**220**		<	3.6	U	<	3.6	U	<	2.3	U		**34**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-1D	23	23-May-05	EN041D052305	Summa Canister	20.4	0.1	0.1	1.58	N	N			µg/m3	<	5.4	U		**200**		<	3.1	U	<	3.1	U	<	2.0	U		**32**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-1 Continued		EN04-1D	23	21-Jun-05	EN041D062105	Summa Canister	20.3	0.0	0.0	2.51	N	N			µg/m3	<	8.5	UJ		**220**	J	<	5.0	UJ	<	5.0	UJ	<	3.2	UJ		**37**	J	<	5.0	UJ	<	5.1	UJ	<	3.3	UJ	<	4.4	UJ	<	9.6	UJ
		EN04-1D	23	5-Jul-05	EN041D070505	Summa Canister	20.2	0.0	0.0	1.96	N	N			µg/m3	<	6.6	U		**240**		<	3.9	U	<	3.9	U	<	2.5	U		**48**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.4	U	<	7.5	U
		EN04-1D	23	22-Aug-05	EN041D082205	Summa Canister	19.6	0.2	1.3	1.91	N	N			µg/m3	<	6.5	U		**380**		<	3.8	U	<	3.8	U	<	2.4	U		**65**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-1D	23	19-Sep-05	EN041D091905	Summa Canister	19.7	0.5	0.0	1.61	N	N			µg/m3	<	5.5	U		**340**		<	3.2	U	<	3.2	U	<	2.0	U		**68**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-1D	23	10-Oct-05	EN041D1010105	Summa Canister	20.3	0.6	0.0	1.71	N	N			µg/m3	<	5.8	U		**360**		<	3.4	U	<	3.4	U	<	2.2	U		**75**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-1D	23	12-Dec-05	EN041D121205	Summa Canister	20.4	0.0	0.0	1.68	N	N			µg/m3	<	5.7	U		**260**		<	3.3	U	<	3.3	U	<	2.1	U		**50**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-1D	23	14-Feb-06	EN041D021406	Summa Canister	19.9	0.0	0.0	2.29	N	N			µg/m3	<	7.8	U		**270**		<	4.5	U	<	4.5	U	<	2.9	U		**39**		<	4.5	U	<	4.6	U	<	3.0	U	<	4.0	U	<	8.8	U
		EN04-1D	23	3-Apr-06	EN041D040306	Summa Canister	20.7	0.2	0.0	1.75	N	N			µg/m3	<	5.9	U		**240**		<	3.5	U	<	3.5	U	<	2.2	U		**35**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-1D	23	19-Jun-06	EN041D061906	Summa Canister	18.9	0.5	0.0	1.83	N	N			µg/m3	<	6.2	U		**210**		<	3.6	U	<	3.6	U	<	2.3	U		**36**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-1D	23	14-Aug-06	EN041D081406	Summa Canister	20.5	0.1	0.0	2.49	N	N			µg/m3	<	8.4	U		**220**		<	4.9	U	<	4.9	U	<	3.2	U		**40**		<	4.9	U	<	5.0	U	<	3.3	U	<	4.3	U	<	9.5	U
Implant Location	**EN04-2**	EN04-2S	8	26-Aug-04	EN042S082604	Summa canister	19.6	0.2	0.0	1.91	Y	N	2.4E-02		µg/m3	<	6.6	U		**24**		<	3.8	U	<	3.8	U	<	2.5	U	<	5.3	U	<	3.8	U	<	3.9	U	<	2.6	U		**4.2**		<	7.4	U
Monitoring Well	**EN-450**	EN04-2S	8	21-Sep-04	EN042S092104	Summa canister	19.4	0.1	0.0	1.83	N	N	ND		µg/m3		**7.4**			**30**		<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.4	U	<	3.2	U	<	7.1	U
Water Table Depth (ft)	*25*	EN04-2S	8	18-Oct-04	EN042S101804	Summa canister	21.7	0.0	0.0	7.75	N	N	ND		µg/m3	<	5.2	U		**16**		<	3.1	U	<	3.7	U	<	2	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
Total VOCs	*170*	EN04-2S	8	15-Nov-04	EN042S111504	Summa canister	20.8	0.0	0.0	1.79	N	N	1.5E-07		µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
Sum Ethenes	*150*	EN04-2S Dup.	8	15-Nov-04	DU94104111504	Summa canister	20.8	0.0	0.0	1.71	N	N	1.6E-07		µg/m3	<	5.8	U		**14**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Sum Ethanes	*20*	EN04-2S	8	6-Dec-04	EN042S120604	Summa Canister	20.7	0.0	0.0	1.68	N	N	ND		µg/m3	<	5.7	U		**14**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Other		EN04-2S	8	10-Jan-05	EN0402S011005	Summa Canister	20.7	0.0	0.2	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-2S	8	21-Feb-05	EN042S022105	Summa canister	20.6	0.0	0.4	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-2S	8	22-Mar-05	EN042S032205	Summa Canister	20.8	0.0	0.0	1.68	N	Y	ND		µg/m3	<	5.7	U		**4.5**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-2S	8	18-Apr-05	EN042S041805	Summa Canister	20.6	0.0	0.0	1.68	N	Y	ND		µg/m3	<	5.7	U		**6.6**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-2S	8	23-May-05	EN042S052305	Summa Canister	18.6	0.2	0.0	1.68	N	N			µg/m3	<	5.7	U		**5.5**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-2S	8	21-Jun-05	EN042S062105	Summa Canister	19.5	0.3	0.0	1.68	N	N			µg/m3		**6.7**			**15**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U		**3.5**		<	6.4	U
		EN04-2S	8	5-Jul-05	EN042S070505	Summa Canister	19.2	0.3	0.0	1.87	N	N			µg/m3	<	6.3	U		**16**		<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-2S	8	23-Aug-05	EN042S082305	Summa Canister	19.1	0.3	0.0	1.68	N	N			µg/m3	<	5.7	U		**14**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-2S	8	23-Aug-05	DU33392082305	Summa Canister	19.1	0.3	0.0	1.87	N	N			µg/m3	<	6.3	U		**16**		<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-2S	8	19-Sep-05	EN042S091905	Summa Canister	20.4	0.0	0.0	1.87	N	N			µg/m3	<	6.3	U		**16**		<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-2S	8	10-Oct-05	EN042S101005	Summa Canister	20.4	0.0	0.0	2.06	N	N			µg/m3	<	7.0	U		**9.9**		<	4.1	U	<	4.1	U	<	2.6	U	<	5.6	U	<	4.1	U	<	4.2	U	<	2.7	U	<	3.6	U	<	7.9	U
		EN04-2S	8	12-Dec-05	EN042S121205	Summa Canister	20.4	0.1	0.1	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-2S	8	14-Feb-06	EN042S021406	Summa Canister	21.1	0.0	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-2S	8	03-Apr-06	EN042S040306	Summa Canister	20.1	0.0	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-2S	8	19-Jun-06	EN042S061906	Summa Canister	21.9	0.3	0.0	1.91	N	N			µg/m3	<	6.5	U		**5.5**		<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-2S	8	14-Aug-06	EN042S081406	Summa Canister	20.2	0.4	0.0	1.75	N	N			µg/m3	<	5.9	U		**11**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-2D	20	26-Aug-04	EN042D082604	Summa canister	19.5	0.3	0.0	1.75	Y	N	2.1E-06		µg/m3		**70**			**1,300**			**30**		<	3.5	U	<	2.3	U		**69**			**4.3**			**15**		<	2.3	U		**8.1**		<	6.8	U
		EN04-2D	20	21-Sep-04	EN042D092104	Summa canister	20.5	0.3	0.0	1.79	N	N	4.7E-07		µg/m3		**100**			**1,600**			**29**		<	3.6	U	<	2.3	U		**86**		<	3.6	U		**14**		<	2.4	U	<	3.2	U	<	7.0	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethene		1,1-Dichloroethane		Chloroethane		Methylene Chloride		Freon 113	
EN04-2 Continued		EN04-2D	20	18-Oct-04	EN042D101804	Summa canister	21.5	0.2	0.0	17.1	N	N	ND		µg/m3		**120**		**1,600**		**27**	<	8.1	U	<	4.4	U		**80**	<	6.8	U		**14**	<	4.5	U	<	5.9	U	<	13	U
		EN04-2D	20	15-Nov-04	EN042D111504	Summa canister	20.5	0.3	0.0	1.79	N	N	ND		µg/m3		**100**		**1,600**		**25**	<	3.5	U	<	2.3	U		**80**	<	3.5	U		**12**	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-2D	20	6-Dec-04	EN042D120604	Summa Canister	NR	NR	NR	1.75	N	N	8.4E-08		µg/m3		**91**		**1,300**		**24**	<	3.5	U	<	2.2	U		**68**	<	3.5	U		**11**	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-2D	20	10-Jan-05	EN0402D011005	Summa Canister	20.6	0.2	0.1	1.61	N	N			µg/m3		**72**		**1,000**		**13**	<	3.2	U	<	2.0	U		**47**	<	3.2	U		**7.5**	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-2D	20	21-Feb-05	EN042D022105	Summa canister	20.4	0.1	0.4	1.68	N	N			µg/m3		**42**		**440**		**5.8**	<	3.3	U	<	2.1	U		**32**	<	3.3	U	<	**3.4**	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-2D	20	22-Mar-05	EN042D032205	Summa Canister	20.8	0.0	0.0	1.75	N	N			µg/m3		**38**		**390**		**4.5**	<	3.5	U	<	2.2	U		**18**	<	3.5	U	<	**3.5**	U	<	2.3	U	<	3	U	<	6.7	U
		EN04-2D Dup.	20	22-Mar-05	DU12356032205	Summa Canister	20.8	0.0	0.0	1.75	N	N			µg/m3		**35**		**380**		**4.5**	<	3.5	U	<	2.2	U		**17**	<	3.5	U	<	**3.5**	U	<	2.3	U	<	3	U	<	6.7	U
		EN04-2D	20	18-Apr-05	EN042D041805	Summa Canister	20.8	0.0	0.0	1.71	N	N			µg/m3		**21**		**230**	<	**3.4**	U	<	3.4	U	<	2.2	U	<	**4.7**	U	<	3.4	U	<	**3.5**	U	<	2.2	U	<	3	U	<	6.6	U
		EN04-2D	20	23-May-05	EN042D052305	Summa Canister	18.7	0.2	0.0	1.79	N	N			µg/m3		**29**		**320**		**6.5**	<	3.5	U	<	2.3	U		**24**	<	3.5	U		**3.6**	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-2D	20	21-Jun-05	EN042D062105	Summa Canister	19.7	0.2	0.0	1.75	N	N			µg/m3		**46**		**550**		**11**	<	3.5	U	<	2.2	U		**36**	<	3.5	U		**6.6**	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-2D	20	5-Jul-05	EN042D070505	Summa Canister	19.2	0.3	0.0	1.87	N	N			µg/m3		**45**		**550**		**16**	<	3.7	U	<	2.4	U		**45**	<	3.7	U		**8.0**	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-2D	20	23-Aug-05	EN042D082305	Summa Canister	19.1	0.3	0.0	1.71	N	N			µg/m3		**40**		**450**		**9.4**	<	3.4	U	<	2.2	U		**21**	<	3.4	U		**7.0**	<	2.2	U	<	3	U	<	6.6	U
		EN04-2D	20	23-Aug-05	DU37658082305	Summa Canister	19.1	0.3	0.0	1.83	N	N			µg/m3		**41**		**480**		**9**	<	3.6	U	<	2.3	U		**21**	<	3.6	U		7.0	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-2D	20	19-Sep-05	EN042D091905	Summa Canister	20.4	0.0	0.0	1.79	N	N			µg/m3		**23**		**200**	<	**3.5**	U	<	3.5	U	<	2.3	U	<	**4.9**	U	<	3.5	U	<	**3.6**	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-2D	20	10-Oct-05	EN042D101005	Summa Canister	20.3	0.0	0.0	1.64	N	N			µg/m3		**17**		**120**	<	**3.2**	U	<	3.2	U	<	2.1	U	<	**4.5**	U	<	3.2	U	<	**3.3**	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-2D	20	12-Dec-05	EN042D121205	Summa Canister	20.4	0.1	0.1	1.79	N	N			µg/m3		**32**		**350**		**8.6**	<	3.5	U	<	2.3	U		**22**	<	3.5	U		**4.7**	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-2D	20	14-Feb-06	EN042D021406	Summa Canister	21.1	0.1	0.0	1.61	N	N			µg/m3		**49**		**480**		**8.2**	<	3.2	U	<	2.0	U		**21**	<	3.2	U		**3.7**	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-2D	20	3-Apr-06	EN042D040306	Summa Canister	20.1	0.0	0.0	1.83	N	N			µg/m3		**34**		**350**		**6.6**	<	3.6	U	<	2.3	U		**18**	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-2D	20	19-Jun-06	EN042D061906	Summa Canister	21.9	0.3	0.0	2.12	N	N			µg/m3		**22**		**230**		**4.8**	<	4.2	U	<	2.7	U		**12**	<	4.2	U	<	4.3	U	<	2.8	U	<	3.7	U	<	8.1	U
		EN04-2D	20	14-Aug-06	EN042D081406	Summa Canister	19.8	0.4	0.0	1.87	N	N			µg/m3		**48**		**390**		**8.3**	<	3.7	U	<	2.4	U		**24**	<	3.7	U		**5.6**	<	2.5	U	<	3.2	U	<	7.2	U
Implant Location	**EN04-3**	EN04-3S	8	23-Aug-04	EN043S082304	Summa canister	19.2	0.4	0.0	2.17	Y	N	1.1E-05		µg/m3	<	7.5	U	<	5.9	U	<	4.4	U	<	4.4	U	<	2.8	U	<	6.0	U	<	4.4	U	<	4.5	U	<	2.9	U	<	3.8	U	<	8.4	U
Monitoring Well	**EN-203**	EN04-3S	8	22-Sep-04	EN043S092204	Summa canister	19.3	0.4	0.0	1.68	N	N	1.2E-04		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	3.0	UJ	<	6.5	U
Water Table Depth (ft)	*24*	EN04-3S	8	20-Oct-04	EN043S102004	Summa canister	21.7	0.2	0.0	8.2	N	N	1.9E-06		µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.9	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Total VOCs	*10*	EN04-3S Dup.	8	20-Oct-04	DU34617102004	Summa canister	21.7	0.2	0.0	8.4	N	N	2.2E-06		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	4.0	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Sum Ethenes	*10*	EN04-3S	8	15-Nov-04	EN043S111504	Summa canister	20.7	0.2	0.0	1.71	N	N	ND		µg/m3	<	5.8	U		**10**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Sum Ethanes	*<1*	EN04-3S	8	7-Dec-04	EN043S120704	Summa Canister	20.8	0.0	0.0	1.55	N	N	ND		µg/m3	<	5.2	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
Other		EN04-3S	8	11-Jan-05	EN043S011105	Summa Canister	20.8	0.0	0.1	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-3S	8	21-Feb-05	EN0403S022105	Summa Canister	20.5	0.1	0.4	1.55	N	N			µg/m3	<	5.2	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2	U		**2.8**		<	5.9	U
		EN04-3S	8	24-Mar-05	EN0430D032405	Summa Canister	20.5	0.0	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-3S	8	18-Apr-05	EN043S041805	Summa Canister	20.0	0.1	0.0	1.83	N	N			µg/m3	<	6.2	U		**6.6**		<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-3S Dup.	8	18-Apr-05	DU12355041805	Summa Canister	20.0	0.1	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-3S	8	23-May-05	EN043S052305	Summa Canister	20.7	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-3S Dup.	8	23-May-05	DU25283052305	Summa Canister	20.7	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-3S	8	21-Jun-05	EN043S062105	Summa Canister	20.3	0.0	0.0	1.91	N	N			µg/m3	<	6.5	U	<	5.1	U	<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-3 Continued	EN04-3S	8	6-Jul-05	EN043S070605	Summa Canister	20.3	0.1	0.0	1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-3S	8	22-Aug-05	EN043S082205	Summa Canister	20.4	0.2	0.0	1.87	N	N			µg/m3	< 6.3 U	< 5.0 U	< 3.7 U	< 3.7 U	< 2.4 U	< 5.1 U	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
	EN04-3S	8	19-Sep-05	EN043S091905	Summa Canister	19.8	0.2	0.0	1.87	N	N			µg/m3	< 6.3 U	< 5.0 U	< 3.7 U	< 3.7 U	< 2.4 U	< 5.1 U	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
	EN04-3S	8	10-Oct-05	EN043S101005	Summa Canister	20.5	0.3	0.0	1.58	N	N			µg/m3	< 5.4 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.3 U	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
	EN04-3S	8	10-Oct-05	DU2053101005	Summa Canister	20.5	0.3	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-3S	8	12-Dec-05	EN043S121205	Summa Canister	20.3	0.1	0.0	1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-3S Dup.	8	12-Dec-05	DU34641121205	Summa Canister	20.3	0.1	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-3S	8	14-Feb-06	EN043S021406	Summa Canister	19.7	0.0	0.0	1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-3S Dup.	8	14-Feb-06	DU9476021406	Summa Canister	19.7	0.0	0.0	1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-3S	8	3-Apr-06	EN043S040306	Summa Canister	20.8	0.0	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-3S Dup.	8	3-Apr-06	DU34605040306	Summa Canister	20.8	0.0	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-3S	8	19-Jun-06	EN043S061906	Summa Canister	20.5	0.0	0.0	1.87	N	N			µg/m3	< 6.3 U	< 5.0 U	< 3.7 U	< 3.7 U	< 2.4 U	< 5.1 U	< 3.7 U	< 3.8 U	**10**	< 3.2 U	< 7.2 U
	EN04-3S	8	14-Aug-06	EN043S081406	Summa Canister	21.4	0.0	0.0	1.83	N	N			µg/m3	**28** J	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-3S Dup	8	14-Aug-06	DU34165081406	Summa Canister	21.4	0.0	0.0	1.83	N	N			µg/m3	< 6.2 UJ	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-3D	19	23-Aug-04	EN043D082304	Summa canister	19.4	0.2	0.0	2.17	Y	N	5.6E-06		µg/m3	< 7.5 U	< 5.9 U	< 4.4 U	< 4.4 U	< 2.8 U	< 6.0 U	< 4.4 U	< 4.5 U	< 2.9 U	**3.8**	< 8.4 U
	EN04-3D	19	22-Sep-04	EN043D092204	Summa canister	19.3	0.4	0.0	1.68	N	N	9.0E-05		µg/m3	< 5.8 U	**8.2**	< 3.4 U	< 3.4 U	< 2.2 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 3.0 UJ	< 6.5 U
	EN04-3D	19	20-Oct-04	EN043D102004	Summa canister	21.7	0.1	0.0	5.06	N	N	1.6E-06		µg/m3	< 3.4 U	**4.7**	< 2.0 U	< 2.4 U	< 1.3 U	< 2.8 U	< 2.0 U	< 2.0 U	< 1.3 U	< 1.8 U	< 3.9 U
	EN04-3D	19	15-Nov-04	EN043D111504	Summa canister	20.7	0.2	0.0	1.75	N	N	1.8E-06		µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-3D	19	7-Dec-04	EN043D120704	Summa Canister	20.9	0.0	0.0	1.55	N	N	4.9E-08		µg/m3	< 5.2 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 2.7 U	< 5.9 U
	EN04-3D	19	11-Jan-05	EN043D011105	Summa Canister	20.8	0.0	0.0	1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-3D	19	21-Feb-05	EN043D023105	Summa Canister	20.1	0.0	0.0	1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-3D	19	24-Mar-05	EN043D032405	Summa Canister	20.5	0.0	0.0	1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-3D	19	18-Apr-05	EN043D041805	Summa Canister	20.0	0.0	0.0	1.87	N	N			µg/m3	< 6.3 U	< 5.0 U	< 3.7 U	< 3.7 U	< 2.4 U	< 5.1 U	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
	EN04-3D	19	23-May-05	EN043D052305	Summa Canister	20.9	0.0	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-3D	19	21-Jun-05	EN043D062105	Summa Canister	20.6	0.0	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-3D	19	6-Jul-05	EN043D070605	Summa Canister	20.4	0.0	0.0	2.68	N	N			µg/m3	< 9.1 U	< 7.2 U	< 5.3 U	< 5.3 U	< 3.4 U	< 7.3 U	< 5.3 U	< 5.4 U	< 3.5 U	< 4.6 U	< 10 U
	EN04-3D	19	22-Aug-05	EN043D082205	Summa Canister	20.3	0.0	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-3D	19	19-Sep-05	EN043D091905	Summa Canister	19.9	0.2	0.0	1.96	N	N			µg/m3	< 6.6 U	< 5.3 U	< 3.9 U	< 3.9 U	< 2.5 U	< 5.3 U	< 3.9 U	< 4.0 U	< 2.6 U	< 3.4 U	< 7.5 U
	EN04-3D	19	10-Oct-05	EN043D101005	Summa Canister	20.6	0.1	0.0	2.12	N	N			µg/m3	< 7.2 U	< 5.7 U	< 4.2 U	< 4.2 U	< 2.7 U	< 5.8 U	< 4.2 U	< 4.3 U	< 2.8 U	< 3.7 U	< 8.1 U
	EN04-3D	19	12-Dec-05	EN043D121205	Summa Canister	20.0	0.1	0.0	1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-3D	19	14-Feb-06	EN043D02146	Summa Canister	19.6	0.0	0.0	1.61	N	N			µg/m3	**6.9**	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-3D	19	3-Apr-06	EN043D040306	Summa Canister	20.9	0.0	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-3D Dup.	19	3-Apr-06	DU34648040306	Summa Canister	20.9	0.0	0.0	1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-3D	19	19-Jun-06	EN043D061906	Summa Canister	20.5	0.0	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-3 Continued		EN04-3D	19	14-Aug-06	EN043D081406	Summa Canister	21.3	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U		**5.1**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Implant Location	**EN04-4**	EN04-4S	8	23-Aug-04	EN044S082304	Summa canister	17.6	1.6	0.0	1.96	Y	N	1.2E+00	x	µg/m3	<	6.8	UJ	<	5.4	UJ	<	3.9	UJ	<	3.9	UJ	<	2.5	UJ	<	5.4	UJ	<	3.9	UJ	<	4.0	UJ	<	2.6	UJ	<	3.5	UJ	<	7.6	UJ
Monitoring Well	**EN-022**	EN04-4S	8	21-Sep-04	EN044S092104	Summa canister	19.4	0.3	0.1	1.87	Y	N	6.2E-04		µg/m3	<	6.4	U	<	5.1	U	<	3.8	U	<	3.8	U	<	2.4	U		**5.6**		<	3.8	U	<	3.8	U	<	2.5	U	<	3.3	UJ	<	7.3	U
Water Table Depth (ft)	*23*	EN04-4S	8	23-Sep-04	EN044S092304	Summa canister	16.5	2.4	0.0	2.71	Y	N	4.5E-03		µg/m3	<	9.3	U	<	7.4	U	<	5.5	U	<	5.5	U	<	3.5	U	<	7.5	U	<	5.5	U	<	5.6	U	<	3.6	U	<	4.8	U	<	10	U
Total VOCs	*<1*	EN04-4S	8	19-Oct-04	EN044S101904	Summa canister	18.2	0.9	0.0	8.75	Y	N	2.7E-04		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	4.2	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Sum Ethenes	*<1*	EN04-4S	8	15-Nov-04	EN044S111504	Summa Canister	20.0	0.8	0.0	1.68	N	N	5.4E-05		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Sum Ethanes	*<1*	EN04-4S	8	7-Dec-04	EN044S120704	Summa Canister	19.5	1.0	0.0	1.52	N	N	4.4E-05		µg/m3	<	5.2	U	<	4.1	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
Other		EN04-4S	8	10-Jan-05	EN0404S011005	Summa Canister	19.8	1.1	0.1	1.41	N	N			µg/m3	<	4.8	U	<	3.8	U	<	2.8	U	<	2.8	U	<	1.8	U	<	3.8	U	<	2.8	U	<	2.8	U	<	1.9	U	<	2.4	U	<	5.4	U
		EN04-4S	8	21-Feb-05	ENO44S022105	Summa canister	20.1	0.6	0.3	1.58	N	N			µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-4S	8	23-Mar-05	EN044S032305	Summa Canister	20.4	0.6	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-4S	8	18-Apr-05	EN044S041805	Summa Canister	20.3	0.6	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-4S Dup.	8	18-Apr-05	DU34122041805	Summa Canister	20.3	0.6	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-4S	8	23-May-05	EN044S052305	Summa Canister	17.8	1.4	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U		**2.9**		<	6.2	U
		EN04-4S	8	21-Jun-05	EN044S062105	Summa Canister	18.8	1.3	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-4S	8	6-Jul-05	EN044S070605	Summa Canister	18.2	1.7	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-4S	8	22-Aug-05	EN044S082205	Summa Canister	17.6	2.0	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U		**5.9**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-4S	8	19-Sep-05	EN044S091905	Summa Canister	18.9	1.6	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-4S	8	10-Oct-05	EN044S101005	Summa Canister	19.0	1.6	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-4S Dup.	8	10-Oct-05	DU31779101005	Summa Canister	19.0	1.6	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-4S	8	12-Dec-05	EN044S121205	Summa Canister	19.9	0.7	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-4S	8	14-Feb-06	EN044S021406	Summa Canister	20.5	0.6	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-4S Dup.	8	14-Feb-06	DU34624021406	Summa Canister	20.5	0.6	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-4S	8	3-Apr-06	EN044S040306	Summa Canister	19.9	0.4	0.0	1.75	N	Y	ND		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-4S	8	19-Jun-06	EN044S061906	Summa Canister	20.8	1.3	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-4S Dup.	8	19-Jun-06	DU34668061906	Summa Canister	20.8	1.3	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-4S	8	14-Aug-06	EN044S081406	Summa Canister	19.3	1.0	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-4D	17	23-Aug-04	EN044D082304	Summa Canister	17.0	1.8	0.0	2.12	Y	N	4.2E-07		µg/m3	<	7.3	UJ	<	5.8	UJ	<	4.3	UJ	<	4.3	UJ	<	2.8	UJ		8.3	UJ	<	4.3	UJ	<	4.4	UJ	<	2.8	UJ	<	3.7	UJ	<	8.2	UJ
		EN04-4D	17	21-Sep-04	EN044D092104	Summa Canister	16.6	2.3	0.0	1.91	Y	N	5.0E-05		µg/m3	<	6.6	U	<	5.2	U	<	3.8	U	<	3.8	U	<	2.5	U		**11**		<	3.8	U	<	3.9	U	<	2.6	U	<	3.4	UJ	<	7.4	U
		EN04-4D	17	19-Oct-04	EN044D101904	Summa Canister	17.6	2.4	0.0	9.35	Y	N	2.5E-04		µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	4.4	U	<	2.4	U		**9.9**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-4D	17	15-Nov-04	EN044D111504	Summa Canister	18.2	2.5	0.0	1.61	N	N	2.7E-04		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U		**10**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-4D	17	7-Dec-04	EN044D120704	Summa Canister	19.0	1.7	0.0	1.55	N	N	9.8E-05		µg/m3	<	5.2	U		**5.9**		<	3.1	U	<	3.1	U	<	2.0	U		**10**		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
		EN04-4D	17	10-Jan-05	EN044D011005	Summa Canister	19.3	1.8	0.1	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U		**9.0**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-4D Dup.	17	10-Jan-05	DU34089011005	Summa Canister	19.3	1.8	0.1	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U		**8.9**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-4 Continued	EN04-4D	17	21-Feb-05	EN044D022105	Summa Canister	19.7	1.2	0.4	1.52	N	N			µg/m3	<	5.2	U	<	4.1	U	<	3.0	U	<	3.0	U	<	1.9	U		**9.1**		<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
	EN04-4D	17	23-Mar-05	EN044D032305	Summa Canister	19.7	1.0	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U		**6.3**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-4D Dup.	17	23-Mar-05	DU33392032305	Summa Canister	19.7	1.0	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U		**6.3**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-4D	17	18-Apr-05	EN044D041805	Summa Canister	20.1	0.8	0.0	1.91	N	N			µg/m3	<	6.5	U	<	5.1	U	<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U		**37**		<	7.3	U
	EN04-4D	17	23-May-05	EN044D052305	Summa Canister	17.8	1.2	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-4D	17	21-Jun-05	EN044D062105	Summa Canister	18.8	1.1	0.0	1.75	N	N			µg/m3		**11**			**5.7**		<	3.5	U	<	3.5	U		**4.2**		<	4.8	U	<	3.5	U	<	3.5	U		**5.7**			**20**	J	<	6.7	U
	EN04-4D Dup.	17	21-Jun-05	DU23830062105	Summa Canister	18.8	1.1	0.0	1.91	N	N			µg/m3	<	6.5	U	<	5.1	U	<	3.8	U	<	3.8	U	<	2.4	U		**5.5**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	UJ	<	7.3	U
	EN04-4D	17	6-Jul-05	EN044D070605	Summa Canister	17.9	1.5	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U		**6.0**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-4D	17	22-Aug-05	EN044D082205	Summa Canister	17.6	2.0	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U		**7.9**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-4D	17	19-Sep-05	EN044D091905	Summa Canister	18.6	1.8	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U		**4.9**		<	3.4	U	<	3.5	U	<	2.2	U		**18**		<	6.6	U
	EN04-4D	17	10-Oct-05	EN044D101005	Summa Canister	18.9	2.0	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U		**7.9**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-4D	17	12-Dec-05	EN044D121205	Summa Canister	19.5	1.3	0.0	1.55	N	N			µg/m3	<	5.2	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U		**5.7**		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
	EN04-4D	17	14-Feb-06	EN044D021406	Summa Canister	20.5	1.0	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-4D	17	3-Apr-06	EN044D040306	Summa Canister	19.8	0.7	0.0	1.64	N	Y	ND		µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-4D	17	19-Jun-06	EN044D061906	Summa Canister	21	1.1	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-4D	17	14-Aug-06	EN044D081406	Summa Canister	17.8	1.7	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Implant Location **EN04-5**	EN04-5S	8	24-Aug-04	EN045S082404	Summa Canister	17.1	2.5	0.0	1.91	Y	N	1.2E-06		µg/m3	<	6.6	U		**440**		<	3.8	U	<	3.8	U	<	2.5	U		**47**			**8.0**		<	3.9	U	<	2.6	U		**6.5**	EB	<	7.4	U
Monitoring Well **EN-459**	EN04-5S	8	21-Sep-04	EN045S092104	Summa Canister	17.6	2.3	0.0	1.91	N	N	1.2E-07		µg/m3	<	6.6	U		**600**		<	3.8	U	<	3.8	U	<	2.5	U		**68**		<	3.8	U	<	3.9	U	<	2.6	U	<	3.4	U	<	7.4	U
Water Table Depth (ft) *39*	EN04-5S Dup.	8	21-Sep-04	DU33715092104	Summa Canister	17.6	2.3	0.0	1.91	N	N	1.3E-07		µg/m3	<	6.6	U		**600**		<	3.8	U	<	3.8	U	<	2.5	U		**64**		<	3.8	U	<	3.9	U	<	2.6	U	<	3.4	U	<	7.4	U
Total VOCs *6*	EN04-5S	8	20-Oct-04	EN045S102004	Summa Canister	19.6	1.8	0.0	8.2	N	N	4.1E-08		µg/m3	<	5.6	U		**420**		<	3.2	U	<	3.9	U	<	2.1	U		**38**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethenes *6*	EN04-5S	8	16-Nov-04	EN045S111604	Summa Canister	19.4	1.6	0.0	1.75	N	N	9.7E-08		µg/m3	<	5.9	U		**320**		<	3.5	U	<	3.5	U	<	2.2	U		**36**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Sum Ethanes *<1*	EN04-5S	8	8-Dec-04	EN045S120804	Summa Canister	19.9	0.9	0.0	1.64	N	N	ND		µg/m3	<	5.6	U		**200**		<	3.2	U	<	3.2	U	<	2.1	U		**27**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Other	EN04-5S	8	12-Jan-05	EN045S011205	Summa Canister	20.5	0.0	0.1	1.68	N	N			µg/m3	<	5.7	U		**160**		<	3.3	U	<	3.3	U	<	2.1	U		**18**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-5S	8	22-Feb-05	EN045S022205	Summa Canister	19.9	0.1	0.0	1.58	N	N			µg/m3	<	5.4	U		**120**		<	3.1	U	<	3.1	U	<	2.0	U		**13**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-5S	8	24-Mar-05	EN045S032405	Summa Canister	20.2	0.6	0.0	1.64	N	N			µg/m3	<	5.6	U		**130**		<	3.2	U	<	3.2	U	<	2.1	U		**18**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-5S	8	19-Apr-05	EN045S041905	Summa Canister	19.3	0.8	0.0	1.75	N	N			µg/m3	<	5.9	U		**130**		<	3.5	U	<	3.5	U	<	2.2	U		**13**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-5S	8	24-May-05	EN045S052405	Summa Canister	19.7	1.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**220**		<	3.4	U	<	3.4	U	<	2.2	U		**18**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-5S	8	22-Jun-05	EN045S062205	Summa Canister	19.2	1.4	0.0	1.96	N	N			µg/m3	<	6.6	U		**350**		<	3.9	U	<	3.9	U	<	2.5	U		**22**			**4.2**		<	4.0	U	<	2.6	U		**11**		<	7.5	U
	EN04-5S	8	6-Jul-05	EN045S070605	Summa Canister	19.2	1.5	0.0	1.83	N	N			µg/m3	<	6.2	U		**400**		<	3.6	U	<	3.6	U	<	2.3	U		**28**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-5S	8	23-Aug-05	EN045S082305	Summa Canister	18.4	1.9	0.0	1.68	N	N			µg/m3		**7.0**			**680**		<	3.3	U	<	3.3	U	<	2.1	U		**39**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-5S	8	19-Sep-05	EN045S091905	Summa Canister	19.2	1.7	0.0	1.87	N	N			µg/m3	<	6.3	U		**470**		<	3.7	U	<	3.7	U	<	2.4	U		**31**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-5S Dup.	8	19-Sep-05	DU94925091905	Summa canister	19.2	1.7	0.0	1.71	N	N			µg/m3		**5.8**	J		**470**		<	3.4	U	<	3.4	U	<	2.2	U		**31**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-5S	8	12-Oct-05	EN045S101205	Summa Canister	19.6	1.7	0.0	1.79	N	N			µg/m3	<	6.1	U		**360**		<	3.5	U	<	3.5	U	<	2.3	U		**26**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-5S	8	13-Dec-05	EN045S121305	Summa Canister	19.7	1.1	0.0	1.64	N	N			µg/m3	<	5.6	U		**100**		<	3.2	U	<	3.2	U	<	2.1	U		**11**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U

Table B.1
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-5 Continued		EN04-5S	8	15-Feb-06	EN045S021506	Summa Canister	19.6	0.0	0.0	1.61	N	N			µg/m3	<	5.5	U		**90**		<	3.2	U	<	3.2	U	<	2.0	U		**11**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-5S	8	4-Apr-06	EN045S040406	Summa Canister	20.7	0.7	0.0	1.64	N	N			µg/m3	<	5.6	U		**140**		<	3.2	U	<	3.2	U	<	2.1	U		**15**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-5S	8	20-Jun-06	EN045S062006	Summa Canister	19.4	1.3	0.0	1.75	N	N			µg/m3	<	5.9	U		**280**		<	3.5	U	<	3.5	U	<	2.2	U		**21**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-5S	8	15-Aug-06	EN045S081506	Summa Canister	18.9	2.4	0.0	1.64	N	N			µg/m3		**5.6**			**480**		<	3.2	U	<	3.2	U	<	2.1	U		**26**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-5D	34	24-Aug-04	EN045D082404	Summa Canister	18.6	1.3	0.0	4.12	Y	N	3.3E-06		µg/m3	<	14	U		**3,600**			**22**		<	8.3	U	<	5.4	U		**270**			**13**	J	<	8.5	U	<	5.5	U	<	7.3	U	<	16	U
		EN04-5D	34	21-Sep-04	EN045D092104	Summa Canister	18.2	1.4	0.0	7.16	N	N	ND		µg/m3	<	25	U		**4,800**			**26**		<	14	U	<	9.3	U		**340**		<	14	U	<	15	U	<	9.6	U	<	13	U	<	28	U
		EN04-5D	34	20-Oct-04	EN045D102004	Summa Canister	19.8	1.5	0.0	46.8	N	N	4.5E-08		µg/m3	<	32	U		**3,800**		<	18	U	<	22	U	<	12	U		**210**		<	18	U	<	19	U	<	12	U	<	16	U	<	36	U
		EN04-5D	34	16-Nov-04	EN045D111604	Summa Canister	18.6	2.0	0.0	7	N	N	6.0E-08		µg/m3	<	24	U		**4,500**			**23**		<	14	U	<	8.9	U		**300**		<	14	U	<	14	U	<	9.2	U	<	12	U	<	27	U
		EN04-5D	34	8-Dec-04	EN045D120804	Summa Canister	19.0	1.6	0.0	6.44	N	N	ND		µg/m3	<	22	U		**4,000**			**23**		<	13	U	<	8.2	U		**280**		<	13	U	<	13	U	<	8.5	U	<	11	U	<	25	U
		EN04-5D	34	12-Jan-05	EN045D011205	Summa Canister	20.6	0.0	0.0	6.56	N	N			µg/m3	<	22	U		**5,400**			**25**		<	13	U	<	8.4	U		**290**		<	13	U	<	13	U	<	8.6	U	<	11	U	<	25	U
		EN04-5D	34	22-Feb-05	EN045D022205	Summa Canister	19.8	1.6	0.0	6.44	N	N			µg/m3	<	22	U		**5,100**			**21**		<	13	U	<	8.2	U		**250**		<	13	U	<	13	U	<	8.5	U	<	11	U	<	25	U
		EN04-5D	34	24-Mar-05	EN045D032405	Summa Canister	20.1	1.2	0.0	6.32	N	N			µg/m3	<	21	U		**4,800**			**20**		<	12	U	<	8.1	U		**290**		<	12	U	<	13	U	<	8.3	U	<	11	U	<	24	U
		EN04-5D	34	19-Apr-05	EN045D041905	Summa Canister	19.5	1.0	0.0	3.42	N	N			µg/m3	<	12	U		**3,300**			**13**		<	6.8	U	<	4.4	U		**190**			**12**		<	6.9	U	<	4.5	U	<	5.9	U	<	13	U
		EN04-5D	34	24-May-05	EN045D052405	Summa Canister	19.9	1.0	0.0	4.34	N	N			µg/m3	<	15	U		**3,000**			**14**		<	8.6	U	<	5.5	U		**160**		<	8.6	U	<	8.8	U	<	5.7	U	<	7.5	U	<	17	U
		EN04-5D	34	22-Jun-05	EN045D062205	Summa Canister	19.7	0.9	0.0	5.6	N	N			µg/m3	<	19	U		**3,500**			**17**		<	11	U	<	7.2	U		**150**			**16**		<	11	U	<	7.4	U	<	9.7	U	<	21	U
		EN04-5D	34	6-Jul-05	EN045D070605	Summa Canister	19.9	0.8	0.0	4.77	N	N			µg/m3	<	16	U		**3,000**			**16**		<	9.4	U	<	6.1	U		**170**		<	9.4	U	<	9.6	U	<	6.3	U	<	8.3	U	<	18	U
		EN04-5D Dup.	34	6-Jul-05	DU34136070605	Summa Canister	19.9	0.8	0.0	4.07	N	N			µg/m3	<	14	U		**3,400**			**16**		<	8.1	U	<	5.2	U		**190**		<	8.1	U	<	8.2	U	<	5.4	U	<	7.1	U	<	16	U
		EN04-5D	34	23-Aug-05	EN045D082305	Summa Canister	19.1	1.0	0.0	4.37	N	N			µg/m3	<	15	U		**4,500**			**17**		<	8.7	U	<	5.6	U		**200**		<	8.7	U	<	8.8	U	<	5.8	U	<	7.6	U	<	17	U
		EN04-5D	34	19-Sep-05	EN045D091905	Summa Canister	19.5	1.0	0.0	6.56	N	N			µg/m3	<	22	U		**3,600**			**15**		<	13	U	<	8.4	U		**170**		<	13	U	<	13	U	<	8.6	U	<	11	U	<	25	U
		EN04-5D	34	12-Oct-05	EN045D101205	Summa Canister	19.9	0.1	0.0	5.3	N	N			µg/m3	<	18	U		**3,200**			**14**		<	10	U	<	6.8	U		**180**		<	10	U	<	11	U	<	7.0	U	<	9.2	U	<	20	U
		EN04-5D	34	13-Dec-05	EN045D121305	Summa Canister	20.0	0.1	0.1	1.41	N	N			µg/m3	<	4.8	U		**630**			**3.3**		<	2.8	U	<	1.8	U		**36**		<	2.8	U	<	2.8	U	<	1.9	U	<	2.4	U	<	5.4	U
		EN04-5D	34	15-Feb-06	EN045D021506	Summa Canister	19.7	0.3	0.0	4.56	N	N			µg/m3	<	15	U		**3,600**			**17**		<	9.0	U	<	5.8	U		**190**		<	9.0	U	<	9.2	U	<	6.0	U	<	7.9	U	<	17	U
		EN04-5D	34	4-Apr-06	EN045D040406	Summa Canister	20.5	1.2	0.0	4.07	N	N			µg/m3	<	14	U		**4,000**			**16**		<	8.1	U	<	5.2	U		**180**		<	8.1	U	<	8.2	U	<	5.4	U	<	7.1	U	<	16	U
		EN04-5D	34	20-Jun-06	EN045D062006	Summa Canister	19.5	1.0	0.0	3.74	N	N			µg/m3	<	13	U		**3,600**			**14**		<	7.4	U	<	4.8	U		**170**		<	7.4	U	<	7.6	U	<	4.9	U	<	6.5	U	<	14	U
		EN04-5D	34	15-Aug-06	EN045D081506	Summa Canister	19.9	0.5	0.0	4.21	N	N			µg/m3	<	14	U		**3,000**			**10**		<	8.3	U	<	5.4	U		**120**		<	8.3	U	<	8.5	U	<	5.6	U	<	7.3	U	<	16	U
Implant Location	**EN04-6**	EN04-6S	8	24-Aug-04	EN046S082404	Summa canister	18.1	1.8	0.0	1.75	Y	N	8.5E-08		µg/m3	<	6.0	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.8	U	<	3.5	U	<	3.6	U	<	2.3	U	<	3.1	U	<	6.8	U
Monitoring Well	**EN-310**	EN04-6S	8	21-Sep-04	EN046S092104	Summa canister	18.4	1.4	0.0	1.79	N	N	1.5E-06		µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	UJ	<	7.0	U
Water Table Depth (ft)	*>32*	EN04-6S	8	20-Oct-04	EN046S102004	Summa Canister	19.6	1.9	0.0	8.05	N	N	3.3E-08		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.8	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
Total VOCs		EN04-6S	8	17-Nov-04	EN046S111704	Summa Canister	20.4	0.5	0.0	1.58	N	N	ND		µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
Sum Ethenes		EN04-6S	8	7-Dec-04	EN046S120704	Summa Canister	20.6	0.0	0.0	1.64	N	N	ND		µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethanes		EN04-6S	8	12-Jan-05	EN046S011205	Summa Canister	20.4	0.2	0.1	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
Other		EN04-6S	8	22-Feb-05	EN046S022205	Summa Canister	20.5	0.1	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-6S	8	24-Mar-05	ENO46S032405	Summa Canister	20.5	0.0	0.0	1.8	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.6	U	<	3.6	U	<	2.3	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.9	U
		EN04-6S	8	19-Apr-05	EN046S041905	Summa Canister	20.4	0.2	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U

Table B.1
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-6 Continued	EN04-6S	8	24-May-05	EN046S052405	Summa canister	18.0	1.2	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-6S	8	22-Jun-05	EN046S062205	Summa Canister	19.3	1.2	0.0	1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	**5.2**	< 6.6 U
	EN04-6S	8	6-Jul-05	EN046S070605	Summa Canister	19.3	1.3	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-6S	8	24-Aug-05	EN046S082405	Summa Canister	19.7	1.4	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-6S	8	19-Sep-05	EN046S091905	Summa Canister	19.2	1.2	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-6S	8	10-Oct-05	EN046S101005	Summa Canister	19.7	0.8	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-6S	8	13-Dec-05	EN046S121305	Summa Canister	20.2	0.3	0.0	1.52	N	N			µg/m3	< 5.2 U	< 4.1 U	< 3.0 U	< 3.0 U	< 1.9 U	< 4.1 U	< 3.0 U	< 3.1 U	< 2.0 U	< 2.6 U	< 5.8 U
	EN04-6S	8	15-Feb-06	EN046S021506	Summa Canister	20.2	0.0	0.0	1.91	N	N			µg/m3	< 6.5 U	< 5.1 U	< 3.8 U	< 3.8 U	< 2.4 U	< 5.2 U	< 3.8 U	< 3.9 U	< 2.5 U	< 3.3 U	< 7.3 U
	EN04-6S Dup.	8	15-Feb-06	DU34648021506	Summa Canister	20.2	0.0	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-6S	8	4-Apr-06	EN046S040406	Summa Canister	20.8	0.2	0.0	1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-6S	8	20-Jun-06	EN046S062006	Summa Canister	19.4	1.4	0.0	1.87	N	N			µg/m3	**37**	< 5.0 U	< 3.7 U	< 3.7 U	< 2.4 U	< 5.1 U	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
	EN04-6S	8	15-Aug-06	EN046S081506	Summa Canister	20.3	1.5	0.0	1.96	N	N			µg/m3	< 6.6 U	< 5.3 U	< 3.9 U	< 3.9 U	< 2.5 U	< 5.3 U	< 3.9 U	< 4.0 U	< 2.6 U	< 3.4 U	< 7.5 U
	EN04-6S Dup	8	15-Aug-06	DU34634081506	Summa Canister	20.3	1.5	0.0	2.01	N	N			µg/m3	< 6.8 U	< 5.4 U	< 4.0 U	< 4.0 U	< 2.6 U	< 5.5 U	< 4.0 U	< 4.1 U	< 2.6 U	< 3.5 U	< 7.7 U
	EN04-6D	8	24-Aug-04	EN046D082404	Summa Canister	17.9	1.9	0.0	1.91	Y	N	3.6E-06		µg/m3	< 6.6 U	< 5.2 U	< 3.8 U	< 3.8 U	< 2.5 U	**6.5**	< 3.8 U	< 3.9 U	< 2.6 U	< 3.4 U	< 7.4 U
	EN04-6D	27	21-Sep-04	EN046D092104	Summa Canister	17.8	2.1	0.0	1.96	N	N	8.4E-06		µg/m3	< 6.8 U	**7.3**	< 3.9 U	< 3.9 U	< 2.5 U	**11**	< 3.9 U	< 4.0 U	< 2.6 U	< 3.5 UJ	< 7.6 U
	EN04-6D	27	20-Oct-04	EN046D102004	Summa Canister	21.2	0.8	0.0	8.05	N	N	3.7E-07		µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.8 U	< 2.0 U	**7.6**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-6D	27	17-Nov-04	EN046D111704	Summa Canister	19.4	2.0	0.0	1.44	N	N	5.6E-08		µg/m3	< 4.9 U	< 3.9 U	< 2.8 U	< 2.8 U	< 1.8 U	**9.8**	< 2.8 U	< 2.9 U	< 1.9 U	< 2.5 U	< 5.5 U
	EN04-6D	27	7-Dec-04	EN046D120704	Summa Canister	19.9	1.3	0.0	1.71	N	N	ND		µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	**9.5**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-6D	27	12-Jan-05	*Lab analysis cancelled because canister was at atmospheric pressure when received by the lab due to broken/faulty valves.		20.0	1.2	0.0	NA	N	N			µg/m3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EN04-6D Dup.	27	12-Jan-05			20.0	1.2	0.0	NA	N	N			µg/m3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EN04-6D	27	22-Feb-05	EN046D022205	Summa Canister	20.4	0.5	0.0	1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2 U	**4.9**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-6D	27	24-Mar-05	EN046D032405	Summa Canister	20.0	0.8	0.0	1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	**6.9**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-6D	27	19-Apr-05	EN046D041905	Summa Canister	19.9	0.9	0.0	1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	**5.0**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-6D	27	24-May-05	EN046D052405	Summa canister	17.9	1.1	0.0	1.68	N	N			µg/m3	**28**	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-6D	27	22-Jun-05	EN046D062205	Summa Canister	19.6	0.7	0.0	1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	**4.6**	< 6.6 U
	EN04-6D	27	6-Jul-05	EN046D070605	Summa Canister	19.0	1.0	0.0	1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-6D	27	24-Aug-05	EN046D082405	Summa Canister	17.6	1.9	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	**5.0**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-6D	27	19-Sep-05	EN046D0919095	Summa Canister	18.5	1.8	0.0	1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-6D	27	10-Oct-05	EN046D101005	Summa Canister	18.1	1.9	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-6D	27	13-Dec-05	EN046D121305	Summa Canister	19.8	1.1	0.0	1.46	N	N			µg/m3	< 5.0 U	< 3.9 U	< 2.9 U	< 2.9 U	< 1.9 U	< 4.0 U	< 2.9 U	< 3.0 U	< 1.9 U	< 2.5 U	< 5.6 U
	EN04-6D	27	15-Feb-06	EN046D021506	Summa Canister	20.0	0.5	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-6D	27	15-Feb-06	DU11893021506	Summa Canister	20.0	0.5	0.0	1.79	N	N			µg/m3	**16**	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-6D	27	4-Apr-06	EN046D040406	Summa Canister	20.5	1.0	0.0	1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethene		1,1-Dichloroethane		Chloroethane		Methylene Chloride		Freon 113	
EN04-6 Continued		EN04-6D	27	20-Jun-06	EN046D062006	Summa Canister	15.2	3.5	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-6D	27	15-Aug-06	EN046D081506	Summa Canister	19.3	2.8	0.0	2.63	N	N			µg/m3	<	8.9	U	<	7.1	U	<	5.2	U	<	5.2	U	<	3.4	U	<	7.2	U	<	5.2	U	<	5.3	U	<	3.5	U	<	4.6	U	<	10	U
Implant Location	**EN04-7**	EN04-7S	8	24-Aug-04	EN047S082404	Summa Canister	17.2	2.5	0.0	2.59	Y	N	2.9E-04		µg/m3		**160**	J		**320**	J	<	5.2	U	<	5.2	U	<	3.4	U		**49**			**11**		<	5.3	U	<	3.5	U		**15**	EB	<	10	U
Monitoring Well	**EN-311**	EN04-7S Dup.	8	24-Aug-04	DU1144082404	Summa Canister	17.2	2.5	0.0	2.55	Y	N			µg/m3		**110**	J		**210**	J	<	5.1	U	<	5.1	U	<	3.3	U		**39**		<	5.1	U	<	5.2	U	<	3.4	U		**20**	EB	<	9.9	U
Water Table Depth (ft)	*39*	EN04-7S	8	21-Sep-04	EN047S092104	Summa Canister	18.0	1.7	0.1	1.96	Y	N	9.9E-02		µg/m3		**210**			**310**		<	3.9	U	<	3.9	U	<	2.5	U		**49**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.5	UJ	<	7.6	U
Total VOCs	*52*	EN04-7S	8	19-Oct-04	EN047S101904	Summa Canister	20.5	0.2	0.0	8.55	Y	N	6.5E-06		µg/m3		**140**			**180**		<	3.4	U	<	4.1	U	<	2.2	U		**15**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Sum Ethenes	*50*	EN04-7S	8	16-Nov-04	EN047S111604	Summa Canister	20.2	0.9	0.0	1.75	N	N	3.2E-06		µg/m3		**68**			**110**		<	3.5	U	<	3.5	U	<	2.2	U		**15**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Sum Ethanes	*2*	EN04-7S	8	8-Dec-04	EN047S120804	Summa Canister	20.3	0.2	0.0	1.75	N	N	2.8E-07		µg/m3		**48**			**77**		<	3.5	U	<	3.5	U	<	2.2	U		**11**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Other		EN04-7S	8	12-Jan-05	EN047S011205	Summa Canister	20.6	0.0	0.0	1.64	N	N			µg/m3		**32**			**42**		<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-7S	8	22-Feb-05	EN047S022205	Summa Canister	20.2	0.7	0.0	1.64	N	N			µg/m3		**18**			**22**		<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-7S	8	22-Mar-05	EN047S032205	Summa Canister	19.9	0.3	0.0	1.75	N	Y	ND		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-7S	8	19-Apr-05	EN047S041905	Summa Canister	19.1	0.4	0.0	1.61	N	Y	ND		µg/m3		**30**			**40**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-7S	8	24-May-05	EN047S052405	Summa Canister	19.9	0.8	0.0	1.58	N	N			µg/m3		**67**			**77**		<	3.1	U	<	3.1	U	<	2.0	U		**7.2**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-7S	8	22-Jun-05	EN047S062205	Summa Canister	19.6	0.9	0.0	1.79	N	N			µg/m3		**140**			**160**		<	3.5	U	<	3.5	U	<	2.3	U		**14**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-7S	8	6-Jul-05	EN047S070605	Summa Canister	19.7	1.0	0.0	1.87	N	N			µg/m3		**200**			**180**		<	3.7	U	<	3.7	U	<	2.4	U		**20**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-7S	8	23-Aug-05	EN047S082305	Summa Canister	19.1	1.1	0.0	1.83	N	N			µg/m3		**280**			**310**		<	3.6	U	<	3.6	U	<	2.3	U		**29**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-7S	8	19-Sep-05	EN047S091905	Summa Canister	19.7	1.1	0.0	1.68	N	N			µg/m3		**180**			**200**		<	3.3	U	<	3.3	U	<	2.1	U		**20**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-7S	8	12-Oct-05	EN047S101205	Summa Canister	20.0	0.7	0.0	1.61	N	N			µg/m3		**120**			**130**		<	3.2	U	<	3.2	U	<	2.0	U		**14**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-7S	8	13-Dec-05	EN047S121305	Summa Canister	20.4	0.5	0.0	1.71	N	N			µg/m3		**16**			**18**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-7S	8	15-Feb-06	EN047S021506	Summa Canister	19.9	0.0	0.0	1.71	N	N			µg/m3		**12**			**14**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-7S	8	4-Apr-06	EN047S040406	Summa Canister	20.3	0.3	0.0	1.71	N	N			µg/m3		**22**			**25**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-7S	8	20-Jun-06	EN047S062006	Summa Canister	19.8	0.8	0.0	1.79	N	N			µg/m3		**47**			**43**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U		**4.8**		<	3.1	U	<	6.8	U
		EN04-7S	8	15-Aug-06	EN047S081506	Summa Canister	19.7	2.1	0.0	1.71	N	N			µg/m3		**170**			**130**		<	3.4	U	<	3.4	U	<	2.2	U		**14**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-7D	34	24-Aug-04	EN047D082404	Summa Canister	19.7	0.2	0.0	1.87	Y	N	4.6E+00	x	µg/m3	<	6.4	U		**170**		<	3.8	U	<	3.8	U	<	2.4	U		**18**			**4.7**		<	3.8	U	<	2.5	U		**4.6**	EB	<	7.3	U
		EN04-7D	34	21-Sep-04	EN047D092104	Summa Canister	16.8	2.4	0.1	2.01	Y	N	2.2E+00	x	µg/m3	<	6.9	U		**590**			**7.9**		<	4.0	U	<	2.6	U		**58**		<	4.0	U	<	4.1	U	<	2.7	U	<	3.5	UJ	<	7.8	U
		EN04-7D	34	19-Oct-04	EN047D101904	Summa Canister	19.3	1.8	0.0	45.1	Y	N	7.1E-01		µg/m3	<	30	U		**4,700**			**59**		<	21	U	<	12	U		**430**			**20**		<	18	U	<	12	U	<	16	U	<	34	U
		EN04-7D	34	16-Nov-04	EN047D111604	Summa Canister	19.1	2.3	0.0	7.32	N	N	1.9E-06		µg/m3	<	25	U		**6,400**			**91**		<	14	U	<	9.4	U		**700**			**39**			**20**		<	9.6	U	<	13	U	<	28	U
		EN04-7D	34	8-Dec-04	EN047D120804	Summa Canister	19.4	1.8	0.0	12.9	N	N	1.1E-06		µg/m3	<	44	U		**6,400**			**91**		<	26	U	<	16	U		**690**			**37**		<	26	U	<	17	U	<	22	U	<	49	U
		EN04-7D	34	12-Jan-05	EN047D011205	Summa Canister	20.5	0.0	0.0	13.1	N	N			µg/m3	<	44	U		**8,400**			**89**		<	26	U	<	17	U		**720**			**52**		<	26	U	<	17	U	<	23	U	<	50	U
		EN04-7D Dup.	34	12-Jan-05	DU34652011205	Summa Canister	20.5	0.0	0.0	13.1	N	N			µg/m3	<	44	U		**8,200**			**90**		<	26	U	<	17	U		**710**			**54**		<	26	U	<	17	U	<	23	U	<	50	U
		EN04-7D	34	22-Feb-05	EN047D022205	Summa Canister	20.1	0.8	0.0	3.28	N	N			µg/m3	<	11	U		**2,800**			**30**		<	6.5	U	<	4.2	U		**240**			**18**			**7.8**		<	4.3	U	<	5.7	U	<	12	U
		EN04-7D	34	22-Mar-05	EN047D032205	Summa Canister	19.5	1.6	0.0	4.29	N	Y	ND		µg/m3	<	14	U		**2,600**			**78**		<	8.5	U	<	5.5	U		**320**			**63**			**20**		<	5.7	U	<	7.4	U	<	16	U
		EN04-7D	34	19-Apr-05	EN047D041905	Summa Canister	19.0	1.4	0.0	7.9	N	Y	ND		µg/m3	<	27	U		**5,800**			**54**		<	16	U	<	10	U		**500**			**52**		<	16	U	<	10	U	<	14	U	<	30	U

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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-7 Continued	EN04-7D	34	24-May-05	*Lab analysis cancelled because canister was at atmospheric pressure when received by the lab due to broken/faulty valves.		19.8	1.1	0.0		N	N			µg/m3																																	
	EN04-7D	34	22-Jun-05	EN047D062205	Summa Canister	19.9	1.0	0.0	6.44	N	N			µg/m3	<	22	U		**5,700**			**69**		<	13	U	<	8.2	U		**460**			**85**			**16**		<	8.5	U	<	11	U	<	25	U
	EN04-7D Dup.	34	22-Jun-05	DU9504062205	Summa Canister	19.9	1.0	0.0	4.88	N	N			µg/m3	<	16	U		**4,900**			**60**		<	9.7	U	<	6.2	U		**360**			**86**			**12**		<	6.4	U	<	8.5	U	<	19	U
	EN04-7D	34	6-Jul-05	EN047D070605	Summa Canister	19.9	1.0	0.0	8.13	N	N			µg/m3	<	28	U		**4,600**			**62**		<	16	U	<	10	U		**440**			**61**		<	16	U	<	11	U	<	14	U	<	31	U
	EN04-7D	34	23-Aug-05	EN047D082305	Summa Canister	19.1	1.1	0.0	11.9	N	N			µg/m3	<	40	U		**8,900**			**89**		<	24	U	<	15	U		**640**			**73**		<	24	U	<	16	U	<	21	U	<	46	U
	EN04-7D	34	19-Sep-05	EN047D091905	Summa Canister	19.7	1.1	0.0	8.2	N	N			µg/m3	<	28	U		**5,400**			**60**		<	16	U	<	10	U		**420**			**44**		<	16	U	<	11	U	<	14	U	<	31	U
	EN04-7D	34	12-Oct-05	EN047D101205	Summa Canister	19.8	1.2	0.0	1.64	N	N			µg/m3	<	5.6	U		**1,400**			**16**		<	3.2	U	<	2.1	U		**100**			**12**			**3.5**		<	2.2	U	<	2.8	U	<	6.3	U
	EN04-7D	34	13-Dec-05	EN047D121305	Summa Canister	19.4	1.7	0.0	5.37	N	N			µg/m3	<	18	U		**3,800**			**51**		<	11	U	<	6.9	U		**340**			**31**			**11**		<	7.1	U	<	9.3	U	<	20	U
	EN04-7D Dup.	34	13-Dec-05	DU2064121305	Summa Canister	19.4	1.7	0.0	3.74	N	N			µg/m3	<	13	U		**2,800**			**38**		<	7.4	U	<	4.8	U		**260**			**25**			**8.3**		<	4.9	U	<	6.5	U	<	14	U
	EN04-7D	34	15-Feb-06	EN047D021506	Summa Canister	20.5	0.1	0.0	9.6	N	N			µg/m3	<	32	U		**4,200**			**52**		<	19	U	<	12	U		**370**			**36**		<	19	U	<	13	U	<	17	U	<	37	U
	EN04-7D Dup.	34	15-Feb-06	DU2035021506	Summa Canister	20.5	0.1	0.0	6.84	N	N			µg/m3	<	23	U		**5,000**			**56**		<	14	U	<	8.7	U		**410**			**41**			**17**		<	9.0	U	<	12	U	<	26	U
	EN04-7D	34	4-Apr-06	EN047D040406	Summa Canister	20.3	1.2	0.0	6.56	N	N			µg/m3	<	22	U		**5,400**			**66**		<	13	U	<	8.4	U		**410**			**50**			**15**		<	8.6	U	<	11	U	<	25	U
	EN04-7D	34	20-Jun-06	EN047D062006	Summa Canister	20.2	0.8	0.0	8.24	N	N			µg/m3	<	28	U		**4,900**			**54**		<	16	U	<	10	U		**400**			**35**		<	17	U	<	11	U	<	14	U	<	32	U
	EN04-7D	34	15-Aug-06	EN047D081506	Summa Canister	20.2	0.6	0.0	6.73	N	N			µg/m3	<	23	U		**4,800**			**39**		<	13	U	<	8.6	U		**290**			**25**		<	14	U	<	8.9	U	<	12	U	<	26	U
Implant Location **EN04-8**	Trip Blank	-5	15-Nov-02	TB-02331-111502	Summa Canister				1	N	N			µg/m3	<	0.14	U	<	0.11	U	<	0.080	U	<	0.40	U	<	0.026	U	<	0.11	U	<	0.040	U	<	0.082	U	<	0.13	U	<	0.35	U	<	0.16	U
Monitoring Well **EN-430**	WP-11	8	11-Jun-02	WP11-8#0081	Summa Canister				2	N	N			µg/m3		**630**	J		**18,000**	J		**2,000**			**20**			**5**	J		**18,000**			**1,500**			**2,000**			NS			**5.0**	JEB		**8,600**	
Water Table Depth (ft) *20*	WP-11 Dup	8	11-Jun-02	WP11-8#0183	Summa Canister				4	N	N			µg/m3		**250**	J		**13,000**	J		**1,900**			**23**			**6**	J		**16,000**			**1,500**			**2,000**			NS			**14**	JEB		**8,800**	
Total VOCs *800*	WP-11	8	24-Jun-02	WP-11	Tedlar Bag				1	N	N			µg/m3	<	1,000	U		**22,000**			**2,200**		<	1,000	U	<	1,000	U		**15,000**			**1,300**			NS			NS			1,000	U		**7,600**	
Sum Ethenes *400*	WP-11	8	9-Jul-02	WP-11-8#0201	Summa Canister				10	N	N			µg/m3		**920**			**26,000**			**3,000**			**23**	J	<	6	U		**26,000**			**1,900**			**2,600**			NS			**64**	EB		**11,000**	
Sum Ethanes *400*	WP-11	8	15-Nov-02	WP-11-8	Summa Canister				36.6	N	N			µg/m3		**820**			**17,000**			**2,000**		<	290	U	<	48	U		**12,000**			**840**			**1,500**		<	49	U	<	65	U		**3,000**	
Other	EN04-8S	8	26-Aug-04	*COULD NOT SAMPLE DUE TO WATER IN PROBE						N	N																																			
	EN04-8S	8	23-Sep-04	*COULD NOT SAMPLE DUE TO WATER IN PROBE						N	N																																			
	EN04-8S	8	21-Oct-04	*COULD NOT SAMPLE DUE TO WATER IN PROBE						N	N																																			
	EN04-8S	8	18-Nov-04	EN048S111804	Summa Canister	19.6	0.3	0.0	1.68	N	N	ND		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-8S	8	8-Dec-04	*COULD NOT SAMPLE DUE TO WATER IN PROBE						N	N																																			
	EN04-8S	8	10-Jan-05	*COULD NOT SAMPLE DUE TO WATER IN PROBE						N	N																																			
	WP-10	12	11-Jun-02	WP10-12#0077	Summa Canister				2	N	N			µg/m3		**520**			**17,000**			**1,900**			**19**			**6**			**17,000**			**1,400**			**1,800**			NS			**8.0**	EB		**9,000**	
	WP-10	12	9-Jul-02	WP10-12#0006	Summa Canister				10	N	N			µg/m3		**540**	EB		**17,000**			**3,200**			**25**	J		**12**	J		**20,000**			**2,200**			**2,900**			NS		<	19	U		**10,000**	
	WP-10	12	15-Nov-02	WP-10-12	Summa Canister				50.9	N	N			µg/m3		**1,300**			**26,000**			**2,900**		<	410	U	<	66	U		**16,000**			**1,000**			**1,900**		<	68	U	<	90	U		**3,800**	
	EN04-8D	12	26-Aug-04	EN048D082604	Summa Canister	18.5	0.5	0.0	18.3	Y	N	3.8E-04		µg/m3		**950**			**16,000**			**390**		<	37	U	<	24	U		**6,200**			**410**			**770**		<	24	U	<	32	UJ		**390**	
	EN04-8D	12	23-Sep-04	EN048D092304	Summa Canister	11.8	2.5	0.0	19.6	N	N	2.7E-07		µg/m3		**930**			**17,000**			**380**		<	39	U	<	25	U		**7,700**			**640**			**990**		<	26	U	<	35	U		**420**	
	EN04-8D	12	21-Oct-04	EN048D102104	Summa Canister	12.1	2.6	0.0	205	N	N	ND		µg/m3		**1,000**			**16,000**			**380**		<	98	U	<	52	U		**5,600**			**360**			**880**		<	54	U		**74**			**400**	
	EN04-8D	12	18-Nov-04	EN048D111804	Summa Canister	16.7	1.8	0.0	8.55	N	N	ND		µg/m3		**340**			**6,200**			**180**		<	17	U	<	11	U		**3,100**			**150**			**520**		<	11	U	<	15	U		**100**	
	EN04-8D	12	8-Dec-04	EN048D120804	Summa Canister	15.8	1.3	0.0	13.1	N	N	ND		µg/m3		**590**			**12,000**			**320**		<	26	U	<	17	U		**4,500**			**280**			**970**		<	17	U	<	23	U		**250**	
	EN04-8D	12	10-Jan-05	EN048D011005	Summa Canister	20.4	0.1	0.1	6.84	N	N			µg/m3		**340**			**6,700**			**160**		<	14	U	<	8.7	U		**2,200**			**150**			**440**		<	9.0	U	<	12	U		**150**	
	EN04-8D	12	24-Feb-05	EN048D022405	Summa Canister	19.1	0.6	0.0	6.44	N	N			µg/m3		**280**			**4,700**			**110**		<	13	U	<	8	U		**2,400**			**140**			**360**		<	8.5	U		**46**			**130**	

Table B.1
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-8 Continued	EN04-8D	12	21-Mar-05	EN048D032105	Summa Canister	16.9	1.4	0.0	1.61	N	N			µg/m3	**68**	**1,200**	**35**	< 3 U	< 2.0 U	**680**	**37**	**110**	< 2.1 U	< 2.8 U	**26**
	EN04-8D	12	20-Apr-05	EN048D042005	Summa Canister	16.8	1.1	0.1	2.98	N	N			µg/m3	**96**	**1,900**	**45**	< 6 U	< 3.8 U	**750**	**65**	**140**	< 3.9 U	< 5.2 U	**52**
	EN04-8D	12	26-May-05	EN048D052605	Summa Canister	14.3	2.2	0.0	7.6	N	N			µg/m3	**290**	**5,200**	**160**	< 15 U	< 9.7 U	**2,100**	**130**	**390**	< 10 U	< 13 U	**130**
	EN04-8D	12	23-Jun-05	EN048D062305	Summa Canister	18.1	1.2	0.0	11.2	N	N			µg/m3	**560**	**9,600**	**300**	< 22 U	< 14 U	**3,000**	**270**	**680**	< 15 U	< 19 U	**150**
	EN04-8D	12	8-Jul-05	EN048D070805	Summa Canister	15.0	2.6	0.0	14.6	N	N			µg/m3	**610**	**10,000**	**330**	< 29 U	< 19 U	**3,200**	**170**	**720**	< 19 U	< 25 U	**110**
	EN04-8D	12	24-Aug-05	EN048D082405	Summa Canister	13.2	3.9	0.0	18.3	N	N			µg/m3	**980**	**17,000**	**500**	< 36 U	< 23 U	**5,600**	**250**	**1,100**	< 24 U	< 32 U	**210**
	EN04-8D	12	20-Sep-05	EN048D092005	Summa Canister	12.9	4.2	0.0	25.6	N	N			µg/m3	**800**	**12,000**	**360**	< 51 U	< 33 U	**4,100**	**190**	**800**	< 34 U	< 44 U	**160**
	EN04-8D	12	12-Oct-05	EN048D101205	Summa Canister	12.8	3.4	0.0	16.4	N	N			µg/m3	**860**	**14,000**	**380**	< 32 U	< 21 U	**3,800**	**200**	**780**	< 22 U	< 28 U	**190**
	EN04-8D	12	15-Dec-05	EN048D121505	Summa Canister	16.7	2.1	0.0	9.24	N	N			µg/m3	**320**	**5,600**	**180**	< 18 U	< 12 U	**2,100**	**110**	**360**	< 12.0 U	< 16 U	**74**
	EN04-8D	12	15-Dec-05	DU31761121505	Summa Canister	16.7	2.1	0.0	8.96	N	N			µg/m3	**320**	**5,400**	**170**	< 18 U	< 11 U	**2,000**	**100**	**370**	< 12 U	< 16 U	**75**
	EN04-8D	12	16-Feb-06	EN048D021606	Summa Canister	18.8	0.9	0.0	1.64	N	N			µg/m3	< 5.6 U	**14**	< 3.2 U	< 3.2 U	< 2.1 U	**4.7**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-8D	12	5-Apr-06	EN048D040506	Summa Canister	17.5	1.7	0.0	4.56	N	Y	ND		µg/m3	**240**	**4,200**	**150**	**12**	< 5.8 U	**1,500**	**110**	**330**	< 6.0 U	< 7.9 U	**61**
	EN04-8D	12	20-Jun-06	EN048D062006	Summa Canister	15.2	2.6	0.0	8.95	N	N			µg/m3	**380**	**6,400**	**160**	< 18 U	< 11 U	**1,600**	**99**	**290**	< 12 U	< 16 U	**76**
	EN04-8D	12	15-Aug-06	EN048D081506	Summa Canister	12	3.8	0.0	13.4	N	N			µg/m3	**760**	**11,000**	**220**	< 26 U	< 17 U	**3,100**	**160**	**400**	< 18 U	< 23 U	**130**
	EN04-8D Dup	12	15-Aug-06	DU31755081506	Summa Canister	12	3.8	0.0	14	N	N			µg/m3	**850**	**13,000**	**220**	< 28 U	< 18 U	**3,300**	**160**	**440**	< 18 U	< 24 U	**130**
Implant Location **EN04-9**	EN04-8D Dup	12	15-Aug-06	DU31755081506	Summa Canister	12	3.8	0.0	14	N	N			µg/m3	**850**	**13,000**	**220**	< 28 U	< 18 U	**3,300**	**160**	**440**	< 18 U	< 24 U	**130**
Implant Location **EN04-9**	Ambient Air	-5	11-Jun-02	EN-278-8#0054	Summa Canister				1	N	N			µg/m3	< 3.0 U	< 2.0 U	**0.80**	< 0.40 U	< 0.30 U	< 0.60 U	< 0.40 U	< 0.40 U	NS	**1.0**	**1.0**
Monitoring Well **EN-279**	Trip Blank	-5	11-Jun-02	TripBlank#0063	Summa Canister				1	N	N			µg/m3	< 0.70 U	< 0.60 U	< 0.40 U	< 0.40 U	< 0.30 U	< 0.60 U	< 0.40 U	< 0.43 U	NS	< 0.4 U	< 0.80 U
Water Table Depth (ft) *26*	Trip Blank	-5	9-Jul-02	TripBlank#0117	Summa Canister				1	N	N			µg/m3	< 0.70 U	< 0.60 U	< 0.40 U	< 0.40 U	< 0.30 U	< 0.60 U	< 0.40 U	< 0.40 U	NS	**0.5**	< 0.80 U
Total VOCs *500*	Trip Blank	-5	14-Nov-02	TB-9411-111402	Summa Canister				1	N	N			µg/m3	**0.27**	**2.1**	**0.46**	< 0.40 U	< 0.026 U	**0.74**	**0.05**	**0.24**	< 0.13 U	< 0.4 U	< 0.2 U
Sum Ethenes *400*	Equip Blank	-5	11-Jun-02	Equipment Blank #0070	Summa Canister				1	N	N			µg/m3	**5.0**	**5.0**	**0.60**	< 0.40 U	< 0.30 U	< 0.60 U	< 0.40 U	**0.60**	NS	**10**	**1.0**
Sum Ethanes *100*	Equip Blank	-5	9-Jul-02	Equipment Blank #0118	Summa Canister				1	N	N			µg/m3	**14**	**18**	**0.40**	< 0.40 U	< 0.30 U	< 0.60 U	**2.0**	< 0.40 U	NS	**9.0**	**1.0**
Other	WP-16	8	11-Jun-02	WP-16-8#0046	Summa Canister				2	N	N			µg/m3	**180** J	**16,000**	**2,000**	**22**	**5.0** J	**12,000**	**980**	**1,500**	NS	**10** EB	**3,800**
	WP-16	8	11-Jun-02	WP-16	Tedlar Bag				1	N	N			µg/m3	< 1,000 U	**23,000**	**2,700**	< 1,000 U	< 1,000 U	**10,000**	< 1,000 U	NA	NS	1,000 U	**3,400**
	WP-16 Dup	8	11-Jun-02	WP-16-8#0071	Summa Canister				2	N	N			µg/m3	**270** J	**21,000**	**2,400**	**29**	**6.0**	**13,000**	**1,100**	**1,600**	NS	**8.0** EB	**3,900**
	WP-16	8	9-Jul-02	WP-16-8#0156	Summa Canister				2	N	N			µg/m3	**180** J	**19,000** J	**3,100**	**31**	**5.0** J	**15,000**	**1,400**	**2,100**	NS	4.0 U	**4,400**
	WP-16 Dup	8	9-Jul-02	Duplicate WP-16-8#0195	Summa Canister				2	N	N			µg/m3	**370** J	**28,000** J	**3,800**	**39**	**6.0**	**16,000**	**1,300**	**2,200**	NS	< 4 U	**4,000**
	WP-16	8	14-Nov-02	WP-16-8	Summa Canister				38.2	N	N			µg/m3	**320**	**16,000**	**1,900**	< 310 U	< 50 U	**7,000**	**500**	**1,100**	< 51 U	< 67 U	**1,300**
	WP-16 Dup	8	14-Nov-02	DU-33966-111402	Summa Canister				19.6	N	N			µg/m3	**470**	**21,000**	**2,800**	< 160 U	< 25 U	**10,000**	**740**	**1,600**	< 26 U	< 35 U	**2,000**
	EN04-9S	8	26-Aug-04	EN049S082604	Summa Canister	13.2	2.3	0.1	25.5	Y	N	4.1E-07		µg/m3	**440**	**23,000**	**260**	< 51 U	< 33 U	**5,000**	**240**	**310**	< 34 U	< 45 UJ	**260**
	EN04-9S	8	23-Sep-04	EN049S092304	Summa Canister	16.1	3.3	0.1	38.2	N	N	7.8E-08		µg/m3	**440**	**23,000**	**390**	< 77 U	< 50 U	**4,900**	**520**	**610**	< 51 U	< 67 U	< 150 U
	EN04-9S	8	21-Oct-04	EN049S102104	Summa Canister	17.5	2.0	0.0	273	N	N	6.4E-08		µg/m3	**470**	**20,000**	**500**	< 130 U	< 70 U	**3,100**	**110**	**560**	< 72 U	< 95 U	< 210 U
	EN04-9S	8	18-Nov-04	EN049S111804	Summa Canister	19.3	0.9	0.0	3.28	N	N	ND		µg/m3	**47** J	**3,200** J	**120** J	< 7 U	< 4.2 U	**770** J	**33** J	**140** J	< 4.3 U	< 5.7 U	**28** J
	EN04-9S Dup.	8	18-Nov-04	DU9347111804	Summa Canister	19.3	0.9	0.0	1.68	N	N	ND		µg/m3	**18** J	**1,100** J	**36** J	< 3.3 U	< 2.1 U	**270** J	**14** J	**48** J	< 2.2 U	< 2.9 U	**10** J
	EN04-9S	8	8-Dec-04	EN049S120804	Summa Canister	19.6	0.5	0.0	13.7	N	N	ND		µg/m3	**200**	**11,000**	**280**	< 27 U	< 18 U	**1,500**	**74**	**280**	< 18 U	< 24 U	**60**

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-9 Continued	EN04-9S	8	9-Dec-04	EN049S120904	Summa Canister	NR	NR	NR	12.2	Y	N	ND		µg/m3	**190**	**11,000**	**270**	< **24** U	< 16 U	**1,400**	**74**	**280**	< 16 U	< 21 U	**56**
	EN04-9S	8	13-Jan-05	EN049S011305	Summa Canister	20.5	0.0	0.0	3.42	N	N			µg/m3	**77**	**3,300**	**45**	< **6.8** U	< 4.4 U	**330**	**24**	**26**	< 4.5 U	< 5.9 U	**24**
	EN04-9S	8	24-Feb-05	EN049S022405	Summa Canister	20.3	0.1	0.0	3.71	N	N			µg/m3	**70**	**3,100**	**49**	< **7.4** U	< 4.7 U	**330**	**12**	**32**	< 4.9 U	< 6.4 U	< 14 U
	EN04-9S	8	21-Mar-05	EN049S032105	Summa Canister	NR	NR	NR	3.42	N	N			µg/m3	**76**	**3,100**	**45**	< **6.8** U	< 4.4 U	**360**	**17**	**28**	< 4.5 U	< 5.9 U	< 13 U
	EN04-9S	8	20-Apr-05	EN049S042005	Summa Canister	19.5	0.0	0.0	6.03	N	N			µg/m3	**84**	**4,100**	**62**	< **12** U	< 7.7 U	**440**	**20**	**43**	< 8.0 U	< 10 U	< 23 U
	EN04-9S	8	26-May-05	EN049S052605	Summa Canister	16.9	0.3	0.0	10.5	N	N			µg/m3	**160**	**6,900**	**130**	< **21** U	< 13 U	**720**	**27**	**94**	< 14 U	< 18 U	< 40 U
	EN04-9S	8	23-Jun-05	EN049S062305	Summa Canister	16.8	0.8	0.0	14	N	N			µg/m3	**310**	**13,000**	**180**	< **28** U	< 18 U	**1,200**	**87**	**150**	< 18 U	< 24 U	< 54 U
	EN04-9S	8	8-Jul-05	EN049S070805	Summa Canister	16.4	1.0	0.0	20.1	N	N			µg/m3	**390**	**17,000**	**240**	< **40** U	< 26 U	**1,500**	**78**	**190**	< 26 U	< 35 U	< 77 U
	EN04-9S	8	24-Aug-05	EN049S082405	Summa Canister	16.3	2.1	0.0	28.3	N	N			µg/m3	**640**	**26,000**	**400**	< **56** U	< 36 U	**2,600**	**530**	**310**	< 37 U	< 49 U	**130**
	EN04-9S	8	20-Sep-05	EN049S092005	Summa Canister	16.7	2.0	0.0	22.4	N	N			µg/m3	**510**	**19,000**	**270**	< **44** U	< 29 U	**2,200**	**450**	**230**	< 30 U	< 39 U	< 86 U
	EN04-9S	8	12-Oct-05	EN049S101205	Summa Canister	16.8	0.8	0.0	16.4	N	N			µg/m3	**180**	**7,900**	**45**	< **32** U	< 21 U	**530**	**77**	**46**	< 22 U	< 28 U	< 63 U
	EN04-9S	8	15-Dec-05	EN049S121505	Summa Canister	20.2	0.6	0.0	4.62	N	N			µg/m3	**68**	**2,900**	**22**	< **9.2** U	< 5.9 U	**280**	**48**	**24**	< 6.1 U	< 8.0 U	< 18 U
	EN04-9S	8	16-Feb-06	EN049S021606	Summa Canister	20.2	0.1	0.0	3.16	N	N			µg/m3	**42**	**1,800**	**11**	< **6.3** U	< 4.0 U	**150**	**19**	**11**	< 4.2 U	< 5.5 U	**32**
	EN04-9S	8	5-Apr-06	EN049S040506	Summa Canister	19.5	0.0	0.0	1.91	N	N			µg/m3	**38**	**1,800**	**18**	< **3.8** U	< 2.4 U	**110**	**10**	**16**	< 2.5 U	< 3.3 U	< 7.3 U
	EN04-9S	8	20-Jun-06	EN049S062006	Summa Canister	19.7	0.2	0.0	5.16	N	N			µg/m3	**130**	**5,600**	**26**	< **10** U	< 6.6 U	**350**	**18**	**30**	< 6.8 U	< 9.0 U	< 20 U
	EN04-9S	8	15-Aug-06	EN049S081506	Summa Canister	15.1	0.9	0.0	14.6	N	N			µg/m3	**350**	**13,000**	< 29 U	< **29** U	< 19 U	**830**	**34**	**44**	< 19 U	< 25 U	< 56 U
	WP-15	12	11-Jun-02	WP-15-12#0034	Summa Canister				2	N	N			µg/m3	**180**	**13,000**	**2,600**	**19**	**10**	**11,000**	**1,400**	**2,100**	NS	**7** JEB	**4,300**
	WP-15	12	9-Jul-02	WP-15-12#0203	Summa Canister				10	N	N			µg/m3	**290** EB	**16,000**	**4,100**	**30** J	**26** J	**15,000**	**2,000**	**3,100**	NS	< 19 U	**5,700**
	WP-15	12	14-Nov-02	WP-15-12	Summa Canister				53.6	N	N			µg/m3	**1,100**	**29,000**	**5,600**	< **430** U	< 70 U	**11,000**	**860**	**2,400**	< 72 U	< 95 U	**1,700**
	WP-14	16	11-Jun-02	WP-14-16#0200	Summa Canister				2	N	N			µg/m3	**600**	**22,000**	**6,100**	**33**	**19**	**16,000**	**2,000**	**3,900**	NS	**6** JEB	**5,700**
	WP-14	16	9-Jul-02	WP-14-16#0196	Summa Canister				10	N	N			µg/m3	**400** EB	**17,000**	**6,700**	**39** J	**24** J	**16,000**	**2,700**	**4,100**	NS	< 19 U	**6,700**
	WP-14	16	14-Nov-02	WP-14-16	Summa Canister				78.4	N	N			µg/m3	**2,200**	**40,000**	**11,000**	< **630** U	< 100 U	**14,000**	**1,300**	**4,400**	< 100 U	< 140 U	**2,000**
	WP-13	20	11-Jun-02	WP-13-20#0021	Summa Canister				10	N	N			µg/m3	**1,600**	**29,000**	**9,900**	**38** J	**24** J	**21,000**	**2,600**	**5,600**	NS	< 19 U	**6,300**
	WP-13	20	24-Jun-02	WP-13	Tedlar Bag				10	N	N			µg/m3	**1,700**	**27,000**	**8,300**	1,000 U	< 1,000 U	**12,000**	**1,600**	**NA**	NS	< 1,000 U	**4,200**
	WP-13	20	9-Jul-02	WP-13-20#0152	Summa Canister				17	N	N			µg/m3	**930** EB	**23,000**	**9,600**	**42** J	**26** J	**18,000**	**3,000**	**6,400**	NS	< 32 U	**6,900**
	WP-13	20	14-Nov-02	WP-13-20	Summa Canister				76.4	N	N			µg/m3	**3,700**	**44,000**	**14,000**	< **620** U	< 99 U	**16,000**	**1,500**	**6,300**	< 100 U	< 130 U	**2,100**
	EN04-9D	20	26-Aug-04	EN049D082604	Summa Canister	14.4	3.7	0.1	82.4	Y	N	5.9E-04		µg/m3	**3,000**	**48,000**	**20,000**	< **170** U	< 110 U	**12,000**	**2,800**	**12,000**	**220**	< 140 UJ	**870**
	EN04-9D	20	23-Sep-04	EN049D092304	Summa Canister	14.2	3.2	0.1	103	N	N	ND		µg/m3	**3,500**	**57,000**	**25,000**	< **210** U	**250**	**12,000**	**3,100**	**13,000**	< 140 U	< 180 U	**980**
	EN04-9D	20	21-Oct-04	EN049D102104	Summa Canister	14.2	1.5	0.0	656	N	N	1.5E-07		µg/m3	**4,400**	**55,000**	**20,000**	< **310** U	< 170 U	**9,400**	**2,300**	**7,800**	< 170 U	< 230 U	**2,800**
	EN04-9D	20	18-Nov-04	EN049D111804	Summa Canister	19.3	0.3	0.0	16.4	N	N	5.2E-07		µg/m3	**860**	**12,000**	**4,100**	< **32** U	< 21 U	**3,600**	**1,000**	**1,800**	< 22 U	< 28 U	**540**
	EN04-9D	20	8-Dec-04	EN049D120804	Summa Canister	16.8	0.8	0.0	59.7	N	N	ND		µg/m3	**3,200**	**44,000**	**14,000**	< **120** U	< 76 U	**12,000**	**4,700**	**6,100**	**87**	< 100 U	**1,500**
	EN04-9D	20	9-Dec-04	EN049D120904GRAB	Summa Canister	NR	NR	NR	69.5	N	N	ND		µg/m3	**3,100**	**45,000**	**14,000**	< **140** U	< 89 U	**12,000**	**4,700**	**6,100**	< 92 U	< 120 U	**1,500**
	EN04-9D	20	13-Jan-05	EN049D011305	Summa Canister	20.5	0.0	0.0	42.8	N	N			µg/m3	**2,500**	**33,000**	**10,000**	< **85** U	< 55 U	**9,700**	**2,900**	**4,200**	< 56 U	< 74 U	**760**
	EN04-9D	20	24-Feb-05	EN049D022405	Summa Canister	19.4	0.4	0.0	26.8	N	N			µg/m3	**1,800**	**20,000**	**4,700**	< **53** U	< 34 U	**5,300**	**1,200**	**2,000**	< 35 U	< 46 U	**210**

Table B.1
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethene		1,1-Dichloroethane		Chloroethane		Methylene Chloride		Freon 113	
EN04-9 Continued		EN04-9D	20	21-Mar-05	EN049D032105	Summa Canister	19.8	0.3	0.0	29.2	N	N			µg/m3	**1,600**		**19,000**		**4,400**		<	58	U	<	37	U	**4,700**		**1,000**		**1,900**		<	38	U	<	51	U	**140**	
		EN04-9D	20	20-Apr-05	EN049D042005	Summa Canister	18.4	0.2	0.0	12.2	N	N			µg/m3	**410**		**5,300**		**1,100**		<	24	U	<	16	U	**1,300**		**330**		**520**		<	16	U	<	21	U	**78**	
		EN04-9D	20	26-May-05	EN049D052605	Summa Canister	15.5	0.5	0.0	16.8	N	N			µg/m3	**840**		**10,000**		**2,500**		<	33	U	<	21	U	**2,300**		**700**		**910**		<	22	U	<	29	U	**320**	
		EN04-9D	20	23-Jun-05	EN049D062305	Summa Canister	15.6	0.7	0.0	22.4	N	N			µg/m3	**1,200**		**14,000**		**3,400**		<	44	U	<	29	U	**3,600**		**1,700**		**1,300**		<	30	U	<	39	U	**440**	
		EN04-9D	20	8-Jul-05	EN049D070805	Summa Canister	15.2	0.6	0.0	29.2	N	N			µg/m3	**1,500**		**18,000**		**4,400**		<	58	U	<	37	U	**5,700**		**3,200**		**1,800**		<	38	U	<	51	U	**510**	
		EN04-9D	20	24-Aug-05	EN049D082405	Summa Canister	14.4	1.8	0.0	30.5	N	N			µg/m3	**1,800**		**24,000**		**5,200**		<	60	U	<	39	U	**10,000**		**4,100**		**2,700**			**71**		<	53	U	**560**	
		EN04-9D	20	20-Sep-05	EN049D092005	Summa Canister	14.3	2.4	0.0	28.5	N	N			µg/m3	**2,000**		**24,000**		**5,600**		<	56	U	<	36	U	**12,000**		**6,500**		**3,100**			**60**		<	50	U	**760**	
		EN04-9D	20	12-Oct-05	EN049D101205	Summa Canister	13.6	2.9	0.0	61	N	N			µg/m3	**2,300**		**32,000**		**7,400**		<	120	U	<	78	U	**14,000**		**7,900**		**4,000**		<	80	U	<	100	U	**750**	
		EN04-9D	20	15-Dec-05	EN049D121505	Summa Canister	17.6	1.7	0.0	41	N	N			µg/m3	**2,200**		**27,000**		**6,500**		<	81	U	<	52	U	**9,400**		**4,300**		**3,000**		<	54	U	<	71	U	**400**	
		EN04-9D	20	16-Feb-06	EN049D021606	Summa Canister	18.8	0.9	0.0	25.3	N	N			µg/m3	**1,400**		**17,000**		**3,500**		<	50	U	<	32	U	**4,200**		**1,600**		**1,400**		<	33	U	<	44	U	**130**	
		EN04-9D	20	5-Apr-06	EN049D040506	Summa Canister	18.5	0.8	0.0	22.4	N	N			µg/m3	**1,300**		**15,000**		**3,500**		<	44	U	<	29	U	**3,700**		**1,500**		**1,400**		<	30	U	<	39	U	**100**	
		EN04-9D	20	20-Jun-06	EN049D062006	Summa Canister	18.5	1.0	0.0	25.6	N	N			µg/m3	**1,300**		**16,000**		**3,100**		<	51	U	<	33	U	**3,500**		**1,200**		**1,200**		<	34	U	<	44	U	**110**	
		EN04-9D	20	15-Aug-06	EN049D081506	Summa Canister	14.8	1.3	0.0	25.5	N	N			µg/m3	**1,900**		**22,000**		**4,100**		<	50	U	<	32	U	**5,800**		**2,300**		**1,600**		<	34	U	<	44	U	**510**	
		WP-12	24	11-Jun-02	WP-12-24#0018	Summa Canister				10	N	N			µg/m3	**2,100**		**29,000**		**9,100**			**40**	J		**25**	J	**18,000**		**2,500**		**5,300**			NS		<	19	U	**5,800**	
		WP-12	24	9-Jul-02	WP-12-24#0145	Summa Canister				17	N	N			µg/m3	**950**	**EB**	**20,000**		**9,000**			**38**	J		**21**	J	**16,000**		**2,600**		**5,900**			NS		<	32	U	**5,600**	
		WP-12	24	14-Nov-02	WP-12-24	Summa Canister				78.4	N	N			µg/m3	**4,600**		**46,000**		**15,000**		<	630	U	<	100	U	**16,000**		**1,600**		**8,100**		<	100	U	<	140	U	**2,200**	
		WP-20	8	11-Jun-02	WP-20-8#0141	Summa Canister				10	N	N			µg/m3	**150**	**JEB**	**30,000**	**J**	**7,000**	**J**		**60**			**21**	J	**16,000**	**J**	**5,200**	**J**	**12,000**	**J**		NS		<	19	U	**860**	**AB**
		WP-20 Dup	8	11-Jun-02	WP-20-8DUP #0196	Summa Canister				2	N	N			µg/m3	**42**	**JEB**	**15,000**	**J**	**4,300**	**J**		**56**			**21**		**11,000**	**J**	**3,800**	**J**	**7,800**	**J**		NS			**18**	**EB**	**1,100**	
		WP-20	8	24-Jun-02	WP-20	Tedlar Bag				1	N	N			µg/m3	<	1,000	U	**38,000**		**7,500**		<	1,000	U	<	1,000	U	**12,000**		**3,400**		NA			NS		<	1,000	U	<	1,000	U
		WP-20	8	9-Jul-02	WP-20-8#0167	Summa Canister				20	N	N			µg/m3	**180**	**EB**	**38,000**		**10,000**			**69**	J		**17**	J	**21,000**		**5,100**		**15,000**			NS			**240**	**EB**	**910**	**AB**
		WP-20	8	14-Nov-02	WP-20-8	Summa Canister				67.2	N	N			µg/m3	**250**		**33,000**		**7,400**		<	540	U	<	87	U	**10,000**		**2,300**		**9,200**			90	U		120	U	**460**	
Implant Location	**EN04-10**	EN04-10S	8	26-Aug-04	EN0410S082604	Summa Canister	13.9	5.1	0.0	78.4	Y	N	5.0E-06		µg/m3	**570**		**64,000**		**7,800**		<	160	U	<	100	U	**14,000**		**2,100**		**9,400**		<	100	U	<	140	UJ	<	300	U
Monitoring Well	**EN-77**	EN04-10S	8	23-Sep-04	EN0410S092304	Summa Canister	13.3	4.5	0.0	103	N	N	ND		µg/m3	**560**		**60,000**		**7,400**		<	210	U		**320**		**12,000**		**3,300**		**8,900**		<	140	U	<	180	U	<	400	U
Water Table Depth (ft)	*26*	EN04-10S	8	21-Oct-04	EN0410S102104	Summa Canister	14.4	4.2	0.0	560	N	N	ND		µg/m3	**460**		**48,000**		**5,400**		<	270	U	<	140	U	**10,000**		**1,800**		**6,700**		<	150	U	<	190	U	<	430	U
Total VOCs	*800*	EN04-10S	8	18-Nov-04	EN0410S111804	Summa Canister	15.0	3.5	0.0	33.6	N	N	ND		µg/m3	**280**		**33,000**		**4,500**		<	67	U		**48**		**9,600**		**2,000**		**5,800**		<	44	U	<	58	U		**320**	
Sum Ethenes	*500*	EN04-10S	8	8-Dec-04	EN0410S120804	Summa Canister	16.3	2.7	0.0	41	N	N	ND		µg/m3	**250**		**29,000**		**3,800**		<	81	U		**58**		**8,300**		**2,100**		**5,800**		<	54	U	<	71	U		**280**	
Sum Ethanes	*300*	EN04-10S	8	11-Jan-05	EN0410S011105	Summa Canister	15.8	2.6	0.0	21.5	N	N			µg/m3	**150**		**19,000**		**2,300**		<	43	U		**40**		**6,000**		**1,900**		**3,700**		<	28	U	<	37	U		**300**	
Other		EN04-10S	8	24-Feb-05	EN0410S022405	Summa Canister	17.8	1.6	0.0	15.8	N	N			µg/m3	**110**		**12,000**		**1,400**		<	31	U		**39**		**5,500**		**1,500**		**2,300**			**34**			**180**	**EB**		**260**	
		EN04-10S	8	21-Mar-05	EN0410S032105	Summa Canister	16.5	2.3	0.0	13.7	N	N			µg/m3	**47**		**13,000**		**1,800**		<	27	U		**44**		**7,000**		**2,000**		**2,800**			**37**		<	24	U		**260**	
		EN04-10S	8	20-Apr-05	EN0410S042005	Summa Canister	16.2	3.0	0.0	31.2	N	N			µg/m3	**150**		**18,000**		**1,900**		<	62	U	<	40	U	**6,700**		**2,400**		**2,900**		<	41	U	<	54	U		**270**	
		EN04-10S	8	26-May-05	EN0410S052605	Summa Canister	15.3	3.6	0.0	33.6	N	N			µg/m3	**230**		**24,000**		**3,100**		<	67	U	<	43	U	**8,200**		**2,200**		**3,600**		<	44	U	<	58	U		**210**	
		EN04-10S	8	23-Jun-05	EN0410S062305	Summa Canister	15.1	4.6	0.0	75.2	N	N			µg/m3	**410**		**40,000**		**4,600**		<	150	U	<	96	U	**10,000**		**3,300**		**5,300**		<	99	U	<	130	U	<	290	U
		EN04-10S	8	8-Jul-05	EN0410S070805	Summa Canister	15.5	4.7	0.0	89.5	N	N			µg/m3	**560**		**52,000**		**6,600**		<	180	U	<	110	U	**14,000**		**4,000**		**7,000**		<	120	U	<	160	U	<	340	U
		EN04-10S	8	23-Aug-05	EN0410S082305	Summa Canister	13.2	5.6	0.0	140	N	N			µg/m3	**680**		**65,000**		**9,000**		<	280	U	<	180	U	**17,000**		**4,400**		**8,800**		<	180	U	<	240	U	<	540	U
		EN04-10S	8	20-Sep-05	EN0410S092005	Summa Canister	13.8	5.5	0.0	96	N	N			µg/m3	**660**		**59,000**		**8,300**		<	190	U	<	120	U	**16,000**		**4,500**		**7,800**		<	130	U	<	170	U	<	370	U

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Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethene		1,1-Dichloroethane		Chloroethane		Methylene Chloride		Freon 113	
EN04-10 Continued	EN04-10S	8	12-Oct-05	EN0410S101205	Summa Canister	13.6	5.0	0.0	65.6	N	N			µg/m3	**480**		**53,000**		**7,900**		<	130	U	<	84	U	**15,000**		**4,100**		**7,000**		<	86	U	<	110	U	**310**	
	EN04-10S	8	15-Dec-05	EN0410S121505	Summa Canister	16.3	2.7	0.0	26.5	N	N			µg/m3	**150**		**16,000**		**2,900**		<	52	U	<	34	U	**7,200**		**2,500**		**2,900**		<	35	U	<	46	U	**210**	
	EN04-10S	8	16-Feb-06	EN0410S021606	Summa Canister	17.1	2.5	0.0	16.1	N	N			µg/m3	**120**		**14,000**		**2,200**		<	32	U	<	20	U	**6,700**		**2,600**		**2,300**			**30**		<	28	U	**310**	
	EN04-10S	8	5-Apr-06	EN0410S040506	Summa Canister	16.8	2.5	0.0	17.1	N	N			µg/m3	**160**		**15,000**		**2,400**		<	34	U	<	22	U	**7,400**		**2,900**		**2,600**		<	22	U	<	30	U	**250**	
	EN04-10S	8	20-Jun-06	EN0410S062006	Summa Canister	17.2	4.0	0.0	69.4	N	N			µg/m3	**320**		**32,000**		**4,000**			**160**		<	89	U	**11,000**		**3,500**		**3,900**		<	92	U	<	120	U	**300**	
	EN04-10S	8	15-Aug-06	EN0410S081506	Summa Canister	14	4.9	0.0	91.5	N	N			µg/m3	**680**		**63,000**		**7,900**			**200**		<	120	U	**17,000**		**4,700**		**6,400**		<	120	U	<	160	U	<	350	U
	WP-19	12	11-Jun-02	WP-19-12#0136	Summa Canister				20	N	N			µg/m3	**150**	**EB**	**21,000**		**6,400**			**51**	J		**32**	J	**12,000**		**4,900**		**11,000**			NS		<	38	U	**1,100**	**AB**
	WP-19	12	9-Jul-02	WP-19-12#0198	Summa Canister				12	N	N			µg/m3	**180**	**EB**	**30,000**		**11,000**			**79**			**46**		**19,000**		**5,600**		**17,000**			NS		<	23	U	**990**	
	WP-19	12	14-Nov-02	WP-19-12	Summa Canister				71.6	N	N			µg/m3	**430**		**44,000**		**12,000**		<	580	U	<	93	U	**14,000**		**3,200**		**15,000**			**98**		<	130	U	**520**	
	WP-18	16	11-Jun-02	WP-18-16#0131	Summa Canister				10	N	N			µg/m3	**160**	**EB**	**25,000**		**9,500**			**69**			**80**		**20,000**		**6,500**		**18,000**			NS		<	19	U	**1,200**	**AB**
	WP-18	16	9-Jul-02	WP-18-16#0093	Summa Canister				12	N	N			µg/m3	**190**	**EB**	**26,000**		**12,000**			**79**			**79**		**20,000**		**6,300**		**21,000**			NS		<	23	U	**1,200**	
	WP-18	16	14-Nov-02	WP-18-16	Summa Canister				35.8	N	N			µg/m3	<	120	U	**8,100**		**14,000**		<	290	U		**56**		**4,200**		**3,800**		**16,000**			**130**		<	63	U	**260**	
	WP-17	20	11-Jun-02	WP-17-20#0113	Summa Canister				2	N	N			µg/m3	**22**	**EB**	**5,800**		**3,000**			**29**			**35**		**6,800**		**2,500**		**7,500**			NS			**13**	**EB**	**580**	**AB**
	WP-17	20	24-Jun-02	WP-17	Tedlar Bag				1	N	N			µg/m3	<	1,000	U	**31,000**		**10,000**		<	1,000	U	<	1,000	U	**12,000**		**3,900**		NA			NS		<	1,000	U	<	1,000	U
	WP-17	20	9-Jul-02	WP-17-20#0095	Summa Canister				15	N	N			µg/m3	**270**	**EB**	**31,000**		**11,000**			**55**	J		**49**		**18,000**		**5,000**		**19,000**			NS			**180**	**EB**	**980**	
	WP-17	20	14-Nov-02	WP-17-20	Summa Canister				73.2	N	N			µg/m3	**750**		**52,000**		**16,000**		<	590	U	<	95	U	**17,000**		**4,000**		**20,000**			**120**			130	U	**600**	
	EN04-10D	20	26-Aug-04	EN0410D082604	Summa Canister	14.5	4.6	0.1	58.4	Y	N	2.2E-06		µg/m3	**630**		**50,000**		**14,000**		<	120	U	<	76	U	**17,000**		**3,800**		**14,000**		<	78	U		**440**	**J**	**360**	
	EN04-10D	20	23-Sep-04	EN0410D092304	Summa Canister	13.2	4.9	0.0	95.5	N	N	ND		µg/m3	**680**		**54,000**		**16,000**		<	190	U		**390**		**20,000**		**6,000**		**16,000**		<	130	U	<	170	U	<	370	U
	EN04-10D	20	21-Oct-04	EN0410D102104	Summa Canister	13.6	5.3	0.0	820	N	N	ND		µg/m3	**810**		**63,000**		**15,000**		<	390	U	<	210	U	**22,000**		**5,300**		**13,000**		<	220	U	<	280	U	<	630	U
	EN04-10D	20	18-Nov-04	EN0410D111804	Summa Canister	13.8	5.1	0.0	87.5	N	N	ND		µg/m3	**730**		**56,000**		**18,000**		<	170	U		**150**		**28,000**		**6,000**		**14,000**		<	120	U	<	150	U	**440**	
	EN04-10D	20	8-Dec-04	EN0410D120804	Summa Canister	14.8	4.1	0.0	73.2	N	N	ND		µg/m3	**810**		**57,000**		**17,000**		<	140	U		**140**		**26,000**		**6,600**		**14,000**		<	96	U	<	130	U	**470**	
	EN04-10D	20	11-Jan-05	EN0410D011105	Summa Canister	14.8	4.2	0.0	64.4	N	N			µg/m3	**730**		**54,000**		**17,000**		<	130	U		**86**		**27,000**		**6,400**		**13,000**		<	85	U	<	110	U	**460**	
	EN04-10D	20	24-Feb-05	EN0410D022405	Summa Canister	17.5	2.3	0.0	48.4	N	N			µg/m3	**660**		**43,000**		**13,000**		<	96	U		**110**		**38,000**		**6,900**		**10,000**			**67**		<	84	U	**480**	
	EN04-10D Dup.	20	24-Feb-05	DU2075022405	Summa Canister	17.5	2.3	0.0	65.6	N	N			µg/m3	**670**		**45,000**		**13,000**		<	130	U		**140**		**39,000**		**7,200**		**10,000**		<	86	U	<	110	U	**460**	
	EN04-10D	20	21-Mar-05	EN0410D032105	Summa Canister	15.7	3.2	0.0	67.2	N	N			µg/m3	**570**		**40,000**		**14,000**		<	130	U		**90**		**40,000**		**7,300**		**10,000**		<	89	U	<	120	U	**440**	
	EN04-10D	20	20-Apr-05	EN0410D042005	Summa Canister	16.5	2.9	0.0	45.8	N	N			µg/m3	**320**		**25,000**		**8,500**		<	91	U	<	58	U	**21,000**		**4,800**		**6,200**		<	60	U	<	80	U	**310**	
	EN04-10D	20	26-May-05	EN0410D052605	Summa Canister	15.7	3.0	0.0	35.8	N	N			µg/m3	**390**		**28,000**		**12,000**		<	71	U		**54**		**21,000**		**4,000**		**6,700**		<	47	U	<	62	U	**290**	
	EN04-10D Dup.	20	26-May-05	DU33719052605	Summa Canister	15.7	3.0	0.0	38.9	N	N			µg/m3	**390**		**27,000**		**11,000**		<	77	U	<	50	U	**21,000**		**4,200**		**6,600**		<	51	U	<	68	U	**240**	
	EN04-10D	20	23-Jun-05	EN0410D062305	Summa Canister	15.7	3.5	0.0	50	N	N			µg/m3	**500**		**34,000**		**13,000**		<	99	U	<	64	U	**24,000**		**6,100**		**8,000**		<	66	U	<	87	U	**380**	
	EN04-10D	20	8-Jul-05	EN0410D070805	Summa Canister	15.7	3.9	0.0	43.7	N	N			µg/m3	**540**		**37,000**		**15,000**		<	87	U	<	56	U	**26,000**		**6,600**		**8,900**		<	58	U	<	76	U	**300**	
	EN04-10D	20	23-Aug-05	EN0410D082305	Summa Canister	13.9	5.0	0.0	35.4	N	N			µg/m3	**550**		**37,000**		**15,000**			**98**		<	45	U	**25,000**		**6,200**		**9,100**			**57**		<	61	U	**340**	
	EN04-10D	20	20-Sep-05	EN0410D092005	Summa Canister	13.9	5.4	0.0	33.6	N	N			µg/m3	**340**		**24,000**		**9,600**		<	67	U	<	43	U	**14,000**		**3,700**		**5,300**		<	44	U		**69**		**190**	
	EN04-10D	20	12-Oct-05	EN0410D101205	Summa Canister	13.6	5.6	0.0	73	N	N			µg/m3	**620**		**53,000**		**19,000**		<	140	U	<	93	U	**28,000**		**6,400**		**10,000**		<	96	U	<	130	U	**340**	
	EN04-10D	20	15-Dec-05	EN0410D121505	Summa Canister	15.6	4.3	0.0	77.5	N	N			µg/m3	**770**		**52,000**		**20,000**		<	150	U	<	99	U	**30,000**		**7,700**		**11,000**		<	100	U	<	130	U	**420**	
	EN04-10D	20	16-Feb-06	EN0410D021606	Summa Canister	16.6	3.7	0.0	62	N	N			µg/m3	**590**		**41,000**		**15,000**			**140**		<	79	U	**22,000**		**6,300**		**8,000**		<	82	U	<	110	U	**440**	

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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-10 Continued		EN04-10D	20	5-Apr-06	EN0410D040506	Summa Canister	16.3	3.1	0.0	56	N	N			µg/m3	**500**	**36,000**	**13,000**	< 110 U	< 72 U	**18,000**	**5,600**	**7,100**	< 74 U	< 97 U	**330**
		EN04-10D	20	20-Jun-06	EN0410D062006	Summa Canister	17.3	3.7	0.0	71.6	N	N			µg/m3	**440**	**35,000**	**12,000**	< 140 U	< 92 U	**16,000**	**4,700**	**6,400**	< 94 U	< 120 U	**300**
		EN04-10D	20	15-Aug-06	EN0410D081506	Summa Canister	15.3	3.9	0.0	89.5	N	N			µg/m3	**670**	**46,000**	**15,000**	< 180 U	< 110 U	**21,000**	**6,500**	**8,100**	< 120 U	< 160 U	**340**
Implant Location	**EN04-11**	SG-074	8	13-Dec-02	SG074S121304	Summa Canister	17.4	2.5	0.0	1.71	N	N			µg/m3	< 5.9 U	**1,200**	< 3.4 U	< 14 U	< 2.2 U	**150**	< 3.4 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
Monitoring Well	**EN-215**	EN04-11S	8	23-Aug-04	EN0411S082304	Summa Canister	18.4	0.0	1.2	2.06	Y	N	1.6E-06		µg/m3	**7.7**	**890**	< 4.2 U	< 4.2 U	< 2.7 U	**28**	< 4.2 U	< 4.2 U	< 2.8 U	**4.6**	< 8.0 U
Water Table Depth (ft)	*28*	EN04-11S	8	22-Sep-04	EN0411S092204	Summa Canister	18.6	1.1	0.0	1.71	N	N	2.5E-07		µg/m3	**12**	**1,300**	< 3.4 U	< 3.4 U	< 2.2 U	**40**	< 3.4 U	< 3.5 U	< 2.3 U	< 3.0 UJ	< 6.7 U
Total VOCs	*320*	EN04-11S	8	19-Oct-04	EN0411S101904	Summa Canister	20.6	0.5	0.0	10.5	N	N	2.1E-06		µg/m3	**8.1**	**910**	< 4.2 U	< 5.0 U	< 2.7 U	**24**	< 4.2 U	< 4.2 U	< 2.8 U	< 3.6 U	< 8.0 U
Sum Ethenes	*300*	EN04-11S	8	15-Nov-04	EN0411S111504	Summa Canister	20.3	0.5	0.0	1.71	N	N	ND		µg/m3	< 5.8 U	**450**	< 3.4 U	< 3.4 U	< 2.2 U	**13**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
Sum Ethanes	*20*	EN04-11S	8	8-Dec-04	EN0411S120804	Summa Canister	20.9	0.0	0.0	1.64	N	N	ND		µg/m3	< 5.6 U	**490**	< 3.2 U	< 3.2 U	< 2.1 U	**11**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
Other		EN04-11S	8	10-Jan-05	EN0411S011005	Summa Canister	20.8	0.0	0.0	1.64	N	N			µg/m3	< 5.6 U	**320**	< 3.2 U	< 3.2 U	< 2.1 U	**6.3**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
		EN04-11S	8	24-Feb-05	EN0411S022405	Summa Canister	20.2	0.0	0.0	1.55	N	N			µg/m3	< 5.2 U	**210**	< 3.1 U	< 3.1 U	< 2 U	**6.5**	< 3.1 U	< 3.1 U	< 2.0 U	< 2.7 U	< 5.9 U
		EN04-11S	8	23-Mar-05	EN0411S032305	Summa Canister	19.2	0.4	0.0	1.83	N	N			µg/m3	< 6.2 U	**190**	< 3.6 U	< 3.6 U	< 2.3 U	**6.6**	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
		EN04-11S	8	18-Apr-05	EN0411S041805	Summa Canister	19.5	0.5	0.1	1.68	N	N			µg/m3	< 5.7 U	**180**	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
		EN04-11S	8	23-May-05	EN0411S052305	Summa Canister	19.7	0.7	0.0	1.91	N	N			µg/m3	**10**	**240**	< 3.8 U	< 3.8 U	< 2.4 U	< 5.2 U	< 3.8 U	< 3.9 U	< 2.5 U	< 3.3 U	< 7.3 U
		EN04-11S	8	21-Jun-05	EN0411S062105	Summa Canister	19.8	0.8	0.0	1.91	N	N			µg/m3	< 6.5 U	**500**	< 3.8 U	< 3.8 U	< 2.4 U	**8.4**	< 3.8 U	< 3.9 U	< 2.5 U	< 3.3 U	< 7.3 U
		EN04-11S Dup.	21	21-Jun-05	DU2092062105	Summa Canister	19.8	0.8	0.0	2.77	N	N			µg/m3	< 9.4 UJ	**470** J	< 5.5 UJ	< 5.5 UJ	< 3.5 UJ	**8.2** J	< 5.5 UJ	< 5.6 UJ	< 3.6 UJ	< 4.8 UJ	< 11 UJ
		EN04-11S	8	6-Jul-05	EN0411S070605	Summa Canister	19.3	1.0	0.0	1.68	N	N			µg/m3	**9.3**	**640**	< 3.3 U	< 3.3 U	< 2.1 U	**12**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
		EN04-11S	8	24-Aug-05	EN0411S082405	Summa Canister	19.1	1.1	0.0	1.75	N	N			µg/m3	**8.7**	**720**	< 3.5 U	< 3.5 U	< 2.2 U	**18**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
		EN04-11S	8	19-Sep-05	EN0411S091905	Summa Canister	20.6	0.6	0.0	1.68	N	N			µg/m3	**6.6**	**620**	< 3.3 U	< 3.3 U	< 2.1 U	**13**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
		EN04-11S	8	10-Oct-05	EN0411S101005	Summa Canister	20.1	0.4	0.0	1.61	N	N			µg/m3	**5.9**	**500**	< 3.2 U	< 3.2 U	< 2.0 U	**9.5**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
		EN04-11S	8	13-Dec-05	EN0411S121305	Summa Canister	20.3	0.2	0.0	1.64	N	N			µg/m3	< 5.6 U	**110**	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
		EN04-11S	8	14-Feb-06	EN0411S021406	Summa Canister	19.9	0.0	0.0	2.58	N	N			µg/m3	< 8.8 U	**88**	< 5.1 U	< 5.1 U	< 3.3 U	< 7.0 U	< 5.1 U	< 5.2 U	< 3.4 U	< 4.5 U	< 9.9 U
		EN04-11S	8	4-Apr-06	EN0411S040406	Summa Canister	20.2	0.2	0.0	1.71	N	N			µg/m3	< 5.8 U	**79**	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
		EN04-11S Dup.	8	4-Apr-06	DU21019040406	Summa Canister	20.2	0.2	0.0	1.71	N	N			µg/m3	< 5.8 U	**80**	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
		EN04-11S	8	19-Jun-06	EN0411S061906	Summa Canister	20	0.0	0.0	1.68	N	N			µg/m3	< 5.7 U	**190**	< 3.3 U	< 3.3 U	< 2.1 U	**5.8**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
		EN04-11S	8	14-Aug-06	EN0411S081406	Summa Canister	20.5	1.0	0.0	2.52	N	N			µg/m3	< 8.5 U	**370**	**8.0**	**33**	< 3.2 U	**9.8**	< 5.0 U	< 5.1 U	**6.7**	**12**	< 9.6 U
		EN04-11D	21	23-Aug-04	EN0411D082304	Summa Canister	19.2	0.0	0.5	8.48	Y	N	1.0E-05		µg/m3	**92**	**5,300**	**37**	< 17 U	< 11 U	**200**	< 17 U	< 17 U	< 11 U	< 15 U	< 33 U
		EN04-11D	21	22-Sep-04	EN0411D092204	Summa Canister	19.2	0.6	0.1	11.4	N	N	6.4E-06		µg/m3	**120**	**6,500**	**40**	< 23 U	< 15 U	**210**	< 23 U	< 23 U	< 15 U	< 20 UJ	< 44 U
		EN04-11D Dup.	21	22-Sep-04	DU93109092204	Summa Canister	19.2	0.6	0.1	11.4	N	N	6.5E-06		µg/m3	**120**	**6,700**	**40**	< 23 U	< 15 U	**200**	< 23 U	< 23 U	< 15 U	< 20 UJ	< 44 U
		EN04-11D	21	19-Oct-04	EN0411D101904	Summa Canister	21.1	0.5	0.0	95	N	N	1.2E-06		µg/m3	**130**	**5,800**	< 38 U	< 45 U	< 24 U	**160**	< 38 U	< 38 U	< 25 U	< 33 U	< 73 U
		EN04-11D	21	15-Nov-04	EN0411D111504	Summa Canister	20.4	0.6	0.0	6.88	N	N	1.6E-07		µg/m3	**98**	**4,900**	**30**	< 14 U	< 8.8 U	**170**	< 14 U	< 14 U	< 9.1 U	< 12 U	< 26 U
		EN04-11D	21	8-Dec-04	EN0411D120804	Summa Canister	21.0	0.0	0.0	8.05	N	N	ND		µg/m3	**130**	**6,400**	**30**	< 16 U	< 10 U	**170**	< 16 U	< 16 U	< 11 U	< 14 U	< 31 U
		EN04-11D	21	10-Jan-05	EN0411D011005	Summa Canister	20.8	0.0	0.0	6.44	N	N			µg/m3	**130**	**6,900**	**28**	< 13 U	< 8.2 U	**170**	< 13 U	< 13 U	< 8.5 U	< 11 U	< 25 U
		EN04-11D	21	24-Feb-05	EN0411D022405	Summa Canister	20.0	0.0	0.0	7.6	N	N			µg/m3	**130**	**5,600**	**20**	< 15 U	< 9.7 U	**170**	< 15 U	< 15 U	< 10 U	**28**	< 29 U
		EN04-11D	21	23-Mar-04	EN0411D032305	Summa Canister	20.3	0.1	0.0	10.1	N	N			µg/m3	**93**	**4,800**	< 20 U	< 20 U	< 13 U	**110**	< 20 U	< 20 U	< 13 U	< 18 U	< 39 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-11 Continued	EN04-11D	21	18-Apr-05	EN0411D041805	Summa Canister	20.0	0.2	0.0	5	N	N			µg/m3	**68**	**3,600**	**11**	< 9.9 U	< 6.4 U	**91**	< 9.9 U	< 10 U	< 6.6 U	< 8.7 U	< 19 U
	EN04-11D	21	23-May-05	EN0411D052305	Summa Canister	20.5	0.0	0.0	5.47	N	N			µg/m3	**60**	**2,900**	**12**	< 11 U	< 7.0 U	**70**	< 11 U	< 11 U	< 7.2 U	< 9.5 U	< 21 U
	EN04-11D	21	21-Jun-05	EN0411D062105	Summa Canister	20.7	0.0	0.0	4.77	N	N			µg/m3	**76**	**3,600**	**12**	< 9.4 U	< 6.1 U	**73**	< 9.4 U	< 9.6 U	< 6.3 U	< 8.3 U	< 18 U
	EN04-11D	21	6-Jul-05	EN0411D070605	Summa Canister	20.3	0.0	0.0	4.77	N	N			µg/m3	**78**	**3,600**	**14**	< 9.4 U	< 6.1 U	**71**	< 9.4 U	< 9.6 U	< 6.3 U	< 8.3 U	< 18 U
	EN04-11D	21	24-Aug-05	EN0411D082405	Summa Canister	20.2	0.1	0.0	4.16	N	N			µg/m3	**70**	**3,400**	**13**	< 8.2 U	< 5.3 U	**72**	< 8.2 U	< 8.4 U	< 5.5 U	< 7.2 U	< 16 U
	EN04-11D	21	19-Sep-05	EN0411D091905	Summa Canister	20.2	0.3	0.0	3.82	N	N			µg/m3	**70**	**3,500**	**14**	< 7.6 U	< 4.9 U	**69**	< 7.6 U	< 7.7 U	< 5.0 U	< 6.6 U	< 15 U
	EN04-11D	21	10-Oct-05	EN0411D101005	Summa Canister	20.3	0.4	0.0	6.56	N	N			µg/m3	**77**	**3,900**	**14**	< 13 U	< 8.4 U	**75**	< 13 U	< 13 U	< 8.6 U	< 11 U	< 25 U
	EN04-11D	21	13-Dec-05	EN0411D121305	Summa Canister	20.5	0.3	0.0	2.26	N	N			µg/m3	**50**	**2,200**	**8.8**	< 4.5 U	< 2.9 U	**44**	< 4.5 U	< 4.6 U	< 3.0 U	< 3.9 U	< 8.7 U
	EN04-11D	21	14-Feb-06	EN0411D021406	Summa Canister	20.1	0.0	0.0	3.7	N	N			µg/m3	**56**	**2,500**	**7.5**	< 7.3 U	< 4.7 U	**44**	< 7.3 U	< 7.5 U	< 4.9 U	< 6.4 U	< 14 U
	EN04-11D	21	4-Apr-06	EN0411D040406	Summa Canister	20.5	0.2	0.0	2.34	N	N			µg/m3	**58**	**2,400**	**8.1**	< 4.6 U	< 3.0 U	**46**	< 4.6 U	< 4.7 U	< 3.1 U	< 4.1 U	< 9.0 U
	EN04-11D Dup.	21	4-Apr-06	DU34144040406	Summa Canister	20.5	0.2	0.0	2.34	N	N			µg/m3	**63**	**2,500**	**8.8**	< 4.6 U	< 3.0 U	**52**	< 4.6 U	< 4.7 U	< 3.1 U	< 4.1 U	< 9.0 U
	EN04-11D	21	19-Jun-06	EN0411D061906	Summa Canister	18.7	0.6	0.0	3.5	N	N			µg/m3	**47**	**2,300**	< 6.9 U	< 6.9 U	< 4.5 U	**45**	< 6.9 U	< 7.1 U	< 4.6 U	< 6.1 U	< 13 U
	EN04-11D	21	14-Aug-06	EN0411D081406	Summa Canister	21.6	0.0	0.0	2.58	N	N			µg/m3	**21**	**920**	< 5.1 U	< 5.1 U	< 3.3 U	**17**	< 5.1 U	< 5.2 U	< 3.4 U	**160**	< 9.9 U
Implant Location **EN04-12**	EN04-12S	8	23-Aug-04	EN0412S082304	Summa Canister	16.5	3.4	0.0	5.65	Y	N	3.0E-04		µg/m3	< 19 U	**3,100**	< 11 U	< 11 U	< 7.3 U	**98**	**16**	< 12 U	< 7.6 U	< 10 U	< 22 U
Monitoring Well **EN-214A**	EN04-12S	8	21-Sep-04	EN0412S092104	Summa Canister	15.8	3.9	0.0	5.23	N	N	1.8E-05		µg/m3	< 18 U	**4,400**	< 10 U	< 10 U	< 6.8 U	**150**	< 10 U	< 11 U	< 7.0 U	< 9.2 UJ	< 20 U
Water Table Depth (ft) *25*	EN04-12S	8	20-Oct-04	EN0412S102004	Summa Canister	17.9	3.2	0.0	42	N	N	2.2E-07		µg/m3	< 28 U	**3,200**	< 17 U	< 20 U	< 11 U	**95**	< 17 U	< 17 U	< 11.0 U	< 14 U	< 32 U
Total VOCs *52*	EN04-12S	8	17-Nov-04	EN0412S111704	Summa Canister	18.4	2.6	0.0	4.29	Y	N	8.1E-08		µg/m3	< 14 U	**2,600**	< 8.5 U	< 8.5 U	< 5.5 U	**97**	< 8.5 U	< 8.7 U	< 5.7 U	< 7.4 U	< 16 U
Sum Ethenes *50*	EN04-12S Dup.	8	17-Nov-04	DU34592111704	Summa Canister	18.4	2.6	0.0	3.1	N	N	7.9E-08		µg/m3	< 10 U	**2,500**	< 6.1 U	< 6.1 U	< 4.0 U	**92**	< 6.1 U	< 6.3 U	< 4.1 U	< 5.4 U	< 12 U
Sum Ethanes *2*	EN04-12S	8	8-Dec-04	EN0412S120804	Summa Canister	18.9	1.7	0.0	1.64	N	N	4.4E-08		µg/m3	< 5.6 U	**660**	< 3.2 U	< 3.2 U	< 2.1 U	**28**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
Other	EN04-12S	8	12-Jan-05	EN0412S011205	Summa Canister	19.7	1.1	0.0	1.58	N	N			µg/m3	< 5.4 U	**510**	< 3.1 U	< 3.1 U	< 2.0 U	**21**	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
	EN04-12S	8	24-Feb-05	EN0412S022405	Summa Canister	20.4	0.0	0.0	1.49	N	N			µg/m3	< 5.0 U	**440**	< 3.0 U	< 3.0 U	< 1.9 U	**19**	< 3.0 U	< 3.0 U	< 2.0 U	< 2.6 U	< 5.7 U
	EN04-12S	8	23-Mar-05	EN0412S032305	Summa Canister	19.7	1.1	0.0	1.75	N	Y	ND		µg/m3	< 5.9 U	**810**	< 3.5 U	< 3.5 U	< 2.2 U	**31**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-12S	8	19-Apr-05	EN0412S041905	Summa Canister	19.4	1.0	0.0	1.71	N	Y	ND		µg/m3	< 5.8 U	**750**	< 3.4 U	< 3.4 U	< 2.2 U	**28**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-12S	8	25-May-05	EN0412S052505	Summa Canister	17.5	1.7	0.0	8.4	N	N			µg/m3	< 5.7 U	**700**	< 3.3 U	< 3.3 U	< 2.1 U	**32**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-12S	8	21-Jun-05	EN0412S062105	Summa Canister	18.4	1.9	0.0	1.71	N	N			µg/m3	< 5.8 U	**1,800**	< 3.4 U	< 3.4 U	< 2.2 U	**43**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-12S	8	7-Jul-05	EN0412S070705	Summa Canister	17.3	2.5	0.0	3.5	N	N			µg/m3	< 12 U	**2,700** J	< 6.9 U	< 6.9 U	< 4.5 U	**57**	< 6.9 U	< 7.1 U	< 4.6 U	< 6.1 U	< 13.0 U
	EN04-12S Dup.	8	7-Jul-05	DU33732070705	Summa Canister	17.3	2.5	0.0	3.42	N	N			µg/m3	< 12 U	**1,800** J	< 6.8 U	< 6.8 U	< 4.4 U	**43**	< 6.8 U	< 6.9 U	< 4.5 U	< 5.9 U	< 13.0 U
	EN04-12S	8	24-Aug-05	EN0412S082405	Summa Canister	18.8	2.3	0.0	3.35	N	N			µg/m3	< 11 U	**2,500**	< 6.6 U	< 6.6 U	< 4.3 U	**51**	< 6.6 U	< 6.8 U	< 4.4 U	< 5.8 U	< 13.0 U
	EN04-12S	8	19-Sep-05	EN0412S091905	Summa Canister	18.5	2.3	0.0	3.42	N	N			µg/m3	< 12 U	**1,800**	< 6.8 U	< 6.8 U	< 4.4 U	**48**	< 6.8 U	< 6.9 U	< 4.5 U	< 5.9 U	< 13.0 U
	EN04-12S	8	11-Oct-05	EN0412S101105	Summa Canister	18.0	2.4	0.1	4.48	N	N			µg/m3	< 15 U	**2,400**	< 8.9 U	< 8.9 U	< 5.7 U	**57**	< 8.9 U	< 9.1 U	< 5.9 U	< 7.8 U	< 17.0 U
	EN04-12S	8	13-Dec-05	EN0412S121305	Summa Canister	18.6	2.6	0.0	1.52	N	N			µg/m3	< 5.2 U	**700**	< 3.0 U	< 3.0 U	< 1.9 U	**29**	< 3.0 U	< 3.1 U	< 2.0 U	< 2.6 U	< 5.8 U
	EN04-12S	8	15-Feb-06	EN0412D021506	Summa Canister	19.7	1.3	0.0	1.64	N	N			µg/m3	< 5.6 U	**760**	< 3.2 U	< 3.2 U	< 2.1 U	**32**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-12S	8	3-Apr-06	EN0412S040306	Summa Canister	19.7	0.8	0.0	2.22	N	N			µg/m3	< 7.5 U	**630**	< 4.4 U	< 4.4 U	< 2.8 U	**22**	< 4.4 U	< 4.5 U	< 2.9 U	< 3.8 U	< 8.5 U
	EN04-12S	8	20-Jun-06	EN0412S062006	Summa Canister	19.3	2.2	0.0	1.71	N	N			µg/m3	< 5.8 U	**930**	< 3.4 U	< 3.4 U	< 2.2 U	**22**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-12S	8	15-Aug-06	EN0412S081506	Summa Canister	17.1	3.7	0.0	2.87	N	N			µg/m3	< 9.7 U	**2,000**	< 5.7 U	< 5.7 U	< 3.7 U	**51**	< 5.7 U	< 5.8 U	< 3.8 U	**26**	< 11 U

Table B.1
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-12 Continued	EN04-12D	19	23-Aug-04	EN0412D082304	Summa Canister	16.2	3.2	0.0	10.6	Y	N	2.0E-05		µg/m3	<	36	U		**6,700**		<	21	U	<	21	U	<	14	U		**240**		<	21	U	<	22	U	<	14	U	<	19	U	<	41	U
	EN04-12D	19	21-Sep-04	EN0412D092104	Summa Canister	14.9	4.2	0.0	7.48	N	N	7.8E-05		µg/m3	<	26	U		**5,400**		<	15	U	<	15	U	<	9.7	U		**190**		<	15	U	<	15	U	<	10	U	<	13	UJ	<	29	U
	EN04-12D	19	20-Oct-04	EN0412D102004	Summa Canister	17.2	4.2	0.0	98.8	N	N	1.6E-06		µg/m3	<	67	U		**7,600**		<	39	U	<	47	U	<	25	U		**240**		<	39	U	<	40	U	<	26	U	<	34	U	<	76	U
	EN04-12D	19	17-Nov-04	EN0412D111704	Summa Canister	17.2	4.0	0.0	5.84	N	N	1.2E-07		µg/m3	<	20	U		**5,900**			**14**		<	12	U	<	7.5	U		**240**		<	12	U	<	12	U	<	7.7	U	<	10	U	<	22	U
	EN04-12D	19	8-Dec-04	EN0412D120804	Summa Canister	17.8	2.9	0.0	7	N	N	ND		µg/m3	<	24	U		**5,200**		<	14	U	<	14	U	<	8.9	U		**200**		<	14	U	<	14	U	<	9.2	U	<	12	U	<	27	U
	EN04-12D Dup.	19	8-Dec-04	DU34132120804	Summa Canister	17.8	2.9	0.0	7	N	N	ND		µg/m3	<	24	U		**6,400**			**15**		<	14	U	<	8.9	U		**210**		<	14	U	<	14	U	<	9.2	U	<	12	U	<	27	U
	EN04-12D	19	12-Jan-05	EN0412D011205	Summa Canister	20.7	0.0	0.1	1.36	N	N			µg/m3	<	4.6	UJ		**51**	J	<	2.7	UJ	<	2.7	UJ	<	1.7	UJ	<	3.7	UJ	<	2.7	UJ	<	2.8	UJ	<	1.8	UJ		**3.6**	J	<	5.2	UJ
	EN04-12D	19	24-Feb-05	EN0412D022405	Summa Canister	20.4	0.0	0.0	8.4	N	N			µg/m3	<	28	U		**6,400**		<	17	U	<	17	U	<	11	U		**250**		<	17	U	<	17	U	<	11	U	<	14	U	<	32	U
	EN04-12D	19	23-Mar-05	EN0412D032305	Summa Canister	19.0	2.0	0.0	6.72	N	Y	ND		µg/m3	<	23	U		**4,100**		<	13	U	<	13	U	<	8.6	U		**140**		<	13	U	<	14	U	<	8.9	U	<	12	U	<	26	U
	EN04-12D	19	19-Apr-05	EN0412D041905	Summa Canister	19.3	1.5	0.0	7.48	N	Y	ND		µg/m3	<	25	U		**4,700**		<	15	U	<	15	U	<	9.6	U		**160**		<	15	U	<	15	U	<	9.9	U	<	13	U	<	29	U
	EN04-12D	19	25-May-05	EN0412D052505	Summa Canister	17.3	1.7	0.0	4.89	N	N			µg/m3	<	16	U		**3,400**		<	9.7	U	<	9.7	U	<	6.2	U		**97**		<	9.7	U	<	9.9	U	<	6.4	U	<	8.5	U	<	19	U
	EN04-12D	19	21-Jun-05	EN0412D062105	Summa Canister	18.0	1.7	0.0	6.84	N	N			µg/m3	<	23	U		**4,400**		<	14	U	<	14	U	<	8.7	U		**110**		<	14	U	<	14	U	<	9.0	U	<	12	U	<	26	U
	EN04-12D	19	7-Jul-05	EN0412D070705	Summa Canister	17.5	2.2	0.0	7.84	N	N			µg/m3	<	26	U		**5,200**		<	16	U	<	16	U	<	10	U		**120**		<	16	U	<	16	U	<	10	U	<	14	U	<	30	U
	EN04-12D	19	24-Aug-05	EN0412D082405	Summa Canister	18.2	2.6	0.0	3.66	N	N			µg/m3	<	12	U		**3,900**		<	7.2	U	<	7.2	U	<	4.7	U		**80**		<	7.2	U	<	7.4	U	<	4.8	U	<	6.4	U	<	14	U
	EN04-12D	19	19-Sep-05	EN0412D091905	Summa Canister	17.9	2.9	0.0	3.54	N	N			µg/m3	<	12	U		**2,000**		<	7.0	U	<	7.0	U	<	4.5	U		**48**		<	7.0	U	<	7.2	U	<	4.7	U		**9.5**		<	14	U
	EN04-12D	19	11-Oct-05	EN0412D101105	Summa Canister	17.6	3.1	0.0	5.23	N	N			µg/m3	<	18	U		**3,400**		<	10	U	<	10	U	<	6.7	U		**84**		<	10	U	<	10	U	<	6.9	U	<	9.1	U	<	20	U
	EN04-12D	19	13-Dec-05	EN0412D121305	Summa Canister	18.5	1.8	0.0	2.48	N	N			µg/m3	<	8.4	U		**1,900**		<	4.9	U	<	4.9	U	<	3.2	U		**72**		<	4.9	U	<	5.0	U	<	3.3	U	<	4.3	U	<	9.5	U
	EN04-12D	19	15-Feb-06	EN0412S021506	Summa Canister	19.7	1.7	0.0	6.44	N	N			µg/m3	<	22	U		**3,800**		<	13	U	<	13	U	<	8.2	U		**140**		<	13	U	<	13	U	<	8.5	U	<	11	U	<	25	U
	EN04-12D	19	3-Apr-06	EN0412D040306	Summa Canister	19.3	0.9	0.0	1.61	N	N			µg/m3	<	5.5	U		**640**		<	3.2	U	<	3.2	U	<	2.0	U		**24**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-12D	19	20-Jun-06	EN0412D062006	Summa Canister	19.5	2.1	0.0	2.64	N	N			µg/m3	<	9.0	U		**2,100**		<	5.2	U	<	5.2	U	<	3.4	U		**47**		<	5.2	U	<	5.3	U	<	3.5	U	<	4.6	U	<	10	U
	EN04-12D	19	15-Aug-06	EN0412D081506	Summa Canister	16.9	3.7	0.0	3.42	N	N			µg/m3	<	12	U		**3,200**		<	6.8	U	<	6.8	U	<	4.4	U		**63**		<	6.8	U	<	6.9	U	<	4.5	U	<	5.9	U	<	13	U
Implant Location **EN04-13**	EN04-13S	8	25-Aug-04	EN0413S082504	Summa Canister	15.8	3.8	0.0	2.82	Y	N	2.1E-02		µg/m3	<	9.7	U		**1,600**		<	5.7	U	<	5,7	U	<	3.7	U		**330**			**15**		<	5.8	U	<	3.8	U	<	5.0	U	<	11	U
Monitoring Well **EN-449**	EN04-13S Dup.	8	25-Aug-04	DU11823082504	Summa Canister	15.8	3.8	0.0	2.53	Y	N			µg/m3	<	8.7	U		**1,300**		<	5.1	U	<	5.1	U	<	3.3	U		**270**			**10**		<	5.2	U	<	3.4	UJ	<	4.5	U	<	9.8	U
Water Table Depth (ft) *35*	EN04-13S	8	22-Sep-04	EN0413S092204	Summa Canister	18.6	1.3	0.0	1.68	N	N	6.1E-05		µg/m3	<	5.8	U		**1,100**		<	3.4	U	<	3.4	U	<	2.2	U		**230**		<	3.4	U	<	3.4	U	<	2.2	U	<	3.0	UJ	<	6.5	U
Total VOCs *210*	EN04-13S	8	19-Oct-04	EN0413S101904	Summa Canister	20.3	1.1	0.0	1.58	N	N	2.9E-06		µg/m3	<	5.4	U		**510**		<	3.1	U	<	3.1	U	<	2.0	U		**91**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
Sum Ethenes *200*	EN04-13S	8	17-Nov-04	EN0413S111704	Summa Canister	19.5	1.2	0.0	1.58	N	N	2.3E-06		µg/m3	<	5.4	U		**260**		<	3.1	U	<	3.1	U	<	2.0	U		**69**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
Sum Ethanes *10*	EN04-13S	8	8-Dec-04	EN0413S120804	Summa Canister	19.2	1.4	0.0	1.64	N	N	1.2E-06		µg/m3	<	5.6	U		**610**		<	3.2	U	<	3.2	U	<	2.1	U		**150**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Other	EN04-13S	8	11-Jan-05	EN0413S011105	Summa Canister	20.7	0.1	0.0	1.75	N	N			µg/m3	<	5.9	U		**1,100**		<	3.5	U	<	3.5	U	<	2.2	U		**350**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U		**10**	
	EN04-13S	8	24-Feb-05	EN0413S022405	Summa Canister	20.4	0.0	0.0	1.58	N	N			µg/m3	<	5.4	U		**920**		<	3.1	U	<	3.1	U	<	2.0	U		**380**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U		**11**	
	EN04-13S	8	23-Mar-05	EN0413S032305	Summa Canister	17.9	2.7	0.1	1.64	N	Y	ND		µg/m3	<	5.6	U		**870**		<	3.2	U	<	3.2	U	<	2.1	U		**370**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U		**10**	
	EN04-13S	8	19-Apr-05	EN0413S041905	Summa Canister	17.4	2.7	0.0	1.71	N	Y	ND		µg/m3	<	5.8	U		**740**		<	3.4	U	<	3.4	U	<	2.2	U		**220**			**11**		<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-13S Dup.	8	19-Apr-05	DU9436041905	Summa Canister	17.4	2.7	0.0	1.71	N	Y	ND		µg/m3	<	5.8	U		**790**		<	3.4	U	<	3.4	U	<	2.2	U		**240**			**11**		<	3.5	U	<	2.2	U	<	3.0	U		**7.3**	
	EN04-13S	8	24-May-05	EN0413S052405	Summa Canister	17.6	3.2	0.0	1.71	N	N			µg/m3	<	5.8	U		**1,200**		<	3.4	U	<	3.4	U	<	2.2	U		**280**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-13S	8	21-Jun-05	EN0413S062105	Summa Canister	16.7	3.7	0.0	2.8	N	N			µg/m3	<	9.5	U		**2,200**		<	5.6	U	<	5.6	U	<	3.6	U		**420**		<	5.6	U	<	5.7	U	<	3.7	U	<	4.9	U	<	11	U
	EN04-13S	8	7-Jul-05	EN0413S070705	Summa Canister	18.0	3.0	0.0	3.36	N	N			µg/m3	<	11	U		**1,800**		<	6.7	U	<	6.7	U	<	4.3	U		**330**		<	6.7	U	<	6.8	U	<	4.4	U	<	5.8	U	<	13	U

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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-13 Continued	EN04-13S	8	23-Aug-05	EN0413S082305	Summa Canister	16.8	4.1	0.0	4.56	N	N			µg/m3	<	15	U		**3,700**	J	<	9.0	U	<	9.0	U	<	5.8	U		**460**	J	<	9.0	U	<	9.2	U	<	6.0	U	<	7.9	U	<	17	U
	EN04-13S Dup.	8	23-Aug-05	DU21019082305	Summa Canister	16.8	4.1	0.0	3.22	N	N			µg/m3	<	11	U		**2,700**	J	<	6.4	U	<	6.4	U	<	4.1	U		**330**	J	<	6.4	U	<	6.5	U	<	4.2	U	<	5.6	U	<	12	U
	EN04-13S	8	20-Sep-05	EN0413S092005	Summa Canister	16.5	4.0	0.0	4.02	N	N			µg/m3	<	14	U		**1,800**		<	8.0	U	<	8.0	U	<	5.1	U		**300**		<	8.0	U	<	8.1	U	<	5.3	U	<	7.0	U	<	15	U
	EN04-13S	8	11-Oct-05	EN0413S101105	Summa Canister	17.2	4.0	0.0	3.36	N	N			µg/m3	<	11	U		**2,400**		<	6.7	U	<	6.7	U	<	4.3	U		**410**		<	6.7	U	<	6.8	U	<	4.4	U	<	5.8	U	<	13	U
	EN04-13S	8	13-Dec-05	EN0413S121305	Summa Canister	17.7	2.7	0.0	1.55	N	N			µg/m3	<	5.2	U		**770**		<	3.1	U	<	3.1	U	<	2.0	U		**210**			**3.5**		<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
	EN04-13S	8	15-Feb-06	EN0413S021506	Summa Canister	17.7	2.2	0.0	1.87	N	N			µg/m3	<	6.3	U		**650**		<	3.7	U	<	3.7	U	<	2.4	U		**210**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-13S	8	5-Apr-06	EN0413S040506	Summa Canister	18.7	2.3	0.1	3.39	N	Y	ND		µg/m3	<	11	U		**840**		<	6.7	U	<	6.7	U	<	4.3	U		**240**		<	6.7	U	<	6.9	U	<	4.5	U	<	5.9	U	<	13	U
	EN04-13S	8	20-Jun-06	EN0413S062006	Summa Canister	17.5	3.1	0.0	2.15	N	N			µg/m3	<	7.3	U		**1,900**		<	4.3	U	<	4.3	U	<	2.7	U		**320**		<	4.3	U	<	4.4	U	<	2.8	U	<	3.7	U	<	8.2	U
	EN04-13S	8	16-Aug-06	EN0413S081606	Summa Canister	16.4	4.9	0.0	3.36	N	N			µg/m3	<	11	U		**2,400**		<	6.7	U	<	6.7	U	<	4.3	U		**310**		<	6.7	U	<	6.8	U	<	4.4	U	<	5.8	U	<	13	U
	EN04-13D	30	25-Aug-04	EN0413D082504	Summa Canister	16.4	3.4	0.0	14.1	Y	N	1.3E-06		µg/m3	<	49	U		**13,000**		<	28	U	<	28	U	<	18	U		**1,600**		<	28	U	<	29	U	<	19	U	<	25	U	<	55	U
	EN04-13D	30	22-Sep-04	EN0413D092204	Summa Canister	15.8	3.7	0.0	18.7	N	N	2.7E-06		µg/m3	<	64	U		**16,000**		<	38	U	<	38	U	<	24	U		**1,800**			**70**		<	38	U	<	25	U	<	33	U	<	73	U
	EN04-13D	30	19-Oct-04	EN0413D101904	Summa Canister	17.0	3.2	0.0	12.9	N	N	5.9E-06		µg/m3	<	44	U		**8,400**		<	26	U	<	26	U	<	16	U		**1000**		<	26	U	<	26	U	<	17	U	<	22	U	<	49	U
	EN04-13D	30	17-Nov-04	EN0413D111704	Summa Canister	20.5	0.4	0.0	1.64	N	N	2.1E-07		µg/m3	<	5.6	U		**270**		<	3.2	U	<	3.2	U	<	2.1	U		**33**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-13D	30	8-Dec-04	EN0413D120804	Summa Canister	21	0.0	0.0	1.68	N	N	ND		µg/m3	<	5.7	U		**500**		<	3.3	U	<	3.3	U	<	2.1	U		**32**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-13D	30	11-Jan-05	EN0413D011105	Summa Canister	20.7	0.0	0.2	6.56	N	N			µg/m3	<	22	U		**5,100**		<	13	U	<	13	U	<	8.4	U		**790**		<	13	U	<	13	U	<	8.6	U	<	11	U	<	25	U
	EN04-13D	30	24-Feb-05	EN0413D022405	Summa Canister	20.4	0.0	0.0	6.44	N	N			µg/m3	<	22	U		**5,400**		<	13	U	<	13	U	<	8.2	U		**1100**		<	13	U	<	13	U	<	8.5	U	<	11	U	<	25	U
	EN04-13D	30	23-Mar-05	EN0413D032305	Summa Canister	19.0	1.6	0.1	1.52	N	Y	ND		µg/m3	<	5.2	U		**570**		<	3.0	U	<	3.0	U	<	1.9	U		**91**		<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
	EN04-13D	30	19-Apr-05	EN0413D041905	Summa Canister	17.7	2.3	0.0	2.44	N	Y	ND		µg/m3	<	8.3	U		**1,400**		<	4.8	U	<	4.8	U	<	3.1	U		**250**			**7.9**		<	4.9	U	<	3.2	U	<	4.2	U	<	9.4	U
	EN04-13D	30	24-May-05	EN0413D052405	Summa Canister	20.0	1.1	0.0	1.58	N	N			µg/m3	<	5.4	U		**230**		<	3.1	U	<	3.1	U	<	2.0	U		**16**		<	3.1	U	<	3.2	U	<	2.1	U		**2.8**		<	6.0	U
	EN04-13D	30	21-Jun-05	EN0413D062105	Summa Canister	17.8	2.2	0.0	5.23	N	N			µg/m3	<	18	U		**3,900**		<	10	U	<	10	U	<	6.7	U		**660**		<	10	U	<	10	U	<	6.9	U	<	9.1	U	<	20	U
	EN04-13D	30	7-Jul-05	EN0413D070705	Summa Canister	19.4	1.2	0.0	1.71	N	N			µg/m3	<	5.8	U		**320**		<	3.4	U	<	3.4	U	<	2.2	U		**21**		<	3.4	U	<	3.5	U		**4.2**		<	3.0	U	<	6.6	U
	EN04-13D	30	23-Aug-05	EN04135082305	Summa Canister	18.6	2.0	0.0	1.96	N	N			µg/m3	<	6.6	U		**280**		<	3.9	U	<	3.9	U	<	2.5	U		**22**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.4	U	<	7.5	U
	EN04-13D Dup.	30	23-Aug-05	DU31768082305	Summa Canister	18.6	2.0	0.0	1.87	N	N			µg/m3	<	6.3	U		**290**		<	3.7	U	<	3.7	U	<	2.4	U		**22**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-13D	30	20-Sep-05	EN04135092005	Summa Canister	18.8	1.8	0.0	1.71	N	N			µg/m3	<	5.8	U		**350**		<	3.4	U	<	3.4	U	<	2.2	U		**40**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-13D	30	11-Oct-05	EN04135S101105	Summa Canister	19.2	1.3	0.0	1.61	N	N			µg/m3	<	5.5	U		**350**		<	3.2	U	<	3.2	U	<	2	U		**26**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-13D	30	13-Dec-05	EN0413D121305	Summa Canister	20.4	0.4	0.0	1.55	N	N			µg/m3	<	5.2	U		**740**		<	3.1	U	<	3.1	U	<	2.0	U		**110**		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
	EN04-13D	30	15-Feb-06	EN0413D021506	Summa Canister	19.3	0.6	0.0	1.83	N	N			µg/m3	<	6.2	U		**620**		<	3.6	U	<	3.6	U	<	2.3	U		**100**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-13D	30	5-Apr-06	EN0413D040506	Summa Canister	20.3	0.7	0.1	1.71	N	Y	ND		µg/m3	<	5.8	U		**520**		<	3.4	U	<	3.4	U	<	2.2	U		**54**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-13D	30	20-Jun-06	EN0413D062006	Summa Canister	18.2	2.4	0.0	1.68	N	N			µg/m3	<	5.7	U		**150**		<	3.3	U	<	3.3	U	<	2.1	U		**8.4**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-13D	30	16-Aug-06	EN0413D081606	Summa Canister	20.7	1.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**120**		<	3.4	U	<	3.4	U	<	2.2	U		**5.3**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U

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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
Implant Location	**EN04-14**	EN04-14S	8	23-Aug-04	EN0414S082304	Summa Canister	16.9	2.8	0.0	2.01	Y	N	1.2E-06		µg/m3	<	6.9	U		**33**		<	4.0	U	<	4.0	U	<	2.6	U		**16**		<	4.0	U	<	4.1	U	<	2.7	U		**4.7**		<	7.8	U
Monitoring Well	**EN-462**	EN04-14S	8	20-Sep-04	EN0414S092004	Summa Canister	16.4	3.0	0.0	1.87	N	N	1.9E-05		µg/m3	<	6.4	U		**52**		<	3.8	U	<	3.8	U	<	2.4	U		**33**		<	3.8	U	<	3.8	U	<	2.5	U	<	3.3	U	<	7.3	U
Water Table Depth (ft)	*39*	EN04-14S	8	18-Oct-04	EN0414S101804	Summa Canister	18.8	2.6	0.0	8.2	N	N	4.4E-06		µg/m3	<	5.6	U		**38**		<	3.2	U	<	3.9	U	<	2.1	U		**24**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Total VOCs	*62*	EN04-14S	8	16-Nov-04	EN0414S111604	Summa Canister	18.8	2.5	0.0	1.68	N	N	8.0E-07		µg/m3	<	5.7	U		**41**		<	3.3	U	<	3.3	U	<	2.1	U		**32**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Sum Ethenes	*60*	EN04-14S	8	8-Dec-04	EN0414S120804	Summa Canister	19.6	1.6	0.0	1.64	N	N	3.3E-07		µg/m3	<	5.6	U		**24**		<	3.2	U	<	3.2	U	<	2.1	U		**26**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethanes	*2*	EN04-14S	8	11-Jan-05	EN0414S011105	Summa Canister	19.7	1.8	0.1	1.49	N	N			µg/m3	<	5	U		**21**		<	3.0	U	<	3.0	U	<	1.9	U		**21**		<	3.0	U	<	3.0	U	<	2.0	U	<	2.6	U	<	5.7	U
Other		EN04-14S	8	22-Feb-05	EN0414S022205	Summa Canister	20.0	0.9	0.0	1.71	N	N			µg/m3	<	5.8	U		**16**		<	3.4	U	<	3.4	U	<	2.2	U		**17**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-14S	8	24-Mar-05	EN0414S032405	Summa Canister	19.3	1.3	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-14S	8	19-Apr-05	EN0414S041905	Summa Canister	19.8	1.1	0.0	1.87	N	N			µg/m3	<	6.3	U		**14**		<	3.7	U	<	3.7	U	<	2.4	U		**15**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-14S Dup.	8	19-Apr-05	DU2201011905	Summa Canister	19.8	1.1	0.0	2.01	N	N			µg/m3	<	6.8	U		**15**		<	4.0	U	<	4.0	U	<	2.6	U		**14**		<	4.0	U	<	4.1	U	<	2.6	U	<	3.5	U	<	7.7	U
		EN04-14S	8	25-May-05	EN0414S052505	Summa Canister	17.6	1.8	0.0	8.4	N	N			µg/m3		**150**			**13**		<	3.3	U	<	3.3	U	<	2.1	U		**15**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-14S	8	22-Jun-05	EN0414S062205	Summa Canister	18.5	1.7	0.0	1.71	N	N			µg/m3	<	5.8	U		**28**		<	3.4	U	<	3.4	U	<	2.2	U		**12**		<	3.4	U	<	3.5	U	<	2.2	U		**8.6**		<	6.6	U
		EN04-14S	8	6-Jul-05	EN0414S070605	Summa Canister	18.2	1.7	0.0	1.55	N	N			µg/m3	<	5.2	U		**25**		<	3.1	U	<	3.1	U	<	2.0	U		**9.8**		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
		EN04-14S	8	23-Aug-05	EN0414S082305	Summa Canister	17.9	1.7	0.0	1.79	N	N			µg/m3	<	6.1	U		**47**		<	3.5	U	<	3.5	U	<	2.3	U		**16**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-14S	8	19-Sep-05	EN0414S091905	Summa Canister	19.2	1.6	0.0	1.91	N	N			µg/m3	<	6.5	U		**45**		<	3.8	U	<	3.8	U	<	2.4	U		**18**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-14S	8	12-Oct-05	EN0414S101205	Summa Canister	18.2	1.6	0.0	1.64	N	N			µg/m3	<	5.6	U		**40**		<	3.2	U	<	3.2	U	<	2.1	U		**18**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-14S	8	13-Dec-05	EN0414S121305	Summa Canister	19.4	1.2	0.0	1.68	N	N			µg/m3	<	5.7	U		**16**		<	3.3	U	<	3.3	U	<	2.1	U		**14**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-14S	8	14-Feb-06	EN0414S021406	Summa Canister	20.3	0.9	0.0	1.68	N	N			µg/m3	<	5.7	U		**14**		<	3.3	U	<	3.3	U	<	2.1	U		**13**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-14S	8	4-Apr-06	EN0414S040406	Summa Canister	19.2	0.8	0.0	1.58	N	N			µg/m3	<	5.4	U		**10**		<	3.1	U	<	3.1	U	<	2.0	U		**8.8**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-14S	8	19-Jun-06	EN0414S061906	Summa Canister	20.2	2.2	0.0	1.75	N	N			µg/m3	<	5.9	U		**19**		<	3.5	U	<	3.5	U	<	2.2	U		**8.7**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-14S	8	14-Aug-06	EN0414S081406	Summa Canister	18.2	2.4	0.0	1.75	N	N			µg/m3	<	5.9	U		**42**		<	3.5	U	<	3.5	U	<	2.2	U		**16**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-14D	34	23-Aug-04	EN0414D082304	Summa Canister	18.3	0.9	0.0	8.04	Y	N	1.9E-06		µg/m3	<	28	U		**4,000**			**21**		<	16	U	<	10	U		**290**			**23**		<	16	U	<	11	U	<	14	U	<	31	U
		EN04-14D	34	20-Sep-04	EN0414D092004	Summa Canister	17.8	1.1	0.0	8.29	N	N	9.3E-06		µg/m3	<	28	U		**5,100**			**28**		<	17	U	<	11	U		**380**		<	17	U	<	17	U	<	11	U	<	15	U	<	32	U
		EN04-14D Dup.	34	20-Sep-04	DU34637092004	Summa Canister	17.8	1.1	0.0	10.2	N	N	1.1E-05		µg/m3	<	35	U		**6,000**			**30**		<	20	U	<	13	U		**440**		<	20	U	<	21	U	<	14	U	<	18	U	<	40	U
		EN04-14D	34	18-Oct-04	EN0414D101804	Summa Canister	20.4	1.0	0.0	42.8	N	N	6.5E-07		µg/m3	<	29	U		**4,100**			**20**		<	20	U	<	11	U		**220**		<	17	U	<	17	U	<	11	U	<	15	U	<	33	U
		EN04-14D Dup.	34	18-Oct-04	DU34636101804	Summa Canister	20.4	1.0	0.0	42.8	N	N	6.5E-07		µg/m3	<	29	U		**4,200**			**30**		<	20	U	<	11	U		**220**		<	17	U	<	17	U	<	11	U	<	15	U	<	33	U
		EN04-14D	34	16-Nov-04	EN0414D111604	Summa Canister	20.1	1.0	0.0	7	N	N	1.3E-07		µg/m3	<	24	U		**5,400**			**27**		<	14	U	<	8.9	U		**380**		<	14	U	<	14	U	<	9.2	U	<	12	U	<	27	U
		EN04-14D	30	8-Dec-04	EN0414D120804	Summa Canister	20.2	0.6	0.0	6.72	N	N	6.2E-08		µg/m3	<	23	U		**5,100**			**27**		<	13	U	<	8.6	U		**340**		<	13	U	<	14	U	<	8.9	U	<	12	U	<	26	U
		EN04-14D	30	11-Jan-05	EN0414D011105	Summa Canister	20.2	0.7	0.0	6.32	N	N			µg/m3	<	21	U		**6,600**			**25**		<	12	U	<	8.1	U		**370**		<	12	U	<	13	U	<	8.3	U	<	11	U	<	24	U
		EN04-14D	30	22-Feb-05	EN0414D022205	Summa Canister	20.3	0.5	0.0	7.32	N	N			µg/m3	<	25	U		**5,600**			**22**		<	14	U	<	9.4	U		**300**		<	14	U	<	15	U	<	9.6	U	<	13	U	<	28	U
		EN04-14D	30	24-Mar-05	EN0414D032405	Summa Canister	19.5	0.7	0.0	8.18	N	N			µg/m3	<	28	U		**5,700**			**23**		<	16	U	<	10	U		**300**		<	16	U	<	16	U	<	11	U	<	14	U	<	31	U
		EN04-14D	30	19-Apr-05	EN0414D041905	Summa Canister	20.8	0.2	0.0	3.42	N	N			µg/m3	<	12	U		**2,900**			**8.6**		<	6.8	U	<	4.4	U		**160**		<	6.8	U	<	6.9	U	<	4.5	U	<	5.9	U	<	13	U
		EN04-14D	30	25-May-05	EN0414D052505	Summa Canister	18.7	0.4	0.0	5.17	N	N			µg/m3	<	18	U		**3,500**			**14**		<	10	U	<	6.6	U		**200**		<	10	U	<	10	U	<	6.8	U	<	9.0	U	<	20	U
		EN04-14D Dup.	30	25-May-05	DU24403052505	Summa Canister	18.7	0.4	0.0	5.05	N	N			µg/m3	<	17	U		**3,400**			**13**		<	10	U	<	6.4	U		**190**		<	10	U	<	10	U	<	6.7	U	<	8.8	U	<	19	U
		EN04-14D	30	22-Jun-05	EN0414D062205	Summa Canister	19.2	0.4	0.0	5.23	N	N			µg/m3	<	18	U		**3,800**			**15**		<	10	U	<	6.7	U		**180**			**16**		<	10	U	<	6.9	U	<	9.1	U	<	20	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-14 Continued		EN04-14D	30	6-Jul-05	EN0414D070605	Summa Canister	18.9	0.4	0.0	4.99	N	N			µg/m3	<	17	U		**3,800**			**15**		<	9.9	U	<	6.4	U		**210**		<	9.9	U	<	10	U	<	6.6	U	<	8.7	U	<	19	U
		EN04-14D	30	23-Aug-05	EN0414D082305	Summa Canister	18.3	0.5	0.0	4.6	N	N			µg/m3	<	16	U		**3,900**			**15**		<	9.1	U	<	5.9	U		**230**		<	9.1	U	<	9.3	U	<	6.1	U	<	8.0	U	<	18	U
		EN04-14D	30	19-Sep-05	EN0414D091905	Summa Canister	19.6	0.4	0.0	7.32	N	N			µg/m3	<	25	U		**4,600**		<	14	U	<	14	U	<	9.4	U		**250**		<	14	U	<	15	U	<	9.6	U	<	13	U	<	28	U
		EN04-14D	30	12-Oct-05	EN0414D101205	Summa Canister	19.0	0.6	0.0	6.72	N	N			µg/m3	<	23	U		**4,600**			**15**		<	13	U	<	8.6	U		**240**		<	13	U	<	14	U	<	8.9	U	<	12	U	<	26	U
		EN04-14D	30	13-Dec-05	EN0414D121305	Summa Canister	19.9	0.5	0.0	1.75	N	N			µg/m3	<	5.9	U		**3,600**	E		**16**		<	3.5	U	<	2.2	U		**240**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-14D	30	14-Feb-06	EN0414D021406	Summa Canister	20.5	0.5	0.0	6.32	N	N			µg/m3	<	21	U		**5,500**			**17**		<	12	U	<	8.1	U		**290**		<	12	U	<	13	U	<	8.3	U	<	11	U	<	24	U
		EN04-14D	34	4-Apr-06	EN0414D040406	Summa Canister	19.5	0.4	0.0	6.56	N	N			µg/m3	<	22	U		**3,400**		<	13	U	<	13	U	<	8.4	U		**180**		<	13	U	<	13	U	<	8.6	U	<	11	U	<	25	U
		EN04-14D	34	19-Jun-06	EN0414D061906	Summa Canister	21.8	0.5	0.0	3.5	N	N			µg/m3	<	12	U		**2,700**			**10**		<	6.9	U	<	4.5	U		**130**		<	6.9	U	<	7.1	U	<	4.6	U	<	6.1	U	<	13	U
		EN04-14D	34	14-Aug-06	EN0414D081406	Summa Canister	19.4	0.1	0.0	6.72	N	N			µg/m3	<	23	U		**4,200**		<	13	U	<	13	U	<	8.6	U		**170**		<	13	U	<	14	U	<	8.9	U	<	12	U	<	26	U
		EN04-14D Dup	34	14-Aug-06	DU1480081406	Summa Canister	19.4	0.1	0.0	4.99	N	N			µg/m3	<	17	U		**4,300**		<	9.9	U	<	9.9	U	<	6.4	U		**170**		<	9.9	U	<	10	U	<	6.6	U	<	8.7	U	<	19	U
Implant Location	**EN04-15**	EN04-15S	8	25-Aug-04	EN0415S082504	Summa Canister	17.4	1.9	0.1	2.89	Y	N	2.7E-05		µg/m3	<	10	U	<	7.9	U	<	5.8	U	<	5.8	U	<	3.8	U	<	8.0	U	<	5.8	U	<	5.9	U	<	3.9	UJ	<	5.1	U	<	11	U
Monitoring Well	**EN-162**	EN04-15S	8	21-Sep-04	EN0415S092104	Summa Canister	17.1	1.5	0.0	1.91	N	N	4.1E-05		µg/m3	<	6.6	U	<	5.2	U	<	3.8	U	<	3.8	U	<	2.5	U	<	5.3	U	<	3.8	U	<	3.9	U	<	2.6	U	<	3.4	UJ	<	7.4	U
Water Table Depth (ft)	*35*	EN04-15S	8	19-Oct-04	EN0415S101904	Summa Canister	19.3	1.3	0.0	1.68	N	N	3.5E-06		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Total VOCs	*10*	EN04-15S Dup.	8	19-Oct-04	DU25204101904	Summa Canister	19.3	1.3	0.0	1.64	N	N	3.6E-06		µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethenes	*10*	EN04-15S	8	17-Nov-04	EN0415S111704	Summa Canister	19.9	0.9	0.0	1.44	Y	N	3.1E-07		µg/m3	<	4.9	U	<	3.9	U	<	2.8	U	<	2.8	U	<	1.8	U	<	3.9	U	<	2.8	U	<	2.9	U	<	1.9	U		2.8		<	5.5	U
Sum Ethanes	*<1*	EN04-15S	8	6-Dec-04	EN0415S120604	Summa Canister	20.1	0.3	0.0	1.68	N	N	1.7E-07		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Other		EN04-15S Dup.	8	6-Dec-04	DU24387120604	Summa Canister	20.1	0.3	0.0	1.61	N	N	1.4E-07		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-15S	8	11-Jan-05	EN0415S011105	Summa Canister	20.7	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-15S	8	24-Feb-05	EN0415S022405	Summa Canister	20.4	0.0	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-15S	8	22-Mar-05	EN0415S032205	Summa Canister	20.4	0.2	0.0	1.72	N	N	ND		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.6	U
		EN04-15S	8	20-Apr-05	EN0415S042005	Summa Canister	19.5	0.5	0.0	1.83	N	N	ND		µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-15S	8	25-May-05	EN0415S052505	Summa Canister	19.7	0.8	0.0	8.2	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-15S	8	23-Jun-05	EN0415S062305	Summa Canister	19.1	13	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-15S	8	7-Jul-05	EN0415S070705	Summa Canister	19.0	1.7	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-15S	8	25-Aug-05	EN0415S082505	Summa Canister	18.6	2.1	0.0	1.91	N	N			µg/m3	<	6.5	U	<	5.1	U	<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-15S	8	21-Sep-05	EN0415S092105	Summa Canister	18.5	1.9	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-15S	8	11-Oct-05	EN0415S101105	Summa Canister	19.1	1.4	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-15S	8	15-Dec-05	EN0415S121505	Summa Canister	20.0	0.9	0.1	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-15S	8	15-Feb-06	EN0415S021506	Summa Canister	20.9	0.3	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-15S	8	4-Apr-06	EN0415S040406	Summa Canister	19.5	0.2	0.0	1.75	N	Y	ND		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-15S	8	20-Jun-06	EN0415S062006	Summa Canister	20	1.2	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-15S	8	15-Aug-06	EN0415S081506	Summa Canister	17.7	2.2	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-15D	30	25-Aug-04	EN0415D082504	Summa Canister	19.5	0.4	0.0	3.11	Y	N	7.2E-07		µg/m3	<	11	U		**470**			**14**		<	6.3	U	<	4.0	U		**47**		<	6.3	U	<	6.4	U	<	4.2	UJ	<	5.5	U	<	12	U
		EN04-15D	30	21-Sep-04	EN0415D092104	Summa Canister	18.6	0.5	0.0	1.91	N	N	6.3E-07		µg/m3	<	6.6	U		**640**			**17**		<	3.8	U	<	2.5	U		**56**		<	3.8	U	<	3.9	U	<	2.6	U	<	3.4	UJ	<	7.4	U
		EN04-15D	30	19-Oct-04	EN0415D101904	Summa Canister	20.2	0.5	0.0	1.71	N	N	6.7E-07		µg/m3	<	5.8	U		**650**			**17**		<	3.4	U	<	2.2	U		**64**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-15 Continued	EN04-15D	30	17-Nov-04	EN0415D111704	Summa Canister	20.3	0.3	0.0	1.79	N	N	2.4E-07		µg/m3	<	6.1	U		**59**		<	3.5	U	<	3.5	U	<	2.3	U		**6.9**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-15D Dup.	30	17-Nov-04	DU12385111704	Summa Canister	20.3	0.3	0.0	1.61	N	N	1.6E-07		µg/m3	<	5.5	U		**59**		<	3.2	U	<	3.2	U	<	2	U		**7.2**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-15D	30	6-Dec-04	EN0415D120604	Summa Canister	20.2	0.2	0.0	1.64	N	N	6.1E-07		µg/m3	<	5.6	U		**580**			**11**		<	3.2	U	<	2.1	U		**58**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-15D	30	11-Jan-05	EN0415D011105	Summa Canister	20.8	0.0	0.1	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-15D	30	24-Feb-05	EN0415D022405	Summa Canister	20.5	0.0	0.0	1.58	N	N			µg/m3	<	5.4	U		**720**			**11**		<	3.1	U	<	2.0	U		**57**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-15D	30	22-Mar-05	EN0415D032205	Summa Canister	20.3	0.1	0.0	2.01	N	Y	ND		µg/m3	<	6.8	U		**700**			**12**		<	4.0	U	<	2.6	U		**42**		<	4.0	U	<	4.1	U	<	2.6	U	<	3.5	U	<	7.7	U
	EN04-15D	30	20-Apr-05	EN0415D042005	Summa Canister	19.8	0.4	0.0	1.83	N	Y	ND		µg/m3	<	6.2	U		**510**			**9.5**		<	3.6	U	<	2.3	U		**36**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-15D	30	25-May-05	EN0415D052505	Summa Canister	20.2	0.3	0.0	7.9	N	N			µg/m3	<	5.4	U		**320**			**11**		<	3.1	U	<	2.0	U		**37**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-15D	30	23-Jun-05	EN0415D062305	Summa Canister	19.3	1.2	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-15D	30	7-Jul-05	EN0415D070705	Summa Canister	19.5	1.0	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-15D	30	25-Aug-05	EN0415D082505	Summa Canister	18.9	1.8	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-15D	30	21-Sep-05	EN0415D092105	Summa Canister	19.0	1.4	0.0	2.92	N	N			µg/m3	<	9.9	U	<	7.8	U	<	5.8	U	<	5.8	U	<	3.7	U	<	8.0	U	<	5.8	U	<	5.9	U	<	3.8	U	<	5.1	U	<	11	U
	EN04-15D	30	11-Oct-05	EN0415D101105	Summa Canister	19.6	0.8	0.0	2.36	N	N			µg/m3	<	8.0	U	<	6.3	U	<	4.7	U	<	4.7	U	<	3.0	U	<	6.4	U	<	4.7	U	<	4.8	U	<	3.1	U	<	4.1	U	<	9.0	U
	EN04-15D	30	15-Dec-05	EN0415D121505	Summa Canister	20.0	0.4	0.1	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-15D	30	15-Feb-06	EN0415D021506	Summa Canister	21.1	0.1	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-15D	30	4-Apr-06	EN0415D040406	Summa Canister	19.6	0.1	0.0	1.68	N	Y	ND		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-15D	30	20-Jun-06	EN0415D062006	Summa Canister	19.8	1.2	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U		**25**		<	3.1	U	<	6.8	U
	EN04-15D	30	15-Aug-06	EN0415D081506	Summa Canister	17.9	2.1	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U		**2.4**		<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U		**7.8**		<	6.7	U
Implant Location **EN04-16**		SG-067	8	12-Dec-02	SG067S121202	Summa Canister	4.7	9.8	0.0	2.33	N	N			µg/m3		**0.69**			**10**		<	0.19	U	<	0.94	U	<	0.060	U		**7.5**		<	0.094	U	<	0.19	U	<	0.31	U	<	0.82	U		**0.95**	
Monitoring Well **EN-206A**		EN04-16S	8	24-Aug-04	EN0416S082404	Summa Canister	16.7	2.7	0.0	2.06	Y	N	2.4E-05		µg/m3	<	7.1	U		**14**		<	4.2	U	<	4.2	U	<	2.7	U	<	5.7	U	<	4.2	U	<	4.2	U	<	2.8	U		**5.6**	EB	<	8.0	U
Water Table Depth (ft)	*39*	EN04-16S	8	20-Sep-04	EN0416S092004	Summa Canister	16.7	1.5	0.0	2.01	N	N	1.2E-05		µg/m3		**53**			**140**		<	4.0	U	<	4.0	U	<	2.6	U		**11**		<	4.0	U	<	4.1	U	<	2.7	U	<	3.5	U	<	7.8	U
Total VOCs	*110*	EN04-16S	8	18-Oct-04	EN0416S101804	Summa Canister	19.8	1.5	0.0	8.4	N	N	4.8E-08		µg/m3		**46**			**13**		<	3.3	U	<	4.0	U	<	2.1	U		**4.8**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Sum Ethenes	*100*	EN04-16S	8	16-Nov-04	EN0416S111604	Summa Canister	20.0	1.1	0.0	1.64	N	N	ND		µg/m3		**26**			**7.1**		<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethanes	*5*	EN04-16S	8	7-Dec-04	EN0416S120704	Summa Canister	20.2	0.2	0.1	1.58	N	N	ND		µg/m3		**21**			**5.2**		<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
Other		EN04-16S	8	12-Jan-05	EN0416S011205	Summa Canister	20.2	0.3	0.1	1.64	N	N			µg/m3		**11**		<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-16S	8	24-Feb-05	EN0416D022305	Summa Canister	20.3	0.0	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-16S	8	22-Mar-05	EN0416S032205	Summa Canister	20.1	0.2	0.0	1.55	N	Y	ND		µg/m3		**10**		<	4.2	U		5.2		<	3.1	U	<	2.0	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
		EN04-16S	8	20-Apr-05	EN0416S042005	Summa Canister	19.3	0.6	0.0	1.75	N	Y	ND		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U		**17**		<	6.7	U
		EN04-16S	8	25-May-05	EN0416S052505	Summa Canister	17.5	1.6	0.0	8.2	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U		**180**		<	6.3	U
		EN04-16S	8	22-Jun-05	EN0416S062205	Summa Canister	17.9	2.1	0.0	1.96	N	N			µg/m3		**48**			**10**		<	3.9	U	<	3.9	U	<	2.5	U	<	5.3	U	<	3.9	U	<	4.0	U	<	2.6	U	<	3.4	U	<	7.5	U
		EN04-16S	8	6-Jul-05	EN0416S070605	Summa Canister	17.6	1.6	0.0	15.3	N	N			µg/m3		**79**			**17**			**6.4**		<	3.7	U	<	2.4	U		**5.3**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-16S	8	24-Aug-05	EN0416S082405	Summa Canister	18.8	1.6	0.0	1.83	N	N			µg/m3		**73**			**19**		<	3.6	U	<	3.6	U	<	2.3	U		**8.1**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-16S	8	20-Sep-05	EN0416S092005	Summa Canister	18.6	1.6	0.0	1.91	N	N			µg/m3		**46**			**12**		<	3.8	U	<	3.8	U	<	2.4	U		**6**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-16S	8	12-Oct-05	EN0416S101205	Summa Canister	18.5	0.8	0.0	1.61	N	N			µg/m3		**42**			**11**		<	3.2	U	<	3.2	U	<	2.0	U		**4.4**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-16S	8	14-Dec-05	EN0416S121405	Summa Canister	20.6	0.4	0.0	1.92	N	N			µg/m3		**10**		<	5.2	U	<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.4	U

Table B.1
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Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-16 Continued	EN04-16S	8	15-Feb-06	EN0416S021506	Summa Canister	20.8	0.4	0.0	1.61	N	N			µg/m3	**7.2**	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-16S Dup.	8	15-Feb-06	DU9372021506	Summa Canister	20.8	0.4	0.0	1.64	N	N			µg/m3	**7.1**	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-16S	8	4-Apr-06	EN0416S040406	Summa Canister	19.8	0.0	0.0	1.64	N	N			µg/m3	**6.2**	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-16S	8	20-Jun-06	EN0416S062006	Summa Canister	19.9	1.4	0.0	1.83	N	N			µg/m3	**26**	**5.4**	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-16S	8	16-Aug-06	EN0416S081606	Summa Canister	18.2	2.4	0.0	1.68	N	N			µg/m3	**45**	**12**	< 3.3 U	< 3.3 U	< 2.1 U	**6.0**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-16D	34	24-Aug-04	EN0416D082404	Summa Canister	15.1	1.9	0.0	8.48	Y	N	1.5E-01		µg/m3	**180**	**6,900**	**20**	< 17 U	< 11 U	**360**	**29**	< 17 U	< 11 U	< 15 U	< 33 U
	EN04-16D	34	20-Sep-04	EN0416D092004	Summa Canister	14.5	2.1	0.0	17.5	N	N	1.5E-04		µg/m3	**250**	**9,900**	< 35 U	< 35 U	< 23 U	**510**	< 35 U	< 36 U	< 23 U	< 31 U	< 68 U
	EN04-16D	34	18-Oct-04	EN0416D101804	Summa Canister	15.1	1.9	0.0	99.4	N	N	2.7E-05		µg/m3	**310**	**9,200**	< 39 U	< 47 U	< 25 U	**400**	< 39 U	< 40 U	< 26 U	< 34 U	< 76 U
	EN04-16D	34	16-Nov-04	EN0416D111604	Summa Canister	16.4	2.3	0.0	17.1	N	N	4.5E-06		µg/m3	**340**	**11,000**	**44**	< 34 U	< 22 U	**680**	< 34 U	< 35 U	< 22 U	< 30 U	< 66 U
	EN04-16D Dup.	34	16-Nov-04	DU34131111604	Summa Canister	16.4	2.3	0.0	17.1	N	N	4.2E-06		µg/m3	**330**	**11,000**	**44**	< 34 U	< 22 U	**650**	< 34 U	< 35 U	< 22 U	< 30 U	< 66 U
	EN04-16D	34	7-Dec-04	EN0416D120704	Summa Canister	17.4	1.7	0.0	16.4	N	N	1.6E-06		µg/m3	**320**	**12,000**	**37**	< 32 U	< 21 U	**560**	< 32 U	< 33 U	< 22 U	< 28 U	< 63 U
	EN04-16D	34	12-Jan-05	EN0416D011205	Summa Canister	18.8	1.7	0.2	15.8	N	N			µg/m3	**350**	**12,000**	**37**	< 31 U	< 20 U	**500**	< 31 U	< 32 U	< 21 U	< 27 U	< 60 U
	EN04-16D	34	24-Feb-05	EN0416D022305	Summa Canister	20.1	0.1	0.0	11.9	N	N			µg/m3	**350**	**9,600**	**30**	< 24 U	< 15 U	**510**	< 24 U	< 24 U	< 16 U	< 21 U	< 46 U
	EN04-16D	34	22-Mar-05	EN0416D032205	Summa Canister	19.8	1.2	0.0	17.5	N	N			µg/m3	**340**	**10,000**	**46**	< 35 U	< 22 U	**410**	< 35 U	< 35 U	< 23 U	< 30 U	< 67 U
	EN04-16D	34	20-Apr-05	EN0416D042005	Summa Canister	19.6	0.9	0.0	14.3	N	N			µg/m3	**220**	**7,200**	< 28 U	< 28 U	< 18 U	**310**	< 28 U	< 29 U	< 19 U	< 25 U	< 55 U
	EN04-16D	34	25-May-05	EN0416D052505	Summa Canister	17.6	1.0	0.0	8.4	N	N			µg/m3	**200**	**6,000**	**25**	< 17 U	< 11 U	**250**	< 17 U	< 17 U	< 11 U	< 14 U	< 32 U
	EN04-16D	34	22-Jun-05	EN0416D062205	Summa Canister	18.5	0.8	0.1	8.2	N	N			µg/m3	**250**	**7,300**	**33**	< 16 U	< 10 U	**280**	< 16 U	< 16 U	< 11 U	< 14 U	< 31 U
	EN04-16D	34	6-Jul-05	EN0416D070605	Summa Canister	17.6	0.8	0.0	1.87	N	N			µg/m3	260	**7,600**	**38**	< 30 U	< 20 U	**290**	< 30 U	< 31 U	< 20 U	< 26 U	< 59 U
	EN04-16D	34	24-Aug-05	EN0416D082405	Summa Canister	18.3	0.8	0.0	7.16	N	N			µg/m3	**220**	**6,600**	**28**	< 14 U	< 9.2 U	**260**	< 14 U	< 14 U	< 9.4 U	< 12 U	< 27 U
	EN04-16D	34	20-Sep-05	EN0416D092005	Summa Canister	17.6	1.3	0.0	10.2	N	N			µg/m3	**180**	**5,200**	**22**	< 20 U	< 13 U	**230**	< 20 U	< 21 U	< 13 U	< 18 U	< 39 U
	EN04-16D	34	12-Oct-05	EN0416D101205	Summa Canister	17.5	1.7	0.0	8.05	N	N			µg/m3	**170**	**5,900**	**21**	< 16 U	< 10 U	**200**	< 16 U	< 16 U	< 11 U	< 14 U	< 31 U
	EN04-16D	34	14-Dec-05	EN0416D121405	Summa Canister	19.6	1.4	0.0	8.92	N	N			µg/m3	**240**	**7,100**	**27**	< 18 U	< 11 U	**310**	< 18 U	< 18 U	< 12 U	< 15 U	< 34 U
	EN04-16D	34	15-Feb-06	EN0416D021506	Summa Canister	20.6	1.0	0.0	9.2	N	N			µg/m3	**320**	**8,300**	**28**	< 18 U	< 12 U	**320**	< 18 U	< 19 U	< 12 U	< 16 U	< 35 U
	EN04-16D Dup.	34	15-Feb-06	DU9302021506	Summa Canister	20.6	1.0	0.0	9.37	N	N			µg/m3	**340**	**8,800**	**33**	< 18 U	< 12 U	**340**	< 18 U	< 19 U	< 12 U	< 16 U	< 36 U
	EN04-16D	34	4-Apr-06	EN0416D040406	Summa Canister	19.3	0.9	0.0	11.7	N	N			µg/m3	**250**	**6,400**	**30**	< 23 U	< 15 U	**250**	< 23 U	< 24 U	< 15 U	< 20 U	< 45 U
	EN04-16D	34	20-Jun-06	EN0416D062006	Summa Canister	20.6	0.8	0.0	1.83	N	N			µg/m3	**18**	**440**	< 3.6 U	< 3.6 U	< 2.3 U	**17**	< 3.6 U	< 3.7 U	< 2.4 U	**54**	< 7.0 U
	EN04-16D Dup.	34	20-Jun-06	DU9497062006	Summa Canister	20.6	0.8	0.0	7.32	N	N			µg/m3	**220**	**5,700**	**28**	< 14 U	< 9.4 U	**240**	< 14 U	< 15 U	< 9.6 U	< 13 U	< 28 U
	EN04-16D	34	16-Aug-06	EN0416D081606	Summa Canister	17.8	0.8	0.0	10.7	N	N			µg/m3	**240**	**6,500**	**25**	< 21 U	< 14 U	**270**	< 21 U	< 22 U	< 14 U	< 18 U	< 41 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
Implant Location	**EN04-17**	EN04-17S	8	24-Aug-04	EN0417S082404	Summa Canister	18.4	1.3	0.0	4.39	Y	N	2.3E-05		µg/m3	<	15	U		**2,300**		<	8.8	U	<	8.8	U	<	5.7	U		**40**		<	8.8	U	<	9.0	U	<	5.9	U		**14**	EB	<	17	U
Monitoring Well	**EN-401**	EN04-17S	8	20-Sep-04	EN0417S092004	Summa Canister	18.2	1.2	0.0	5.64	N	N	6.1E-04		µg/m3	<	19	U		**3,300**		<	11	U	<	11	U	<	7.3	U		**69**		<	11	U	<	12	U	<	7.6	U	<	10	U	<	22	U
Water Table Depth (ft)	*36*	EN04-17S	8	18-Oct-04	EN0417S101804	Summa Canister	20.8	1.0	0.0	22.8	N	N	2.9E-05		µg/m3		**18**			**2,000**		<	9.0	U	<	11	U	<	5.8	U		**36**		<	9.0	U	<	9.2	U	<	6.0	U	<	7.9	U	<	17	U
Total VOCs	*260*	EN04-17S	8	16-Nov-04	EN0417S111604	Summa Canister	20.5	0.5	0.0	1.64	N	N	2.8E-06		µg/m3	<	5.6	U		**1,200**		<	3.2	U	<	3.2	U	<	2.1	U		**29**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethenes	*250*	EN04-17S	8	6-Dec-04	EN0417S120604	Summa Canister	20.6	0.0	0.0	1.64	N	N	5.3E-07		µg/m3	<	5.6	U		**740**		<	3.2	U	<	3.2	U	<	2.1	U		**17**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethanes	*10*	EN04-17S	8	13-Jan-05	EN0417S011305	Summa Canister	20.5	0.0	0.0	1.79	N	N			µg/m3	<	6.1	U		**590**		<	3.5	U	<	3.5	U	<	2.3	U		**11**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
Other		EN04-17S	8	25-Feb-05	EN0417S023505	Summa Canister	20.5	0.1	0.0	1.75	N	N			µg/m3	<	5.9	U		**240**		<	3.5	U	<	3.5	U	<	2.2	U		**6.9**		<	3.5	U	<	3.5	U	<	2.3	U		58	EB	<	6.7	U
		EN04-17S	8	22-Mar-05	EN0417S032205	Summa Canister	20.7	0.1	0.0	1.68	N	N			µg/m3	<	5.7	U		**410**		<	3.3	U	<	3.3	U	<	2.1	U		**7.2**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-17S Dup.	8	22-Mar-05	DU25287032205	Summa Canister	20.7	0.1	0.0	1.68	N	Y	ND		µg/m3	<	5.7	U		**410**		<	3.3	U	<	3.3	U	<	2.1	U		**7.8**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-17S	8	19-Apr-05	EN0417S041905	Summa Canister	19.9	0.2	0.0	1.75	N	Y	ND		µg/m3	<	5.9	U		**130**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-17S	8	25-May-05	EN0417S052505	Summa Canister	19.9	0.3	0.0	1.64	N	N			µg/m3	<	5.6	U		**810**		<	3.2	U	<	3.2	U	<	2.1	U		**12**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-17S	8	22-Jun-05	EN0417S062205	Summa Canister	20.0	0.4	0.0	1.87	N	N			µg/m3	<	6.3	U		**1,400**		<	3.7	U	<	3.7	U	<	2.4	U		**18**		<	3.7	U	<	3.8	U	<	2.5	U		**5.0**		<	7.2	U
		EN04-17S	8	7-Jul-05	EN0417S070705	Summa Canister	19.7	0.6	0.0	1.68	N	N			µg/m3	<	5.7	U		**1,800**		<	3.3	U	<	3.3	U	<	2.1	U		**25**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-17S	8	23-Aug-05	EN0417S082305	Summa Canister	19.4	0.9	0.0	1.87	N	N			µg/m3	<	6.3	U		**1,700**		<	3.7	U	<	3.7	U	<	2.4	U		**29**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-17S	8	20-Sep-05	EN0317S092005	Summa Canister	19.7	0.9	0.0	2.54	N	N			µg/m3	<	8.6	U		**1,400**		<	5.0	U	<	5.0	U	<	3.2	U		**24**		<	5.0	U	<	5.1	U	<	3.4	U	<	4.4	U	<	9.7	U
		EN04-17S	8	12-Oct-05	EN0417S101205	Summa Canister	20.1	0.7	0.0	2.28	N	N			µg/m3	<	7.7	U		**1,600**		<	4.5	U	<	4.5	U	<	2.9	U		**27**		<	4.5	U	<	4.6	U	<	3.0	U	<	4.0	U	<	8.7	U
		EN04-17S	8	14-Dec-05	EN0417S121405	Summa Canister	20.5	0.3	0.1	1.61	N	N			µg/m3	<	5.5	U		**390**		<	3.2	U	<	3.2	U	<	2.0	U		**7.0**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-17S	8	15-Feb-06	EN0417S021506	Summa Canister	20.0	0.0	0.0	1.58	N	N			µg/m3	<	5.4	U		**190**		<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-17S	8	5-Apr-06	EN0417S040506	Summa Canister	20.5	0.1	0.1	1.64	N	N			µg/m3	<	5.6	U		**240**		<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-17S	8	20-Jun-06	EN0417S062006	Summa Canister	20.4	0.3	0.0	1.87	N	N			µg/m3	<	6.3	U		**660**		<	3.7	U	<	3.7	U	<	2.4	U		**8.4**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-17S	8	15-Aug-06	EN0417S081506	Summa Canister	21	0.8	0.0	1.87	N	N			µg/m3	<	6.3	U		**710**		<	3.7	U	<	3.7	U	<	2.4	U		**9.3**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-17D	28	24-Aug-04	EN0417D082404	Summa Canister	19.9	0.0	0.0	4.35	Y	N	2.5E-02		µg/m3	<	15	U		**2,500**			**29**		<	8.8	U	<	5.6	U		**31**		<	8.8	U	<	8.9	U	<	5.8	U	<	7.7	U	<	17	U
		EN04-17D	28	20-Sep-04	EN0417D092004	Summa Canister	18.9	0.1	0.0	5.20	N	N	8.4E-06		µg/m3	<	18	U		**2,900**			**37**		<	10	U	<	6.8	U		**110**		<	10	U	<	11	U	<	7.0	U	<	9.2	U	<	20	U
		EN04-17D	28	18-Oct-04	EN0417D101804	Summa Canister	21.4	0.0	0.0	17.5	N	N	2.6E-07		µg/m3	<	12	U		**1,600**			**19**		<	8.3	U	<	4.5	U		**27**		<	6.9	U	<	7.1	U	<	4.6	U	<	6.1	U	<	13	U
		EN04-17D	28	16-Nov-04	EN0417D111604	Summa Canister	20.8	0.1	0.0	3.5	N	N	ND		µg/m3	<	12	U		**2,000**			**25**		<	6.9	U	<	4.5	U		**39**		<	6.9	U	<	7.1	U	<	4.6	U	<	6.1	U	<	13	U
		EN04-17D	28	6-Dec-04	EN0417D120604	Summa Canister	20.7	0.0	0.0	2.25	N	N	9.0E-08		µg/m3	<	7.6	U		**2,100**			**31**		<	4.5	U	<	2.9	U		**46**		<	4.5	U	<	4.6	U	<	3.0	U	<	3.9	U	<	8.6	U
		EN04-17D	28	13-Jan-05	EN0417D011305	Summa Canister	20.6	0.0	0.0	2.33	N	N			µg/m3	<	7.9	U		**2,400**			**30**		<	4.6	U	<	3.0	U		**50**		<	4.6	U	<	4.7	U	<	3.1	U	<	4.0	U	<	8.9	U
		EN04-17D	28	25-Feb-05	EN0417D022505	Summa Canister	20.5	0.0	0.0	1.3	N	N			µg/m3	<	4.4	UJ		**700**	J		**6.2**	J	<	2.6	UJ	<	1.7	UJ		**10**	J	<	2.6	UJ	<	2.6	UJ	<	1.7	UJ		**5.3**	JEB	<	5.0	UJ
		EN04-17D	28	22-Mar-05	EN0417D032205	Summa Canister	20.2	0.2	0.0	1.79	N	Y	ND		µg/m3	<	6.1	U		**970**			**11**		<	3.5	U	<	2.3	U		**16**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-17D	28	19-Apr-05	EN0417D041905	Summa Canister	20.3	0.0	0.0	1.87	N	Y	ND		µg/m3	<	6.3	U		**620**			**6.1**		<	3.7	U	<	2.4	U		**7.6**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-17D	28	25-May-05	EN0417D052505	Summa Canister	20.4	0.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**490**			**5.8**		<	3.4	U	<	2.2	U		**8.7**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-17D	28	22-Jun-05	EN0417D062205	Summa Canister	20.9	0.0	0.0	1.96	N	N			µg/m3	<	6.6	U		**420**			**4.1**		<	3.9	U	<	2.5	U	<	5.3	U	<	3.9	U	<	4.0	U	<	2.6	U		**3.9**		<	7.5	U
		EN04-17D	28	7-Jul-05	EN0417D070705	Summa Canister	20.4	0.0	0.0	1.87	N	N			µg/m3	<	6.3	U		**390**			**4.4**		<	3.7	U	<	2.4	U		**5.2**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-17D	28	23-Aug-05	EN0417D082305	Summa Canister	20.1	0.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**1,200**			**22**		<	3.4	U	<	2.2	U		**130**			14		<	3.5	U	<	2.2	U	<	3.0	U		**7.1**				

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Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethene		1,1-Dichloroethane		Chloroethane		Methylene Chloride		Freon 113	
EN04-17 Continued		EN04-17D	28	20-Sep-05	EN0417D092005	Summa Canister	19.9	0.0	0.0	3.5	N	N			µg/m3	<	12	U		**1,700**			**27**		<	6.9	U	<	4.5	U		**130**			10		<	7.1	U	<	4.6	U	<	6.1	U	<	13	U
		EN04-17D	28	12-Oct-05	EN0417D101205	Summa Canister	20.3	0.2	0.0	7.32	N	N			µg/m3	<	25	U		**4,400**			**57**		<	14	U	<	9.4	U		**330**			20		<	15	U	<	9.6	U	<	13	U	<	28	U
		EN04-17D	28	14-Dec-05	EN0417D121405	Summa Canister	20.3	0.5	0.1	12.2	N	N			µg/m3	<	41	U		**7,900**			**130**		<	24	U	<	16	U		**500**			**26**		<	25	U	<	16	U	<	21	U	<	47	U
		EN04-17D	28	15-Feb-06	EN0417D0021506	Summa Canister	19.9	0.3	0.0	15	N	N			µg/m3	<	51	U		**7,400**			**110**		<	30	U	<	19	U		**380**		<	30	U	<	30	U		**67**		<	26	U	<	57	U
		EN04-17D	28	5-Apr-06	EN0417D040506	Summa Canister	20.7	0.4	0.0	11.7	N	N			µg/m3	<	40	U		**10,000**			**160**		<	23	U	<	15	U		**450**			**23**		<	24	U	<	15	U	<	20	U	<	45	U
		EN04-17D	28	20-Jun-06	EN0417D062006	Summa Canister	20.7	0.2	0.0	14.3	N	N			µg/m3	<	48	U		**8,100**			**110**		<	28	U	<	18	U		**360**		<	28	U	<	29	U	<	19	U	<	25	U	<	55	U
		EN04-17D	34	15-Aug-06	EN0417D081506	Summa Canister	21	0.1	0.0	16.7	N	N			µg/m3	<	57	U		**12,000**			**150**		<	33	U	<	21	U		**470**		<	33	U	<	34	U	<	22	U	<	29	U	<	64	U
Implant Location	**EN04-18**	EN04-18S	8	24-Aug-04	EN0418S082404	Summa Canister	19.2	0.0	0.0	2.69	Y	N	2.6E-01		µg/m3	<	9.3	U	<	7.3	U	<	5.4	U	<	5.4	U	<	3.5	U	<	7.4	U	<	5.4	U	<	5.5	U	<	3.6	U		**9.4**	**EB**	<	10	U
Monitoring Well	**EN-217A**	EN04-18S	8	20-Sep-04	EN0418S092004	Summa Canister	18.3	1.3	0.1	1.79	N	N	4.0E-05		µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
Water Table Depth (ft)	*37*	EN04-18S	8	18-Oct-04	EN0418S101804	Summa Canister	18.1	1.8	0.0	8.4	N	N	8.4E-07		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	4.0	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Total VOCs	*10*	EN04-18S	8	16-Nov-04	EN0418S111604	Summa Canister	20.5	0.6	0.0	1.61	N	N	ND		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
Sum Ethenes	*10*	EN04-18S	8	7-Dec-04	EN0418S120704	Summa Canister	20.6	0.0	0.0	1.61	N	N	ND		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
Sum Ethanes	*<1*	EN04-18S	8	11-Jan-05	EN0418S011105	Summa Canister	20.3	0.2	0.0	1.58	N	N			µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
Other		EN04-18S	8	24-Feb-05	EN0418S022405	Summa Canister	19.9	0.1	0.0	1.49	N	N			µg/m3	<	5.0	U	<	4.0	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.0	U	<	2	U	<	2.6	U	<	5.7	U
		EN04-18S	8	24-Mar-05	EN0418S032405	Summa Canister	19.7	0.2	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-18S	8	19-Apr-05	EN0418S041905	Summa Canister	20.5	0.1	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-18S	8	25-May-05	EN0418S052505	Summa Canister	17.8	0.8	0.0	8.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U		**220**		<	6.7	U
		EN04-18S	8	22-Jun-05	EN0418S062205	Summa Canister	18.5	0.9	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U		**6.8**		<	6.8	U
		EN04-18S	8	6-Jul-05	EN0418S070605	Summa Canister	18.1	1.2	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-18S	8	24-Aug-05	EN0418S082405	Summa Canister	19.0	1.2	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U		**5.7**		<	3.6		<	3.7	U		**9.9**		<	3.2	U	<	7.0	U
		EN04-18S	8	20-Sep-05	EN0418S092005	Summa Canister	18.8	1.1	0.0	1.91	N	N			µg/m3	<	6.5	U	<	5.1	U	<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-18S Dup.	8	20-Sep-05	DU34115092005	Summa Canister	18.8	1.1	0.0	1.91	N	N			µg/m3	<	6.5	U	<	5.1	U	<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-18S	8	12-Oct-05	EN0418S101205	Summa Canister	18.8	1.0	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-18S Dup.	8	12-Oct-05	DU12040101205	Summa Canister	18.8	1.0	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-18S	8	14-Dec-05	EN0418S121405	Summa Canister	20.4	0.2	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-18S Dup.	8	14-Dec-05	DU2204121405	Summa Canister	20.4	0.2	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-18S	8	15-Feb-06	EN0418S021506	Summa Canister	20.9	0.2	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-18S	8	4-Apr-06	EN0418S040406	Summa Canister	19.7	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-18S Dup.	8	4-Apr-06	DU12027040406	Summa Canister	19.7	0.0	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-18S	8	20-Jun-06	EN0418S062006	Summa Canister	20.7	0.9	0.0	1.69	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.5	U
		EN04-18S	8	16-Aug-06	EN0418S081606	Summa Canister	19	1.7	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-18D	31	24-Aug-04	EN0418D082404	Summa Canister	19.4	0.6	0.0	2.55	Y	N	1.5E-04		µg/m3		**9.7**			**1,400**	J		**39**	J	<	5.1	U	<	3.3	U		**160**	J		**21**	J		**6.3**		<	3.4	U		**13**	**EB**	<	9.9	U
		EN04-18D Dup.	31	24-Aug-04	DU34146082404	Summa Canister	19.4	0.6	0.0	2.08	Y	N			µg/m3	<	7.2	U		**520**	J		**14**	J	<	4.2	U	<	2.7	U		**60**	J		**6.0**	J	<	4.3	U	<	2.8	U		**6.6**	**EB**	<	8.1	U
		EN04-18D	31	20-Sep-04	EN0418D092004	Summa Canister	18.3	0.9	0.1	2.39	N	N	7.3E-05		µg/m3		**12**			**1,700**			**36**		<	4.8	U	<	3.1	U		**210**		<	4.8	U		**7.4**		<	3.2	U	<	4.2	U	<	9.3	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-18 Continued	EN04-18D	31	18-Oct-04	EN0418D101804	Summa Canister	18.9	1.0	0.0	16.8	N	N	6.4E-05		µg/m3	**15**	**1,800**	**40**	< 8 U	< 4.3 U	**190**	< 6.7 U	**7.6**	< 4.4 U	< 5.8 U	< 13 U
	EN04-18D	31	16-Nov-04	EN0418D111604	Summa Canister	19.6	1.1	0.0	3.22	N	N	1.8E-05		µg/m3	**13**	**1,800**	**52**	< 6.4 U	< 4.1 U	**230**	< 6.4 U	**8.2**	< 4.2 U	< 5.6 U	< 12 U
	EN04-18D	31	7-Dec-04	EN0418D120704	Summa Canister	20.7	0.7	0.1	3.42	N	N	7.3E-06		µg/m3	**15**	**2,100**	**40**	< 6.8 U	< 4.4 U	**230**	< 6.8 U	**9.8**	< 4.5 U	< 5.9 U	< 13 U
	EN04-18D Dup.	31	7-Dec-04	DU33634120704	Summa Canister	20.7	0.7	0.1	3.42	N	N	7.6E-06		µg/m3	**15**	**2,300**	**43**	< 6.8 U	< 4.4 U	**240**	< 6.8 U	**10**	< 4.5 U	< 5.9 U	< 13 U
	EN04-18D	31	11-Jan-05	EN0418D011105	Summa Canister	20.0	0.9	0.0	3.28	N	N			µg/m3	**16**	**2,300**	**52**	< 6.5 U	< 4.2 U	**210**	< 6.5 U	**9.5**	< 4.3 U	< 5.7 U	< 12 U
	EN04-18D Dup.	31	11-Jan-05	DU20773011105	Summa Canister	20.0	0.9	0.0	3.22	N	N			µg/m3	**16**	**2,200**	**42**	< 6.4 U	< 4.1 U	**210**	< 6.4 U	**9.0**	< 4.2 U	< 5.6 U	< 12 U
	EN04-18D	31	24-Feb-05	EN0418D022405	Summa Canister	20.1	0.0	0.0	3.22	N	N			µg/m3	**17**	**2,100**	**33**	< 6.4 U	< 4.1 U	**200**	< 6.4 U	**7.3**	< 4.2 U	< 5.6 U	< 12 U
	EN04-18D	31	24-Mar-05	EN0418D032405	Summa Canister	19.1	0.7	0.0	2.14	N	N			µg/m3	**15**	**1,900**	**32**	< 4.2 U	< 2.7 U	**150**	< 4.2 U	**7.1**	< 2.8 U	< 3.7 U	< 8.2 U
	EN04-18D Dup.	31	24-Mar-05	DU34112032405	Summa Canister	19.1	0.7	0.0	2.28	N	N			µg/m3	**9.4**	**1,800**	**33**	< 4.5 U	< 2.9 U	**150**	< 4.5 U	**7.0**	< 3.0 U	< 4.0 U	< 8.7 U
	EN04-18D	31	19-Apr-05	EN0418D041905	Summa Canister	20.4	0.4	0.0	1.83	N	N			µg/m3	**9.2**	**1,300**	**22**	< 3.6 U	< 2.3 U	**110**	**7.0**	**4.6**	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-18D	31	25-May-05	EN0418D052505	Summa Canister	17.9	0.7	0.0	10.6	N	N			µg/m3	**9.3**	**790**	**26**	< 4.2 U	< 2.7 U	**95**	< **4.2** U	**4.9**	< 2.8 U	< 3.7 U	< 8.1 U
	EN04-18D	31	22-Jun-05	EN0418D062205	Summa Canister	18.8	0.5	0.0	1.83	N	N			µg/m3	**9.9**	**1,300**	**23**	< 3.6 U	< 2.3 U	**99**	< **3.6** U	**4.2**	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-18D	31	6-Jul-05	EN0418D070605	Summa Canister	18.2	0.6	0.0	1.71	N	N			µg/m3	**10**	**1,300**	**29**	< 3.4 U	< 2.2 U	**100**	< **3.4** U	**4.3**	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-18D	31	24-Aug-05	EN0418D082405	Summa Canister	19.2	0.6	0.0	1.91	N	N			µg/m3	**9.5**	**1,300**	**32**	< 3.8 U	< 2.4 U	**130**	< 3.8 U	**4.8**	< 2.5 U	< 3.3 U	< 7.3 U
	EN04-18D	31	20-Sep-05	EN0418D092005	Summa Canister	18.6	0.7	0.0	2.23	N	N			µg/m3	**8.2**	**1,100**	**21**	< 4.4 U	< 2.8 U	**110**	< 4.4 U	< 4.5 U	< 2.9 U	< 3.9 U	< 8.5 U
	EN04-18D	31	12-Oct-05	EN0418D101205	Summa Canister	18.2	0.9	0.0	1.75	N	N			µg/m3	**8.3**	**1,200**	**20**	< 3.5 U	< 2.2 U	**100**	< 3.5 U	**4.2**	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-18D	31	14-Dec-05	EN0418D121405	Summa Canister	19.7	1.1	0.0	1.55	N	N			µg/m3	**10**	**1,200**	**26**	< 3.1 U	< 2.0 U	**130**	< 3.1 U	**5.5**	< 2.0 U	< 2.7 U	< 5.9 U
	EN04-18D	31	15-Feb-06	EN0418D021506	Summa Canister	20.5	0.9	0.0	1.68	N	N			µg/m3	**15**	**1,800**	**31**	< 3.3 U	< 2.1 U	**160**	**8.4**	**6.8**	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-18D Dup.	31	15-Feb-06	DU31775021506	Summa Canister	20.5	0.9	0.0	1.71	N	N			µg/m3	**12**	**1,800**	**27**	< 3.4 U	< 2.2 U	**170**	< 3.4 U	**6.0**	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-18D	31	4-Apr-06	EN0418D040406	Summa Canister	19.4	0.0	0.0	1.68	N	N			µg/m3	**12**	**1,300**	**25**	**3.8**	< 2.1 U	**130**	< 3.3 U	**6.0**	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-18D Dup.	31	4-Apr-06	DU13899040406	Summa Canister	19.4	0.0	0.0	1.68	N	N			µg/m3	**11**	**1,500**	**28**	< 3.3 U	< 2.1 U	**140**	< 3.3 U	**5.6**	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-18D	31	20-Jun-06	EN0418D062006	Summa Canister	21	0.9	0.0	1.68	N	N			µg/m3	**9.1**	**1,300**	**23**	< 3.3 U	< 2.1 U	**120**	< 3.3 U	**5.2**	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-18D	31	16-Aug-06	EN0418D081606	Summa Canister	19	0.8	0.0	2.19	N	N			µg/m3	**11**	**1,400**	**23**	< 4.3 U	< 2.8 U	**130**	< 4.3 U	**4.8**	< 2.9 U	< 3.8 U	< 8.4 U
Implant Location **EN04-19**	EN04-19S	8	24-Aug-04	EN0419S082404	Summa Canister	19.2	0.9	NR	1.96	Y	N	3.1E-02		µg/m3	< 6.8 U	< 5.4 U	< 3.9 U	< 3.9 U	< 2.5 U	< 5.4 U	< 3.9 U	< 4.0 U	< 2.6 U	< 3.5 U	< 7.6 U
Monitoring Well **EN-426**	EN04-19S	8	20-Sep-04	EN0419S092004	Summa Canister	18.2	0.9	0.1	1.87	Y	N	1.3E-01		µg/m3	< 6.4 U	< 5.1 U	< 3.8 U	< 3.8 U	< 2.4 U	< 5.2 U	< 3.8 U	< 3.8 U	< 2.5 U	< 3.3 U	< 7.3 U
Water Table Depth (ft) *35*	EN04-19S	8	19-Oct-04	EN0419S101904	Summa Canister	21.1	0.3	0.0	1.68	Y	N	1.1E-01		µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
Total VOCs *20*	EN04-19S	8	16-Nov-04	EN0419S111604	Summa Canister	20.5	0.4	0.0	1.61	N	N	2.4E-07		µg/m3	< 5.5 U	**4.4**	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
Sum Ethenes *20*	EN04-19S	8	6-Dec-04	EN0419S120604	Summa Canister	20.5	0.0	0.0	1.64	N	N	8.8E-08		µg/m3	< 5.6 U	**8.4**	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
Sum Ethanes *<1*	EN04-19S	8	12-Jan-05	EN0419S011205	Summa Canister	20.7	0.0	0.1	1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
Other	EN04-19S	8	24-Feb-05	EN0419S022405	Summa Canister	20.1	0.0	0.0	1.55	N	N			µg/m3	< 5.2 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2 U	< 2.7 U	< 5.9 U
	EN04-19S Dup.	8	24-Feb-05	DU1737022405	Summa Canister	20.1	0.0	0.0	1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-19S	8	23-Mar-05	EN0419S032305	Summa Canister	19.7	0.2	0.0	1.79	N	Y	ND		µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-19S Dup.	8	23-Mar-05	DU33710032305	Summa Canister	19.7	0.2	0.0	1.79	N	Y	ND		µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-19S	8	20-Apr-05	EN0419S042005	Summa Canister	19.4	0.3	0.0	1.75	N	Y	ND		µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-19 Continued	EN04-19S	8	24-May-05	EN0419S052405	Summa Canister	20.4	0.4	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-19S	8	22-Jun-05	EN0419S062205	Summa Canister	20.0	0.5	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U		**5.4**		<	7.0	U
	EN04-19S Dup.	8	7-Jul-05	DU9476070705	Summa Canister	19.9	0.5	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-19S	8	7-Jul-05	EN0419S070705	Summa Canister	19.9	0.5	0.0	1.79	N	N			µg/m3	<	6.1	U		**5.5**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-19S	8	24-Aug-05	EN0419S082405	Summa Canister	19.9	0.6	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-19S	8	20-Sep-05	EN0419S092005	Summa Canister	20.1	0.3	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-19S	8	12-Oct-05	EN0419S101205	Summa Canister	20.7	0.3	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-19S	8	14-Dec-05	EN0419S121405	Summa Canister	20.1	0.3	0.1	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-19S	8	16-Feb-06	EN0419S021606	Summa Canister	19.4	0.0	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-19S	8	5-Apr-06	EN0419S040506	Summa Canister	20.5	0.2	0.1	1.49	N	N			µg/m3	<	5.0	U	<	4.0	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.0	U	<	2.0	U	<	2.6	U	<	5.7	U
	EN04-19S	8	21-Jun-06	EN0419S062106	Summa Canister	21.4	0.2	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-19S Dup.	8	21-Jun-06	DU2032062106	Summa Canister	21.4	0.2	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-19S	8	16-Aug-06	EN0419S081606	Summa Canister	18.7	2.0	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-19S Dup	8	16-Aug-06	DU33732081606	Summa Canister	18.7	2.0	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-19D	29.5	24-Aug-04	EN0419D082404	Summa Canister	18.6	0.7	NR	2.95	Y	N	6.6E-01		µg/m3	<	10	U		**1,100**			**18**		<	5.9	U	<	3.8	U		**58**			**7.6**		<	6.1	U	<	4.0	U	<	5.2	U	<	11	U
	EN04-19D	29.5	20-Sep-04	EN0419D092004	Summa Canister	19.0	0.7	0.0	2.01	Y	N	9.3E-06		µg/m3	<	6.9	U		**1,900**			**26**		<	4.0	U	<	2.6	U		**100**		<	4.0	U		**5.0**		<	2.7	U	<	3.5	U	<	7.8	U
	EN04-19D	29.5	19-Oct-04	EN0419D101904	Summa Canister	19.4	1.0	0.0	3.22	Y	N	3.9E-05		µg/m3	<	11	U		**1,800**			**22**		<	6.4	U	<	4.1	U		**89**		<	6.4	U	<	6.5	U	<	4.2	U	<	5.6	U	<	12	U
	EN04-19D	29.5	19-Oct-04	DU11429101904	Summa Canister	19.4	1.0	0.0	3.16	Y	N	ND		µg/m3	<	11	U		**1,800**			**20**		<	6.3	U	<	4.0	U		**89**		<	6.3	U	<	6.4	U	<	4.2	U	<	5.5	U	<	12	U
	EN04-19D	29.5	16-Nov-04	EN0419D111604	Summa Canister	19.8	1.0	0.0	3.36	N	N	ND		µg/m3	<	11	U		**1,500**			**24**		<	6.7	U	<	4.3	U		**74**		<	6.7	U	<	6.8	U	<	4.4	U	<	5.8	U	<	13	U
	EN04-19D	29.5	6-Dec-04	EN0419D120604	Summa Canister	20.1	0.7	0.0	3.16	N	N	ND		µg/m3	<	11	U		**1,700**			**29**		<	6.3	U	<	4.0	U		**90**			**6.3**	J	<	6.4	U	<	4.2	U	<	5.5	U	<	12	U
	EN04-19D	29.5	12-Jan-05	EN0419D011205	Summa Canister	20.7	0.0	0.1	2.33	N	N			µg/m3	<	7.9	U		**2,100**			**31**		<	4.6	U	<	3.0	U		**77**		<	4.6	U		**6.5**		<	3.1	U	<	4	U	<	8.9	U
	EN04-19D	29.5	24-Feb-05	EN0419S022405	Summa Canister	19.8	0.1	0.0	3.28	N	N			µg/m3	<	11	U		**1,900**			**24**		<	6.5	U	<	4.2	U		**74**		<	6.5	U	<	6.6	U	<	4.3	U	<	5.7	U	<	12	U
	EN04-19D Dup.	29.5	24-Feb-05	DU34153022405	Summa Canister	19.8	0.1	0.0	2.62	N	N			µg/m3	<	8.9	U		**1,800**			**24**		<	5.2	U	<	3.3	U		**71**		<	5.2	U	<	5.3	U	<	3.4	U	<	4.6	U	<	10	U
	EN04-19D	29.5	23-Mar-05	EN0419D032305	Summa Canister	19.6	0.9	0.1	1.75	N	Y	ND		µg/m3	<	5.9	U		**1,700**			**24**		<	3.5	U	<	2.2	U		**55**		<	3.5	U		**5.1**		<	2.3	U	<	3.0	U	<	6.7	U
	EN04-19D	29.5	20-Apr-05	EN0419D042005	Summa Canister	19.2	0.8	0.0	1.83	N	Y	ND		µg/m3	<	6.2	U		**1,200**			**14**		<	3.6	U	<	2.3	U		**53**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-19D	29.5	24-May-05	EN0419D052405	Summa Canister	20.3	0.6	0.0	1.75	N	N			µg/m3	<	5.9	U		**280**			**4.7**			**4.0**		<	2.2	U		**14**		<	3.5	U	<	3.5	U	<	2.3	U		**30**		<	6.7	U
	EN04-19D	29.5	22-Jun-05	EN0419D062205	Summa Canister	20	0.5	0.0	1.75	N	N			µg/m3	<	5.9	U		**1,300**			**22**		<	3.5	U	<	2.2	U		**66**			**6.4**		<	3.5	U	<	2.3	U		**5.6**		<	6.7	U
	EN04-19D	29.5	7-Jul-05	EN0419D070705	Summa Canister	19.7	0.7	0.0	1.75	N	N			µg/m3	<	5.9	U		**1,500**			**22**		<	3.5	U	<	2.2	U		**76**		<	3.5	U		**3.8**		<	2.3	U	<	3.0	U	<	6.7	U
	EN04-19D	29.5	24-Aug-05	EN0419D082405	Summa Canister	19.5	0.6	0.0	2.23	N	N			µg/m3	<	7.6	U		**1,100**			**16**		<	4.4	U	<	2.8	U		**70**		<	4.4	U	<	**4.5**	U	<	2.9	U	<	3.9	U	<	8.5	U
	EN04-19D	29.5	20-Sep-05	EN0419D092005	Summa Canister	19.1	0.7	0.0	1.79	N	N			µg/m3	<	6.1	U		**1,600**			**18**		<	3.5	U	<	2.3	U		**88**		<	3.5	U	<	**3.6**	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-19D	29.5	12-Oct-05	EN0419D101205	Summa Canister	19.8	0.8	0.0	1.75	N	N			µg/m3	<	5.9	U		**1,300**			**18**		<	3.5	U	<	2.2	U		**79**		<	3.5	U	<	**3.5**	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-19D	29.5	14-Dec-05	EN0419D121405	Summa Canister	19.7	1.1	0.1	1.71	N	N			µg/m3	<	5.8	U		**1,500**			**25**		<	3.4	U	<	2.2	U		**47**		<	3.4	U		**4.2**		<	2.2	U	<	3.0	U	<	6.6	U
	EN04-19D	29.5	16-Feb-06	EN0419D021606	Summa Canister	19.5	0.0	0.0	2.74	N	N			µg/m3	<	9.3	U		**1,400**			**20**		<	5.4	U	<	3.5	U		**48**		<	5.4	U	<	5.5	U		**4.2**		<	4.8	U	<	10	U
	EN04-19D	29.5	5-Apr-06	EN0419D040506	Summa Canister	20.4	0.7	0.0	1.71	N	N			µg/m3	<	5.8	U		**1,500**			**21**		<	3.4	U	<	2.2	U		**54**		<	3.4	U		**4.0**		<	2.2	U	<	3.0	U	<	6.6	U
	EN04-19D	29.5	21-Jun-06	EN0419D062106	Summa Canister	20.3	1.1	0.0	1.75	N	N			µg/m3	<	5.9	U		**1,300**			**14**		<	3.5	U	<	2.2	U		**71**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U

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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethene		1,1-Dichloroethane		Chloroethane		Methylene Chloride		Freon 113	
EN04-19 Continued	EN04-19D	29.5	16-Aug-06	EN0419D081606	Summa Canister	18.5	0.7	0.0	2.53	N	N			µg/m3	<	8.6	U		**1,200**			**11**		<	5.0	U	<	3.2	U		**55**		<	5.0	U	<	5.1	U	<	3.3	U	<	4.4	U	<	9.7	U
Implant Location **EN04-20**	EN04-20S	8	23-Aug-04	EN0420S082304	Summa Canister	15.9	4.0	0.0	1.83	Y	N	8.5E-08		µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3,7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.4	U	<	3.2	U	<	7.1	U
Monitoring Well **EN-207**	EN04-20S	8	20-Sep-04	EN0420S092004	Summa Canister	16.2	3.2	0.0	1.83	N	N	5.4E-05		µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.4	U	<	3.2	U	<	7.1	U
Water Table Depth (ft) *41*	EN04-20S	8	18-Oct-04	EN0420S101804	Summa Canister	18.5	2.8	0.0	8.75	N	N	4.3E-06		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	4.2	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Total VOCs *20*	EN04-20S Dup.	8	18-Oct-04	DU34663101804	Summa Canister	18.5	2.8	0.0	8.55	N	N	4.5E-06		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	4.1	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Sum Ethenes *20*	EN04-20S	8	16-Nov-04	EN0420S111604	Summa Canister	18.9	2.6	0.0	1.58	N	N	1.4E-06		µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
Sum Ethanes *<1*	EN04-20S	8	8-Dec-04	EN0420S120804	Summa Canister	19.6	1.7	0.0	1.61	N	N	4.6E-07		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
Other	EN04-20S	8	11-Jan-05	EN0420S011105	Summa Canister	19.7	1.3	0.0	1.49	N	N			µg/m3		**5.2**		<	4.0	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.0	U	<	2.0	U	<	2.6	U	<	5.7	U
	EN04-20S	8	22-Feb-05	EN0420S022205	Summa Canister	19.8	0.9	0.4	1.58	N	N			µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-20S	8	21-Mar-05	EN0420S032105	Summa Canister	19.3	1.1	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-20S Dup.	8	21-Mar-05	DU11827032105	Summa Canister	19.3	1.1	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-20S	8	19-Apr-05	EN0420S041905	Summa Canister	19.9	0.9	1.1	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-20S	8	24-May-05	EN0420S052405	Summa Canister	17.9	1.6	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-20S	8	22-Jun-05	EN0420S062205	Summa Canister	18.3	2.0	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U		**12**		<	6.7	U
	EN04-20S	8	6-Jul-05	EN0420S070605	Summa Canister	18.8	1.8	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-20S	8	24-Aug-05	EN0420S082405	Summa Canister	19.2	1.8	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-20S	8	20-Sep-05	EN0420S092005	Summa Canister	18.9	2.1	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-20S	8	11-Oct-05	EN0420S101105	Summa Canister	18.5	2.0	0.0	1.58	N	N			µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-20S Dup.	8	11-Oct-05	DU12036101105	Summa Canister	18.5	2.0	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-20S	8	14-Dec-05	EN0420S121405	Summa Canister	20.4	1.3	0.2	2.18	N	N			µg/m3	<	7.4	U	<	5.8	U	<	4.3	U	<	4.3	U	<	2.8	U	<	5.9	U	<	4.3	U	<	4.4	U	<	2.9	U	<	3.8	U	<	8.4	U
	EN04-20S	8	15-Feb-06	EN0420S021506	Summa Canister	20.4	1.0	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U		**5.1**		<	7.0	U
	EN04-20S	8	4-Apr-06	EN0420S040406	Summa Canister	18.9	0.9	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-20S	8	20-Jun-06	EN0420S062006	Summa Canister	19.4	2.8	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-20S	8	16-Aug-06	EN0420S081606	Summa Canister	19.7	0.5	0.0	1.52	N	N			µg/m3	<	5.2	U	<	4.1	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.1	U	<	2.0	U		**6.2**		<	5.8	U
	EN04-20I	24	23-Aug-04	EN0420I082304	Summa Canister	17.5	1.3	0.0	1.83	Y	N	1.6E-06		µg/m3	<	6.3	U		**30**		<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.4	U		4.1		<	7.1	U
	EN04-20I	24	20-Sep-04	EN0420I092004	Summa Canister	17.8	2.0	0.0	1.58	N	N	7.2E-04		µg/m3	<	5.4	U		**31**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-20I	24	18-Oct-04	EN0420I101804	Summa Canister	19.9	1.7	0.0	8.75	N	N	1.3E-05		µg/m3	<	5.9	U		**42**		<	3.5	U	<	4.2	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-20I	24	16-Nov-04	EN0420I111604	Summa Canister	20.2	1.5	0.0	1.61	N	N	2.4E-07		µg/m3	<	5.5	U		**42**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-20I	24	8-Dec-04	EN0420I120804	Summa Canister	20.7	0.7	0.0	1.61	N	N	9.9E-08		µg/m3	<	5.5	U		**44**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-20I	24	11-Jan-05	EN0420I011105	Summa Canister	20.4	0.6	0.0	1.58	N	N			µg/m3	<	5.4	U		**48**		<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-20I	24	22-Feb-05	EN0420I022205	Summa Canister	20.2	0.3	0.3	1.61	N	N			µg/m3	<	5.5	U		**41**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-20I	24	21-Mar-05	EN0420I032105	Summa Canister	19.8	0.1	0.0	1.61	N	N			µg/m3	<	5.5	U		**36**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-20I	24	19-Apr-05	EN0420I041905	Summa Canister	20.4	0.1	0.0	1.87	N	N			µg/m3	<	6.3	U		**20**		<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-20I	24	24-May-05	EN0420I052405	Summa Canister	18.2	0.4	0.0	1.68	N	N			µg/m3	<	5.7	U		**18**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-20 Continued	EN04-20I	24	22-Jun-05	EN0420I062205	Summa Canister	19.1	0.5	0.1	1.64	N	N			µg/m3	<	5.6	U		**22**		<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U		**5.3**		<	6.3	U
	EN04-20I	24	6-Jul-05	EN0420I070605	Summa Canister	18.8	0.6	0.0	1.83	N	N			µg/m3	<	6.2	U		**15**		<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-20I	24	24-Aug-05	EN0420I082405	Summa Canister	19.8	0.9	0.0	1.64	N	N			µg/m3	<	5.6	U		**27**		<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-20I	24	20-Sep-05	EN0420I092005	Summa Canister	19.2	1.1	0.0	2.17	N	N			µg/m3	<	7.4	U		**26**		<	4.3	U	<	4.3	U	<	2.8	U	<	5.9	U	<	4.3	U	<	4.4	U	<	2.9	U	<	3.8	U	<	8.3	U
	EN04-20I	24	11-Oct-05	EN0420I101105	Summa Canister	20.4	0.0	0.0	1.64	N	N			µg/m3	<	5.6	U		**27**		<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-20I	24	14-Dec-05	EN0420I121405	Summa Canister	20.8	0.6	0.2	2.15	N	N			µg/m3	<	7.3	U		**31**		<	4.3	U	<	4.3	U	<	2.7	U	<	5.9	U	<	4.3	U	<	4.4	U	<	2.8	U	<	3.7	U	<	8.2	U
	EN04-20I	24	15-Feb-06	EN0420I021506	Summa Canister	21.0	0.4	0.0	1.68	N	N			µg/m3	<	5.7	U		**30**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-20I	24	4-Apr-06	EN0420I040406	Summa Canister	19.3	0.2	0.0	1.75	N	N			µg/m3	<	5.9	U		**18**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-20I	24	20-Jun-06	EN0420I062006	Summa Canister	20.5	0.6	0.0	1.83	N	N			µg/m3	<	6.2	U		**25**		<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-20I	24	16-Aug-06	EN0420I081606	Summa Canister	18.5	2.0	0.0	1.79	N	N			µg/m3	<	6.1	U		**39**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-20D	36	23-Aug-04	EN0420D082304	Summa Canister	18.7	0.7	0.0	1.96	Y	N	1.5E-06		µg/m3	<	6.8	UJ		**360**	J	<	3.9	UJ	<	3.9	UJ	<	2.5	UJ		**13**	J	<	3.9	UJ	<	4.0	UJ	<	2.6	UJ		**4.0**	J	<	7.6	UJ
	EN04-20D	36	20-Sep-04	EN0420D092004	Summa Canister	19.3	0.0	0.0	1.79	N	N	1.4E-07		µg/m3	<	6.2	U	<	4.9	U	<	3.6	+	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-20D	36	18-Oct-04	EN0420D101804	Summa Canister	20.5	0.3	0.0	8.75	N	N	2.2E-06		µg/m3	<	5.9	U		**420**		<	3.5	U	<	4.2	U	<	2.2	U		**14**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-20D	36	16-Nov-04	EN0420D111604	Summa Canister	19.8	0.7	0.0	1.44	N	N	1.9E-07		µg/m3	<	4.9	U		**410**		<	2.8	U	<	2.8	U	<	1.8	U		**20**		<	2.8	U	<	2.9	U	<	1.9	U		**7.9**		<	5.5	U
	EN04-20D	36	8-Dec-04	EN0420D120804	Summa Canister	20.3	0.3	0.0	1.61	N	N	8.0E-08		µg/m3	<	5.5	U		**370**		<	3.2	U	<	3.2	U	<	2.0	U		**20**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-20D	36	11-Jan-05	EN0420D011105	Summa Canister	20.1	0.6	0.0	1.55	N	N			µg/m3	<	5.2	U		**410**		<	3.1	U	<	3.1	U	<	2.0	U		**18**		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
	EN04-20D	36	22-Feb-05	EN0520D022205	Summa Canister	19.9	0.3	0.3	1.79	N	N			µg/m3	<	6.1	U		**340**		<	3.5	U	<	3.5	U	<	2.3	U		**16**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-20D	36	21-Mar-05	EN0420D032105	Summa Canister	19.8	0.1	0.0	1.52	N	N			µg/m3	<	5.2	U		**270**		<	3.0	U	<	3.0	U	<	1.9	U		**16**		<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
	EN04-20D	36	19-Apr-05	EN0420D041905	Summa Canister	20.5	0.0	0.0	1.79	N	N			µg/m3	<	6.1	U		**160**		<	3.5	U	<	3.5	U	<	2.3	U		**6.7**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-20D	36	24-May-05	EN0420D052405	Summa Canister	18.2	0.3	0.0	1.91	N	N			µg/m3	<	6.5	U		**110**		<	3.8	U	<	3.8	U	<	2.4	U		**6.3**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
	EN04-20D	36	22-Jun-05	EN0420D062205	Summa Canister	19.3	0.4	0.0	1.83	N	N			µg/m3	<	6.2	U		**130**		<	3.6	U	<	3.6	U	<	2.3	U		**6.6**		<	3.6	U	<	3.7	U	<	2.4	U		**8.4**		<	7.0	U
	EN04-20D	36	6-Jul-05	EN0420D070605	Summa Canister	19.1	0.3	0.0	1.75	N	N			µg/m3	<	5.9	U		**100**		<	3.5	U	<	3.5	U	<	2.2	U		**5.8**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-20D	36	24-Aug-05	EN0420D082405	Summa Canister	20.4	0.1	0.0	1.96	N	N			µg/m3	<	6.6	U		**130**		<	3.9	U	<	3.9	U	<	2.5	U		**8.4**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.4	U	<	7.5	U
	EN04-20D	36	20-Sep-05	EN0420D092005	Summa Canister	19.8	0.4	0.0	1.96	N	N			µg/m3	<	6.6	U		**120**		<	3.9	U	<	3.9	U	<	2.5	U		**8.0**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.4	U	<	7.5	U
	EN04-20D	36	11-Oct-05	EN0420D101105	Summa Canister	19.7	0.4	0.0	1.91	N	N			µg/m3	<	6.5	U		**140**		<	3.8	U	<	3.8	U	<	2.4	U		**8.8**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
	EN04-20D	36	14-Dec-05	EN0420D121405	Summa Canister	20.6	0.5	0.2	1.61	N	N			µg/m3	<	5.5	U		**190**		<	3.2	U	<	3.2	U	<	2.0	U		**12**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-20D	36	15-Feb-06	EN0420D021506	Summa Canister	20.8	0.4	0.0	1.68	N	N			µg/m3	<	5.7	U		**160**		<	3.3	U	<	3.3	U	<	2.1	U		**9.6**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-20D	36	4-Apr-06	EN0420D040406	Summa Canister	19.4	0.2	0.0	1.52	N	N			µg/m3	<	5.2	U		**230**		<	3.0	U	<	3.0	U	<	1.9	U		**13**		<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
	EN04-20D	36	20-Jun-06	EN0420D062006	Summa Canister	21.2	0.5	0.0	1.75	N	N			µg/m3	<	5.9	U		**190**		<	3.5	U	<	3.5	U	<	2.2	U		**12**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-20D	36	16-Aug-06	EN0420D081606	Summa Canister	18.6	0.7	0.0	1.71	N	N			µg/m3	<	5.8	U		**250**		<	3.4	U	<	3.4	U	<	2.2	U		**10**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
Implant Location	**EN04-21**	EN04-21S	7.5	25-Aug-04	EN0421S082504	Summa Canister	16.1	3.3	0.0	2.96	Y	N	2.6E-07		µg/m3	<	10	U		**12**		<	6.0	U	<	6.0	U	<	3.8	U	<	8.2	U	<	6.0	U	<	6.1	U	<	4.0	UJ	<	5.2	U	<	12	U
Monitoring Well	**EN-426**	EN04-21S	7.5	20-Sep-04	EN0421S092004	Summa Canister	16.6	2.5	0.0	1.96	N	N	2.5E-06		µg/m3	<	6.8	U		**20**		<	3.9	U	<	3.9	U	<	2.5	U		**10**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.5	U	<	7.6	U
Water Table Depth (ft)	*35*	EN04-21S	7.5	18-Oct-04	EN0421S101804	Summa Canister	17.3	1.9	0.0	8.2	N	N	3.9E-08		µg/m3	<	5.6	U		**24**		<	3.2	U	<	3.9	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Total VOCs	*20*	EN04-21S	7.5	16-Nov-04	EN0421S111604	Summa Canister	19.5	1.0	0.0	1.64	N	N	6.8E-08		µg/m3	<	5.6	U		**5.6**		<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethenes	*20*	EN04-21S	7.5	6-Dec-04	EN0421S120604	Summa Canister	19.7	0.4	0.0	1.61	N	N	ND		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
Sum Ethanes	*<1*	EN04-21S	7.5	12-Jan-05	EN0421S011205	Summa Canister	20.7	0.0	0.1	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Other		EN04-21S	7.5	24-Feb-05	EN0421S022405	Summa Canister	18.1	0.9	0.0	1.55	N	N			µg/m3	<	5.2	U		**6.6**		<	3.1	U	<	3.1	U	<	2.0	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2	U	<	2.7	U	<	5.9	U
		EN04-21S	7.5	22-Mar-05	EN0421S032205	Summa Canister	18.3	1.5	0.2	1.61	N	Y	0.1		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-21S	7.5	20-Apr-05	EN0421S042005	Summa Canister	17.3	2.0	0.1	1.83	N	Y	ND		µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-21S	7.5	24-May-05	EN0421S052405	Summa Canister	18.0	2.1	0.0	1.79	N	N			µg/m3	<	6.1	U		**550**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-21S	7.5	22-Jun-05	EN0421S062205	Summa Canister	15.5	3.5	0.0	2.59	N	N			µg/m3	<	8.8	U		**710**		<	5.1	U	<	5.1	U	<	3.3	U	<	7.1	U	<	5.1	U	<	5.2	U	<	3.4	U		**5.2**		<	9.9	U
		EN04-21S Dup.	7.5	22-Jun-05	DU2192062205	Summa Canister	15.5	3.5	0.0	1.96	N	N			µg/m3	<	6.6	U		**740**		<	3.9	U	<	3.9	U	<	2.5	U	<	5.3	U	<	3.9	U	<	4.0	U	<	2.6	U		**7.6**		<	7.5	U
		EN04-21S	7.5	7-Jul-05	EN0421S070705	Summa Canister	13.3	4.4	0.0	1.75	N	N			µg/m3	<	5.9	U		**300**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-21S	7.5	24-Aug-05	EN0421S082405	Summa Canister	15.1	4.2	0.0	1.79	N	N			µg/m3	<	6.1	U		**19**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-21S	7.5	20-Sep-05	EN0421S092005	Summa Canister	15.2	3.7	0.0	1.71	N	N			µg/m3	<	5.8	U		**9.8**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-21S Dup.	7.5	12-Oct-05	DU3395101205	Summa Canister	15.8	2.8	0.0	1.61	N	N			µg/m3	<	5.5	U		**5.8**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-21S	7.5	12-Oct-05	EN0421S101205	Summa Canister	15.8	2.8	0.0	1.61	N	N			µg/m3	<	5.5	U		**6.2**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-21S	7.5	14-Dec-05	EN0421S121405	Summa Canister	19.4	0.9	0.1	1.58	N	N			µg/m3	<	5.4	U		**4.6**		<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-21S Dup.	7.5	14-Dec-05	DU2137121405	Summa Canister	19.4	0.9	0.1	1.58	N	N			µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-21S	7.5	16-Feb-06	EN0421S021606	Summa Canister	19.2	0.1	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-21S	7.5	5-Apr-06	EN0421S040506	Summa Canister	20.2	0.7	0.1	1.68	N	Y	ND		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-21S	7.5	21-Jun-06	EN0421S062106	Summa Canister	15.8	4.8	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-21S Dup.	7.5	21-Jun-06	DU30829062106	Summa Canister	15.8	4.8	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-21S	7.5	16-Aug-06	EN0421S081606	Summa Canister	20.1	0.0	0.0	1.61	N	N			µg/m3	<	5.5	U		**6.3**		<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-21D	23	25-Aug-04	EN0421D082504	Summa Canister	17.5	1.7	0.0	2.96	Y	N	8.7E-06		µg/m3	<	10	U		**360**		<	6.0	U	<	6.0	U	<	3.8	U		**17**		<	6.0	U	<	6.1	U	<	4.0	UJ	<	5.2	U	<	12	U
		EN04-21D	23	20-Sep-04	EN0421D092004	Summa Canister	18.0	1.5	0.0	1.96	N	N	5.5E-05		µg/m3	<	6.8	U		**580**		<	3.9	U	<	3.9	U	<	2.5	U		**28**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.5	U	<	7.6	U
		EN04-21D Dup	23	20-Sep-04	DU34626092004	Summa Canister	18.0	1.5	0.0	1.96	N	N	6.6E-05		µg/m3	<	6.8	U		**650**		<	3.9	U	<	3.9	U	<	2.5	U		**31**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.5	U	<	7.6	U
		EN04-21D	23	18-Oct-04	EN0421D101804	Summa Canister	19.6	1.0	0.0	16.4	N	N	6.8E-08		µg/m3	<	11	U		**610**		<	6.5	U	<	7.8	U	<	4.2	U		**29**		<	6.5	U	<	6.6	U	<	4.3	U	<	5.7	U	<	12	U
		EN04-21D	23	16-Nov-04	EN0421D111604	Summa Canister	19.8	0.9	0.0	1.71	N	N	ND		µg/m3	<	5.8	U		**750**			**7.7**		<	3.4	U	<	2.2	U		**42**		<	3.4	U	<	3.5	U	<	2.2	U	<	3	U	<	6.6	U
		EN04-21D Dup.	23	16-Nov-04	DU12367111604	Summa Canister	19.8	0.9	0.0	1.68	N	N	ND		µg/m3	<	5.7	U		**900**			**9.3**		<	3.3	U	<	2.1	U		**49**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-21D	23	6-Dec-04	EN0421D120604	Summa Canister	20.1	0.6	0.0	2.19	N	N	ND		µg/m3	<	7.4	U		**1,300**			**10**		<	4.3	U	<	2.8	U		**66**		<	4.3	U	<	4.4	U	<	2.9	U	<	3.8	U	<	8.4	U
		EN04-21D	23	12-Jan-05	EN0421D011205	Summa Canister	20.7	0.0	0.1	1.68	N	N			µg/m3	<	5.7	U		**1,700**			**14**		<	3.3	U	<	2.1	U		**73**		<	3.3	U		**3.9**		<	2.2	U	<	2.9	U	<	6.4	U
		EN04-21D	23	24-Feb-05	EN0421D022405	Summa Canister	20.0	0.0	0.0	1.44	N	N			µg/m3	<	4.9	U		**1,400**			**10**		<	2.8	U	<	1.8	U		**71**		<	2.8	U	<	2.9	U	<	1.9	U	<	2.5	U	<	5.5	U
		EN04-21D	23	22-Mar-05	EN0421D032205	Summa Canister	18.2	1.5	0.2	1.61	N	Y	ND		µg/m3	<	5.5	U		**1,200**			**10**		<	3.2	U	<	2.0	U		**46**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-21 Continued	EN04-21D	23	20-Apr-05	EN0421D042005	Summa Canister	18.7	1.0	0.0	1.71	N	Y	ND		µg/m3	< 5.8 U	**460**	< 3.4 U	< 3.4 U	< 2.2 U	**11**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-21D Dup.	23	20-Apr-05	DU9375042005	Summa Canister	18.7	1.0	0.0	1.79	N	Y	ND		µg/m3	< 6.1 U	**550**	**3.6**	< 3.5 U	< 2.3 U	**12**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-21D	23	24-May-05	EN0421D052405	Summa Canister	19.4	1.1	0.0	1.87	N	N			µg/m3	< 6.3 U	**450**	< 3.7 U	< 3.7 U	< 2.4 U	**11**	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
	EN04-21D Dup.	23	24-May-05	DU9482052405	Summa Canister	19.4	1.1	0.0	1.68	N	N			µg/m3	< 5.7 U	**440**	< 3.3 U	< 3.3 U	< 2.1 U	**10**	< 3.3 U	< 3.4 U	< 2.2 U	**3.8**	< 6.4 U
	EN04-21D	23	22-Jun-05	EN0421D062205	Summa Canister	18.0	1.6	0.0	1.71	N	N			µg/m3	< 5.8 U	**630**	< 3.4 U	< 3.4 U	< 2.2 U	**10**	< 3.4 U	< 3.5 U	< 2.2 U	**4.6**	< 6.6 U
	EN04-21D	23	7-Jul-05	EN0421D070705	Summa Canister	17.1	2.1	0.0	1.75	N	N			µg/m3	< 5.9 U	**530**	< 3.5 U	< 3.5 U	< 2.2 U	**9.8**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-21D	23	24-Aug-05	EN0421D082405	Summa Canister	17.6	2.5	0.0	1.75	N	N			µg/m3	< 5.9 U	**420**	< 3.5 U	< 3.5 U	< 2.2 U	**12**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-21D	23	20-Sep-05	EN0421D092005	Summa Canister	17.6	2.2	0.0	1.79	N	N			µg/m3	< 6.1 U	**440**	< 3.5 U	< 3.5 U	< 2.3 U	**14**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-21D	23	12-Oct-05	EN0421D101205	Summa Canister	19.0	1.7	0.0	1.75	N	N			µg/m3	< 5.9 U	**540**	< 3.5 U	< 3.5 U	< 2.2 U	**20**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-21D	23	14-Dec-05	EN0421D121405	Summa Canister	19.9	1.2	0.0	1.61	N	N			µg/m3	< 5.5 U	**1,000**	**8.4**	< 3.2 U	< 2.0 U	**46**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-21D	23	16-Feb-06	EN0421D021606	Summa Canister	19.4	0.1	0.0	1.71	N	N			µg/m3	< 5.8 U	**780**	**5.6**	< 3.4 U	< 2.2 U	**33**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-21D	23	5-Apr-06	EN0421D040506	Summa Canister	18.4	1.3	0.1	1.91	N	Y	ND		µg/m3	< 6.5 U	**770**	**5**	< 3.8 U	< 2.4 U	**28**	< 3.8 U	< 3.9 U	< 2.5 U	< 3.3 U	< 7.3 U
	EN04-21D	23	21-Jun-06	EN0421D062106	Summa Canister	17.6	2.8	0.0	1.79	N	N			µg/m3	< 6.1 U	**370**	< 3.5 U	< 3.5 U	< 2.3 U	**8.3**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-21D	23	16-Aug-06	EN0421D081606	Summa Canister	17.4	2.5	0.0	1.79	N	N			µg/m3	< 6.1 U	**350**	< 3.5 U	< 3.5 U	< 2.3 U	**8.1**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-21D Dup	23	16-Aug-06	DU11834081606	Summa Canister	17.4	2.5	0.0	1.83	N	N			µg/m3	< 6.2 U	**320**	< 3.6 U	< 3.6 U	< 2.3 U	**8.7**	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
Implant Location **EN04-22**	WP-9	8	11-Jun-02	WP-9-8#0158	Summa Canister				1	N	N			µg/m3	**3.0** JEB	**510**	**2,800**	**71**	**58**	**83**	**40**	**10**	NS	**9.0** EB	**19** AB
Monitoring Well **EN-80, EN-393**	WP-9	8	11-Jun-02	WP-9-8DUP#0166	Summa Canister				2	N	N			µg/m3	< 3.0 U	**390**	**3,300**	**55**	**55**	**77** AB	**41**	**9.0**	NS	**10** EB	**19** AB
Water Table Depth (ft) *20*	WP-9	8	24-Jun-02	WP-9	Tedlar Bag				1	N	N			µg/m3	< 1,000 U	< 1,000 U	**5,000**	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	**NA**	NS	< 1,000 U	< 1,000 U
Total VOCs *1500*	WP-9	8	9-Jul-02	WP-9-8#0091	Summa Canister				5	N	N			µg/m3	< 7.0 U	**1,000**	**5,700**	**110**	**77**	**150**	**61**	**18** J	NS	< 9.0 U	**28** J
Sum Ethenes *1500*	WP-9	8	9-Jul-02	WP-9-8#0021	Summa Canister				2	N	N			µg/m3	**5.0** JEB	**1,000**	**5,700**	**110**	**75**	**130**	**62**	**18**	NS	< 4.0 U	**27**
Sum Ethanes *<1*	WP-9	8	13-Nov-02	WP-9-8	Summa Canister				14.6	N	N			µg/m3	< 50 U	**750**	**6,000**	< 120 U	< 19 U	**77**	< 29 U	< 30 U	< 20 U	< 26 U	< 57 U
Other	WP-9 Dup	8	13-Nov-02	DU-1586-111302	Summa Canister				14.3	N	N			µg/m3	< 49 U	**810**	**5,900**	< 120 U	< 18 U	**80**	< 29 U	< 29 U	< 19 U	< 25 U	< 56 U
	EN04-22S	8	26-Aug-04	EN0422S082604	Summa Canister	16.2	2.6	0.1	9.52	Y	N	3.5E-06		µg/m3	< 33 U	**1,400**	**4,000**	< 19 U	< 12 U	**99**	< 19 U	< 20 U	< 13 U	< 17 UJ	< 37 U
	EN04-22S	8	23-Sep-04	EN0422S092304	Summa Canister	13.7	3.7	0.1	3.36	N	N	6.1E-07		µg/m3	< 12 U	**1,100**	**2,400**	**50**	< 4.4 U	**69**	**8.0**	**8.4**	< 4.5 U	< 5.9 U	**17**
	EN04-22S	8	21-Oct-04	EN0422S102104	Summa Canister	15.7	3.1	0.0	39.5	N	N	ND		µg/m3	< 27 U	**760**	**2,000**	**40**	< 10.0 U	**55**	< 16 U	**16** U	< 10 U	< 14 U	< 30 U
	EN04-22S	8	18-Nov-04	EN0422S111804	Summa Canister	15.7	3.5	0.0	3.42	N	N	ND		µg/m3	< 12 U	**620**	**1,900**	40	< 4.4 U	**67**	< 6.8 U	**7.5**	< 4.5 U	< 5.9 U	< 13 U
	EN04-22S	8	9-Dec-04	EN0422S120904	Summa Canister	20.6	0.0	0.0	1.61	N	N	ND		µg/m3	< 5.5 U	**39**	**92**	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-22S	8	13-Jan-05	EN0422S011305	Summa Canister	17.2	2.1	0.1	1.61	N	N			µg/m3	< 5.5 U	**260**	**880**	**20**	< 2.0 U	**29**	< 3.2 U	**3.7**	< 2.1 U	< 2.8 U	**6.7**
	EN04-22S	8	24-Feb-05	EN0422S022405	Summa Canister	20.4	0.0	0.0	1.61	N	N			µg/m3	< 5.5 U	**180**	**610**	**15**	< 2.0 U	**23**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-22S	8	23-Mar-05	EN0422S032305	Summa Canister	17.1	2.3	0.0	9.29	N	Y	ND		µg/m3	< 32.0 U	**650**	**3,100**	**54**	< 12 U	**42**	< 18 U	< 19 U	< 12 U	< 16 U	< 36 U
	EN04-22S	8	20-Apr-05	EN0422S042005	Summa Canister	16.7	1.8	0.0	1.71	N	Y	ND		µg/m3	< 5.8 U	**280**	**920**	**21**	**13**	**24**	< 3.4 U	**3.7**	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-22S	8	26-May-05	EN0422S052605	Summa Canister	15.2	2.7	0.0	1.79	N	N			µg/m3	< 6.1 U	**210**	**770**	**16**	< 2.3 U	**16**	< 3.5 U	< 3.6 U	< 2.4 U	**19**	< 6.8 U
	EN04-22S	8	23-Jun-05	EN0422S062305	Summa Canister	15.2	3.6	0.0	5.7	N	N			µg/m3	< 19 U	**940**	**2,500**	**54**	< 7.3 U	**56**	< 11 U	< 12 U	< 7.5 U	< 9.9 U	< 22 U
	EN04-22S	8	7-Jul-05	EN0422S070705	Summa Canister	17.3	2.1	0.0	4.78	N	N			µg/m3	< 16 U	**1,100**	**3,000**	**70**	< 6.1 U	**71**	< 9.5 U	**11**	< 6.3 U	< 8.3 U	< 18 U

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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-22 Continued	EN04-22S	8	25-Aug-05	EN0422S082505	Summa Canister	13.2	5.4	0.0	4.48	N	N			µg/m3	<	15	U		**1,200**			**2,300**			**67**		<	5.7	U		**69**		<	8.9	U		**9.1**		<	5.9	U	<	7.8	U	<	17	U
	EN04-22S	8	21-Sep-05	EN0422S092105	Summa Canister	13.4	4.9	0.0	2.76	N	N			µg/m3	<	9	U		**1,000**			**1,700**			**53**		<	3.5	U		**57**		<	5.5	U		**7.0**		<	3.6	U	<	4.8	U		**12**	
	EN04-22S	8	21-Sep-05	DU34603092105	Summa Canister	13.4	4.9	0.0	3.1	N	N			µg/m3	<	10	U		**1,100**			**1,800**			**56**		<	4.0	U		**63**		<	6.1	U		**7.0**		<	4.1	U	<	5.4	U		**13**	
	EN04-22S	8	13-Oct-05	EN0422S101305	Summa Canister	14.7	4.8	0.0	4.99	N	N			µg/m3	<	17	U		**980**			**1,600**			**50**		<	6.4	U		**63**		<	9.9	U	<	10	U	<	6.6	U	<	8.7	U	<	19	U
	EN04-22S	8	15-Dec-05	EN0422S121506	Summa Canister	16.9	2.6	0.0	1.55	N	N			µg/m3	<	5.2	U		**250**			**660**			**17**		<	2.0	U		**23**		<	3.1	U		**3.1**	J	<	2.0	U	<	2.7	U	<	5.9	U
	EN04-22S	8	15-Feb-06	EN0422S021506	Summa Canister	17.7	2.0	0.0	1.58	N	N			µg/m3	<	5.4	U		**180**			**480**			**13**		<	2.0	U		**17**		<	3.1	U	<	3.2	U	<	2.0	U	<	2.7	U	<	6.0	U
	EN04-22S	8	5-Apr-06	EN0422S040506	Summa Canister	16.8	2.3	0.0	1.71	N	N			µg/m3	<	5.8	U		**210**			**610**			**22**		<	2.2	U		**23**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-22S	8	21-Jun-06	EN0422S062106	Summa Canister	17.3	2.5	0.0	2.17	N	N			µg/m3	<	7.4	U		**630**			**1,100**			**35**		<	2.8	U		**37**		<	4.3	U		**5.6**		<	2.9	U	<	3.8	U		**9.2**	
	EN04-22S	8	16-Aug-06	EN0422S081606	Summa Canister	15.6	4.5	0.0	2.6	N	N			µg/m3		**13**			**1,300**			**1,400**			**51**		<	3.3	U		**66**		<	5.2	U		**7.7**		<	3.4	U	<	4.5	U		**21**	
	WP-8	12	11-Jun-02	WP-8-12#0157	Summa Canister				2	N	N			µg/m3		**18**	EB		**1,000**			**7,700**			**150**			**250**			**140**			**97**			**27**			NS		<	4.0	U		**54**	AB
	WP-8	12	9-Jul-02	WP-8-12#0136	Summa Canister				1.6	N	N			µg/m3		**5.0**	JEB		**970**	EB		**10,000**			**160**			**190**			**140**			**130**			**24**			NS		<	3.0	U		**28**	
	WP-8	12	13-Nov-02	WP-8-12	Summa Canister				38.2	N	N			µg/m3	<	130	U		**1,300**			**12,000**		<	310	U	<	50	U	<	100	U	<	77	U	<	78	U	<	51	U	<	67	U	<	150	U
	WP-7	16	11-Jun-02	WP-7-16#0155	Summa Canister				2	N	N			µg/m3	<	3.0	U		**680**			**8,600**			**140**			**1,000**			**140**			**130**			**21**			NS			**9.0**	EB		**210**	AB
	WP-7	16	9-Jul-02	WP-7-16#0086	Summa Canister				10	N	N			µg/m3	<	15	U		**810**	EB		**13,000**			**190**			**720**			**170**			**210**			**32**	J		NS		<	19	U	<	41	U
	WP-7	16	13-Nov-02	WP-7-16	Summa Canister				36.6	N	N			µg/m3	<	130	U		**1,400**			**15,000**		<	290	U	<	48	U	<	100	U	<	74	U	<	75	U	<	49	U	<	65	U	<	140	U
	EN04-22D	16	26-Aug-04	EN0422D082604	Summa Canister	19.2	0.3	0.0	24.4	Y	N	3.2E-07		µg/m3	<	84	U		**1,700**			**12,000**		<	49	U		**130**			**140**		<	49	U	<	50	U	<	33	U	<	43	U	<	95	U
	EN04-22D	16	23-Sep-04	EN0422D092304	Summa Canister	12.7	5.2	0.1	17.1	N	N	1.6E-06		µg/m3	<	59	U		**1,600**			**11,000**			**160**			**520**			**130**			**37**		<	35	U	<	23	U	<	30	U	<	67	U
	EN04-22D	16	21-Oct-04	EN0422D102104	Summa Canister	13.8	5.2	0.0	201	N	N	ND		µg/m3	<	140	U		**1,700**			**8,900**			**140**			**190**			**110**		<	80	U	<	81	U	<	53	U	<	70	U	<	150	U
	EN04-22D - Dup	16	21-Oct-04	DU12372102104	Summa Canister	13.8	5.2	0.0	171	N	N	7.7E-08		µg/m3	<	120	U		**1,400**			**7,700**			**120**			**160**			**98**		<	68	U	<	69	U	<	45	U	<	59	U	<	130	U
	EN04-22D	16	18-Nov-04	EN0422D111804	Summa Canister	15.3	4.3	0.0	17.5	N	N	ND		µg/m3	<	59	U		**1,400**			**8,200**			**120**		<	22	U		**120**		<	35	U	<	35	U	<	23	U	<	30	U	<	67	U
	EN04-22D	16	9-Dec-04	EN0422D120904	Summa Canister	15.8	3.6	0.0	12.9	N	N	5.8E-07		µg/m3	<	44	U		**1,400**			**6,500**			**120**		<	16	U		**110**		<	26	U	<	26	U	<	17	U	<	22	U	<	49	U
	EN04-22D	16	9-Dec-04	EN0422D120904GRAB	Summa Canister	NA	NA	NA	11.9	N	N	3.6E-08		µg/m3	<	40	U		**1,400**			**6,700**			**120**		<	15	U		**100**		<	24	U	<	24	U	<	16	U	<	21	U	<	46	U
	EN04-22D	16	13-Jan-05	EN0422D011305	Summa Canister	16.1	3.4	0.1	8.75	N	N			µg/m3	<	30	U		**960**			**4,800**			**79**		<	11	U		**70**		<	17	U	<	18	U	<	12	U	<	15	U	<	34	U
	EN04-22D Dup.	16	13-Jan-05	DU33648011305	Summa Canister	16.1	3.4	0.1	8.75	N	N			µg/m3	<	30	U		**960**			**4,800**			**83**		<	11	U		**70**		<	17	U	<	18	U	<	12	U	<	15	U	<	34	U
	EN04-22D	16	24-Feb-05	EN0422D022405	Summa Canister	20.0	0.0	0.0	7.48	N	N			µg/m3	<	25	U		**780**			**3,300**			**61**		<	10	U		**64**		<	15	U	<	15	U	<	9.9	U	<	13	U	<	29	U
	EN04-22D Dup.	16	24-Feb-05	DU24388022405	Summa Canister	20.0	0.0	0.0	8.86	N	N			µg/m3	<	30	U		**790**			**3,300**			**68**		<	11	U		**64**		<	18	U	<	18	U	<	12	U	<	15	U	<	34	U
	EN04-22D	16	23-Mar-05	EN0422D032305	Summa Canister	17.5	1.7	0.0	1.71	N	Y	ND		µg/m3	<	5.8	U		**190**			**740**			**14**		<	2.2	U		**18**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-22D	16	20-Apr-05	EN0422D042005	Summa Canister	17.3	1.8	0.0	7.78	N	Y	ND		µg/m3	<	26	U		**570**			**2,500**			**50**			**330**			**50**		<	15	U	<	16	U	<	10	U	<	14	U	<	30	U
	EN04-22D	16	26-May-05	EN0422D052605	Summa Canister	15.1	2.8	0.0	6.44	N	N			µg/m3	<	22	U		**560**			**3,000**			**59**		<	8.2	U		**38**		<	13	U	<	13	U	<	8.5	U	<	11	U	<	25	U
	EN04-22D	16	23-Jun-05	EN0422D062305	Summa Canister	14.9	3.9	0.0	9.35	N	N			µg/m3	<	32	U		**780**			**3,600**			**81**		<	12	U		**49**		<	18	U	<	19	U	<	12	U	<	16	U	<	36	U
	EN04-22D	16	8-Jul-05	EN0422D070805	Summa Canister	15.0	3.7	0.0	7.16	N	N			µg/m3	<	24	U		**740**			**3,500**			**74**		<	9.2	U		**51**		<	14	U	<	14	U	<	9.4	U	<	12	U	<	27	U
	EN04-22D Dup.	16	8-Jul-05	DU939070805	Summa Canister	15.0	3.7	0.0	6.84	N	N			µg/m3	<	23	U		**700**			**3,400**			**70**		<	8.7	U		**49**		<	14	U	<	14	U	<	9.0	U	<	12	U	<	26	U
	EN04-22D	16	25-Aug-05	EN0422S082505	Summa Canister	12.9	5.7	0.0	9.6	N	N			µg/m3	<	32	U		**1,100**			**4,400**			**110**		<	12.0	U		**79**		<	19	U	<	19	U	<	13.0	U	<	17	U	<	37	U
	EN04-22D	16	21-Sep-05	EN0422S092105	Summa Canister	13.4	5.1	0.0	9.15	N	N			µg/m3	<	31	U		**1,200**			**4,500**			**120**		<	12.0	U		**88**		<	18	U	<	18	U	<	12.0	U	<	16	U	<	35	U

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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-22 Continued		EN04-22D	16	13-Oct-05	EN0422S101305	Summa Canister	13.7	5.8	0.0	7.00	N	N			µg/m3	<	24	U		**1,100**			**3,500**			**85**		<	8.9	U		**74**		<	14	U	<	14	U	<	9.2	U	<	12	U	<	27	U
		EN04-22D	16	15-Dec-05	EN0422D121505	Summa Canister	15.4	3.8	0.0	6.84	N	N			µg/m3	<	23	U		**870**			**3,400**			**70**		<	8.7	U		**68**		<	14	U	<	14	U	<	2.0	U	<	12	U	<	26	U
		EN04-22D	16	15-Feb-06	EN0422D021506	Summa Canister	16.8	2.8	0.0	3.22	N	N			µg/m3	<	11	U		**660**			**2,200**			**53**		<	7.8	U		**41**			**11**			**8.2**		<	4.2	U	<	5.6	U	<	12	U
		EN04-22D	16	5-Apr-06	EN0422D040506	Summa Canister	19.5	0.0	0.0	3.1	N	N			µg/m3	<	10	U		**570**			**2,000**			**56**		<	4.0	U		**38**		<	6.1	U		**8.6**		<	4.1	U	<	5.4	U	<	12	U
		EN04-22D	16	21-Jun-06	EN0422D062106	Summa Canister	16.7	3.0	0.0	3.98	N	N			µg/m3	<	13	U		**770**			**2,100**			**68**		<	5.1	U		**47**		<	7.9	U		**9.5**		<	5.2	U	<	6.9	U	<	15	U
		EN04-22D	16	16-Aug-06	EN0422D081606	Summa Canister	14.2	5.3	0.0	4.56	N	N			µg/m3	<	15	U		**920**			**2,300**			**80**		<	5.8	U		**58**		<	9.0	U		**9.5**		<	6.0	U	<	7.9	U	<	17	U
		WP-6	20	11-Jun-02	WP-6-20#0152	Summa Canister				20	N	N			µg/m3	<	29	U		**490**	EB		**21,000**			**280**			**2,600**			**80**	JAB		**370**		<	18	U		NS			**290**	EB	<	83	U
		WP-6 Dil. 1	20	24-Jun-02	WP-6 Dil.1	Tedlar Bag				1	N	N			µg/m3	<	1,000	U	<	1,000	U		**45,000**	E	<	1,000	U		**4,300**		<	1,000	U	<	1,000	U		NA			NS		<	1,000	U	<	1,000	U
		WP-6 Dil. 2	20	24-Jun-02	WP-6 Dil.2	Tedlar Bag				2	N	N			µg/m3	<	2,000	U	<	2,000	U		**37,000**		<	2,000	U		**3,400**		<	2,000	U	<	2,000	U		NA			NS		<	2,000	U	<	2,000	U
		WP-6	20	9-Jul-02	WP-6-20#0028	Summa Canister				20	N	N			µg/m3	<	29	U		**600**	EB		**39,000**			**470**			**3,200**			**100**	J		**570**			**33**	J		NS			**370**	EB	<	83	U
		WP-6	20	13-Nov-02	WP-6-20	Summa Canister				18.3	N	N			µg/m3	<	63	U		**850**			**13,000**			**170**		<	24	U		**60**		<	37	U	<	38	U	<	24	U	<	32	U	<	71	U
Implant Location	**EN04-23**	EN04-23S	8	25-Aug-04	EN0423S082504	Summa Canister	1.3	11.7	7.0	2.82	Y	N	2.5E-01		µg/m3	<	9.7	U	<	7.7	U	<	5.7	U	<	5,7	U	<	3.7	U	<	7.8	U	<	5.7	U	<	5.8	U	<	3.8	UJ		**260**		<	11	U
Monitoring Well	**EN-174**	EN04-23S	8	22-Sep-04	EN0423S092204	Summa Canister	1.6	11.8	6.6	1.68	Y	N	3.7E-03		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	3.0	UJ	<	6.5	U
Water Table Depth (ft)	*28*	EN04-23S	8	20-Oct-04	EN0423S102004	Summa Canister	1.3	12.1	5.7	8.4	N	N	1.8E-04		µg/m3	<	5.7	U		**5.1**		<	3.3	U	<	4.0	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Total VOCs	*20*	EN04-23S	8	17-Nov-04	EN0423S111704	Summa Canister	4.4	9.7	2.0	1.64	N	N	2.9E-05		µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethenes	*20*	EN04-23S	8	8-Dec-04	EN0423S120804	Summa Canister	1.3	11.3	2.3	1.68	N	N	1.7E-05		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Sum Ethanes	*<10*	EN04-23S	8	11-Jan-05	EN0423S011105	Summa Canister	20.3	0.0	0.1	1.55	N	N			µg/m3	<	5.2	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
Sum Ethanes	*<10*	EN04-23S Dup.	8	11-Jan-05	DU34088011105	Summa Canister	20.3	0.0	0.1	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Other		EN04-23S	8	24-Feb-05	EN0423S022405	Summa Canister	12.2	3.8	0.3	1.49	N	N			µg/m3	<	5.0	U	<	4.0	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.0	U	<	2.0	U	<	2.6	U	<	5.7	U
		EN04-23S	8	21-Mar-05	EN0423S032105	Summa Canister	8.2	5.9	0.3	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-23S	8	20-Apr-05	EN0423S042005	Summa Canister	10.1	6.4	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-23S	8	25-May-05	EN0423S052505	Summa Canister	10.6	8.0	0.0	1.58	N	N			µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-23S	8	23-Jun-05	EN0423S062305	Summa Canister	8.5	10.2	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-23S	8	8-Jul-05	EN0423S070805	Summa Canister	19.3	0.1	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-23S	8	25-Aug-05	EN0423S082505	Summa Canister	8.4	11.5	0.1	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-23S	8	21-Sep-05	EN0423S092105	Summa Canister	8.6	11.5	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-23S	8	12-Oct-05	EN0423S101205	Summa Canister	10.5	9.8	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-23S	8	14-Dec-05	EN0423S121405	Summa Canister	19.2	2.1	0.0	1.52	N	N			µg/m3	<	5.2	U	<	4.1	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.1	U	<	3.0	U	<	2.6	U	<	5.8	U
		EN04-23S	8	16-Feb-06	EN0423S021606	Summa Canister	20.0	0.0	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-23S	8	6-Apr-06	EN0423S040606	Summa Canister	19.3	1.3	0.0	1.44	N	N			µg/m3	<	4.9	U	<	3.9	U	<	2.8	U	<	2.8	U	<	1.8	U	<	3.9	U	<	2.8	U	<	2.9	U	<	1.9	U	<	2.5	U	<	5.5	U
		EN04-23S	8	21-Jun-06	EN0423S062106	Summa Canister	17.5	3.4	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-23S	8	16-Aug-06	EN0423S081606	Summa Canister	15.2	5.4	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-23I	15	25-Aug-04	EN0423I082504	Summa Canister	1.2	11.3	7.5	2.89	Y	N	3.4E-02		µg/m3	<	10	U	<	7.9	U	<	5.8	U	<	5.8	U	<	3.8	U	<	8.0	U	<	5.8	U	<	5.9	U	<	3.9	U		**6.0**		<	11	U
		EN04-23I	15	22-Sep-04	EN0423I092204	Summa Canister	0.7	12.2	8.3	9.55	N	N	1.2E-04		µg/m3	<	33	U	<	26	U	<	19	U	<	19	U	<	12	U	<	26	U	<	19	U	<	20	U	<	13	U	<	17	U	<	37	U
		EN04-23I	15	20-Oct-04	EN0423I102004	Summa Canister	0.7	12.6	8.2	7.9	N	N	2.4E-04		µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.8	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U		**3.2**		<	6.0	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-23 Continued	EN04-23I	15	17-Nov-04	EN0423I111704	Summa Canister	1.3	11.3	5.2	1.75	N	N	7.2E-05		µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-23I	15	8-Dec-04	EN0423I120804	Summa Canister	1.2	11.6	4.3	1.61	N	N	2.4E-05		µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-23I	15	11-Jan-05	EN0423I011105	Summa Canister	20.8	0.0	0.1	1.58	N	N			µg/m3	< 5.4 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.3 U	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
	EN04-23I	15	24-Feb-05	EN0423I022405	Summa Canister	20.1	0.0	0.0	1.46	N	N			µg/m3	< 5.0 U	< 3.9 U	< 2.9 U	< 2.9 U	< 1.9 U	< 4.0 U	< 2.9 U	< 3.0 U	< 1.9 U	< 2.5 U	< 5.6 U
	EN04-23I	15	21-Mar-05	EN0423I032105	Summa Canister	1.3	10.2	4.0	3.04	N	N			µg/m3	< 10 U	< 8.2 U	< 6.0 U	< 6.0 U	< 3.9 U	< 8.3 U	< 6.0 U	< 6.2 U	< 4 U	< 5.3 U	< 12.0 U
	EN04-23I	15	20-Apr-05	EN0423I042005	Summa Canister	3.3	10.0	0.0	2.26	N	N			µg/m3	< 7.7 U	< 6.1 U	< 4.5 U	< 4.5 U	< 2.9 U	< 6.2 U	< 4.5 U	< 4.6 U	< 3 U	< 3.9 U	< 8.7 U
	EN04-23I	15	25-May-05	EN0423I052505	Summa Canister	4.5	11.6	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-23I Dup.	15	25-May-05	DU34648052505	Summa Canister	4.5	11.6	0.0	8.4	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-23I	15	23-Jun-05	EN0423I062305	Summa Canister	3.3	13.6	0.0	1.58	N	N			µg/m3	< 5.4 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.3 U	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
	EN04-23I	15	8-Jul-05	EN0423I070805	Summa Canister	17.5	1.7	0.0	1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-23I	15	25-Aug-05	EN0423I082505	Summa Canister	15.3	4.7	0.1	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-23I	15	21-Sep-05	EN0423I092105	Summa Canister	6.0	14.5	0.0	1.75	N	N			µg/m3	< 5.9 U	**5.9**	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-23I	15	12-Oct-05	EN0423I101205	Summa Canister	7.2	13.6	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-23I	15	14-Dec-05	EN0423I121405	Summa Canister	17.8	3.8	0.0	1.46	N	N			µg/m3	< 5.0 U	**16**	< 2.9 U	< 2.9 U	< 1.9 U	< 4.0 U	< 2.9 U	< 3.0 U	< 1.9 U	< 2.5 U	< 5.6 U
	EN04-23I	15	16-Feb-06	EN0423I021606	Summa Canister	19.5	0.7	0.0	1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-23I	15	6-Apr-06	EN0423I040606	Summa Canister	18.7	2.5	0.0	1.52	N	N			µg/m3	< 5.2 U	< 4.1 U	< 3.0 U	< 3.0 U	< 1.9 U	< 4.1 U	< 3.0 U	< 3.1 U	< 2.0 U	< 2.6 U	< 5.8 U
	EN04-23I	15	21-Jun-06	EN0423I062106	Summa Canister	17.6	3.4	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN04-23I	15	16-Aug-06	EN0423I081606	Summa Canister	19	2.8	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	**61**	< 6.8 U
	EN04-23D	23	25-Aug-04	EN0423D082504	Summa Canister	17.1	2.1	0.0	2.82	Y	N	9.1E-04		µg/m3	< 9.7 U	< 7.7 U	< 5.7 U	< 5.7 U	< 3.7 U	< 7.8 U	< 5.7 U	< 5.8 U	< 3.8 U	**260**	< 11 U
	EN04-23D	23	22-Sep-04	EN0423D092204	Summa Canister	16.3	2.1	0.0	1.91	Y	N	3.2E-04		µg/m3	**22**	**460**	**420**	< 3.8 U	< 2.5 U	< 5.3 U	< 3.8 U	**41**	< 2.6 U	< 3.4 U	< 7.4 U
	EN04-23D Dup.	23	22-Sep-04	DU34619092204	Summa Canister	16.3	2.1	0.0	1.91	N	N	2.4E-04		µg/m3	**21**	**460**	**420**	< 3.8 U	< 2.5 U	< 5.3 U	< 3.8 U	**40**	< 2.6 U	< 3.4 U	< 7.4 U
	EN04-23D	23	20-Oct-04	EN0423D102004	Summa Canister	16.0	2.9	0.1	8.05	N	N	1.6E-06		µg/m3	**44**	**770**	**630**	**21**	< 2.0 U	**6.6**	**3.6**	**61**	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-23D	23	17-Nov-04	EN0423D111704	Summa Canister	16.9	2.6	0.0	1.61	N	N	2.8E-06		µg/m3	**30**	**630**	**430**	**13**	< 2.0 U	**5.8**	< 3.2 U	**43**	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-23D	23	8-Dec-04	EN0423D120804	Summa Canister	17.0	2.0	0.0	1.71	N	N	3.2E-06		µg/m3	**35**	**690**	**580**	**17**	< 2.2 U	**6.7**	< 3.4 U	**52**	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-23D Dup.	23	8-Dec-04	DU34624120804	Summa Canister	17.0	2.0	0.0	1.71	N	N	3.5E-06		µg/m3	**37**	**750**	**620**	**19**	< 2.2 U	**7.2**	< 3.4 U	**56**	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-23D	23	11-Jan-05	EN0423D011105	Summa Canister	20.7	0.0	0.1	1.61	N	N			µg/m3	**43**	**880**	**560**	**18**	< 2.0 U	**5.9**	< 3.2 U	**60**	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-23D	23	24-Feb-05	EN0423D022405	Summa Canister	20.2	0.0	0.0	1.58	N	N			µg/m3	**40**	**750**	**420**	**16**	< 2.0 U	**6.7**	< 3.1 U	**48**	< 2.1 U	< 2.7 U	< 6 U
	EN04-23D	23	21-Mar-05	EN0423D032105	Summa Canister	17.2	2.4	0.0	1.55	N	N			µg/m3	< 5.2 U	< 4.2 U	**15**	< 3.1 U	< 2.0 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2 U	< 2.7 U	< 5.9 U
	EN04-23D	23	20-Apr-05	EN0423D042005	Summa Canister	17.1	2.4	0.0	1.75	N	N			µg/m3	**16**	**370**	**220**	**9.1**	< 2.2 U	< 4.8 U	< 3.5 U	**25**	< 2.3 U	< 3 U	< 6.7 U
	EN04-23D Dup.	23	20-Apr-05	DU92905042005	Summa Canister	17.1	2.4	0.0	2.12	N	N			µg/m3	**22**	**500**	**290**	**12**	< 2.7 U	< 5.8 U	< 4.2 U	**34**	< 2.8 U	< 3.7 U	< 8.1 U
	EN04-23D	23	25-May-05	EN0423D052505	Summa Canister	17.9	2.1	0.0	8.05	N	N			µg/m3	**39**	**330**	**410**	**16**	< 2.0 U	**4.5**	< 3.2 U	**41**	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-23D	23	23-Jun-05	EN0423D062305	Summa Canister	17.6	2.3	0.0	1.71	N	N			µg/m3	**28**	**580**	**360**	**13**	< 2.2 U	< 4.7 U	< 3.4 U	**35**	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-23D	23	8-Jul-05	EN0423D070805	Summa Canister	18.8	0.3	0.0	1.71	N	N			µg/m3	**28**	**580**	**390**	**15**	< 2.2 U	< 4.7 U	< 3.4 U	**38**	< 2.2 U	< 3.0 U	< 6.6 U
	EN04-23D	23	25-Aug-05	EN0423D082505	Summa Canister	17.3	2.4	0.0	1.68	N	N			µg/m3	**25**	**540**	**380**	**14**	**3.9**	**5.4**	< 3.3 U	**38**	< 2.2 U	< 2.9 U	< 6.4 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-23 Continued		EN04-23D	23	21-Sep-05	EN0423D092105	Summa Canister	17.6	2.3	0.0	1.83	N	N			µg/m3		**18**			**410**			**260**			**13**			**3.5**		<	5.0	U	<	3.6	U		**27**		<	2.4	U	<	3.2	U	<	7.0	U
		EN04-23D	23	12-Oct-05	EN0423D101205	Summa Canister	17.7	2.3	0.0	1.68	N	N			µg/m3		**26**			**590**			**330**			**17**		<	2.1	U	<	4.6	U	<	3.3	U		**34**		<	2.2	U	<	2.9	U	<	6.4	U
		EN04-23D	23	14-Dec-05	EN0423D121405	Summa Canister	19.4	1.6	0.1	1.55	N	N			µg/m3		**19**			**420**			**240**			**9.6**		<	2.0	U	<	4.2	U	<	3.1	U		**26**		<	2.0	U	<	2.7	U	<	5.9	U
		EN04-23D	23	16-Feb-06	EN0423D021606	Summa Canister	19.8	0.2	0.0	1.68	N	N			µg/m3		**24**			**480**			**290**			**12**		<	2.1	U	<	4.6	U	<	3.3	U		**33**		<	2.2	U	<	2.9	U	<	6.4	U
		EN04-23D	23	6-Apr-06	EN0423D040606	Summa Canister	19.1	1.7	0.0	1.61	N	N			µg/m3		**26**			**550**			**310**			**16**		<	2.0	U	<	4.4	U	<	3.2	U		**37**		<	2.1	U	<	2.8	U	<	6.2	U
		EN04-23D	23	21-Jun-06	EN0423D062106	Summa Canister	20.2	1.8	0.0	1.75	N	N			µg/m3		**21**			**470**			**240**			**11**		<	2.2	U	<	4.8	U	<	3.5	U		**29**		<	2.3	U	<	3.0	U	<	6.7	U
		EN04-23D	23	16-Aug-06	EN0423D081606	Summa Canister	19.3	1.8	0.0	1.61	N	N			µg/m3		**24**			**540**			**270**			**16**		<	2.0	U	<	4.4	U	<	3.2	U		**34**		<	2.1	U	<	2.8	U	<	6.2	U
Implant Location	**EN04-24**	EN04-24S	8	25-Aug-04	EN0424S082504	Summa Canister	17.1	2.0	0.1	3.03	Y	N	5.4E-07		µg/m3	<	10	U	<	8.3	U	<	6.1	U	<	6.1	U	<	3.9	U	<	8.4	U	<	6.1	U	<	6.2	U	<	4.1	UJ	<	5.3	U	<	12	U
Monitoring Well	**EN-065**	EN04-24S	8	22-Sep-04	EN0424S092204	Summa Canister	16.7	2.3	0.0	1.96	N	N	1.1E-05		µg/m3	<	6.8	U	<	5.4	U	<	3.9	U	<	3.9	U	<	2.5	U	<	5.4	U	<	3.9	U	<	4.0	U	<	2.6	U		**4.8**		<	7.6	U
Water Table Depth (ft)	*24*	EN04-24S	8	20-Oct-04	EN0424S102004	Summa Canister	18.2	1.9	0.0	8.55	N	N	2.2E-06		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	4.1	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Total VOCs	*11*	EN04-24S	8	17-Nov-04	EN0424S111704	Summa Canister	19.2	1.6	0	1.71	N	N	2.1E-07		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Sum Ethenes	*10*	EN04-24S	8	7-Dec-04	EN0424S120704	Summa Canister	19.7	0.8	0.1	1.64	N	N	1.1E-07		µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
Sum Ethanes	*1*	EN04-24S	8	12-Jan-05	EN0424S011205	Summa Canister	19.9	0.8	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Other		EN04-24S	8	24-Feb-05	EN0424S022405	Summa Canister	20.3	0.0	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-24S	8	23-Mar-05	EN0424S0232305	Summa Canister	20.0	0.3	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-24S	8	20-Apr-05	EN0424S042005	Summa Canister	21.0	0.0	0.0	2.06	N	N			µg/m3	<	7.0	U	<	5.5	U	<	4.1	U	<	4.1	U	<	2.6	U	<	5.6	U	<	4.1	U	<	4.2	U	<	2.7	U	<	3.6	U	<	7.9	U
		EN04-24S	8	24-May-05	EN0424S052405	Summa Canister	17.7	1.1	0.0	1.41	N	N			µg/m3	<	4.8	U	<	3.8	U	<	2.8	U	<	2.8	U	<	1.8	U	<	3.8	U	<	2.8	U	<	2.8	U	<	1.9	U		**2.8**		<	5.4	U
		EN04-24S	8	22-Jun-05	EN0424S062205	Summa Canister	18.7	1.1	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U		**6.1**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-24S	8	7-Jul-05	EN0424S070705	Summa Canister	17.6	1.8	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
		EN04-24S	8	25-Aug-05	EN0424S082505	Summa Canister	18.9	1.5	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-24S	8	21-Sep-05	EN0424S092105	Summa Canister	18.1	1.7	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-24S	8	13-Oct-05	EN0424S101305	Summa Canister	18.6	1.3	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-24S	8	15-Dec-05	EN0424S121505	Summa Canister	20.9	0.7	0.0	1.55	N	N			µg/m3	<	5.2	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
		EN04-24S	8	16-Feb-06	EN0424S021606	Summa Canister	20.4	0.6	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-24S	8	5-Apr-06	EN0424S040506	Summa Canister	19.1	0.4	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-24S	8	21-Jun-06	EN0424S062106	Summa Canister	20	1.1	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-24S	8	16-Aug-06	EN0424S081606	Summa Canister	18.6	1.8	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-24D	19	25-Aug-04	EN0424D082504	Summa Canister	17.3	1.3	0.0	2.69	Y	N	1.4E-04		µg/m3	<	9.3	U	<	7.3	U	<	5.4	U	<	5.4	U	<	3.5	U	<	7.4	U	<	5.4	U	<	5.5	U	<	3.6	UJ	<	4.7	U	<	10	U
		EN04-24D Dup.	19	25-Aug-04	DU9504082504	Summa Canister	17.3	1.3	0.0	2.69	Y	N	1.4E-04		µg/m3	<	9.3	U	<	7.3	U	<	5.4	U	<	5.4	U	<	3.5	U	<	7.4	U	<	5.4	U	<	5.5	U	<	3.6	U		**5.0**		<	10	U
		EN04-24D	19	22-Sep-04	EN0424D092204	Summa Canister	17.3	1.3	0.1	1.96	N	N	1.0E-06		µg/m3	<	6.8	U	<	5.4	U	<	3.9	U	<	3.9	U	<	2.5	U		**7.8**		<	3.9	U	<	4.0	U	<	2.6	U		**4.2**		<	7.6	U
		EN04-24D	19	20-Oct-04	EN0424D102004	Summa Canister	17.3	1.8	0.0	8.55	N	N	1.7E-06		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	4.1	U	<	2.2	U		**8.2**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-24D Dup.	19	20-Oct-04	DU31762102004	Summa Canister	17.3	1.8	0.0	8.75	N	N	1.7E-06		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	4.2	U	<	2.2	U		**8.5**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-24D	19	17-Nov-04	EN0424D111704	Summa Canister	17.8	2.1	0.0	1.61	N	N	8.2E-07		µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U		**6.8**		<	3.2	U	<	3.2	U	<	2.1	U		**4.3**		<	6.2	U
		EN04-24D	19	7-Dec-04	EN0424D120704	Summa Canister	18.5	1.6	0.1	1.71	N	N	7.2E-07		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U		**11**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-24 Continued	EN04-24D	19	12-Jan-05	EN0424D011205	Summa Canister	18.8	1.8	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U		**11**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-24D	19	24-Feb-05	EN0424D022405	Summa Canister	20.1	0.0	0.0	2.01	N	N			µg/m3	<	6.8	U	<	5.4	U	<	4.0	U	<	4	U	<	2.6	U		**9.4**		<	4.0	U	<	4.1	U	<	2.6	U	<	3.5	U	<	7.7	U
	EN04-24D	19	23-Mar-04	EN0424D032305	Summa Canister	19.9	1.1	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U		**9.5**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-24D Dup.	19	23-Mar-04	DU21020032305	Summa Canister	19.9	1.1	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U		**10**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-24D	19	20-Apr-05	EN0424D042005	Summa Canister	21.1	0.0	0.0	1.96	N	N			µg/m3	<	6.6	U	<	5.3	U	<	3.9	U	<	3.9	U	<	2.5	U		**6.8**		<	3.9	U	<	4.0	U	<	2.6	U	<	3.4	U	<	7.5	U
	EN04-24D	19	24-May-05	EN0424D052405	Summa Canister	17.6	1.2	0.0	1.75	N	N			µg/m3	<	5.9	U		**7.0**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-24D	19	22-Jun-05	EN0424D062205	Summa Canister	18.3	1.5	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-24D	19	7-Jul-05	EN0424D070705	Summa Canister	17.9	1.1	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U		**6.8**		<	3.6	U	<	3.7	U	<	2.4	U		**10**		<	7.0	U
	EN04-24D	19	25-Aug-05	EN0424D082505	Summa Canister	18.9	1.0	0.1	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U		**6.4**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.0	U	<	6.8	U
	EN04-24D	19	21-Sep-05	EN0424D092105	Summa Canister	18.3	1.1	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U		**5.5**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.1	U	<	6.6	U
	EN04-24D	19	13-Oct-05	EN0424D101305	Summa Canister	18.6	1.5	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U		**7.6**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-24D	19	15-Dec-05	EN0424D121505	Summa Canister	18.9	1.6	0.0	1.52	N	N			µg/m3	<	5.2	U	<	4.1	U	<	3.0	U	<	3.0	U	<	1.9	U		**6.2**		<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
	EN04-24D	19	16-Feb-06	*COULD NOT SAMPLE DUE TO WATER IN PROBE						N	N																																			
	EN04-24D	19	5-Apr-06	EN0424D040506	Summa Canister	18.3	1.0	0.0	1,58	N	N			µg/m3		**6.5**		<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-24D	19	21-Jun-06	EN0424D062106	Summa Canister	20	1.1	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U		**6.0**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-24D	19	16-Aug-06	EN0424D081606	Summa Canister	19.3	0.9	0.0	2.34	N	N			µg/m3	<	7.9	U	<	6.3	U	<	4.6	U	<	4.6	U	<	3.0	U		**6.8**		<	4.6	U	<	4.7	U	<	3.1	U	<	4.1	U	<	9.0	U
	EN04-24D Dup	19	16-Aug-06	DU34605081606	Summa Canister	19.3	0.9	0.0	1.94	N	N			µg/m3	<	6.6	U	<	5.2	U	<	3.8	U	<	3.8	U	<	2.5	U	<	5.3	U	<	3.8	U	<	3.9	U	<	2.6	U	<	3.4	U	<	7.4	U
Implant Location **EN04-25**	EN04-25S	8	25-Aug-04	EN0425S082504	Summa Canister	13.8	4.4	0.0	3.03	Y	N	3.4E-02		µg/m3	<	10	U	<	8.3	U	<	6.1	U	<	6.1	U	<	3.9	U	<	8.4	U	<	6.1	U	<	6.2	U	<	4.1	UJ		**140**		<	12	U
Monitoring Well **EN-395**	EN04-25S	8	22-Sep-04	EN0425S092204	Summa Canister	13.8	4.3	0.1	2.17	N	N	1.6E-05		µg/m3		**8.8**		<	5.9	U	<	4.4	U	<	4.4	U	<	2.8	U	<	6.0	U	<	4.4	U	<	4.5	U	<	2.9	U		**6.2**		<	8.4	U
Water Table Depth (ft) *24*	EN04-25S	8	20-Oct-04	EN0425S102004	Summa Canister	17.4	3.0	0.0	4.94	N	N	8.3E-07		µg/m3		**9.7**			**4.1**		<	2.0	U	<	2.4	U	<	1.3	U		**2.7**		<	2.0	U	<	2.0	U	<	1.3	U	<	1.7	U	<	3.8	U
Total VOCs *<10*	EN04-25S	8	17-Nov-04	EN0425S111704	Summa Canister	18.5	1.9	0.0	1.71	N	N	6.6E-08		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Sum Ethenes *<10*	EN04-25S	8	7-Dec-04	EN0425S120704	Summa Canister	18.6	1.2	0.1	1.71	N	N	ND		µg/m3	<	5.8	U		**7.3**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Sum Ethanes *<10*	EN04-25S	8	13-Jan-05	EN0425S011305	Summa Canister	20.5	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Other	EN04-25S	8	24-Feb-05	EN0425S022405	Summa Canister	20.1	0.0	0.0	1.58	N	N			µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-25S	8	23-Mar-05	EN0425S032305	Summa Canister	19.4	0.7	0.0	1.69	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.5	U
	EN04-25S	8	21-Apr-05	EN0425S042105	Summa Canister	17.6	1.4	0.1	1.52	N	N			µg/m3	<	5.2	U	<	4.1	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
	EN04-25S	8	24-May-05	EN0425S052405	Summa Canister	16.8	2.0	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U		**6.1**		<	6.2	U
	EN04-25S	8	22-Jun-05	EN0425S062205	Summa Canister	16.9	2.5	0.1	1.71	N	N			µg/m3		**7.3**		<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-25S	8	7-Jul-05	EN0425S070705	Summa Canister	14.8	3.3	0.0	1.83	N	N			µg/m3		**11**		<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7	U
	EN04-25S	8	25-Aug-05	EN0425S082505	Summa Canister	15.1	3.8	0.0	1.71	N	N			µg/m3		**12**			**7.0**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-25S	8	21-Sep-05	EN0425S092105	Summa Canister	14.3	3.9	0.0	1.83	N	N			µg/m3		**9.4**		<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-25S	8	13-Oct-05	EN0425S101305	Summa Canister	15.2	3.5	0.0	1.79	N	N			µg/m3		**8.6**		<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-25S	8	15-Dec-05	EN0425S121505	Summa Canister	18.5	1.6	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-25S	8	16-Feb-06	EN0425S021606	Summa Canister	19.2	1.3	0.0	1.58	N	N			µg/m3		**8.5**		<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U

Table B.1
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-25 Continued	EN04-25S	8	5-Apr-06	EN0425S040506	Summa Canister	17.5	1.2	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-25S	8	21-Jun-06	EN0425S062106	Summa Canister	15.2	3.6	0.0	1.83	N	N			µg/m3		**13**		<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-25S	8	16-Aug-06	EN0425S081606	Summa Canister	16.2	4.5	0.0	1.87	N	N			µg/m3		**11**		<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-25S Dup	8	16-Aug-06	DU11443081606	Summa Canister	16.2	4.5	0.0	1.87	N	N			µg/m3		**12**		<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U		**6.6**		<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-25D	17.5	25-Aug-04	EN0425D082504	Summa Canister	8.0	9.9	0.0	3.03	Y	N	2.4E-04		µg/m3	<	10	U	<	8.3	U	<	6.1	U	<	6.1	U	<	3.9	U	<	8.4	U	<	6.1	U	<	6.2	U	<	4.1	UJ		**95**		<	12	U
	EN04-25D	17.5	22-Sep-04	EN0425D092204	Summa Canister	9.8	8.8	0.1	1.87	N	N	1.7E-05		µg/m3	<	6.4	U		**5.4**		<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.8	U	<	2.5	U		**3.3**		<	7.3	U
	EN04-25D	17.5	20-Oct-04	EN0425D102004	Summa Canister	10.6	8.1	0.0	5.16	N	N	3.7E-06		µg/m3		**6.5**			**8.9**		<	2.0	U	<	2.4	U	<	1.3	U		**3.8**		<	2.0	U	<	2.1	U	<	1.4	U	<	1.8	U	<	4.0	U
	EN04-25D	17.5	17-Nov-04	EN0425D111704	Summa Canister	20.7	0.1	0.0	1.68	N	N	6.6E-07		µg/m3		**7.8**			**5.2**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-25D	17.5	7-Dec-04	EN0425D120704	Summa Canister	9.1	9.1	0.0	1.79	N	N	2.7E-07		µg/m3	<	6.1	U		**6.8**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-25D Dup.	17.5	7-Dec-04	DU34106120704	Summa Canister	9.1	9.1	0.0	1.75	N	N	2.3E-07		µg/m3	<	5.9	U		**6.9**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-25D	17.5	13-Jan-05	EN0425D011305	Summa Canister	20.5	0.0	0.0	1.68	N	N			µg/m3	<	5.7	U		**8.0**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-25D	17.5	24-Feb-05	ENO4S5D022405	Summa Canister	20.3	0.0	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-25D	17.5	23-Mar-05	EN0425D032305	Summa Canister	14.7	5.3	0.0	1.71	N	Y	ND		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-25D	17.5	21-Apr-05	EN0425S042105	Summa Canister	17.9	1.0	0.0	1.75	N	Y	ND		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-25D Dup.	17.5	21-Apr-05	DU1742042105	Summa Canister	17.9	1.0	0.0	1.68	N	Y	ND		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN04-25D	17.5	24-May-05	EN0425D052405	Summa Canister	13.1	5.3	0.0	2.01	N	N			µg/m3	<	6.8	U	<	5.4	U	<	4.0	U	<	4.0	U	<	2.6	U	<	5.5	U	<	4.0	U	<	4.1	U	<	2.6	U	<	3.5	U	<	7.7	U
	EN04-25D Dup.	17.5	24-May-05	DU2063052405	Summa Canister	13.1	5.3	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-25D	17.5	22-Jun-05	EN0425D062205	Summa Canister	9.9	7.6	0.0	1.87	N	N			µg/m3	<	6.3	U	<	5.0	U	<	3.7	U	<	3.7	U	<	2.4	U	<	5.1	U	<	3.7	U	<	3.8	U	<	2.5	U	<	3.2	U	<	7.2	U
	EN04-25D Dup.	17.5	22-Jun-05	DU9350062205	Summa Canister	9.9	7.6	0.0	1.34	N	N			µg/m3	<	4.5	U		**3.6**		<	2.6	U	<	2.6	U	<	1.7	U	<	3.6	U	<	2.6	U	<	2.7	U	<	1.8	U	<	2.3	U	<	5.1	U
	EN04-25D	17.5	7-Jul-05	EN0425D070705	Summa Canister	7.2	9.2	0.0	1.71	N	N			µg/m3	<	5.8	U		**7.3**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-25D	17.5	25-Aug-05	EN0425D082505	Summa Canister	8.6	8.9	0.1	1.75	N	N			µg/m3		**6.1**			**4.9**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-25D	17.5	21-Sep-05	EN0425D092105	Summa Canister	8.1	9.3	0.0	2.06	N	N			µg/m3	<	7.0	U	<	5.5	U	<	4.1	U	<	4.1	U	<	2.6	U	<	5.6	U	<	4.1	U	<	4.2	U	<	2.7	U	<	3.6	U	<	7.9	U
	EN04-25D	17.5	13-Oct-05	EN0425D101305	Summa Canister	13.4	5.1	0.0	1.75	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-25D	17.5	15-Dec-05	EN0425D121505	Summa Canister	17.4	2.7	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2.0	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN04-25D	17.5	16-Feb-06	EN0425D021606	Summa Canister	18.0	2.3	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U		**16**		<	6.8	U
	EN04-25D	17.5	5-Apr-06	EN0425D040506	Summa Canister	16.8	1.8	0.0	1.64	N	N			µg/m3	<	5.6	U		**18**			**3.8**		<	3.2	U	<	2.1	U		**5.5**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-25D Dup.	17.5	5-Apr-06	DU94903040506	Summa Canister	16.8	1.8	0.0	1.64	N	N			µg/m3	<	5.6	U		**16**			**3.4**		<	3.2	U	<	2.1	U		**6.2**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN04-25D	17.5	21-Jun-06	EN0425D062106	Summa Canister	14.5	4.2	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN04-25D	17.5	16-Aug-06	EN0425D081606	Summa Canister	16.2	4.3	0.0	1.79	N	N			µg/m3		**8.6**		<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U		**5.0**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U

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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
Implant Location	**EN04-26**	EN04-26S	8	25-Aug-04	EN0426S082504	Summa Canister	17.5	2.1	0.1	2.69	Y	N	1.6E-05		µg/m3		**22**			**2,600**		<	5.4	U	<	5.4	U	<	3.5	U		**200**			**6.4**		<	5.5	U	<	3.6	U	<	4.7	U	<	10	U
Monitoring Well	**EN-304**	EN04-26S	8	19-Oct-04	EN0426S092204	Summa Canister	17.8	1.9	0.1	4.68	N	N	4.0E-04		µg/m3		**24**			**2,600**		<	9.4	U	<	9.4	U	<	6.1	U		**200**		<	9.4	U	<	9.6	U	<	6.3	U	<	8.3	U	<	18	U
Water Table Depth (ft)	*16*	EN04-26S	8	20-Oct-04	EN0426S102004	Summa Canister	20.0	1.5	0.0	22.4	N	N	6.8E-05		µg/m3		**22**			**1,900**		<	8.9	U	<	11	U	<	5.7	U		**140**		<	8.9	U	<	9.1	U	<	5.9	U	<	7.8	U	<	17	U
Total VOCs	*20*	EN04-26S	8	16-Nov-04	EN0426S111604	Summa Canister	19.8	1.3	0.0	1.68	N	N	3.6E-05		µg/m3		**14**			**1,400**		<	3.3	U	<	3.3	U	<	2.1	U		**140**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U		**8.5**	
Sum Ethenes	*20*	EN04-26S	8	9-Dec-04	EN0426S120904	Summa Canister	21.0	0.1	0.0	1.49	N	N	1.7E-05		µg/m3		**9.6**			**1,200**		<	3.0	U	<	3.0	U	<	1.9	U		**110**		<	3.0	U	<	3.0	U	<	2.0	U	<	2.6	U		**7.6**	
Sum Ethanes	*<1*	EN04-26S	8	13-Jan-05	EN0426S011305	Summa Canister	19.7	0.7	0.0	1.71	N	N			µg/m3	<	5.8	U		**920**		<	3.4	U	<	3.4	U	<	2.2	U		**93**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U		**7.7**	
Other		EN04-26S	8	24-Feb-05	EN0426S022405	Summa Canister	20.1	0.1	0.0	1.34	N	N			µg/m3	<	4.5	U		**500**	J	<	2.6	UJ	<	2.6	UJ	<	1.7	UJ		**55**	J	<	2.6	UJ	<	2.7	UJ	<	1.8	UJ	<	2.3	UJ	<	5.1	UJ
		EN04-26S Dup.	8	24-Feb-05	DU34147022405	Summa Canister	20.1	0.1	0.0	1.49	N	N			µg/m3		**5.1**			**590**		<	3.0	U	<	3.0	U	<	1.9	U		**64**		<	3.0	U	<	3.0	U	<	2	U	<	2.6	U	<	5.7	U
		EN04-26S	8	24-Mar-05	EN0426S032405	Summa Canister	19.4	0.7	0.0	1.61	N	Y	ND		µg/m3	<	5.5	U		**620**		<	3.2	U	<	3.2	U	<	2	U		**53**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-26S	8	19-Apr-05	EN0426S041905	Summa Canister	20.7	0.4	0.0	1.79	N	Y	ND		µg/m3	<	6.1	U		**760**		<	3.5	U	<	3.5	U	<	2.3	U		**58**			3.8		<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-26S	8	26-May-05	EN0426S052605	Summa Canister	20.5	0.6	0.0	9.15	N	N			µg/m3		**11**			**770**		<	3.6	U	<	3.6	U	<	2.3	U		**83**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-26S	8	23-Jun-05	EN0426S062305	Summa Canister	20.0	0.9	0.0	2.8	N	N			µg/m3		**19**			**2,000**		<	5.6	U	<	5.6	U	<	3.6	U		**120**		<	5.6	U	<	5.7	U	<	3.7	U	<	4.9	U	<	11	U
		EN04-26S Dup.	8	23-Jun-05	DU34174062305	Summa Canister	20.0	0.9	0.0	2.8	N	N			µg/m3		**20**			**2,000**		<	5.6	U	<	5.6	U	<	3.6	U		**110**		<	5.6	U	<	5.7	U	<	3.7	U	<	4.9	U	<	11	U
		EN04-26S	8	8-Jul-05	EN0426S070805	Summa Canister	19.1	0.3	0.0	4.48	N	N			µg/m3		**39**			**2,500**		<	8.9	U	<	8.9	U	<	5.7	U		**140**		<	8.9	U	<	9.1	U	<	5.9	U	<	7.8	U	<	17	U
		EN04-26S	8	25-Aug-05	EN0426S082505	Summa Canister	19.4	1.0	0.0	3.82	N	N			µg/m3		**23**			**4,100**		<	7.6	U	<	7.6	U	<	4.9	U		**230**		<	7.6	U	<	7.7	U	<	5.0	U	<	6.6	U	<	15	U
		EN04-26S	8	25-Aug-05	DU33401082505	Summa Canister	19.4	1.0	0.0	7.48	N	N			µg/m3		**30**			**3,900**		<	15	U	<	15	U	<	9.6	U		**200**		<	15	U	<	15	U	<	9.9	U	<	13	U	<	29	U
		EN04-26S	8	21-Sep-05	EN0426S092105	Summa Canister	19.9	1.1	0.0	4.23	N	N			µg/m3		**150**	J		**2,200**	J	<	8.4	U	<	8.4	U	<	5.4	U		**150**	J	<	8.4	U	<	8.6	U	<	5.6	U	<	7.3	U	<	16	U
		EN04-26S	8	21-Sep-05	DU9495092105	Summa Canister	19.9	1.1	0.0	2.5	N	N			µg/m3		**18**	J		**1,600**	J	<	5.0	U	<	5.0	U	<	3.2	U		**110**	J	<	5.0	U	<	5.0	U	<	3.3	U	<	4.3	U	<	9.6	U
		EN04-26S	8	13-Oct-05	EN0426S101305	Summa Canister	18.9	1.1	0.0	4.29	N	N			µg/m3		**26**			**2,500**		<	8.5	U	<	8.5	U	<	5.5	U		**170**		<	8.5	U	<	8.7	U	<	5.7	U	<	7.4	U	<	16	U
		EN04-26S	8	13-Oct-05	DU9331101305	Summa Canister	18.9	1.1	0.0	3.66	N	N			µg/m3		**19**			**2,400**		<	7.2	U	<	7.2	U	<	4.7	U		**160**		<	7.2	U	<	7.4	U	<	4.8	U	<	6.4	U	<	14	U
		EN04-26S	8	13-Dec-05	EN0426S121305	Summa Canister	19.9	0.6	0.0	1.49	N	N			µg/m3	<	5.0	U		**410**		<	3.0	U	<	3.0	U	<	1.9	U		**41**		<	3.0	U	<	3.0	U	<	2.0	U	<	2.6	U	<	5.7	U
		EN04-26S	8	13-Dec-05	DUSC87121305	Summa Canister	19.9	0.6	0.0	1.83	N	N			µg/m3	<	6.2	U		**610**		<	3.6	U	<	3.6	U	<	2.3	U		**61**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-26S	8	16-Feb-06	EN0426S021606	Summa Canister	20.0	0.0	0.0	1.79	N	N			µg/m3	<	6.1	U		**580**		<	3.5	U	<	3.5	U	<	2.3	U		**52**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-26S	8	6-Apr-06	EN0426S040606	Summa Canister	20.3	0.6	0.0	1.71	N	N			µg/m3	<	5.8	U		**440**		<	3.4	U	<	3.4	U	<	2.2	U		**38**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-26S	8	22-Jun-06	EN0426S062206	Summa Canister	20.1	1.4	0.0	1.83	N	N			µg/m3		**12**			**1,400**		<	3.6	U	<	3.6	U	<	2.3	U		**83**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-26S	8	17-Aug-06	EN0426S081706	Summa Canister	18.4	2.1	0.0	4.48	N	N			µg/m3		**29**			**2,800**		<	8.9	U	<	8.9	U	<	5.7	U		**190**		<	8.9	U	<	9.1	U	<	5.9	U	<	7.8	U	<	17	U
		EN04-26D	14	25-Aug-04	EN0426D082504	Summa Canister	17.7	1.8	0.0	5.52	Y	N	1.2E-02		µg/m3		**21**			**4,000**		<	11	U	<	11	U	<	7.2	U		**280**			**14**		<	11	U	<	7.4	UJ	<	9.7	U	<	22	U
		EN04-26D	14	22-Sep-04	EN0426D092204	Summa Canister	17.6	2.0	0.0	7.32	N	N	4.2E-04		µg/m3	<	25	U		**4,200**		<	15	U	<	15	U	<	9.5	U		**270**		<	15	U	<	15	U	<	9.8	U	<	13	U	<	28	U
		EN04-26D	14	20-Oct-04	EN0426D102004	Summa Canister	19.7	1.6	0.0	57	N	N	1.6E-04		µg/m3	<	39	U		**4,600**		<	22	U	<	27	U	<	14	U		**240**		<	23	U	<	23	U	<	15	U	<	20	U	<	44	U
		EN04-26D	14	16-Nov-04	EN0426D111604	Summa Canister	19.4	1.6	0.0	5.6	N	N	5.0E-05		µg/m3		**22**			**3,800**		<	11	U	<	11	U	<	7.2	U		**270**		<	11	U	<	11	U	<	7.4	U	<	9.7	U	<	21	U
		EN04-26D	14	9-Dec-04	EN0426D120904	Summa Canister	20.1	0.0	0.0	4.29	N	N	2.7E-05		µg/m3		**18**			**3,400**		<	8.5	U	<	8.5	U	<	5.5	U		**200**		<	8.5	U	<	8.7	U	<	5.7	U	<	7.4	U	<	16	U
		EN04-26D Dup.	14	9-Dec-04	DU30828120904	Summa Canister	20.1	0.0	0.0	4.29	N	N	2.6E-05		µg/m3		**17**			**3,400**		<	8.5	U	<	8.5	U	<	5.5	U		**200**		<	8.5	U	<	8.7	U	<	5.7	U	<	7.4	U	<	16	U
		EN04-26D	14	13-Jan-05	EN0426D011305	Summa Canister	19.5	1.0	0.0	3.22	N	N			µg/m3		**13**			**2,600**		<	6.4	U	<	6.4	U	<	4.1	U		**160**		<	6.4	U	<	6.5	U	<	4.2	U	<	5.6	U	<	12	U
		EN04-26D	14	24-Feb-05	EN0426D022405	Summa Canister	20.3	0.0	0.0	1.32	N	N			µg/m3		**7.2**	J		**1,100**	J	<	2.6	UJ	<	2.6	UJ	<	1.7	UJ		**72**	J	<	2.6	UJ	<	2.7	UJ	<	1.7	UJ		4.2	J	<	5.0	UJ

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethene		1,1-Dichloroethane		Chloroethane		Methylene Chloride		Freon 113	
EN04-26 Continued	EN04-26D Dup.	14	24-Feb-05	DU34139022405	Summa Canister	20.3	0.0	0.0	1.32	N	N			µg/m3		**8.7**	J		**1,300**	J	<	2.6	UJ	<	2.6	UJ	<	1.7	UJ	**90**	J	<	2.6	UJ	<	2.7	UJ	<	1.7	UJ	<	2.3	UJ		**5.4**	J
	EN04-26D	14	24-Mar-05	EN0426D032405	Summa Canister	19.4	0.7	0.0	2.53	N	Y	ND		µg/m3		**8.9**			**1,700**		<	5.0	U	<	5.0	U	<	3.2	U	**96**		<	5.0	U	<	5.1	U	<	3.3	U	<	4.4	U	<	9.7	U
	EN04-26D	14	21-Apr-05	EN0426D041905	Summa Canister	20.7	0.3	0.0	1.91	N	Y	ND		µg/m3	<	6.5	U		**950**		<	3.8	U	<	3.8	U	<	2.4	U	**54**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
	EN04-26D	14	26-May-05	EN0426D052605	Summa Canister	20.4	0.6	0.0	8.55	N	N			µg/m3		**9.6**			**1,000**		<	3.4	U	<	3.4	U	<	2.2	U	**94**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U		**7.4**	
	EN04-26D	14	23-Jun-05	EN0426D062305	Summa Canister	20.0	0.7	0.0	3.06	N	N			µg/m3		**14**			**2,300**		<	6.1	U	<	6.1	U	<	3.9	U	**120**		<	6.1	U	<	6.2	U	<	4.0	U	<	5.3	U	<	12	U
	EN04-26D	14	8-Jul-05	EN0426D070805	Summa Canister	19.2	0.2	0.0	4.37	N	N			µg/m3		**17**			**2,900**		<	8.7	U	<	8.7	U	<	5.6	U	**160**		<	8.7	U	<	8.8	U	<	5.8	U	<	7.6	U	<	17	U
	EN04-26D Dup.	14	8-Jul-05	DU93109070805	Summa Canister	19.2	0.2	0.0	4.37	N	N			µg/m3		**17**			**2,900**		<	8.7	U	<	8.7	U	<	5.6	U	**160**		<	8.7	U	<	8.8	U	<	5.8	U	<	7.6	U	<	17	U
	EN04-26D	14	25-Aug-05	EN0426D082505	Summa Canister	19.3	1.1	0.0	3.5	N	N			µg/m3		**24**			**2,400**		<	6.9	U	<	6.9	U	<	4.5	U	**150**		<	6.9	U	<	7.1	U		**13**		<	6.1	U	<	13	U
	EN04-26D	14	21-Sep-05	EN0426D092105	Summa Canister	19.6	1.0	0.0	6.72	N	N			µg/m3	<	23	U		**3,000**		<	13	U	<	13	U	<	8.6	U	**160**		<	13	U	<	14	U	<	8.9	U	<	12	U	<	26	U
	EN04-26D	14	13-Oct-05	EN0426D101305	Summa Canister	18.9	1.2	0.0	8.2	N	N			µg/m3	<	28	U		**4,200**		<	16	U	<	16	U	<	10	U	**200**		<	16	U	<	16	U	<	11	U	<	14	U	<	31	U
	EN04-26D	14	13-Dec-05	EN0426D121305	Summa Canister	19.9	0.7	0.0	1.71	N	N			µg/m3		**7.8**			**1,400**		<	3.4	U	<	3.4	U	<	2.2	U	**81**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-26D	14	16-Feb-06	EN0426D021606	Summa Canister	19.2	0.0	0.0	2.33	N	N			µg/m3		**8.6**			**1,600**		<	4.6	U	<	4.6	U	<	3.0	U	**84**		<	4.6	U	<	4.7	U	<	3.1	U	<	4.0	U	<	8.9	U
	EN04-26D	14	6-Apr-06	EN0426D040606	Summa Canister	20.2	0.6	0.0	1.58	N	N			µg/m3	<	5.4	U		**570**		<	3.1	U	<	3.1	U	<	2.0	U	**31**		<	3.1	U	<	3.2	U	<	2.1	U		**3.9**		<	6.0	U
	EN04-26D	14	22-Jun-06	EN0426D062206	Summa Canister	20.2	1.1	0.0	2.47	N	N			µg/m3		**18**			**1,800**		<	4.9	U	<	4.9	U	<	3.2	U	**90**		<	4.9	U	<	5.0	U	<	3.2	U		**4.7**		<	9.5	U
	EN04-26D Dup.	14	22-Jun-06	DU9322062206	Summa Canister	20.2	1.1	0.0	2.61	N	N			µg/m3		**14**			**2,000**		<	5.2	U	<	5.2	U	<	3.3	U	**98**		<	5.2	U	<	5.3	U	<	3.4	U	<	4.5	U		**10**	
	EN04-26D	14	17-Aug-06	EN0426D081706	Summa Canister	18.7	1.6	0.0	6.72	N	N			µg/m3		**28**			**4,700**		<	13	U	<	13	U	<	8.6	U	**280**		<	13	U	<	14	U	<	8.9	U	<	12	U	<	26	U
Implant Location **EN04-27**	EN04-27S	8	25-Aug-04	EN0427S082504	Summa Canister	13.7	5.5	0.0	3.03	Y	N	8.1E-03		µg/m3		**150**			**1,200**		<	6.1	U	<	6.1	U	<	3.9	U	**140**			**17**		<	6.2	U	<	4.1	U	<	5.3	U	<	12	U
Monitoring Well **EN-417A**	EN04-27S	8	23-Sep-04	EN0427S092304	Summa Canister	14.4	5.0	0.0	2.01	N	N	2.2E-05		µg/m3		**160**			**1,200**		<	4.0	U	<	4.0	U	<	2.6	U	**140**			**11**		<	4.1	U	<	2.7	U		**3.7**		<	7.8	U
Water Table Depth (ft) *9*	EN04-27S Dup.	8	23-Sep-04	DU9324092304	Summa Canister	14.4	5.0	0.0	1.64	N	N	1.4E-05		µg/m3		**130**			**1,000**		<	3.3	U	<	3.3	U	<	2.1	U	**120**			**10**		<	3.4	U	<	2.2	U		**3.6**		<	6.4	U
Total VOCs *20*	EN04-27S	8	20-Oct-04	EN0427S102004	Summa Canister	17.0	4.0	0.0	10.9	N	N	3.2E-06		µg/m3		**160**			**950**		<	4.3	U	<	5.2	U	<	2.8	U	**110**		<	4.3	U	<	4.4	U	<	2.9	U	<	3.8	U	<	8.4	U
Sum Ethenes *20*	EN04-27S	8	17-Nov-04	EN0427S111704	Summa Canister	18.0	2.9	0.0	1.75	N	N	9.3E-07		µg/m3		**80**			**580**		<	3.5	U	<	3.5	U	<	2.2	U	**92**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Sum Ethanes *<1*	EN04-27S	8	8-Dec-04	EN0427S120804	Summa Canister	20.5	0.2	0.0	1.68	N	N	3.8E-07		µg/m3		**69**			**470**		<	3.3	U	<	3.3	U	<	2.1	U	**79**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Other	EN04-27S	8	13-Jan-05	EN0427S011305	Summa Canister	20.5	0.0	0.0	1.58	N	N			µg/m3		**39**			**270**		<	3.1	U	<	3.1	U	<	2.0	U	**41**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN04-27S	8	22-Feb-05	EN0427S022205	Summa Canister	20.0	0.7	0.0	1.83	N	N			µg/m3		**43**			**280**		<	3.6	U	<	3.6	U	<	2.3	U	**34**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN04-27S	8	24-Mar-05	EN0427S032405	Summa Canister	19.3	1.0	0.0	1.71	N	N			µg/m3		**36**			**250**		<	3.4	U	<	3.4	U	<	2.2	U	**31**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-27S	8	21-Apr-05	EN0427S042105	Summa Canister	19.6	1.2	0.0	2.22	N	N			µg/m3	<	7.5	U		**56**		<	4.4	U	<	4.4	U	<	2.8	U	**17**		<	4.4	U	<	4.5	U	<	2.9	U	<	3.8	U	<	8.5	U
	EN04-27S	8	26-May-05	EN0427S052605	Summa Canister	18.8	1.6	0.0	8.55	N	N			µg/m3		**78**			**320**		<	3.4	U	<	3.4	U	<	2.2	U	**65**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-27S	8	23-Jun-05	EN0427S062305	Summa Canister	16.6	2.9	0.0	1.75	N	N			µg/m3		**150**			**910**			**11**		<	3.5	U	<	2.2	U	**100**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-27S Dup.	8	23-Jun-05	DUSC27062305	Summa Canister	16.6	2.9	0.0	1.75	N	N			µg/m3		**150**			**890**		<	3.5	U	<	3.5	U	<	2.2	U	**100**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-27S	8	7-Jul-05	EN0427S070705	Summa Canister	15.7	3.6	0.0	1.71	N	N			µg/m3		**200**			**1,200**		<	3.4	U	<	3.4	U	<	2.2	U	**130**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-27S Dup.	8	7-Jul-05	DU9469070705	Summa Canister	15.7	3.6	0.0	1.75	N	N			µg/m3		**190**			**1,100**		<	3.5	U	<	3.5	U	<	2.2	U	**120**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-27S	8	25-Aug-05	EN0427S082505	Summa Canister	17.2	3.4	0.0	2.17	N	N			µg/m3		**190**			**1,100**		<	4.3	U	<	4.3	U	<	2.8	U	**140**			5.2		<	4.4	U	<	2.9	U	<	3.8	U	<	8.3	U
	EN04-27S	8	25-Aug-05	DU34097082505	Summa Canister	17.2	3.4	0.0	1.75	N	N			µg/m3		**180**			**1,100**		<	3.5	U	<	3.5	U	<	2.2	U	**140**			**4.8**		<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
	EN04-27S	8	21-Sep-05	EN0427S092105	Summa Canister	16.2	4.2	0.0	1.64	N	N			µg/m3		**180**			**1,100**		<	3.2	U	<	3.2	U	<	2.1	U	**150**			**4.1**		<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-27 Continued		EN04-27S	8	13-Oct-05	EN0427S101305	Summa Canister	16.4	3.6	0.0	1.8	N	N			µg/m3	**190**	**1,400**	< 3.6 U	< 3.6 U	< 2.3 U	**180**	< 3.6	< 3.6 U	< 2.4 U	< 3.1 U	< 6.9 U
		EN04-27S	8	15-Dec-05	EN0427S121505	Summa Canister	18.7	1.9	0.0	1.64	N	N			µg/m3	**56**	**420**	< 3.2 U	< 3.2 U	< 2.1 U	**67**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
		EN04-27S	8	16-Feb-06	EN0427S021606	Summa Canister	20.2	1.0	0.0	1.79	N	N			µg/m3	**44**	**310**	< 3.5 U	< 3.5 U	< 2.3 U	**40**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
		EN04-27S	8	5-Apr-06	EN0427S040506	Summa Canister	18.9	1.0	0.0	1.75	N	N			µg/m3	**44**	**300**	< 3.5 U	< 3.5 U	< 2.2 U	**47**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
		EN04-27S	8	21-Jun-06	EN0427S062106	Summa Canister	18.3	2.6	0.0	1.75	N	N			µg/m3	**110**	**720**	< 3.5 U	< 3.5 U	< 2.2 U	**110**	**4.1**	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
		EN04-27S Dup.	8	21-Jun-06	DUSC31062106	Summa Canister	18.3	2.6	0.0	1.71	N	N			µg/m3	**110**	**730**	< 3.4 U	< 3.4 U	< 2.2 U	**110**	**4.2**	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
		EN04-27S	8	17-Aug-06	EN0427S081706	Summa Canister	16.4	5.1	0.0	1.58	N	N			µg/m3	**160**	**870**	< 3.1 U	< 3.1 U	< 2.0 U	**110**	< 3.1 U	< 3.2 U	< 2.1 U	**19**	< 6.0 U
Implant Location	**EN04-28**																									
Monitoring Well	**EN-087**																									
Water Table Depth (ft)	*14*	Location of implant to be determined.																								
Total VOCs	*<1*																									
Sum Ethenes	*<1*																									
Sum Ethanes	*<1*																									
Other																										
Implant Location	**EN04-29 EN05-29**	EN05-29S	8	20-Apr-05	EN0529S042005	Summa Canister	19.8	0.7	0.0	1.75	N	N			µg/m3	< 5.9 U	**460**	< 3.5 U	< 3.5 U	< 2.2 U	**72**	**4.1**	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
Monitoring Well	**EN-437**	EN05-29S	8	23-May-05	EN0529S052305	Summa Canister	19.4	1.2	0.0	1.61	N	N			µg/m3	< 5.5 U	**730**	< 3.2 U	< 3.2 U	< 2.0 U	**100**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
Water Table Depth (ft)	*25*	EN05-29S	8	21-Jun-05	EN0529S062105	Summa Canister	19.0	1.3	0.0	2.33	N	N			µg/m3	< 7.9 U	**1,400**	< 4.6 U	< 4.6 U	< 3.0 U	**170**	< 4.6 U	< 4.7 U	< 3.1 U	< 4.0 U	< 8.9 U
Total VOCs	*110*	EN05-29S	8	7-Jul-05	EN0529S070705	Summa Canister	17.1	2.4	0.0	1.79	N	N			µg/m3	< 6.1 U	**1,600**	< 3.5 U	< 3.5 U	< 2.3 U	**200**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
Sum Ethenes	*100*	EN05-29S	8	24-Aug-05	EN0529S082405	Summa Canister	17.9	2.4	0.0	3.28	N	N			µg/m3	< 11 U	**2,100**	< 6.5 U	< 6.5 U	< 4.2 U	**230**	< 6.5 U	< 6.6 U	< 4.3 U	< 5.7 U	< 12 U
Sum Ethanes	*10*	EN05-29S	8	21-Sep-05	EN0529S092105	Summa Canister	17.6	2.4	0.0	3.36	N	N			µg/m3	< 11 U	**1,600**	< 6.7 U	< 6.7 U	< 4.3 U	**190**	< 6.7 U	< 6.8 U	< 4.4 U	< 5.8 U	< 13 U
Other		EN05-29S	8	13-Oct-05	EN0529S101305	Summa Canister	18.4	1.9	0.0	2.19	N	N			µg/m3	< 7.4 U	**1,700**	< 4.3 U	< 4.3 U	< 2.8 U	**190**	< 4.3 U	< 4.4 U	< 2.9 U	< 3.8 U	< 8.4 U
		EN05-29S	8	13-Dec-05	EN0529S121305	Summa Canister	19.7	0.9	0.0	1.55	N	N			µg/m3	< 5.2 U	**410**	< 3.1 U	< 3.1 U	< 2.0 U	**52**	< 3.1 U	< 3.1 U	< 2.0 U	< 2.7 U	< 5.9 U
		EN05-29S	8	14-Feb-06	EN0529S021406	Summa Canister	19.4	0.1	0.0	1.59	N	N			µg/m3	< 5.4 U	**360**	< 3.2 U	< 3.2 U	< 2.0 U	**34**	**3.2**	< 3.2 U	< 2.1 U	< 2.8 U	< 6.1 U
		EN05-29S	8	5-Apr-06	EN0529S040506	Summa Canister	20.2	0.6	0.1	1.52	N	N			µg/m3	< 5.2 U	**11**	< 3.0 U	< 3.0 U	< 1.9 U	< 4.1 U	< 3.0 U	< 3.1 U	< 2.0 U	**38**	< 5.8 U
		EN05-29S	8	21-Jun-06	EN0529S062106	Summa Canister	19	1.3	0.0	1.71	N	N			µg/m3	< 5.8 U	**870**	< 3.4 U	< 3.4 U	< 2.2 U	**73**	**4.1**	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
		EN05-29S	8	15-Aug-06	EN0529S081506	Summa Canister	17	2.7	0.0	2.3	N	N			µg/m3	< 7.8 UJ	**1,600** J	< 4.6 UJ	< 4.6 U	< 2.9 UJ	**120** J	< 4.6 UJ	< 4.6 UJ	< 3.0 UJ	< 4.0 UJ	< 8.8 UJ
		EN05-29I	12.5	20-Apr-05	EN0529I042005	Summa Canister	19.7	0.6	0.0	1.83	N	N			µg/m3	< 6.2 U	**840**	< 3.6 U	< 3.6 U	< 2.3 U	**110**	**5.5**	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
		EN05-29I	12.5	23-May-05	EN0529I052305	Summa Canister	19.4	1.1	0.0	1.61	N	N			µg/m3	< 5.5 U	**820**	< 3.2 U	< 3.2 U	< 2.0 U	**100**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
		EN05-29I	12.5	21-Jun-05	EN0529I062105	Summa Canister	18.8	1.4	0.0	2.44	N	N			µg/m3	< 8.3 U	**1,500**	< 4.8 U	< 4.8 U	< 3.1 U	**190**	< 4.8 U	< 4.9 U	< 3.2 U	< 4.2 U	< 9.4 U
		EN05-29I	12.5	7-Jul-05	EN0529I070705	Summa Canister	17.1	2.3	0.0	2.36	N	N			µg/m3	< 8.0 U	**1,500**	< 4.7 U	< 4.7 U	< 3.0 U	**220**	< 4.7 U	< 4.8 U	< 3.1 U	< 4.1 U	< 9.0 U
		EN05-29I	12.5	24-Aug-05	EN0529I082405	Summa Canister	17.8	2.4	0.0	3.58	N	N			µg/m3	< 12.0 U	**2,400**	< 7.1 U	< 7.1 U	< 4.6 U	**300**	< 7.1 U	< 7.2 U	< 4.7 U	< 6.2 U	< 14 U
		EN05-29I	12.5	21-Sep-05	EN0529I092105	Summa Canister	17.7	2.4	0.0	3.42	N	N			µg/m3	< 12.0 U	**2,200**	< 6.8 U	< 6.8 U	< 4.4 U	**280**	< 6.8 U	< 6.9 U	< 4.5 U	< 5.9 U	< 13 U
		EN05-29I	12.5	13-Oct-05	EN0529I101305	Summa Canister	18.0	2.3	0.0	4.29	N	N			µg/m3	< 14.0 U	**3,000**	< 8.5 U	< 8.5 U	< 5.5 U	**330**	< 8.5 U	< 8.7 U	< 5.7 U	< 7.4 U	< 16 U
		EN05-29I	12.5	13-Dec-05	EN0529I121305	Summa Canister	19.5	1.1	0.0	1.52	N	N			µg/m3	< 5.2 U	**1,100**	< 3.0 U	< 3.0 U	< 1.9 U	**120**	< 3.0 U	< 3.1 U	< 2.0 U	< 2.6 U	< 5.8 U
		EN05-29I	12.5	14-Feb-06	EN0529I021606	Summa Canister	19.4	0.0	0.0	1.71	N	N			µg/m3	< 5.8 U	**660**	< 3.4 U	< 3.4 U	< 2.2 U	**47**	**3.9**	< 3.5 U	< 2.2 U	**6.5**	< 6.6 U
		EN05-29I	12.5	5-Apr-06	EN0529I040506	Summa Canister	20.1	0.7	0.1	1.61	N	N			µg/m3	< 5.5 U	**750**	< 3.2 U	< 3.2 U	< 2.0 U	**66**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-29 Continued	EN05-29I	12.5	21-Jun-06	EN0529I062106	Summa Canister	19.4	1.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**1,000**		<	3.4	U	<	3.4	U	<	2.2	U		**95**			**4.7**		<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN05-29I	12.5	15-Aug-06	EN0529I081506	Summa Canister	17.1	2.7	0.0	1.71	N	N			µg/m3		**6.4**			**1,800**			**4.0**		<	3.4	U	<	2.2	U		**170**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-29D	20	27-Aug-04	EN0429D082704	Summa Canister	19.8	0.0	0.0	18.3	Y	N	3.3E-02		µg/m3	<	63	U		**9,300**			**130**		<	37	U	<	24	U		**1,200**		<	37	U	<	38	U	<	24	U	<	32	U	<	71	U
	EN04-29D Dup	20	27-Aug-04	DU9433082704	Summa Canister	19.8	0.0	0.0	18.3	Y	N			µg/m3	<	63	U		**9,600**			**130**		<	37	U	<	24	U		**1,300**		<	37	U	<	38	U	<	24	U	<	32	U	<	71	U
	EN04-29D	20	21-Sep-04	EN0429D092104	Summa Canister	17.0	2.5	0.1	15.7	N	N	3.9E-06		µg/m3	<	54	U		**12,000**			**150**		<	32	U	<	20	U		**1,500**		<	32	U	<	32	U	<	21	U	<	28	U	<	61	U
	EN04-29D Dup	20	21-Sep-04	DU34612092104	Summa Canister	17.0	2.5	0.1	15.3	N	N	3.4E-06		µg/m3	<	53	U		**11,000**			**130**		<	31	U	<	20	U		**1,400**		<	31	U	<	31	U	<	20	U	<	27	U	<	60	U
	EN04-29D	20	20-Oct-04	EN0429D102004	Summa Canister	17.8	2.4	0.0	154	N	N	1.6E-06		µg/m3	<	100	U		**13,000**			**130**		<	73	U	<	39	U		**1,200**		<	61	U	<	62	U	<	41	U	<	54	U	<	120	U
	EN04-29D	20	18-Nov-04	EN0429D111804	Summa Canister	18.0	2.5	0.0	16.8	N	N	6.0E-07		µg/m3	<	57	U		**10,000**			**110**		<	33	U	<	21	U		**1,200**		<	33	U	<	34	U	<	22	U	<	29	U	<	64	U
	EN04-29D	20	7-Dec-04	EN0429D120704	Summa Canister	18.8	1.7	0.1	16.8	N	N	4.9E-07		µg/m3	<	57	U		**12,000**			**110**		<	33	U	<	21	U		**1,200**		<	33	U	<	34	U	<	22	U	<	29	U	<	64	U
	EN04-29D	20	10-Jan-05	EN0429D011005	Summa Canister	20.7	0.0	0.2	13.4	N	N			µg/m3	<	45	U		**12,000**			**100**		<	26	U	<	17	U		**1,200**		<	26	U	<	27	U	<	18	U	<	23	U	<	51	U
	EN04-29D	20	24-Feb-05	EN0429D022405	Summa Canister	19.6	1.0	0.0	12.9	N	N			µg/m3	<	44	U		**9,600**			**72**		<	26	U	<	16	U		**1,100**		<	26	U	<	26	U	<	17	U	<	22	U	<	49	U
	EN04-29D	20	24-Mar-05	EN0429D032405	Summa Canister	19.0	1.3	0.0	13.7	N	N			µg/m3	<	46	U		**9,400**			**82**		<	27	U	<	18	U		**890**		<	27	U	<	28	U	<	18	U	<	24	U	<	52	U
	EN04-29D Dup	20	24-Mar-05	DU30825032405	Summa Canister	19.0	1.3	0.0	13.4	N	N			µg/m3	<	45	U		**9,300**			**78**		<	26	U	<	17	U		**840**		<	26	U	<	27	U	<	18	U	<	23	U	<	51	U
	EN04-29D	20	20-Apr-05	EN0429D042005	Summa Canister	20.1	0.8	0.0	11.7	N	N			µg/m3	<	40	U		**6,300**			**48**		<	23	U	<	15	U		**670**		<	23	U	<	24	U	<	15	U	<	20	U	<	45	U
	EN04-29D	20	23-May-05	EN0429D052305	Summa Canister	19.5	1.0	0.0	7.00	N	N			µg/m3	<	24	U		**4,200**			**40**		<	14	U	<	8.9	U		**420**		<	14	U	<	14	U	<	9.2	U	<	12	U	<	27	U
	EN04-29D	20	21-Jun-05	EN0429D062105	Summa Canister	19.4	0.9	0.0	7.32	N	N			µg/m3	<	25	U		**5,400**			**42**		<	14	U	<	9.4	U		**470**		<	14	U	<	15	U	<	9.6	U	<	13	U	<	28	U
	EN04-29D	20	7-Jul-05	EN0429D070705	Summa Canister	17.7	1.4	0.0	5.83	N	N			µg/m3	<	20	U		**6,400**			**56**		<	12	U	<	7.4	U		**640**		<	12	U	<	12	U	<	7.7	U	<	10	U	<	22	U
	EN04-29D	20	24-Aug-05	EN0429D082405	Summa Canister	18.5	1.6	0.0	9.6	N	N			µg/m3	<	32	U		**8,600**			**64**		<	19	U	<	12	U		**770**		<	19	U	<	19	U	<	13	U	<	17	U	<	37	U
	EN04-29D	20	21-Sep-05	EN0429D092105	Summa Canister	17.6	2.1	0.1	13.7	N	N			µg/m3	<	46	U		**7,200**			**51**		<	27	U	<	18	U		**670**		<	27	U	<	28	U	<	18	U	<	24	U	<	52	U
	EN04-29D	20	13-Oct-05	EN0429D101305	Summa Canister	17.9	2.3	0.0	12.4	N	N			µg/m3	<	42	U		**9,400**			**55**		<	24	U	<	16	U		**790**		<	24	U	<	25	U	<	16	U	<	22	U	<	48	U
	EN04-29D	20	13-Dec-05	EN0429D121305	Summa Canister	18.8	2.0	0.0	9.21	N	N			µg/m3	<	31	U		**6,600**			**42**		<	18	U	<	12	U		**660**		<	18	U	<	19	U	<	12	U	<	16	U	<	35	U
	EN04-29D	20	14-Feb-06	EN0429D021406	Summa Canister	19.5	0.2	0.0	10.9	N	N			µg/m3	<	37	U		**7,900**			**46**		<	22	U	<	14	U		**680**		<	22	U	<	22	U	<	14	U	<	19	U	<	42	U
	EN04-29D	20	5-Apr-06	EN0429D040506	Summa Canister	19.7	1.3	0.1	8.2	N	N			µg/m3	<	28	U		**6,300**			**39**		<	16	U	<	10	U		**590**		<	16	U	<	16	U	<	11	U	<	14	U	<	31	U
	EN04-29D	20	21-Jun-06	EN0429D062106	Summa Canister	20	0.9	0.0	7.32	N	N			µg/m3	<	25	U		**5,500**			**28**		<	14	U	<	9.4	U		**510**		<	14	U	<	15	U	<	9.6	U	<	13	U	<	28	U
	EN04-29D Dup.	20	21-Jun-06	DU34127062106	Summa Canister	20	0.9	0.0	7.48	N	N			µg/m3	<	25	U		**6,300**			**32**		<	15	U	<	9.6	U		**600**		<	15	U	<	15	U	<	9.9	U	<	13	U	<	29	U
	EN04-29D	20	15-Aug-06	EN0429D081506	Summa Canister	20.3	0.2	0.0	9.15	N	N			µg/m3	<	31	U		**7,300**			**32**		<	18	U	<	12	U		**640**		<	18	U	<	18	U	<	12	U	<	16	U	<	35	U
Implant Location **EN04-30**	EN04-30S	9	26-Aug-04	EN0430S082604	Summa Canister	18.9	1.0	0.0	7.00	Y	N	1.0E-01		µg/m3		**31**			**4,300**	J		**23**		<	14	U	<	9.1	U		**64**		<	14	U	<	14	U	<	9.4	U	<	12	U	<	27	U
Monitoring Well **EN-438**	EN04-30S Dup.	9	26-Aug-04	DU97100082604	Summa Canister	18.9	1.0	0.0	8.75	Y	N			µg/m3		**70**			**8,600**	J		**44**		<	18	U	<	11	U		**110**		<	18	U	<	18	U	<	12	U	<	15	UJ	<	34	U
Water Table Depth (ft) *25*	EN04-30S	9	21-Sep-04	EN0430S092104	Summa Canister	19.1	1.1	0.0	12.7	Y	N	5.8E-06		µg/m3		**78**			**11,000**			**50**		<	26	U	<	16	U		**140**		<	26	U	<	26	U	<	17	U	<	22	U	<	49	U
Total VOCs *600*	EN04-30S	9	22-Oct-04	EN0430S102204	Summa Canister	21.6	0.6	0.0	10.3	N	N	ND		µg/m3		**8.0**			**930**		<	**4.1**	U	<	4.9	U	<	2.6	U		**5.9**		<	4.1	U	<	4.2	U	<	2.7	U	<	3.6	U	<	7.9	U
Sum Ethenes *500*	EN04-30S	9	15-Nov-04	EN0430S111504	Summa Canister	20.4	0.3	0.0	6.84	N	N	ND		µg/m3		**32**			**4,400**			**18**		<	14	U	<	8.7	U		**35**		<	14	U	<	14	U	<	9.0	U	<	12	U	<	26	U
Sum Ethanes *100*	EN04-30S	9	6-Dec-04	EN0430S120604	Summa Canister	20.0	0.0	0.0	3.16	N	N	ND		µg/m3		**19**			**2,300**			**12**		<	6.3	U	<	4.0	U		**24**		<	6.3	U	<	6.4	U	<	4.2	U	<	5.5	U	<	12	U
Other	EN04-30S	9	10-Jan-05	EN0430S011005	Summa Canister	20.7	0.1	0.1	1.55	N	N			µg/m3		**10**			**1,400**			**5.8**		<	3.1	U	<	2.0	U		**11**		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
	EN04-30S	9	22-Feb-05	EN0430S022205	Summa Canister	20.2	0.0	0.0	1.52	N	N			µg/m3		**7.7**			**1,000**			**4.3**		<	3.0	U	<	1.9	U		**7.8**		<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U

Table B.1
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-30 Continued	EN04-30S	9	24-Mar-05	EN0430S032405	Summa Canister	20.5	0.0	0.0	1.58	N	N			µg/m3	**7.0**	**920**	**4.1**	< 3.1 U	< 2.0 U	**9.4**	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
	EN04-30S	9	18-Apr-05	EN0430S041805	Summa Canister	21.0	0.0	0.0	2.06	N	N			µg/m3	< 7.0 U	**700**	< 4.1 U	< 4.1 U	< 2.6 U	**8.7**	< 4.1 U	< 4.2 U	< 2.7 U	< 3.6 U	< 7.9 U
	EN04-30S	9	23-May-05	EN0430S052305	Summa Canister	18.7	0.3	0.0	3.5	N	N			µg/m3	< 12.0 U	**1,200**	**7.3**	< 6.9 U	< 4.5 U	**13**	< 6.9 U	< 7.1 U	< 4.6 U	< 6.1 U	< 13 U
	EN04-30S	9	21-Jun-05	EN0430S062105	Summa Canister	19.8	0.0	0.0	3.5	N	N			µg/m3	28	**3,100**	**22**	< 6.9 U	< 4.5 U	**24**	< 6.9 U	< 7.1 U	< 4.6 U	< 6.1 U	< 13 U
	EN04-30S	9	6-Jul-05	EN0430S070605	Summa Canister	18.9	0.4	0.0	1.75	N	N			µg/m3	9.0	**1,400**	**5.2**	< 3.5 U	< 2.2 U	**9.7**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-30S	9	23-Aug-05	EN0430S082305	Summa Canister	18.2	0.8	0.0	4.88	N	N			µg/m3	**23**	**3,900**	**13**	< 9.7 U	< 6.2 U	**28**	< 9.7 U	< 9.9 U	< 6.4 U	< 8.5 U	< 19 U
	EN04-30S	9	20-Sep-05	EN0430S092005	Summa Canister	20.2	0.2	0.0	5.51	N	N			µg/m3	< 19 U	**2,800**	< 11 U	< 11 U	< 7.0 U	**22**	< 11 U	< 11 U	< 7.3 U	< 9.6 U	< 21 U
	EN04-30S	9	10-Oct-05	EN0430S101005	Summa Canister	20.0	0.2	0.0	3.36	N	N			µg/m3	**14**	**2,500**	**7.0**	< 6.7 U	< 4.3 U	**16**	< 6.7 U	< 6.8 U	< 4.4 U	< 5.8 U	< 13 U
	EN04-30S	9	12-Dec-05	EN0430S121205	Summa Canister	20.1	0.1	0.0	1.68	N	N			µg/m3	< 5.7 U	**680**	< 3.3 U	< 3.3 U	< 2.1 U	**6.8**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN04-30S	9	14-Feb-06	EN0430S021406	Summa Canister	20.8	0.0	0.0	1.64	N	N			µg/m3	< 5.6 U	**580**	< 3.2 U	< 3.2 U	< 2.1 U	**6.4**	< 3.2 U	< 3.3 U	< 2.2 U	**4.2**	< 6.3 U
	EN04-30S	9	3-Apr-06	EN0430S040306	Summa Canister	19.6	0.0	0.0	1.64	N	N			µg/m3	< 5.6 U	**560**	**3.3**	< 3.2 U	< 2.1 U	**6.6**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-30S	9	19-Jun-06	EN0430S061906	Summa Canister	21.2	0.2	0.0	1.83	N	N			µg/m3	< 6.2 U	**1,200**	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-30S	9	14-Aug-06	EN0430S081406	Summa Canister	20.2	0.3	0.0	3.32	N	N			µg/m3	< 11 U	**3,200**	**10**	< 6.6 U	< 4.2 U	**17**	< 6.6 U	< 6.7 U	< 4.4 U	< 5.8 U	< 13 U
	EN04-30D	20	26-Aug-04	EN0430D082604	Summa Canister	19.1	0.8	0.0	3.66	Y	N	4.7E-01		µg/m3	**96**	**2,600**	**97**	< 7.4 U	< 4.8 U	**380**	**13**	**55**	< 4.9 U	< 6.5 U	**26**
	EN04-30D	20	21-Sep-04	EN0430D092104	Summa Canister	18.5	1.6	0.1	9.35	Y	N	2.9E-03		µg/m3	**330**	**9,100**	**260**	< 19 U	< 12 U	**1,200**	< 19 U	**140**	< 12 U	< 16 U	**62**
	EN04-30D	20	22-Oct-04	EN0430D102204	Summa Canister	20.7	1.4	0.0	117	N	N	3.4E-06		µg/m3	**360**	**9,200**	**170**	< 56 U	< 30 U	**640**	< 46 U	**92**	< 31 U	< 41 U	< 90 U
	EN04-30D	20	15-Nov-04	EN0430D111504	Summa Canister	20.0	1.1	0.0	13.7	Y	N	4.7E-08		µg/m3	**360**	**11,000**	**240**	< 27 U	< 18 U	**960**	< 27 U	**130**	< 18 U	< 24 U	< 52 U
	EN04-30D	20	6-Dec-04	EN0430D120604	Summa Canister	NR	NR	NR	8.68	N	N	ND		µg/m3	**260**	**7,000**	**190**	< 17 U	< 11 U	**660**	< 17 U	**98**	< 11 U	< 15 U	< 33 U
	EN04-30D Dup.	20	6-Dec-04	DU3341120604	Summa Canister	NR	NR	NR	10.6	N	N	ND		µg/m3	**260**	**7,000**	**180**	< 21 U	< 14 U	**640**	< 21 U	**97**	< 14 U	< 18 U	< 41 U
	EN04-30D	20	10-Jan-05	EN0430D011005	Summa Canister	20.5	0.5	0.1	6.20	N	N			µg/m3	**220**	**5,600**	**130**	< 12 U	< 7.9 U	**400**	< 12 U	**76**	< 8.2 U	< 11 U	< 24 U
	EN04-30D	20	22-Feb-05	EN0430D022205	Summa Canister	20.2	0.0	0.0	5.96	N	N			µg/m3	**160**	**4,000**	**89**	< 12 U	< 7.6 U	**240**	< 12 U	**44**	< 7.9 U	< 10 U	< 23 U
	EN04-30D	20	24-Mar-05	EN0430D032405	Summa Canister	20.3	0.1	0.0	3.10	N	N			µg/m3	**140**	**2,900**	**68**	< 6.1 U	< 4.0 U	**190**	**6.1** J	**32**	< 4.1 U	< 5.4 U	< 12 U
	EN04-30D	20	18-Apr-05	EN0430D041805	Summa Canister	21.0	0.0	0.0	3.66	N	N			µg/m3	**85**	**2,000**	**53**	< 7.2 U	< 4.7 U	**130**	**7.3**	**23**	< 4.8 U	< 6.4 U	< 14 U
	EN04-30D	20	23-May-05	Analysis cancelled - canister was at atmospheric pressure when received by the lab		18.6	0.3	0.0		N	N														
	EN04-30D	20	21-Jun-05	EN0430D062105	Summa Canister	19.5	0.3	0.0	2.00	N	N			µg/m3	**100**	**2,000**	**61**	< 4.0 U	< 2.6 U	**140**	**4.7**	**24**	< 2.6 U	**4.3**	**12**
	EN04-30D	20	6-Jul-05	EN0430D070605	Summa Canister	18.6	0.5	0.0	1.96	N	N			µg/m3	**93**	**2,000**	**54**	< 3.9 U	< 2.5 U	**160**	**5.2**	**25**	< 2.6 U	< 3.4 U	**13**
	EN04-30D	20	23-Aug-05	EN0430D082305	Summa Canister	18.4	0.6	0.0	1.83	N	N			µg/m3	**76**	**1,800**	**34**	< 3.6 U	< 2.3 U	**100**	5.4	**17**	< 2.4 U	< 3.2 U	< 7.0 U
	EN04-30D	20	20-Sep-05	EN0430D092005	Summa Canister	19.6	0.6	0.0	2.58	N	N			µg/m3	**50**	**1,300**	**19**	< 5.1 U	< 3.3 U	**73**	< 5.1 U	**9.8**	< 3.4 U	**5.9**	< 9.9 U
	EN04-30D	20	10-Oct-05	EN0430D101005	Summa Canister	19.4	0.7	0.0	4.13	N	N			µg/m3	**77**	**2,400**	**26**	< 8.2 U	< 5.3 U	**110**	< 8.2 U	**13**	< 5.4 U	< 7.2 U	< 16 U
	EN04-30D	20	12-Dec-05	EN0430D121205	Summa Canister	20.2	0.4	0.0	1.61	N	N			µg/m3	**44**	**1,100**	**23**	< 3.2 U	< 2.0 U	**58**	< 3.2 **U**	**9.6**	< 2.1 U	< 2.8 U	< 6.2 U
	EN04-30D	20	14-Feb-06	EN0430D021406	Summa Canister	20.6	0.3	0.0	3.28	N	N			µg/m3	**95**	**1,900**	**62**	< 6.5 U	< 4.2 U	**180**	**13**	**31**	< 4.3 U	< 5.7 U	**13**
	EN04-30D	20	3-Apr-06	EN0430D040306	Summa Canister	19.5	0.1	0.0	1.71	N	N			µg/m3	**90**	**1,600**	**69**	< 3.4 U	< 2.2 U	**160**	**5.1**	**30**	< 2.2 U	< 3.0 U	**14**
	EN04-30D	20	19-Jun-06	EN0430D061906	Summa Canister	21.6	0.3	0.0	1.75	N	N			µg/m3	**28**	**700**	**5.7**	< 3.5 U	< 2.2 U	**13**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN04-30D	20	14-Aug-06	EN0430D081406	Summa Canister	20.2	0.4	0.0	2.52	N	N			µg/m3	**64**	**2,200**	**10**	< 5.0 U	< 3.2 U	**30**	< 5.0 U	< 5.1 U	< 3.3 U	< 4.4 U	< 9.6 U

Table B.1
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
Implant Location	**EN04-31**	EN04-31S	10	26-Aug-04	EN0431S082604	Summa Canister	19.9	0.0	0.0	1.79	Y	N	4.2E-07		µg/m3	<	6.2	U		**9.7**		<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U		**4.3**		<	7.0	U
Monitoring Well	**EN-453**	EN04-31S	10	20-Sep-04	EN0431S092004	Summa Canister	19.8	0.1	0.0	1.75	N	N	4.9E-08		µg/m3	<	6.0	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.8	U	<	3.5	U	<	3.6	U	<	2.3	U	<	3.1	U	<	6.8	U
Water Table Depth (ft)	*24*	EN04-31S	10	18-Oct-04	EN0431S101804	Summa Canister	21.4	0.0	0.0	8.55	N	N	ND		µg/m3		**6.4**			**8.1**		<	3.4	U	<	4.1	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
Total VOCs	*20*	EN04-31S	10	15-Nov-04	EN0431S111504	Summa Canister	20.7	0.1	0.0	1.83	N	N	4.5E-07		µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
Sum Ethenes	*20*	EN04-31S	10	6-Dec-04	EN0431S120604	Summa Canister	20.5	0.0	0.0	1.68	N	N	ND		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Sum Ethanes	*<1*	EN04-31S	10	10-Jan-05	EN0431S011005	Summa Canister	20.7	0.0	0.1	1.68	N	N			µg/m3	<	5.7	U		**4.5**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
Other		EN04-31S	10	21-Feb-05	EN0431S022105	Summa Canister	20.1	0.0	0.0	1.61	N	N			µg/m3	<	5.5	U	<	4.3	U	<	3.2	U	<	3.2	U	<	2	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-31S	10	21-Mar-05	EN0431S032105	Summa Canister	20.0	0.1	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-31S	10	18-Apr-05	EN0431S041805	Summa Canister	19.7	0.1	0.0	1.71	N	N			µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-31S	10	23-May-05	EN0431S052305	Summa Canister	20.6	0.0	0.0	1.79	N	N			µg/m3	<	6.1	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-31S	10	21-Jun-05	EN0431S062105	Summa Canister	20.8	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U		**5.6**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-31S	10	6-Jul-05	EN0431S070605	Summa Canister	20.7	0.0	0.0	1.81	N	N			µg/m3	<	6.1	U		**5.5**		<	3.6	U	<	3.6	U	<	2.3	U	<	4.9	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.1	U	<	6.9	U
		EN04-31S	10	23-Aug-05	EN0431S082305	Summa Canister	20.7	0.0	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U		**57**		<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-31S	10	19-Sep-05	EN0431S091905	Summa Canister	20.4	0.0	0.0	1.68	N	N			µg/m3		**15**			**4.6**		<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-31S	10	10-Oct-05	EN0431S101005	Summa Canister	20.7	0.0	0.0	1.55	N	N			µg/m3	<	5.2	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
		EN04-31S	10	12-Dec-05	EN0431S121205	Summa Canister	20.9	0.0	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-31S	10	14-Feb-06	EN0431S021406	Summa Canister	19.6	0.0	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U		**5.0**		<	6.3	U
		EN04-31S	10	3-Apr-06	EN0431S040306	Summa Canister	20.5	0.0	0.0	1.91	N	N			µg/m3	<	6.5	U	<	5.1	U	<	3.8	U	<	3.8	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-31S	10	19-Jun-06	EN0431S061906	Summa Canister	20.2	0.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**5.6**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-31S Dup.	10	19-Jun-06	DU33709061906	Summa Canister	20.2	0.0	0.0	1.79	N	N			µg/m3	<	6.1	U		**5.2**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-31S	10	14-Aug-06	EN0431S081406	Summa Canister	21.7	0.0	0.0	2.12	N	N			µg/m3	<	7.2	U	<	5.7	U	<	4.2	U	<	4.2	U	<	2.7	U	<	5.8	U	<	4.2	U	<	4.3	U	<	2.8	U	<	3.7	U	<	8.1	U
		EN04-31D	19	26-Aug-04	EN0431D082604	Summa Canister	19.9	0.1	0.0	1.41	Y	N	3.6E-02		µg/m3	<	4.9	UJ		**800**	J		**12**	J	<	2.8	U	<	1.8	UJ		**21**	J		**4.4**	J	<	2.9	UJ	<	1.9	UJ		**13**	J	<	5.5	UJ
		EN04-31D	19	20-Sep-04	EN0431D092004	Summa Canister	19.7	0.0	0.0	1.79	N	N	1.0E-02		µg/m3		**6.2**			**1,800**			**15**		<	3.6	U	<	2.3	U		**49**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-31D	19	18-Oct-04	EN0431D101804	Summa Canister	21.4	0.0	0.0	9.6	N	N	ND		µg/m3	<	6.5	U		**940**			**5.4**		<	4.6	U	<	2.4	U		**12**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.4	U
		EN04-31D	19	15-Nov-04	EN0431D111504	Summa Canister	20.7	0.1	0.0	1.75	N	N	ND		µg/m3	<	5.9	U		**590**			**4.4**		<	3.5	U	<	2.2	U		**15**		<	3.5	U	<	3.5	U	<	2.3	U	<	3	U	<	6.7	U
		EN04-31D	19	6-Dec-04	EN0431D120604	Summa Canister	20.5	0.0	0.0	1.61	N	N	ND		µg/m3	<	5.5	U		**940**			**9.8**		<	3.2	U	<	2.0	U		**38**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-31D	19	10-Jan-05	EN0431D011005	Summa Canister	20.6	0.0	0.1	1.68	N	N			µg/m3	<	5.7	U		**1,600**			**13**		<	3.3	U	<	2.1	U		**62**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-31D	19	21-Feb-05	EN0431D022105	Summa Canister	20.5	0.0	0.4	1.55	N	N			µg/m3	<	5.2	U		**550**		<	3.1	U	<	3.1	U	<	2.0	U		**16**		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
		EN04-31D	19	21-Mar-05	EN0431D032105	Summa Canister	20.0	0.1	0.0	1.58	N	N			µg/m3	<	5.4	U		**280**		<	3.1	U	<	3.1	U	<	2.0	U		**6**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN04-31D	19	18-Apr-05	EN0431D041805	Summa Canister	19.9	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U		**160**		<	3.5	U	<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-31D	19	23-May-05	EN0431D052305	Summa Canister	20.6	0.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**100**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-31D	19	21-Jun-05	EN0431D062105	Summa Canister	20.9	0.0	0.0	1.83	N	N			µg/m3	<	6.2	U		**120**		<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-31D	19	6-Jul-05	EN0431D070605	Summa Canister	20.7	0.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**130**		<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-31D	19	23-Aug-05	EN0431D082305	Summa Canister	20.7	0.0	0.0	1.91	N	N			µg/m3	<	6.5	U		**400**			**4.1**		<	3.8	U	<	2.4	U		15		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		EN04-31D	19	19-Sep-05	EN0431D091905	Summa Canister	20.2	0.0	0.0	1.71	N	N			µg/m3	<	5.8	U		**500**			**5.5**		<	3.4	U	<	2.2	U		15		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U

Table B.1
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN04-31 Continued		EN04-31D	19	10-Oct-05	EN0431D101005	Summa Canister	20.6	0.1	0.0	1.55	N	N			µg/m3	<	5.2	U		**530**			**4.5**		<	3.1	U	<	2.0	U		15		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
		EN04-31D	19	12-Dec-05	EN0431D121205	Summa Canister	20.4	0.1	0.0	1.68	N	N			µg/m3	<	5.7	U		**440**			**4.0**		<	3.3	U	<	2.1	U		**18**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-31D	19	14-Feb-06	EN0431D021406	Summa Canister	19.5	0.0	0.0	1.68	N	N			µg/m3	<	5.7	U		**510**			**4.9**		<	3.3	U	<	2.1	U		**21**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-31D	19	3-Apr-06	EN0431D040306	Summa Canister	20.4	0.1	0.0	2.01	N	N			µg/m3	<	6.8	U		**470**			**5.4**		<	4.0	U	<	2.6	U		**22**		<	4.0	U	<	4.1	U	<	2.6	U	<	3.5	U	<	7.7	U
		EN04-31D	19	19-Jun-06	EN0431D061906	Summa Canister	20.2	0.0	0.0	1.79	N	N			µg/m3	<	6.1	U		**720**			**5.5**		<	3.5	U	<	2.3	U		**35**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN04-31D	19	14-Aug-06	EN0431D081406	Summa Canister	21.7	0.0	0.0	2.44	N	N			µg/m3	<	8.3	U		**650**			**5.7**		<	4.8	U	<	3.1	U		**17**		<	4.8	U	<	4.9	U	<	3.2	U		**13**		<	9.4	U
Implant Location	**EN04-32**	EN04-32S	8	26-Aug-04	EN0432S082604	Summa Canister	17.9	1.6	0.1	7.84	Y	N	6.5E-03		µg/m3	<	27	U		**4,300**		<	16	U	<	16	U	<	10	U		**210**		<	16	U	<	16	U	<	10	U	<	14	U	<	30	U
Monitoring Well	**EN-457**	EN04-32S	8	22-Sep-04	EN0432S092204	Summa Canister	17.4	1.9	0.0	7.32	N	N	2.0E-05		µg/m3	<	25	U		**4,600**		<	15	U	<	15	U	<	9.5	U		**230**		<	15	U	<	15	U	<	9.8	U	<	13	U	<	28	U
Water Table Depth (ft)	*23*	EN04-32S	8	19-Oct-04	EN0432S101904	Summa Canister	19.1	1.6	0.0	50	N	N	4.9E-06		µg/m3	<	34	U		**3,900**		<	20	U	<	24	U	<	13	U		**170**		<	20	U	<	20	U	<	13	U	<	17	U	<	38	U
Total VOCs	*20*	EN04-32S	8	15-Nov-04	EN0432S111504	Summa Canister	19.0	1.5	0.0	3.1	N	N	1.4E-06		µg/m3	<	10	U		**3,300**		<	6.1	U	<	6.1	U	<	4.0	U		**170**		<	6.1	U	<	6.3	U	<	4.1	U	<	5.4	U	<	12	U
Sum Ethenes	*20*	EN04-32S	8	6-Dec-04	EN0432S120604	Summa Canister	20.7	0.0	0.0	2.11	N	N	7.6E-07		µg/m3	<	7.2	U		**2,100**			**7.6**		<	4.2	U	<	2.7	U		**130**		<	4.2	U	<	4.3	U	<	2.8	U	<	3.7	U	<	8.1	U
Sum Ethanes	*<1*	EN04-32S	8	10-Jan-05	EN0432S011005	Summa Canister	19.7	0.9	0.1	2.01	N	N			µg/m3	<	6.8	U		**1,600**		<	4.0	U	<	4.0	U	<	2.6	U		**75**		<	4.0	U	<	4.1	U	<	2.6	U	<	3.5	U	<	7.7	U
Other		EN04-32S	8	21-Feb-05	EN0432S022105	Summa Canister	20.0	0.6	0.4	1.68	N	N			µg/m3	<	5.7	U		**1,200**		<	3.3	U	<	3.3	U	<	2.1	U		**62**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-32S	8	23-Mar-05	EN0432S032305	Summa Canister	20.3	0.6	0.0	1.64	N	N			µg/m3	<	5.6	U		**1,100**		<	3.2	U	<	3.2	U	<	2.1	U		**64**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN04-32S	8	18-Apr-05	EN0432S041805	Summa Canister	20.3	0.5	0.0	2.01	N	N			µg/m3	<	6.8	U		**1,100**		<	4.0	U	<	4.0	U	<	2.6	U		**50**		<	4.0	U	<	4.1	U	<	2.6	U	<	3.5	U	<	7.7	U
		EN04-32S	8	23-May-05	EN0432S052305	Summa Canister	18.0	1.1	0.0	2.38	N	N			µg/m3	<	8.1	U		**1,700**		<	4.7	U	<	4.7	U	<	3.0	U		**71**		<	4.7	U	<	4.8	U	<	3.1	U	<	4.1	U	<	9.1	U
		EN04-32S	8	21-Jun-05	EN0432S062105	Summa Canister	18.8	1.2	0.0	3.25	N	N			µg/m3	<	11	U		**2,700**		<	6.4	U	<	6.4	U	<	4.2	U		**110**		<	6.4	U	<	6.6	U	<	4.3	U	<	5.6	U	<	12	U
		EN04-32S	8	6-Jul-05	EN0432S070605	Summa Canister	18.1	1.4	0.0	4.56	N	N			µg/m3	<	15	U		**3,300**		<	9.0	U	<	9.0	U	<	5.8	U		**100**		<	9.0	U	<	9.2	U	<	6.0	U	<	7.9	U	<	17	U
		EN04-32S	8	22-Aug-05	EN0432S082205	Summa Canister	18.0	1.4	0.0	7.48	N	N			µg/m3	<	25	U		**4,500**		<	15.0	U	<	15.0	U	<	9.6	U		**100**		<	15.0	U	<	15	U	<	9.9	U	<	13	U	<	29	U
		EN04-32S	8	19-Sep-05	EN0432S091905	Summa Canister	19.4	1.1	0.0	4.56	N	N			µg/m3	<	15	U		**3,200**		<	9.0	U	<	9.0	U	<	5.8	U		**77**		<	9.0	U	<	9.2	U	<	6.0	U	<	7.9	U	<	17	U
		EN04-32S	8	19-Sep-05	DU21029091905	Summa Canister	19.4	1.1	0.0	4.67	N	N			µg/m3	<	16	U		**3,200**		<	9.2	U	<	9.2	U	<	6.0	U		**77**		<	9.2	U	<	9.4	U	<	6.2	U	<	8.1	U	<	18	U
		EN04-32S	8	10-Oct-05	EN0432S101005	Summa Canister	19.5	1.1	0.0	3.28	N	N			µg/m3	<	11	U		**2,600**		<	6.5	U	<	6.5	U	<	4.2	U		**56**		<	6.5	U	<	6.6	U	<	4.3	U	<	5.7	U	<	12	U
		EN04-32S	8	12-Dec-05	EN0432S121205	Summa Canister	20.1	0.5	0.0	1.71	N	N			µg/m3	<	5.8	U		**810**		<	3.4	U	<	3.4	U	<	2.2	U		**21**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-32S	8	12-Dec-05	DU9332121205	Summa Canister	20.1	0.5	0.0	1.68	N	N			µg/m3	<	5.7	U		**820**		<	3.3	U	<	3.3	U	<	2.1	U		**20**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN04-32S	8	14-Feb-06	EN0432S021406	Summa Canister	20.7	0.4	0.0	1.61	N	N			µg/m3	<	5.5	U		**640**		<	3.2	U	<	3.2	U	<	2.0	U		**15**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
		EN04-32S	8	3-Apr-06	EN0432S040306	Summa Canister	20.2	0.1	0.0	1.75	N	N			µg/m3	<	5.9	U		**620**		<	3.5	U	<	3.5	U	<	2.2	U		**15**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-32S	8	3-Apr-06	DU20781040306	Summa Canister	20.2	0.1	0.0	1.75	N	N			µg/m3	<	5.9	U		**590**		<	3.5	U	<	3.5	U	<	2.2	U		**13**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		EN04-32S	8	19-Jun-06	EN0432S061906	Summa Canister	21.2	0.7	0.0	1.83	N	N			µg/m3	<	6.2	U		**550**		<	3.6	U	<	3.6	U	<	2.3	U		**7.9**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN04-32S	8	14-Aug-06	EN0432S081406	Summa Canister	18.7	1.6	0.0	1.71	N	N			µg/m3	<	5.8	U		**1,900**	EJ	<	3.4	U	<	3.4	U	<	2.2	U		**27**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		EN04-32D	18	26-Aug-04	EN0432D082604	Summa Canister	17.9	1.6	0.0	10.3	Y	N	2.0E-05		µg/m3	<	36	U		**6,600**		<	21	U	<	21	U	<	13	U		**390**			**23**		<	21	U	<	14	U	<	18	U	<	40	U
		EN04-32D	18	22-Sep-04	EN0432D092204	Summa Canister	17.6	1.7	0.0	9.15	N	N	1.5E-05		µg/m3	<	32	U		**7,500**		<	18	U	<	18	U	<	12	U		**420**		<	18	U	<	19	U	<	12	U	<	16	U	<	36	U
		EN04-32D	18	19-Oct-04	EN0432D101904	Summa Canister	18.8	1.7	0.0	80.5	N	N	7.5E-06		µg/m3	<	55	U		**8,100**		<	32	U	<	38	U	<	20	U		**360**		<	32	U	<	32	U	<	21	U	<	28	U	<	62	U
		EN04-32D	18	15-Nov-04	EN0432D111504	Summa Canister	18.4	2.0	0.0	12.4	N	N	2.9E-06		µg/m3	<	42	U		**9,900**		<	24	U	<	24	U	<	16	U		**530**		<	24	U	<	25	U	<	16	U	<	22	U	<	48	U
		EN04-32D	18	6-Dec-04	EN0432D120604	Summa Canister	20.3	0.0	0.0	12.6	N	N	1.5E-06		µg/m3	<	43	U		**7,600**		<	25	U	<	25	U	<	16	U		**420**		<	25	U	<	26	U	<	17	U	<	22	U	<	48	U

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Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethene		1,1-Dichloroethane		Chloroethane		Methylene Chloride		Freon 113	
	EN04-32D	18	10-Jan-05	EN0432D011005	Summa Canister	19.1	1.5	0.1	10.6	N	N			µg/m3	<	36	U	**7,800**		<	21	U	<	21	U	<	14	U	**330**		<	21	U	<	21	U	<	14	U	<	18	U	<	41	U
	EN04-32D	18	21-Feb-05	EN0432D022105	Summa Canister	20.3	0.1	0.9	6.84	N	N			µg/m3	<	23	U	**5,400**		<	14	U	<	14	U	<	8.7	U	**270**		<	14	U	<	14	U	<	9.0	U	<	12	U	<	26	U
	EN04-32D	18	23-Mar-05	EN0432D032305	Summa Canister	20.1	0.8	0.0.	6.44	N	N			µg/m3	<	22	U	**5,200**		<	13	U	<	13	U	<	8.2	U	**270**		<	13	U	<	13	U	<	8.5	U	<	11	U	<	25	U
	EN04-32D	18	18-Apr-05	EN0432D041805	Summa Canister		0.7	0.0	4.58	N	N			µg/m3	<	16	U	**4,000**		<	9.1	U	<	9.1	U	<	5.8	U	**190**		<	9.1	U	<	9.3	U	<	6.0	U	<	8.0	U	<	18	U
	EN04-32D	18	23-May-05	EN0432D052305	Summa Canister	18.0	1.2	0.0	4.9	N	N			µg/m3	<	17	U	**3,300**		<	9.7	U	<	9.7	U	<	6.3	U	**150**		<	9.7	U	<	9.9	U	<	6.5	U	<	8.5	U	<	19	U
	EN04-32D Dup.	18	23-May-05	DU2135052305	Summa Canister	18.0	1.2	0.0	4.68	N	N			µg/m3	<	16	U	**3,300**		<	9.3	U	<	9.3	U	<	6.0	U	**150**		<	9.3	U	<	9.5	U	<	6.2	U	<	8.1	U	<	18	U
	EN04-32D	18	21-Jun-05	EN0432D062105	Summa Canister	19.0	0.9	0.0	7.48	N	N			µg/m3	<	25	U	**3,900**		<	15	U	<	15	U	<	9.6	U	**200**		<	15	U	<	15	U	<	9.9	U	<	13	U	<	29	U
	EN04-32D	18	6-Jul-05	EN0432D070605	Summa Canister	18.3	1.2	0.0	5.23	N	N			µg/m3		**240**	J	**3,600**		<	10	U	<	10	U	<	6.7	U	**140**		<	10	U	<	10	U	<	6.9	U	<	9.1	U	<	20	U
	EN04-32D Dup.	18	6-Jul-05	DU34616070605	Summa Canister	18.3	1.2	0.0	7.32	N	N			µg/m3	<	25	UJ	**3,900**		<	14	U	<	14	U	<	9.4	U	**160**		<	14	U	<	15	U	<	9.6	U	<	13	U	<	28	U
	EN04-32D	18	22-Aug-05	EN0432D082205	Summa Canister	18.1	1.4	0.0	6.84	N	N			µg/m3		**140**		**5,900**		<	14	U	<	14	U	<	8.7	U	**200**		<	14	U	<	14	U	<	9.0	U	<	12	U	<	26	U
	EN04-32D	18	19-Sep-05	EN0432D091905	Summa Canister	18.9	1.6	0.0	7.32	N	N			µg/m3	<	25	U	**4,600**		<	14	U	<	14	U	<	9.4	U	**160**		<	14	U	<	15	U	<	9.6	U	<	13	U	<	28	U
	EN04-32D	18	10-Oct-05	EN0432D101005	Summa Canister	19.4	1.1	0.0	7	N	N			µg/m3	<	24	U	**4,100**		<	14	U	<	14	U	<	8.9	U	**130**		<	14	U	<	14	U	<	9.2	U	<	12	U	<	27	U
	EN04-32D	18	12-Dec-05	EN0432D121205	Summa Canister	20.1	0.7	0.0	6.08	N	N			µg/m3	<	21	U	**3,200**		<	12	U	<	12	U	<	7.8	U	**98**		<	12	U	<	12	U	<	8.0	U	<	10.0	U	<	23	U
	EN04-32D	18	14-Feb-06	EN0432D021406	Summa Canister	20.7	0.4	0.0	4.37	N	N			µg/m3	<	15	U	**3,300**		<	8.7	U	<	8.7	U	<	5.6	U	**77**		<	8.7	U	<	8.8	U	<	5.8	U	<	7.6	U	<	17	U
	EN04-32D Dup.	18	14-Feb-06	DU2109021406	Summa Canister	20.7	0.4	0.0	4.2	N	N			µg/m3	<	14	U	**3,300**		<	8.3	U	<	8.3	U	<	5.4	U	**80**		<	8.3	U	<	8.5	U	<	5.5	U	<	7.3	U	<	16	U
	EN04-32D	18	3-Apr-06	EN0432D040306	Summa Canister	20.3	0.0	0.0	2.74	N	N			µg/m3	<	9.3	U	**2,100**		<	5.4	U	<	5.4	U	<	3.5	U	**31**		<	5.4	U	<	5.5	U	<	3.6	U	<	4.8	U	<	10	U
	EN04-32D Dup.	18	3-Apr-06	DU2035040306	Summa Canister	20.3	0.0	0.0	3.42	N	N			µg/m3	<	12	U	**2,100**		<	6.8	U	<	6.8	U	<	4.4	U	**30**		<	6.8	U	<	6.9	U	<	4.5	U	<	5.9	U	<	13	U
	EN04-32D	18	19-Jun-06	EN0432D061906	Summa Canister	21.6	0.5	0.0	1.71	N	N			µg/m3	<	5.8	U	**1,400**		<	3.4	U	<	3.4	U	<	2.2	U	**29**		<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
	EN04-32D	18	14-Aug-06	EN0432D081406	Summa Canister	19	0.9	0.0	3.92	N	N			µg/m3	<	13	U	**2,600**		<	7.8	U	<	7.8	U	<	5.0	U	**60**		<	7.8	U	<	7.9	U	<	5.2	U	<	6.8	U	<	15	U
Implant Location **EN05-33**	EN05-33S	7.5	21-Apr-05	EN0533S042105	Summa Canister	20.5	0.0	0.0	1.75	N	N			µg/m3	<	5.9	U	**140**		<	3.5	U	<	3.5	U	<	2.2	U	**9.2**		<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Monitoring Well **EN-162**	EN05-33S	7.5	25-May-05	EN0533S052505	Summa Canister	20.1	0.3	0.0	7.75	N	N			µg/m3		**13**		**170**		<	3.1	U	<	3.1	U	<	2.0	U	**14**		<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
Water Table Depth (ft) *35*	EN05-33S	7.5	23-Jun-05	EN0533S062305	Summa Canister	19.4	0.4	0.0	1.79	N	N			µg/m3		**28**		**450**			**14**		<	3.5	U	<	2.3	U	**20**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
Total VOCs	EN05-33S	7.5	7-Jul-05	EN0533S070705	Summa Canister	19.4	0.6	0.0	1.64	N	N			µg/m3		**34**		**660**		<	3.2	U	<	3.2	U	<	2.1	U	**31**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
EN04-33 Continued	EN05-33S	7.5	24-Aug-05	EN0533S082405	Summa Canister	19.2	1.0	0.0	1.91	N	N			µg/m3		**28**		**480**		<	3.8	U	<	3.8	U	<	2.4	U	**31**		<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
	EN05-33S	7.5	24-Aug-05	DU11432082405	Summa Canister	19.2	1.0	0.0	1.83	N	N			µg/m3		**28**		**480**		<	3.6	U	<	3.6	U	<	2.3	U	**30**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
	EN05-33S	7.5	20-Sep-05	EN0533S092005	Summa Canister	19.3	0.9	0.0	1.64	N	N			µg/m3		**29**		**560**		<	3.2	U	<	3.2	U	<	2.1	U	**37**		<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
	EN05-33S	7.5	11-Oct-05	EN0533S101105	Summa Canister	19.8	0.9	0.0	1.71	N	N			µg/m3		**29**		**560**		<	4.2	U	<	4.2	U	<	3.1	U	**38**		<	4.2	U	<	4.3	U	<	3.2	U	<	3.8	U	<	7.3	U
	EN05-33S	7.5	14-Dec-05	EN0533S121405	Summa Canister	19.8	0.3	0.0	1.58	N	N			µg/m3		**5.7**		**96**			**4.0**		<	3.1	U	<	2.0	U	**9.2**		<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
	EN05-33S	7.5	16-Feb-06	EN0533S021606	Summa Canister	19.7	0.0	0.0	1.61	N	N			µg/m3	<	5.5	U	**60**		<	3.2	U	<	3.2	U	<	2.0	U	**5.0**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN05-33S	7.5	6-Apr-06	EN0533S040606	Summa Canister	20.5	0.4	0.1	1.61	N	N			µg/m3	<	5.5	U	**84**		<	3.2	U	<	3.2	U	<	2.0	U	**6.8**		<	3.2	U	<	3.2	U	<	2.1	U	<	2.8	U	<	6.2	U
	EN05-33S	7.5	21-Jun-06	EN0533S062106	Summa Canister	20.8	0.3	0.0	1.79	N	N			µg/m3		**16**		**230**		<	3.5	U	<	3.5	U	<	2.3	U	**10**		<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
	EN05-33S	7.5	16-Aug-06	EN0533S081606	Summa Canister	18.9	1.0	0.0	1.68	N	N			µg/m3		**34**		**440**		<	3.3	U	<	3.3	U	<	2.1	U	**25**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
	EN05-33I21	21.5	21-Apr-05	EN0533I21042105	Summa Canister	20.5	0.0	0.0	28	N	N			µg/m3		**250**		**5,800**		<	56	U	<	56	U	<	36	U	**260**		<	56	U	<	57	U	<	37	U	<	49	U	<	110	U
	EN05-33I21	21.5	25-May-05	EN0533I21052505	Summa Canister	20.1	0.4	0.0	5.45	N	N			µg/m3		**120**		**3,900**		<	11	U	<	11	U	<	7.0	U	**210**		<	11	U	<	11	U	<	7.2	U	<	9.5	U	<	21	U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-32 Continued	EN05-33I21	21.5	23-Jun-05	EN0533I21062305	Summa Canister	20.3	0.3	0.0	7.48	N	N			µg/m3	**170**	**4,800**	< 15 U	< 15 U	< 9.6 U	**220**	< 15 U	< 15 U	< 9.9 U	< 13 U	< 29 U
	EN05-33I21	21.5	7-Jul-05	EN0533I21070705	Summa Canister	20.0	0.3	0.0	10.2	N	N			µg/m3	**210**	**6,200**	< 20 U	< 20 U	< 13 U	**290**	< 20 U	< 21 U	< 13 U	< 18 U	< 39 U
	EN05-33I21	21.5	24-Aug-05	EN0533I21082405	Summa Canister	19.6	0.4	0.0	5.7	N	N			µg/m3	**160**	**4,600**	< 11 U	< 11 U	< 7.3 U	**250**	< 11 U	< 12 U	< 7.5 U	< 9.9 U	< 22 U
	EN05-33I21	21.5	20-Sep-05	EN0533I21092005	Summa Canister	19.5	0.9	0.0	7	N	N			µg/m3	**210**	**7,000**	**14**	< 14 U	< 8.9 U	**340**	< 14 U	< 14 U	< 9.2 U	< 12 U	< 27 U
	EN05-33I21	21.5	11-Oct-05	EN0533I21101105	Summa Canister	19.8	0.7	0.0	13.1	N	N			µg/m3	**220**	**6,800**	< 26 U	< 26 U	< 17 U	**320**	< 26 U	< 26 U	< 17 U	< 23 U	< 50 U
	EN05-33I21	21.5	14-Dec-05	EN0533I21121405	Summa Canister	19.4	1.0	0.0	6.44	N	N			µg/m3	**170**	**4,900**	**17**	< 13 U	< 8.2 U	**250**	< 13 U	< 13 U	< 8.5 U	< 11 U	< 25 U
	EN05-33I21	21.5	16-Feb-06	EN0533I21021606	Summa Canister	19.7	0.0	0.0	4.29	N	N			µg/m3	**110**	**3,400**	< 8.5 U	< 8.5 U	< 5.5 U	**170**	< 8.5 U	< 8.7 U	< 5.7 U	< 7.4 U	< 16 U
	EN05-33I21	21.5	6-Apr-06	EN0533I21040606	Summa Canister	20.3	0.7	0.1	5.27	N	N			µg/m3	**150**	**4,200**	**10**	< 10 U	< 6.7 U	**210**	< 10 U	< 11 U	< 7.0 U	< 9.2 U	< 20 U
	EN05-33I21	21.5	21-Jun-06	EN0533I21062106	Summa Canister	21	0.4	0.0	4.77	N	N			µg/m3	**120**	**3,400**	< 9.4 U	< 9.4 U	< 6.1 U	**130**	< 9.4 U	< 9.6 U	< 6.3 U	< 8.3 U	< 18 U
	EN05-33I21	21.5	16-Aug-06	EN0533I21081606	Summa Canister	19.4	0.5	0.0	8.55	N	N			µg/m3	**180**	**5,300**	< 17 U	< 17 U	< 11 U	**240**	< 17 U	< 17 U	< 11 U	< 15 U	< 33 U
	EN05-33I29	29	21-Apr-05	EN0533I29042105	Summa Canister	20.5	0.0	0.0	1.96	N	N			µg/m3	**420**	**9,600**	**49**	< 35 U	< 22 U	**760**	< 35 U	< 35 U	< 23 U	< 30 U	< 67 U
	EN05-33I29	29	25-May-05	EN0533I29052505	Summa Canister	20.1	0.6	0.0	1.87	N	N			µg/m3	**370**	**8,700**	**48**	< 24 U	< 16 U	**640**	< 24 U	< 25 U	< 16 U	< 22 U	< 48 U
	EN05-33I29	29	23-Jun-05	EN0533I29062305	Summa Canister	20.4	0.5	0.0	1.71	N	N			µg/m3	**420**	**9,400**	**57**	< 36 U	< 23 U	**570**	< 36 U	< 37 U	< 24 U	< 32 U	< 70 U
	EN05-33I29	29	7-Jul-05	EN0533I29070705	Summa Canister	20.2	0.5	0.0	23.9	N	N			µg/m3	**450**	**11,000**	**58**	< 47 U	< 30 U	**650**	< 47 U	< 48 U	< 32 U	< 42 U	< 92 U
	EN05-33I29	29	24-Aug-05	EN0533I29082405	Summa Canister	19.9	0.5	0.0	9.55	N	N			µg/m3	**340**	**7,700**	**46**	< 19 U	< 12 U	**550**	< 19 U	< 19 U	< 13 U	< 16 U	< 36 U
	EN05-33I29	29	20-Sep-05	EN0533I29092005	Summa Canister	19.8	0.6	0.0	6.72	N	N			µg/m3	**340**	**7,300**	**44**	< 13 U	< 8.6 U	**500**	< 13 U	< 14 U	< 8.9 U	< 12 U	< 26 U
	EN05-33I29	29	20-Sep-05	DU94913092005	Summa Canister	19.8	0.6	0.0	14.3	N	N			µg/m3	**300**	**6,800**	**42**	< 28 U	< 18 U	**460**	< 28 U	< 29 U	< 19 U	< 25 U	< 55 U
	EN05-33I29	29	11-Oct-05	EN0533I29101105	Summa Canister	19.7	0.7	0.0	17.9	N	N			µg/m3	**660**	**12,000**	**48**	< 35 U	< 23 U	**700**	< 35 U	< 36 U	< 24 U	< 31 U	< 68 U
	EN05-33I29	29	14-Dec-05	EN0533I29121405	Summa Canister	19.4	1.0	0.0	10.9	N	N			µg/m3	**340**	**8,000**	**52**	< 22 U	< 14 U	**590**	< 22 U	< 22 U	< 14 U	< 19 U	< 42 U
	EN05-33I29	29	16-Feb-06	EN0533I29021606	Summa Canister	19.7	0.0	0.0	7.9	N	N			µg/m3	**280**	**7,400**	**38**	< 16 U	< 10 U	**540**	< 16 U	< 16 U	< 10 U	< 14 U	< 30 U
	EN05-33I29	29	6-Apr-06	EN0533I29040606	Summa Canister	20.1	0.9	0.1	13.4	N	N			µg/m3	**420**	**9,000**	**53**	< 26 U	< 17 U	**550**	< 26 U	< 27 U	< 18 U	< 23 U	< 51 U
	EN05-33I29	29	21-Jun-06	EN0533I29062106	Summa Canister	20.9	0.5	0.0	8.04	N	N			µg/m3	**330**	**7,600**	**34**	< 16 U	< 10 U	**370**	< 16 U	< 16 U	< 11 U	< 14 U	< 31 U
	EN05-33I29	29	16-Aug-06	EN0533I29081606	Summa Canister	19.5	0.6	0.0	20.7	N	N			µg/m3	**510**	**12,000**	**65**	< 41 U	< 26 U	**720**	< 41 U	< 42 U	< 27 U	< 36 U	< 79 U
	EN05-33D	32	21-Apr-05	EN0533D042105	Summa Canister	20.5	0.0	0.0	22.4	N	N			µg/m3	**400**	**9,600**	**56**	< 44 U	< 29 U	**860**	< 44 U	< 45 U	< 30 U	< 39 U	< 86 U
	EN05-33D	32	25-May-05	EN0533D052505	Summa Canister	20.2	0.6	0.0	13.5	N	N			µg/m3	**420**	**9,600**	**62**	< 27 U	< 17 U	**760**	< 27 U	< 27 U	< 18 U	< 23 U	< 52 U
	EN05-33D	32	23-Jun-05	EN0533D062305	Summa Canister	20.6	0.5	0.0	15.3	N	N			µg/m3	**460**	**10,000**	**61**	< 30 U	< 20 U	**700**	< 30 U	< 31 U	< 20 U	< 26 U	< 59 U
	EN05-33D	32	7-Jul-05	EN0533D070705	Summa Canister	20.3	0.5	0.0	22.8	N	N			µg/m3	**490**	**11,000**	**65**	< 45 U	< 29 U	**750**	< 45 U	< 46 U	< 30 U	< 40 U	< 87 U
	EN05-33D	32	24-Aug-05	EN0533D082405	Summa Canister	19.8	0.5	0.0	11.7	N	N			µg/m3	**330**	**8,000**	**49**	< 23 U	< 15 U	**610**	< 23 U	< 24 U	< 15 U	< 20 U	< 45 U
	EN05-33D	32	20-Sep-05	EN0533D092005	Summa Canister	19.7	0.5	0.0	18.3	N	N			µg/m3	**430**	**11,000**	**54**	< 36 U	< 23 U	**760**	< 36 U	< 37 U	< 24 U	< 32 U	< 70 U
	EN05-33D	32	11-Oct-05	EN0533D101105	Summa Canister	20.0	0.7	0.0	17.9	N	N			µg/m3	**470**	**12,000**	**50**	< 35 U	< 23 U	**810**	< 35 U	< 36 U	< 24 U	< 31 U	< 68 U
	EN05-33D Dup.	32	11-Oct-05	DU9374101105	Summa Canister	20.0	0.7	0.0	17.9	N	N			µg/m3	**480**	**12,000**	**57**	< 35 U	< 23 U	**840**	< 35 U	< 36 U	< 24 U	< 31 U	< 68 U
	EN05-33D	32	14-Dec-05	EN0533D121405	Summa Canister	19.2	1.1	0.0	10.7	N	N			µg/m3	**280**	**6,600**	**45**	< 21 U	< 14 U	**500**	< 21 U	< 22 U	< 14 U	< 18 U	< 41 U
	EN05-33D	32	16-Feb-06	EN0533D021606	Summa Canister	19.7	0.0	0.0	12.9	N	N			µg/m3	**350**	**8,400**	**43**	< 26 U	< 16 U	**620**	< 26 U	< 26 U	< 17 U	< 22 U	< 49 U
	EN05-33D	32	6-Apr-06	EN0533D040606	Summa Canister	20.1	0.9	0.1	16.8	N	N			µg/m3	**470**	**10,000**	**65**	< 33 U	< 21 U	**660**	< 33 U	< 34 U	< 22 U	< 29 U	< 64 U

Table B.1
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SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-33 Continued	EN05-33D	32	21-Jun-06	EN0533D062106	Summa Canister	21.1	0.4	0.0	2.49	N	N			µg/m3	**53**	**1,100**	**6.5**	< 4.9 U	< 3.2 U	**57**	< 4.9 U	< 5.0 U	< 3.3 U	**32**	< 9.5 U
	EN05-33D	32	17-Aug-06	EN0533D081706	Summa Canister	19.2	0.8	0.0	15.2	N	N			µg/m3	**470**	**11,000**	**60**	< 30 U	< 19 U	**720**	< 30 U	< 31 U	< 20 U	< 26 U	< 58 U
Implant Location **EN05-34**	EN05-34S	8	21-Apr-05	EN0534S042105	Summa Canister	20.2	0.1	0.1	1.68	N	N			µg/m3	< 5.7 U	**13**	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
Monitoring Well **EN-304**	EN05-34S	8	26-May-05	EN0534S052605	Summa Canister	20.4	0.2	0.0	8.75	N	N			µg/m3	< 5.9 U	**15**	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
Water Table Depth (ft) *16*	EN05-34S	8	23-Jun-05	EN0534S062305	Summa Canister	18.9	1.0	0.0	2.06	N	N			µg/m3	**8.4**	**42**	**14**	< 4.1 U	< 2.6 U	< 5.6 U	< 4.1 U	**8.7**	< 2.7 U	< 3.6 U	< 7.9 U
	EN05-34S	8	7-Jul-05	EN0534S070705	Summa Canister	18.4	0.8	0.0	1.96	N	N			µg/m3	**13**	**60**	< 3.9 U	< 3.9 U	< 2.5 U	**5.7**	< 3.9 U	< 4.0 U	< 2.6 U	< 3.4 U	< 7.5 U
	EN05-34S	8	25-Aug-05	EN0534S082505	Summa Canister	NR	NR	NR	1.68	N	N			µg/m3	**9.0**	**45**	< 3.3 U	< 3.3 U	< 2.1 U	**5.2**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN05-34S	8	21-Sep-05	EN0534S092105	Summa Canister	19.4	1.1	0.0	2.23	N	N			µg/m3	**8.0**	**42** J	< 4.4 U	< 4.4 U	< 2.8 U	< 6.1 U	< 4.4 U	< 4.5 U	< 2.9 U	< 3.9 U	< 8.5 U
	EN05-34S	8	21-Sep-05	DU31792092105	Summa Canister	19.4	1.1	0.0	1.83	N	N			µg/m3	< 6.2 U	**18** J	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN05-34S	8	13-Oct-05	EN0534S101305	Summa Canister	18.9	0.9	0.0	1.71	N	N			µg/m3	**7.4**	**35**	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN05-34S	8	15-Dec-05	EN0534S121505	Summa Canister	20.2	0.3	0.1	1.55	N	N			µg/m3	< 5.2 U	**9.9**	< 3.1 U	< 3.1 U	< 2.0 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 2.7 U	< 5.9 U
	EN05-34S	8	16-Feb-06	EN0534S021606	Summa Canister	21.1	0.1	0.0	1.71	N	N			µg/m3	< 5.8 U	**7.7**	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN05-34S	8	5-Apr-06	EN0534S040506	Summa Canister	19.7	0.0	0.0	1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	**28**	< 6.3 U
	EN05-34S	8	21-Jun-06	EN0534S062106	Summa Canister	20.5	0.8	0.0	1.79	N	N			µg/m3	**9.3**	**21**	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN05-34S	8	17-Aug-06	EN0534S081706	Summa Canister	19.6	1.6	0.0	1.68	N	N			µg/m3	**9.9**	**46**	< 3.3 U	< 3.3 U	< 2.1 U	**5.0**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN05-34I	11	21-Apr-05	EN0534I042105	Summa Canister	20.3	0.2	0.0	1.64	N	N			µg/m3	**7.9**	**110**	< 3.2 U	< 3.2 U	< 2.1 U	**10**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN05-34I	11	26-May-05	EN0534I052605	Summa Canister	20.4	0.1	0.0	8.4	N	N			µg/m3	**17**	**160**	< 3.3 U	< 3.3 U	< 2.1 U	**20**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN05-34I	11	23-Jun-05	EN0534I062305	Summa Canister	19.1	0.6	0.0	1.87	N	N			µg/m3	**26**	**370**	< 3.7 U	< 3.7 U	< 2.4 U	**26**	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
	EN05-34I	11	7-Jul-05	EN0534I070705	Summa Canister	18.7	0.8	0.0	1.83	N	N			µg/m3	**39**	**520**	< 3.6 U	< 3.6 U	< 2.3 U	**35**	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	EN05-34I	11	25-Aug-05	EN0534I082505	Summa Canister	19.6	1.0	0.0	1.79	N	N			µg/m3	**36**	**500**	< 3.5 U	< 3.5 U	< 2.3 U	**37**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN05-34I	11	21-Sep-05	EN0534I092105	Summa Canister	19.1	1.1	0.0	1.55	N	N			µg/m3	**33**	**420**	< 3.1 U	< 3.1 U	< 2.0 U	**33**	< 3.1 U	< 3.1 U	< 2.0 U	< 2.7 U	< 5.9 U
	EN05-34I	11	13-Oct-05	EN0534I101305	Summa Canister	18.6	1.2	0.0	1.68	N	N			µg/m3	**37**	**520**	< 3.3 U	< 3.3 U	< 2.1 U	**39**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	EN05-34I	11	15-Dec-05	EN0534I121505	Summa Canister	20.2	0.6	0.0	1.64	N	N			µg/m3	**17**	**250**	< 3.2 U	< 3.2 U	< 2.1 U	**22**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN05-34I	11	16-Feb-06	EN0534I021606	Summa Canister	21.0	0.3	0.0	1.64	N	N			µg/m3	**8.6**	**130**	< 3.2 U	< 3.2 U	< 2.1 U	**12**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN05-34I	11	5-Apr-06	EN0534I040506	Summa Canister	19.7	0.2	0.0	1.64	N	N			µg/m3	**6.4**	**41**	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	**19**	< 6.3 U
	EN05-34I	11	21-Jun-06	EN0534I062106	Summa Canister	20.7	0.6	0.0	1.75	N	N			µg/m3	**23**	**280**	< 3.5 U	< 3.5 U	< 2.2 U	**19**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	EN05-34I	11	17-Aug-06	EN0534I081706	Summa Canister	19.8	1.3	0.0	1.71	N	N			µg/m3	**48**	**480**	< 3.4 U	< 3.4 U	< 2.2 U	**28**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	EN05-34D	13.5	21-Apr-05	EN0534D042105	Summa Canister	20.3	0.1	0.0	1.64	N	N			µg/m3	**18**	**190**	< 3.2 U	< 3.2 U	< 2.1 U	**20**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN05-34D	13.5	26-May-05	EN0534D052605	Summa Canister	20.2	0.2	0.0	8.95	N	N			µg/m3	**20**	**180**	< 3.5 U	< 3.5 U	< 2.3 U	**24**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	EN05-34D	13.5	23-Jun-05	EN0534D062305	Summa Canister	18.5	1.0	0.0	1.79	N	N			µg/m3	**23**	**360**	< 3.5 U	< 3.5 U	< 2.3 U	**30**	< 3.5 U	< 3.6 U	**18**	< 3.1 U	< 6.8 U
	EN05-34D	13.5	7-Jul-05	EN0534D070705	Summa Canister	18.8	0.9	0.0	1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN05-34D	13.5	25-Aug-05	EN0534D082505	Summa Canister	19.7	1.0	0.0	1.96	N	N			µg/m3	**34**	**500**	< 3.9 U	< 3.9 U	< 2.5 U	**46**	< 3.9 U	< 4.0 U	< 2.6 U	< 3.4 U	< 7.5 U
	EN05-34D	13.5	21-Sep-05	EN0534D092105	Summa Canister	19.1	1.1	0.0	1.87	N	N			µg/m3	**24**	**360**	< 3.7 U	< 3.7 U	< 2.4 U	**30**	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
	EN05-34D	13.5	13-Oct-05	EN0534D101305	Summa Canister	18.6	1.3	0.0	1.71	N	N			µg/m3	**27**	**470**	< 3.4 U	< 3.4 U	< 2.2 U	**38**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U

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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
EN04-34 Continued		EN05-34D	13.5	15-Dec-05	EN0534D121505	Summa Canister	20.0	0.8	0.1	1.55	N	N			µg/m3	**29**	**450**	< 3.1 U	< 3.1 U	< 2.0 U	**40**	< 3.1 U	< 3.1 U	< 2.0 U	< 2.7 U	< 5.9 U
		EN05-34D	13.5	16-Feb-06	EN0534D021606	Summa Canister	21.0	0.4	0.0	1.59	N	N			µg/m3	**16**	**250**	< 3.2 U	< 3.2 U	< 2.0 U	**20**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.1 U
		EN05-34D	13.5	5-Apr-06	EN0534D040506	Summa Canister	19.8	0.2	0.0	1.64	N	N			µg/m3	**16**	**190**	< 3.2 U	< 3.2 U	< 2.1 U	**15**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
		EN05-34D	13.5	21-Jun-06	EN0534D062106	Summa Canister	20.8	0.5	0.0	1.75	N	N			µg/m3	**22**	**300**	< 3.5 U	< 3.5 U	< 2.2 U	**23**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
		EN05-34D	13	17-Aug-06	EN0534D081706	Summa Canister	19.5	1.1	0.0	1.71	N	N			µg/m3	**40**	**500**	< 3.4 U	< 3.4 U	< 2.2 U	**36**	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
Water Table Depth (ft)	*40*	06-18S	8	24-Jan-06	06-18S	Tedlar Bag				1	Y	N	ND		µg/m3	< 10 U	< 10 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 20 U	NR	< 20 U
Implant Location	**EN06-35**	EN06-35S	8	15-Feb-06	EN0635S021506	Summa Canister	20.4	0.0	0.0	2.38	N	N			µg/m3	< 8.1 U	< 6.4 U	< 4.7 U	< 4.7 U	< 3.0 U	< 6.5 U	< 4.7 U	< 4.8 U	< 3.1 U	< 4.1 U	< 9.1 U
Monitoring Well	**EN-460A**	EN06-35S	8	4-Apr-06	EN0635S040406	Summa Canister	20.6	0.1	0.1	1.61	N	Y	ND		µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
		EN06-35S	8	20-Jun-06	EN0635S062006	Summa Canister	20.1	0.8	0.0	1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
		EN06-35S	8	15-Aug-06	EN0635S081506	Summa Canister	20.3	1.6	0.0	2.5	N	N			µg/m3	< 8.5 U	< 6.7 U	< 5.0 U	< 5.0 U	< 3.2 U	< 6.8 U	< 5.0 U	< 5.0 U	< 3.3 U	**4.5**	< 9.6 U
		06-18I17	17	26-Jan-06	06-18I17	Tedlar Bag				1	Y	N	ND		µg/m3	< 10 U	< 10 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 20 U	NR	< 20 U
		EN06-35I16	16	15-Feb-06	EN0635I16021506	Summa Canister	20.2	0.0	0.0	2.23	N	N			µg/m3	< 7.6 U	< 6.0 U	< 4.4 U	< 4.4 U	< 2.8 U	< 6.1 U	< 4.4 U	< 4.5 U	< 2.9 U	< 3.9 U	< 8.5 U
		EN06-35I16	16	4-Apr-06	EN0635I16040406	Summa Canister	20.5	0.5	0.0	1.71	N	Y	ND		µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
		EN06-35I16	16	20-Jun-06	EN0635I16062006	Summa Canister	20.1	0.7	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
		EN06-35I16	16	15-Aug-06	EN0635I16081506	Summa Canister	20	1.9	0.0	1.91	N	N			µg/m3	< 6.5 U	< 5.1 U	< 3.8 U	< 3.8 U	< 2.4 U	< 5.2 U	< 3.8 U	< 3.9 U	< 2.5 U	< 3.3 U	< 7.3 U
		06-18I26	26	26-Jan-06	06-18I26	Tedlar Bag				1	Y	N	ND		µg/m3	< 10 U	< 10 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 20 U	NR	< 20 U
		EN06-35I24	24	15-Feb-06	EN0635I24021506	Summa Canister	20.1	0.0	0.0	2.12	N	N			µg/m3	< 7.2 U	**45**	< 4.2 U	< 4.2 U	< 2.7 U	**11**	< 4.2 U	< 4.3 U	< 2.8 U	< 3.7 U	< 8.1 U
		EN06-35I24	24	4-Apr-06	EN0635I24040406	Summa Canister	20.4	0.7	0.0	1.64	N	Y	ND		µg/m3	< 5.6 U	**35**	< 3.2 U	< 3.2 U	< 2.1 U	**11**	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
		EN06-35I24	24	20-Jun-06	EN0635I24062006	Summa Canister	20.1	0.8	0.0	1.68	N	N			µg/m3	< 5.7 U	**33**	< 3.3 U	< 3.3 U	< 2.1 U	**8.1**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
		EN06-35I24	24	15-Aug-06	EN0635I24081506	Summa Canister	20.3	1.0	0.0	2.01	N	N			µg/m3	< 6.8 U	**52**	< 4.0 U	< 4.0 U	< 2.6 U	**12**	< 4.0 U	< 4.1 U	< 2.6 U	< 3.5 U	< 7.7 U
		EN06-35I24	24	15-Aug-06	DU22960081506	Summa Canister	20.3	1.0	0.0	1.87	N	N			µg/m3	< 6.3 U	**55**	< 3.7 U	< 3.7 U	< 2.4 U	**12**	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
		EN06-35D	34	15-Feb-06	EN0635D021506	Summa Canister	20.1	0.0	0.0	2.2	N	N			µg/m3	< 7.5 U	**110**	< 4.4 U	< 4.4 U	< 2.8 U	**25**	< 4.4 U	< 4.4 U	< 2.9 U	**4.0**	< 8.4 U
		EN06-35D	34	4-Apr-06	EN0635D040406	Summa Canister	20.5	0.7	0.1	1.58	N	Y	ND		µg/m3	< 5.4 U	**90**	< 3.1 U	< 3.1 U	< 2.0 U	**24**	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
		EN06-35D	34	20-Jun-06	EN0635D062006	Summa Canister	20.2	0.6	0.0	1.87	N	N			µg/m3	< 6.3 U	**93**	< 3.7 U	< 3.7 U	< 2.4 U	**23**	< 3.7 U	< 3.8 U	< 2.5 U	< 3.2 U	< 7.2 U
		EN06-35D Dup.	34	20-Jun-06	DU34625062006	Summa Canister	20.2	0.6	0.0	1.79	N	N			µg/m3	< 6.1 U	**92**	< 3.5 U	< 3.5 U	< 2.3 U	**24**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
		EN06-35D	34	15-Aug-06	EN0635D081506	Summa Canister	20.3	0.8	0.0	1.83	N	N			µg/m3	< 6.2 U	**160**	< 3.6 U	< 3.6 U	< 2.3 U	**34**	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
Implant Location	**EN06-36**	06-12S	8	25-Jan-06	06-12S	Tedlar Bag				1	Y	N	ND		µg/m3	< 10 U	< 10 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 20 U	NR	< 20 U
Monitoring Well	**EN-459A**	EN06-36S	8	15-Feb-06	EN0636S021506	Summa Canister	20.7	0.0	0.0	1.52	N	N			µg/m3	< 5.2 U	< 4.1 U	< 3.0 U	< 3.0 U	< 1.9 U	**4.4**	< 3.0 U	< 3.1 U	< 2.0 U	< 2.6 U	< 5.8 U
		EN06-36S	8	4-Apr-06	EN0636S040406	Summa Canister	21	0.3	0.0	1.68	N	Y	ND		µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	**7.1**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
		EN06-36S	8	21-Jun-06	EN0636S062106	Summa Canister	20.4	0.6	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	**150**	< 7.0 U
		EN06-36S	8	15-Aug-06	EN0636S081506	Summa Canister	20.2	1.4	0.0	1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	**23**	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
Water Table Depth (ft)	*40*	06-12I17	17	26-Jan-06	06-12I17	Tedlar Bag				1	Y	N	ND		µg/m3	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**110**	< 10 U	< 10 U	< 20 U	NR	< 20 U
		EN06-36I12	12	15-Feb-06	EN0636I12021506	Summa Canister	20.8	0.0	0.0	1.52	N	N			µg/m3	< 5.2 U	< 4.1 U	< 3.0 U	< 3.0 U	< 1.9 U	**28**	< 3.0 U	< 3.1 U	< 2.0 U	< 2.6 U	< 5.8 U
		EN06-36I12	12	4-Apr-06	EN0636I12040406	Summa Canister	21	0.4	0.0	1.68	N	Y	ND		µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	**28**	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
		EN06-36I12	12	21-Jun-06	EN0636I12062106	Summa Canister	20.7	0.3	0.0	1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	**27**	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
		EN06-36I12	12	15-Aug-06	EN0636I12081506	Summa Canister	19.8	1.2	0.0	1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	**50**	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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SV Mon Point Designation		Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene			Trichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Vinyl Chloride			1,1,1-Trichloroethane			1,1-Dichloroethene			1,1-Dichloroethane			Chloroethane			Methylene Chloride			Freon 113		
EN06-6 Continued		06-12AI26	26	26-Jan-06	06-12AI26	Tedlar Bag				1	Y	N	ND		µg/m3	<	10	U		**79**		<	10	U	<	10	U	<	10	U		**320**		<	10	U	<	10	U	<	20	U		NR		<	20	U
		EN06-36I22	22	15-Feb-06	EN0636I22021506	Summa Canister	20.9	0.0	0.0	1.52	N	N			µg/m3	<	5.2	U		**300**			**7.2**		<	3.0	U	<	1.9	U		**380**			**4.9**			**4.8**		<	2.0	U	<	2.6	U	<	5.8	U
		EN06-36I22	22	4-Apr-06	EN0636I22040406	Summa Canister	20.5	1.2	0.0	1.64	N	Y	ND		µg/m3	<	5.6	U		**270**			**6.2**		<	3.2	U	<	2.1	U		**340**			**8.9**			**3.6**		<	2.2	U	<	2.8	U	<	6.3	U
		EN06-36I22	22	21-Jun-06	EN0636I22062106	Summa Canister	20.7	0.5	0.0	1.68	N	N			µg/m3	<	5.7	U		**72**		<	3.3	U	<	3.3	U	<	2.1	U		**210**		<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN06-36I22	22	15-Aug-06	EN0636I22081506	Summa Canister	20.2	0.8	0.0	1.83	N	N			µg/m3	<	6.2	U		**80**		<	3.6	U	<	3.6	U	<	2.3	U		**260**		<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		06-12AD	35	26-Jan-06	06-12AD	Tedlar Bag				1	Y	N	ND		µg/m3	<	10	U		**230**			**14**		<	10	U	<	10	U		**370**		<	10	U	<	10	U	<	20	U		NR		<	20	U
		EN06-36D	34	15-Feb-06	EN0636D021506	Summa Canister	20.7	0.0	0.0	1.52	N	N			µg/m3		**6.3**			**63**		<	3.0	U	<	3.0	U	<	1.9	U		**260**		<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
		EN06-36D	33	4-Apr-06	EN0636D040406	Summa Canister	20.7	0.9	0.0	1.68	N	Y	ND		µg/m3	<	5.7	U		**71**		<	3.3	U	<	3.3	U	<	2.1	U		**290**			**5.0**		<	3.4	U	<	2.2	U		**3.3**		<	6.4	U
		EN06-36D	33	21-Jun-06	EN0636D062106	Summa Canister	20.8	0.9	0.0	1.44	N	N			µg/m3	<	4.9	U		**250**			**5.2**		<	2.8	U	<	1.8	U		**230**			**4.3**			**2.9**		<	1.9	U	<	2.5	U	<	5.5	U
		EN06-36D	33	15-Aug-06	EN0636D081506	Summa Canister	20.4	0.9	0.0	1.75	N	N			µg/m3	<	5.9	U		**250**			**5.1**		<	3.5	U	<	2.2	U		**270**			**4.3**		<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
Implant Location	**EN06-37**	06-27S	8	26-Jan-06	06-27S	Tedlar Bag				1	Y	N	ND		µg/m3	<	10	U	<	10	U	<	10	U	<	10	U	<	20	U	<	10	U	<	10	U	<	10	U	<	20	U		NR		<	20	U
Monitoring Well	**EN-394**	EN06-37S	8	16-Feb-06	EN0637S021606	Summa Canister	20.2	0.0	0.0	1.68	N	N			µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		EN06-37S	8	6-Apr-06	EN0637S040606	Summa Canister	19.8	0.1	0.0	1.58	N	Y	ND		µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN06-37S	8	21-Jun-06	EN0637S062106	Summa Canister	20	1.6	0.0	1.79	N	N			µg/m3	<	6.1	U		**6.0**		<	3.5	U	<	3.5	U	<	2.3	U	<	4.9	U	<	3.5	U	<	3.6	U	<	2.4	U	<	3.1	U	<	6.8	U
		EN06-37S	8	16-Aug-06	EN0637S081606	Summa Canister	19.8	2.0	0.0	1.58	N	N			µg/m3	<	5.4	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
Water Table Depth (ft)	*22*	06-27I	14	26-Jan-06	06-27I	Tedlar Bag				1	Y	N	ND		µg/m3	<	10	U	<	10	U		**43**		<	10	U	<	20	U	<	10	U	<	10	U	<	10	U	<	20	U		NR		<	20	U
		EN06-37I	12	16-Feb-06	EN0637I021606	Summa Canister	19.2	0.0	0.0	1.64	N	N			µg/m3	<	5.6	U	<	4.4	U		**5.4**		<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN06-37I	12	6-Apr-06	EN0637I040606	Summa Canister	19.4	0.4	0.0	2.01	N	Y	1.5E-02		µg/m3	<	6.8	U	<	5.4	U	<	4.0	U	<	4.0	U	<	2.6	U	<	5.5	U	<	4.0	U	<	4.1	U	<	2.6	U	<	3.5	U	<	7.7	U
		EN06-37I	12	21-Jun-06	EN0637I062106	Summa Canister	19.8	1.6	0.0	1.83	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	U	<	7.0	U
		EN06-37I	12	16-Aug-06	EN0637I081606	Summa Canister	19.5	1.8	0.0	1.75	N	N			µg/m3		**51**			**7.5**			**4.7**		<	3.5	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		06-27D	20	26-Jan-06	06-27D	Tedlar Bag				1			ND		µg/m3	<	10	U		**34**			**600**			**24**		<	20	U	<	10	U	<	10	U	<	20	U		NR		<	20	U
		EN06-37D	21	16-Feb-06	EN0637D021606	Summa Canister	19.7	0.0	0.0	1.64	N	N			µg/m3		**26**			**74**			**660**			**9.4**		<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U	<	2.8	U	<	6.3	U
		EN06-37D	21	6-Apr-06	EN0637D040606	Summa Canister	18.4	1.1	0.0	1.58	N	Y	ND		µg/m3		**25**			**62**			**500**			**13**		<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		EN06-37D	21	21-Jun-06	EN0637D062106	Summa Canister	19.3	1.4	0.0	1.96	N	N			µg/m3		**23**			**58**			**350**			**7.5**		<	2.5	U	<	5.3	U	<	3.9	U	<	4.0	U	<	2.6	U	<	3.4	U	<	7.5	U
		EN06-37D	21	16-Aug-06	EN0637D081606	Summa Canister	18.9	2.0	0.0	1.64	N	N			µg/m3		**12**			**30**			**160**			**5.9**		<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U		**40**		<	6.3	U
Blanks		Ambient Air	-5	25-Aug-04	AA01082504	Tedlar Bag				1	Y		1.4E-07																																		
		Ambient Air	-5	27-Aug-04	AA02082704	Tedlar Bag				1	Y		4.8E-07																																		
Equipment	Blanks	Equipment Blank		23-Aug-04	EB34119082304	Canister				1.71	N	N			µg/m3	<	5.9	U	<	4.7	U	<	3.4	U	<	3.4	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		Equipment Blank		24-Aug-04	EB34656082404	Canister				1.49	N	N			µg/m3	<	5.1	U	<	4.1	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.1	U	<	2.0	U		**4.0**		<	5.8	U
		Equipment Blank		25-Aug-04	EB33405082504	Canister				2.02	Y	N	1.9E-07		µg/m3	<	7.0	U	<	5.5	U	<	4.1	U	<	4.1	U	<	2.6	U	<	5.6	U	<	4.1	U	<	4.2	U	<	2.7	UJ	<	3.6	U	<	7.9	U
		Equipment Blank		26-Aug-04	EB9391082604	Canister				1.8	N	N			µg/m3	<	6.2	U	<	4.9	U	<	3.6	U	<	3.6	U	<	2.3	U	<	5.0	U	<	3.6	U	<	3.7	U	<	2.4	U	<	3.2	UJ	<	7.0	U
		Equipment Blank		27-Aug-04	EB94918082704	Canister				1.61	N	N			µg/m3	<	5.6	U	<	4.4	U	<	3.2	U	<	3.2	U	<	2.1	U	<	4.5	U	<	3.2	U	<	3.3	U	<	2.2	U		**8.3**		<	6.3	U
		Equipment Blank		20-Sep-04	EBSC68092004	Canister				1.52	N	N	ND		µg/m3	<	5.2	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	2.7	U	<	5.9	U
		Equipment Blank		21-Sep-04	EB9460092104	Canister				1.96	N	N	ND		µg/m3	<	6.8	U	<	5.4	U	<	3.9	U	<	3.9	U	<	2.5	U	<	5.4	U	<	3.9	U	<	4.0	U	<	2.6	U	<	3.5	U	<	7.6	U
		Equipment Blank		22-Sep-04	EBSC85092204	Canister				1.55	N	N	5.6E-08		µg/m3	<	5.3	U	<	4.2	U	<	3.1	U	<	3.1	U	<	2.0	U	<	4.3	U	<	3.1	U	<	3.2	U	<	2.1	U	<	2.7	U	<	6.0	U
		Equipment Blank		23-Sep-04	EBSC97092304	Canister				1.75	N	N	1.0E-07		µg/m3	<	6.0	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	4.8	U	<	3.5	U	<	3.6	U	<	2.3	U	<	3.1	U	<	6.8	U
		Equipment Blank		18-Oct-04	EBSC27101804	Canister				8.75	N	N	ND		µg/m3	<	5.9	U	<	4.7	U	<	3.5	U	<	4.2	U	<	2.2	U	<	4.8	U	<	3.5	U	<	3.5	U	<	2.3	U	<	3.0	U	<	6.7	U
		Equipment Blank		19-Oct-04	EBSC4101904	Canister				8.75	N	N	ND		µg/m3	<	6.5	U	<	5.1	U	<	3.8	U	<	4.5	U	<	2.4	U	<	5.2	U	<	3.8	U	<	3.9	U	<	2.5	U	<	3.3	U	<	7.3	U
		Equipment Blank		20-Oct-04	EBSC10102004	Canister				7.6	N	N	ND		µg/m3	<	5.2	U	<	4.1	U	<	3.0	U	<	3.6	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U
		Equipment Blank		21-Oct-04	EB21026102104	Canister				8.55	N	N	ND		µg/m3	<	5.8	U	<	4.6	U	<	3.4	U	<	4.1	U	<	2.2	U	<	4.7	U	<	3.4	U	<	3.5	U	<	2.2	U	<	3.0	U	<	6.6	U
		Equipment Blank		15-Nov-04	EB94908111504	Canister				1.41	N	N	ND		µg/m3	<	4.8	U	<	3.8	U	<	2.8	U	<	2.8	U	<	1.8	U	<	3.8	U	<	2.8	U	<	2.8	U	<	1.9	U	<	2.4	U	<	5.4	U
		Equipment Blank		16-Nov-04	EBSC88111604	Canister				1.68	N	N	ND		µg/m3	<	5.7	U	<	4.5	U	<	3.3	U	<	3.3	U	<	2.1	U	<	4.6	U	<	3.3	U	<	3.4	U	<	2.2	U	<	2.9	U	<	6.4	U
		Equipment Blank		17-Nov-04	EBSC98111704	Canister				1.52	N	N	ND		µg/m3	<	5.2	U	<	4.1	U	<	3.0	U	<	3.0	U	<	1.9	U	<	4.1	U	<	3.0	U	<	3.1	U	<	2.0	U	<	2.6	U	<	5.8	U

Table B.1
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Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113
Equipment Blanks	Equipment Blank		18-Nov-04	EBSC90111804	Canister				1.64	N	N	ND		µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		6-Dec-04	EB31786120604	Canister				1.68	N	N	ND		µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		7-Dec-04	EB3392120704	Canister				1.71	N	N	ND		µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	Equipment Blank		8-Dec-04	EB1144R120804	Canister				1.83	N	N	ND		µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	Equipment Blank		9-Dec-04	EB9390120904	Canister				1.49	N	N	ND		µg/m3	< 5.0 U	< 4.0 U	< 3.0 U	< 3.0 U	< 1.9 U	< 4.1 U	< 3.0 U	< 3.0 U	< 2.0 U	< 2.6 U	< 5.7 U
	Equipment Blank		10-Jan-05	EB34655011005	Canister				1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		11-Jan-05	EB23835011105	Canister				1.32	N	N			µg/m3	< 4.5 U	< 3.5 U	< 2.6 U	< 2.6 U	< 1.7 U	< 3.6 U	< 2.6 U	< 2.7 U	< 1.7 U	< 2.3 U	< 5.0 U
	Equipment Blank		12-Jan-05	EB33632011205	Canister				1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		13-Jan-05	EB94100011305	Canister				1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	**3.8**	< 6.3 U
	Equipment Blank		21-Feb-05	EB9456022105	Canister				1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		22-Feb-05	EB3393022205	Canister				1.55	N	N			µg/m3	< 5.2 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 2.7 U	< 5.9 U
	Equipment Blank		24-Feb-05	EBSC1022405	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		25-Feb-05	EB9337022505	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	**34**	< 6.4 U
	Equipment Blank		21-Mar-05	EB9443032105	Canister				1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		22-Mar-05	EBSC86032205	Canister				1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	Equipment Blank		23-Mar-05	EB9312032305	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		24-Mar-05	EB11833032405	Canister				1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		18-Apr-05	EBSC43041805	Canister				1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		19-Apr-05	EB33634041905	Canister				1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	Equipment Blank		20-Apr-05	EBSC97042005	Canister				1.79	N	N			µg/m3	**28**	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	Equipment Blank		21-Apr-05	EBSC7042105	Canister				1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		23-May-05	EBSC55052305	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		24-May-05	EBSC91052405	Canister				1.00	N	N			µg/m3	< 3.4 U	< 2.7 U	< 2.0 U	< 2.0 U	< 1.3 U	< 2.7 U	< 2.0 U	< 2.0 U	< 1.3 U	< 1.7 U	< 3.8 U
	Equipment Blank		25-May-05	EBSC82052505	Canister				8.2	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		26-May-05	EBSC62052605	Canister				8.95	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	Equipment Blank		21-Jun-05	EB9444062105	Canister				1.58	N	N			µg/m3	< 5.4 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.3 U	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
	Equipment Blank		22-Jun-05	EBSC72062205	Canister				1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	Equipment Blank		23-Jun-05	EBSC11062305	Canister				1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	**5.7**	< 6.8 U
	Equipment Blank		5-Jul-05	EBSC95070505	Canister				1.83	N	N			µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	Equipment Blank		6-Jul-05	EBSC39070605	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		7-Jul-05	EB9503070705	Canister				1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		8-Jul-05	EBSC90070805	Canister				1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		22-Aug-05	EBSC86082205	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		23-Aug-05	EBSC3082305	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		24-Aug-05	EBSC35082405	Canister				1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		25-Aug-05	EBSC100082505	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		19-Sep-05	EBSC51091905	Canister				1.75	N	N			µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	Equipment Blank		20-Sep-05	EBSC4092005	Canister				2.01	N	N			µg/m3	< 6.8 U	< 5.4 U	< 4.0 U	< 4.0 U	< 2.6 U	< 5.5 U	< 4.0 U	< 4.1 U	< 2.6 U	< 3.5 U	< 7.7 U
	Equipment Blank		10-Oct-05	EBSC64101005	Canister				1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	Equipment Blank		11-Oct-05	EBSC53101105	Canister				1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	Equipment Blank		12-Oct-05	EBSC33101205	Canister				1.79	N	N			µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	Equipment Blank		13-Oct-05	EBSC70101305	Canister				1.58	N	N			µg/m3	< 5.4 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.3 U	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
	Equipment Blank		12-Dec-05	EBSC84121205	Canister				1.71	N	N			µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	Equipment Blank		13-Dec-05	EBSC51121305	Canister				1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		14-Dec-05	EBSC65121405	Canister				1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		15-Dec-05	EB9461121505	Canister				1.55	N	N			µg/m3	< 5.2 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 2.7 U	< 5.9 U
	Equipment Blank		14-Feb-06	EBSC4021406	Canister				1.61	N	N			µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		15-Feb-06	EB9366021506	Canister				1.64	N	N			µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		16-Feb-06	EB94915021606	Canister				1.68	N	N			µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		3-Apr-06	EB34145040306	Canister				1.68					µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		4-Apr-06	EBSC43040406	Canister				1.83					µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	Equipment Blank		6-Apr-06	EBSC47040606	Canister				1.79					µg/m3	< 6.1 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 4.9 U	< 3.5 U	< 3.6 U	< 2.4 U	< 3.1 U	< 6.8 U
	Equipment Blank		6-Apr-06	EBSC41040506	Canister				1.71					µg/m3	< 5.8 U	< 4.6 U	< 3.4 U	< 3.4 U	< 2.2 U	< 4.7 U	< 3.4 U	< 3.5 U	< 2.2 U	< 3.0 U	< 6.6 U
	Equipment Blank		19-Jun-06	EBSC76061906	Canister				1.61					µg/m3	< 5.5 U	< 4.3 U	< 3.2 U	< 3.2 U	< 2.0 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 U
	Equipment Blank		20-Jun-06	EBSC8062006	Canister				1.68					µg/m3	< 5.7 U	< 4.5 U	< 3.3 U	< 3.3 U	< 2.1 U	< 4.6 U	< 3.3 U	< 3.4 U	< 2.2 U	< 2.9 U	< 6.4 U
	Equipment Blank		21-Jun-06	EBSC29062106	Canister				1.83					µg/m3	< 6.2 U	< 4.9 U	< 3.6 U	< 3.6 U	< 2.3 U	< 5.0 U	< 3.6 U	< 3.7 U	< 2.4 U	< 3.2 U	< 7.0 U
	Equipment Blank		22-Jun-06	EBSC66062206	Canister				1.58					µg/m3	< 5.4 U	< 4.2 U	< 3.1 U	< 3.1 U	< 2.0 U	< 4.3 U	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6.0 U
	Equipment Blank		14-Aug-06	EBSC80081406	Canister				2.46					µg/m3	< 8.3 U	< 6.6 U	< 4.9 U	< 4.9 U	< 3.1 U	< 6.7 U	< 4.9 U	< 5.0 U	< 3.2 U	< 4.3 U	< 9.4 U
	Equipment Blank		15-Aug-06	EBSC21081506	Canister				1.75					µg/m3	< 5.9 U	< 4.7 U	< 3.5 U	< 3.5 U	< 2.2 U	< 4.8 U	< 3.5 U	< 3.5 U	< 2.3 U	< 3.0 U	< 6.7 U
	Equipment Blank		16-Aug-06	EBSC96081606	Canister				1.64					µg/m3	< 5.6 U	< 4.4 U	< 3.2 U	< 3.2 U	< 2.1 U	< 4.5 U	< 3.2 U	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	Equipment Blank		17-Aug-06	EB35621081706	Canister				2.01					µg/m3	< 6.8 U	< 5.4 U	< 4.0 U	< 4.0 U	< 2.6 U	< 5.5 U	< 4.0 U	< 4.1 U	< 2.6 U	< 3.5 U	< 7.7 U

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

SV Mon Point Designation	Sampling Point Designation	Sampling Depth	Sampling Date	Field Sample ID	Sample Type	O_2 (%)	CO_2 (%)	CH_4 (%)	Dilution Factor	SF_6 Applied?	He Applied?	Result % Volume	Flagged	Units of VOC Results	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Chloroethane	Methylene Chloride	Freon 113

Notes:

1. This table is a summary of the findings of the program of long-term soil vapor monitoring being conducted as part of the Comprehensive Operations, Management, and Monitoring Program associated with IBM's activities in Endicott New York. The work is being conducted as a required component of Administrative Order on Consent executed by IBM and the State of New York on August 4, 2004. The table includes data collected by Sanborn, Head & Associates Inc (SHA) and others as part of a "RCRA Environmental Indicators Work Plan to Perform Soil Gas Sampling and Evaluation", prepared for IBM Endicott, New York, by Sharp and Associates Inc., dated March 4, 2001. The long-term soil vapor monitoring program is being conducted in accordance with SHA's "Soil Vapor Monitoring Plan", of September 2004. Refer to the report text for additional details.

2. The vapor samples were collected on the dates noted using evacuated canister sampling techniques (Summa® Canisters) and in some cases Tedlar bags (historical sampling). The Summa® canister samples were analyzed by Air Toxics LTD., of Folsom, California for the project-specific list of VOCs using EPA Compendium Method TO-15 Selective Ion Monitoring (SIM) and standard (full-scan) methods at dilution factors noted. The data are reported by the laboratory with the following flags: B= analyte detected in the associated laboratory method blank, J=denotes an estimated value indicating that the compound was detected, but below the limit of quantitation. U = compound was not detected at the specified limit of quantitation. Vapor sampling conducted in November and December 2002, July 2003, August through December 2004, and January 2005 through February 2006 was performed by SHA.

3. Laboratory analysis of samples collected in June and July of 2002 was performed by others. The June and July 2002vapor samples were collected on the dates noted using Summa Canister and Tedlar Bag sampling techniques. The Summa Canister samples were collected and analyzed by Lancaster Laboratories of Lancaster, PA for the project-specific list of volatile organic compounds using EPA Method TO14. The Tedlar Bag samples were collected and analyzed for a similar list of VOCs by Columbia Analytical Services, Inc. of Rochester, NY using a modified EPA Method TO-14.

4. As noted on the table by a "Y" entry in the "SF6 Applied?" and "He Applied?" columns, tracer gas was used during the sample collection process to screen for possible leakage of ambient air into the sample collection apparatus. The ultra pure (98%) tracer gas was applied to the ground surface around the soil vapor implant surface completion either during collection of the Summa Canister sample or after the collection of a sample canister into a Tedlar bag. The canister/Ted bag samples were analyzed for SF6 using proprietary ATL GC Application #8 at Air Toxics, LTD, of Folsom, California during the initial rounds of sampling. Helium tracer gas was analyzed in the field using a helium leak detector. The results of this testing are reported in the table expressed as a percentage of the sample volume. Samples exhibiting greater than one percent SF6 are flagged as possible low bias that could result from leakage into the sampling apparatus during collection, introduction of the tracer gas through the soil fabric driven by density and pressure gradients, or through other means. The results and flagging may indicate potential low bias for the results of VOC analysis.

5. The block of information at the head of each set of implant data is a summary of the water level and water quality data and inference available at the time of establishing the soil vapor monitoring network and/or initiating the soil vapor monitoring program. The findings of certain historical and concurrent groundwater quality monitoring follow the soil vapor data.

6. Historical data designations presented for several implants are different than current implant designations because existing implants were renamed for the Soil Vapor Monitoring program.

7. Red highlighted qualifiers are those added during the Data Usability Review:
   U / U = Result is non-detect / The method blank or Trip Blank associated with the sample had detections of this compound which indicate that the sample is a potential false positive.
   EB = The Equipment Blank had detections for this compound at a level suggesting the result in the sample may be a false positive or biased high.
   AB = The Associated Monitoring Well Ambient Air Blank had detections for this compound at a level suggesting the result in the associated sample may be a false positive or be biased high.
   J = Result is considered an estimated value.

8. Qualifiers added by SHA:
   NS = No analysis performed for indicated compound.
   ND = Not Detected

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-6S	EN04-6D			
Sample ID	EN046S040406	EN046D040406			
Duplicate Designation					
Sample Date	4/4/2006	4/4/2006			
Sample Collection Depth (ft bgs)	8	27			
Ambient Air Temp (F)	35	35			
Weather Conditions	Sunny, windy	Sunny, windy			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	270			
Canister Serial No.	12377	34157			
Flow Controller No.					
Start Time	12:50	12:50			
Start Pressure (inches Hg)	30.0	29.0			
Stop Time	14:10	14:10			
Stop Pressure (inches Hg)	6.0	6.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	20.8	20.5			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.2	1.0			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.	1				

COMMENTS:

1. Certified can and controller used.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-11S	EN04-11S	EN04-11D	EN04-11D	
Sample ID	EN0411S040406	DU21019040406	EN0411D040406	DU34144040406	
Duplicate Designation	DU21019040406	EN0411S040406	DU34144040406	EN0411D040406	
Sample Date	4/4/2006	4/4/2006	4/4/2006	4/4/2006	
Sample Collection Depth (ft bgs)	8	8	21	21	
Ambient Air Temp (F)	40	40	40	40	
Weather Conditions	Overcast	Overcast	Overcast	Overcast	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	210	210	
Canister Serial No.	34628	21019	30834	34144	
Flow Controller No.					
Start Time	15:55	15:55	15:55	15:55	
Start Pressure (inches Hg)	30.0	30.0	30.0	30.0	
Stop Time	18:00	18:00	18:10	18:10	
Stop Pressure (inches Hg)	7.0	7.0	8.0	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.2	20.2	20.5	20.5	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.2	0.2	0.2	0.2	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.	1		1		

COMMENTS:

1. Certified can and controller used.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-35S	EN06-35I16	EN06-35I24	EN06-35D	
Sample ID	EN0635S040406	EN0635I16040406	EN0635I24040406	EN0635D040406	
Duplicate Designation					
Sample Date	4/4/2006	4/4/2006	4/4/2006	4/4/2006	
Sample Collection Depth (ft bgs)	8	16	24	34	
Ambient Air Temp (F)	35	35	35	35	
Weather Conditions	Sunny, windy	Sunny, windy	Sunny, windy	Sunny, windy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	160	240	340	
Canister Serial No.	2033	2192	22968	2135	
Flow Controller No.					
Start Time	12:30	12:30	12:30	12:30	
Start Pressure (inches Hg)	30.0	30.0	30.0	30.0	
Stop Time	13:50	13:45	13:50	13:50	
Stop Pressure (inches Hg)	6.0	7.0	6.0	6.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	Yes	Yes	Yes	Yes	
O_2 Reading (%)	20.6	20.5	20.4	20.5	
CH_4 Reading (%)	0.1	0.0	0.0	0.1	
CO_2 Reading (%)	0.1	0.5	0.7	0.7	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.	1, 2	2	2	2	

COMMENTS:

1. Certified can and controller.

2. He not detected in tedlar bag.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-36S	EN06-36I12	EN06-36I22	EN06-36D	
Sample ID	EN0636S040406	EN0636I12040406	EN0636I22040406	EN0636D040406	
Duplicate Designation					
Sample Date	4/4/2006	4/4/2006	4/4/2006	4/4/2006	
Sample Collection Depth (ft bgs)	8	12	22	33	
Ambient Air Temp (F)	35	35	35	35	
Weather Conditions	Overcast, windy	Overcast, windy	Overcast, windy	Overcast, windy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	120	220	330	
Canister Serial No.	24402	20772	12366	33413	
Flow Controller No.					
Start Time	10:00	10:00	10:00	10:00	
Start Pressure (inches Hg)	28.0	29.0	29.0	29.0	
Stop Time	11:10	11:10	11:10	11:10	
Stop Pressure (inches Hg)	5.0	7.0	5.0	5.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	Yes	Yes	Yes	Yes	
O_2 Reading (%)	21.0	21.0	20.5	20.7	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.3	0.4	1.2	0.9	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.	1	1	1	1	

COMMENTS:

1. No He detected in tedlar bag.

Form Number: 410

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-7S	EN04-7D	EN04-5S	EN04-5D	
Sample ID	EN047S040406	EN047D040406	EN045S040406	EN045D040406	
Duplicate Designation					
Sample Date	4/4/2006	4/4/2006	4/4/2006	4/4/2006	
Sample Collection Depth (ft bgs)	8	34	8	34	
Ambient Air Temp (F)	35	35	35	35	
Weather Conditions	Overcast, windy	Overcast, windy	Overcast, windy	Overcast, windy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340	80	340	
Canister Serial No.	34104	2102	3391	34589	
Flow Controller No.					
Start Time	9:15	9:15	9:35	9:35	
Start Pressure (inches Hg)	27.0	30.0	29.0	28.0	
Stop Time	10:25	10:25	10:45	10:45	
Stop Pressure (inches Hg)	7.0	7.0	7.0	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.3	20.3	20.7	20.5	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.3	1.2	0.7	1.2	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

Form Number: 411

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-34S	EN05-34I	EN05-34D		
Sample ID	EN0534S040506	EN0534I040506	EN0534D040506		
Duplicate Designation					
Sample Date	4/5/2006	4/5/2006	4/5/2006		
Sample Collection Depth (ft bgs)	8	11	13.5		
Ambient Air Temp (F)	34	34	34		
Weather Conditions	light snow	light snow	light snow		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	110	135		
Canister Serial No.	9532	9350	9463		
Flow Controller No.					
Start Time	15:15	15:18	15:45		
Start Pressure (inches Hg)	29.0	29.0	28.5		
Stop Time	16:12	16:13	16:46		
Stop Pressure (inches Hg)	6.0	7.0	7.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	19.7	19.7	19.8		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	0.0	0.2	0.2		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	NA	NA	NA		
Comment No.	1	1	1		

COMMENTS:

1. Malfunctioning FID.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-22S	EN04-22D	EN04-27S		
Sample ID	EN0422S040506	EN0422D040506	EN0427S040506		
Duplicate Designation					
Sample Date	4/5/2006	4/5/2006	4/5/2006		
Sample Collection Depth (ft bgs)	8	16	8		
Ambient Air Temp (F)	36	36	36		
Weather Conditions	Overcast, still	Overcast, still	light snow		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	160	80		
Canister Serial No.	34141	9344	9507		
Flow Controller No.					
Start Time	13:21	13:17	15:01		
Start Pressure (inches Hg)	30.0	30.0	28.0		
Stop Time	14:25	14:20	15:54		
Stop Pressure (inches Hg)	8.0	6.0	7.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	16.8	19.5	18.9		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	2.3	0.0	1.0		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	NA		
Comment No.					

COMMENTS:

1. Malfunctioning FID.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-8D	EN04-9S	EN04-9D	EN04-10S	EN04-10D
Sample ID	EN048D040506	EN049S040506	EN049D040506	EN0410S040506	EN0410D040506
Duplicate Designation					
Sample Date	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/5/2006
Sample Collection Depth (ft bgs)	12	8	20	8	20
Ambient Air Temp (F)	34	34	34	34	34
Weather Conditions	Sunny, still	Sunny, still	Sunny, still	Sunny, still	Sunny, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	120	80	200	80	200
Canister Serial No.	31765	23835	31788	2067	24394
Flow Controller No.					
Start Time	8:55	8:21	8:24	8:42	8:42
Start Pressure (inches Hg)	28.5	28.0	30.0	28.5	30.0
Stop Time	10:01	9:16	9:33	9:48	9:52
Stop Pressure (inches Hg)	7.0	7.0	7.0	8.0	7.5
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	Yes	No	No	No	No
O_2 Reading (%)	17.5	19.5	18.5	16.8	16.3
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	1.7	0.0	0.8	2.5	3.1
PID Reading (ppmv)	0.0	0.0	0.6	1.1	3.7
FID Reading (ppmv)	0.0	1.9	0.0	0.0	5.1
Comment No.	1				

COMMENTS:

1. Helium = 0 ppm.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-25D	EN04-25D	EN04-25S	EN04-24S	EN04-24D
Sample ID	EN0425D040506	DU94903040506	EN0425S040506	EN0424S040506	EN0424D040506
Duplicate Designation	DU94903040506	EN0425D040506			
Sample Date	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/5/2006
Sample Collection Depth (ft bgs)	17.5	17.5	8	8	19
Ambient Air Temp (F)	35	35	35	35	35
Weather Conditions	Cloudy, light snow	Cloudy, light snow	Cloudy, light snow	Cloudy, light snow	Cloudy, light snow
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	175	175	80	80	190
Canister Serial No.	9388	94903	94918	9336	9329
Flow Controller No.					
Start Time	10:45	10:45	10:49	11:06	11:03
Start Pressure (inches Hg)	28.0	30.0	30.0	28.0	28.0
Stop Time	12:36	12:36	11:48	11:57	12:02
Stop Pressure (inches Hg)	6.0	8.0	8.0	5.5	6.5
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	16.8	16.8	17.5	19.1	18.3
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	1.8	1.8	1.2	0.4	1.0
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-33S	EN05-33I21	EN05-33I29	EN05-33D	
Sample ID	EN0533S040606	EN0533I21040606	EN0533I29040606	EN0533D040606	
Duplicate Designation					
Sample Date	4/6/2006	4/6/2006	4/6/2006	4/6/2006	
Sample Collection Depth (ft bgs)	7.5	21.5	29	32	
Ambient Air Temp (F)	35	35	35	35	
Weather Conditions	Overcast	Overcast	Overcast	Overcast	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	75	215	290	320	
Canister Serial No.	94906	94910	11833	33394	
Flow Controller No.					
Start Time	7:45	7:45	7:45	7:45	
Start Pressure (inches Hg)	30.0	27.0	28.0	27.0	
Stop Time	8:45	8:45	8:50	8:50	
Stop Pressure (inches Hg)	7.0	5.0	7.0	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.5	20.3	20.1	20.1	
CH_4 Reading (%)	0.1	0.1	0.1	0.1	
CO_2 Reading (%)	0.4	0.7	0.9	0.9	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-23S	EN04-23I	EN04-23D		
Sample ID	EN0423S040606	EN0423I040606	EN0423D040606		
Duplicate Designation					
Sample Date	4/6/2006	4/6/2006	4/6/2006		
Sample Collection Depth (ft bgs)	8	15	23		
Ambient Air Temp (F)	32	32	32		
Weather Conditions	Cloudy, still	Cloudy, still	Cloudy, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	150	230		
Canister Serial No.	9383	9495	SC1		
Flow Controller No.					
Start Time	8:14	8:14	8:18		
Start Pressure (inches Hg)	30.0	29.0	30.0		
Stop Time	9:25	9:21	9:30		
Stop Pressure (inches Hg)	5.5	5.5	6.5		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	19.3	18.7	19.1		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	1.3	2.5	1.7		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	NA	NA	NA		
Comment No.	1	1	1		

COMMENTS:

1. Malfunctioning FID.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-37S	EN06-37I	EN06-37D		
Sample ID	EN0637S040606	EN0637I040606	EN0637D040606		
Duplicate Designation					
Sample Date	4/6/2006	4/6/2006	4/6/2006		
Sample Collection Depth (ft bgs)	8	12	21		
Ambient Air Temp (F)	32	32	32		
Weather Conditions	Cloudy, still	Cloudy, still	Cloudy, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	120	210		
Canister Serial No.	SC19	SC46	SC11		
Flow Controller No.					
Start Time	7:50	7:53	7:56		
Start Pressure (inches Hg)	29.0	28.0	28.0		
Stop Time	9:04	8:40	9:12		
Stop Pressure (inches Hg)	6.0	7.0	6.5		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	Yes	Yes	Yes		
O_2 Reading (%)	19.8	19.4	18.4		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	0.1	0.4	1.1		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	NA	NA	NA		
Comment No.	1,4	2,4	3,4		

COMMENTS:

1. Helium = 0 ppm.

2. Helium = 0 ppm.

3. Helium = 150 ppm.

4. Malfunctioning FID.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-26S	EN04-26D			
Sample ID	EN0426S040606	EN0426D040606			
Duplicate Designation					
Sample Date	4/6/2006	4/6/2006			
Sample Collection Depth (ft bgs)	8	14			
Ambient Air Temp (F)	35	35			
Weather Conditions	Overcast	Overcast			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	140			
Canister Serial No.	SC97	9506			
Flow Controller No.					
Start Time	9:15	9:15			
Start Pressure (inches Hg)	27.0	30.0			
Stop Time	10:15	10:15			
Stop Pressure (inches Hg)	5.0	6.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	20.3	20.2			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.6	0.6			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Form Number: 419

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-18S	EN04-18S	EN04-18D	EN04-18D	
Sample ID	EN0418S040406	DU12027040406	EN0418D040406	DU13899040406	
Duplicate Designation	DU12027040406	EN0418S040406	DU13899040406	EN0418D040406	
Sample Date	4/4/2006	4/4/2006	4/4/2006	4/4/2006	
Sample Collection Depth (ft bgs)	8	8	31	31	
Ambient Air Temp (F)	45	45	45	45	
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	310	310	
Canister Serial No.	31759	12027	34118	13899	
Flow Controller No.					
Start Time	12:28	12:28	12:33	12:33	
Start Pressure (inches Hg)	29.4	29.2	29.0	28.8	
Stop Time	14:35	14:35	14:55	14:55	
Stop Pressure (inches Hg)	8.0	6.0	6.5	6.5	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	19.7	19.7	19.4	19.4	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.0	0.0	0.0	0.0	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	NA	NA	NA	NA	
Comment No.	1	1	1	1	

COMMENTS:

1. Malfunctioning FID.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-16S	EN04-16D			
Sample ID	EN0416S040406	EN0416D040406			
Duplicate Designation					
Sample Date	4/4/2006	4/4/2006			
Sample Collection Depth (ft bgs)	8	34			
Ambient Air Temp (F)	45	45			
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340			
Canister Serial No.	9301	9524			
Flow Controller No.					
Start Time	12:42	12:42			
Start Pressure (inches Hg)	28.7	28.7			
Stop Time	13:41	13:45			
Stop Pressure (inches Hg)	5.0	7.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	19.8	19.3			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.0	0.9			
PID Reading (ppmv)	0.0	0.2			
FID Reading (ppmv)	NA	NA			
Comment No.	1	1			

COMMENTS:

1. Malfunctioning FID.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-30S	EN04-30D	EN04-2S	EN04-2D	EN04-4S
Sample ID	EN0430S040306	EN0430D040306	EN042S040306	EN042D040306	EN044S040306
Duplicate Designation					
Sample Date	4/3/2006	4/3/2006	4/3/2006	4/3/2006	4/3/2006
Sample Collection Depth (ft bgs)	9	20	8	23	8
Ambient Air Temp (F)	43	43	53	53	53
Weather Conditions	Overcast, breezy	Overcast, breezy	Partly Sunny, breezy	Partly Sunny, breezy	Partly Sunny, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	90	200	80	230	80
Canister Serial No.	11897	25289	34081	33645	30819
Flow Controller No.					
Start Time	9:06	9:06	11:04	11:04	15:54
Start Pressure (inches Hg)	28.7	29.3	29.9	30.2	29.5
Stop Time	10:19	10:15	12:20	12:08	17:05
Stop Pressure (inches Hg)	6.0	6.0	7.5	7.0	5.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	Yes
O_2 Reading (%)	19.6	19.5	20.1	20.1	19.9
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.0	0.1	0.0	0.0	0.4
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					1

COMMENTS:

1. Helium = 0 ppm.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-12S	EN04-12D			
Sample ID	EN0412S040306	EN0412D040306			
Duplicate Designation					
Sample Date	4/3/2006	4/3/2006			
Sample Collection Depth (ft bgs)	8	19			
Ambient Air Temp (F)	57	57			
Weather Conditions	Partly cloudy, breezy	Partly cloudy, breezy			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	190			
Canister Serial No.	34607	11834			
Flow Controller No.					
Start Time	12:50	12:50			
Start Pressure (inches Hg)	30.0	30.0			
Stop Time	14:09	14:13			
Stop Pressure (inches Hg)	7.0	7.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	19.7	19.3			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.8	0.9			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-32S	EN04-32S	EN04-32D	EN04-32D	EN04-4D
Sample ID	EN0432S040306	DU20781040306	EN0432D040306	DU2035040306	EN044D040306
Duplicate Designation	DU20781040306	EN0432S040306	DU2035040306	EN0432D040306	
Sample Date	4/3/2006	4/3/2006	4/3/2006	4/3/2006	4/3/2006
Sample Collection Depth (ft bgs)	8	8	18	18	17
Ambient Air Temp (F)	59	59	59	59	59
Weather Conditions	Overcast, breezy	Overcast, breezy	Overcast, breezy	Overcast, breezy	Overcast, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	180	180	170
Canister Serial No.	34160	20781	14529	2035	21020
Flow Controller No.					
Start Time	15:20	15:20	15:33	15:33	15:46
Start Pressure (inches Hg)	30.4	30.4	30.2	30.2	29.5
Stop Time	17:39	17:39	17:57	17:57	17:03
Stop Pressure (inches Hg)	7.5	7.0	7.0	7.0	6.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	Yes
O_2 Reading (%)	20.2	20.2	20.3	20.3	19.8
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.1	0.1	0.0	0.0	0.7
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					1

COMMENTS:

1. Helium = 0 ppm.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-14S	EN04-14D	EN04-20S	EN04-20I	EN04-20D
Sample ID	EN0414S040406	EN0414D040406	EN0420S040406	EN0420I040406	EN0420D040406
Duplicate Designation					
Sample Date	4/4/2006	4/4/2006	4/4/2006	4/4/2006	4/4/2006
Sample Collection Depth (ft bgs)	8	34	8	24	36
Ambient Air Temp (F)	33	33	39	39	39
Weather Conditions	Overcast, light snow	Overcast, light snow	Overcast, breezy	Overcast, breezy	Overcast, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340	80	240	360
Canister Serial No.	11832	33405	34106	34173	12389
Flow Controller No.					
Start Time	8:36	8:40	10:19	10:20	10:21
Start Pressure (inches Hg)	29.0	29.0	29.5	29.3	29.0
Stop Time	9:43	9:50	11:19	11:26	11:48
Stop Pressure (inches Hg)	6.5	6.5	6.5	8.0	7.5
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	19.2	19.5	18.9	19.3	19.4
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.8	0.4	0.9	0.2	0.2
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.	1		2		

COMMENTS:

1. Well box threads stripped.

2. Missing 1 bolt on well box lid.

Form Number: 425

Sanborn, Head & Associates, Inc.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental GM05815	**Collectors:**	CJM
PID Meter Used:	Pine Rental	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-15S	EN04-15D			
Sample ID	EN0415S040406	EN0415D040406			
Duplicate Designation					
Sample Date	4/4/2006	4/4/2006			
Sample Collection Depth (ft bgs)	8	30			
Ambient Air Temp (F)	42	42			
Weather Conditions	Overcast, breezy	Overcast, breezy			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	300			
Canister Serial No.	9473	9530			
Flow Controller No.					
Start Time	15:39	15:42			
Start Pressure (inches Hg)	29.1	29.5			
Stop Time	16:32	16:38			
Stop Pressure (inches Hg)	6.5	6.5			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	Yes	Yes			
O_2 Reading (%)	19.5	19.6			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.2	0.1			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.	1	2			

COMMENTS:

1. Helium = 0 ppm.

2. Helium = 0 ppm.

Print Date: Wednesday, October 25, 2006 11:11:44

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-31S	EN04-31D	EN04-1S	EN04-1D	
Sample ID	EN0431S040306	EN0431D040306	EN041S040306	EN041D040306	
Duplicate Designation					
Sample Date	4/3/2006	4/3/2006	4/3/2006	4/3/2006	
Sample Collection Depth (ft bgs)	10	19	8	23	
Ambient Air Temp (F)	48	48	48	48	
Weather Conditions	Overcast	Overcast	Overcast	Overcast	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	100	190	80	230	
Canister Serial No.	34643	2175	31799	34100	
Flow Controller No.					
Start Time	9:05	9:05	12:50	12:50	
Start Pressure (inches Hg)	30.0	29.0	29.0	30.0	
Stop Time	10:15	10:15	14:05	14:05	
Stop Pressure (inches Hg)	10.0	10.0	9.0	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.5	20.4	20.8	20.7	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.0	0.1	0.2	0.2	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-3S	EN04-3S	EN04-3D	EN04-3D	
Sample ID	EN043S040306	DU34605040306	EN043D040306	DU34648040306	
Duplicate Designation	DU34605040306	EN043S040306	DU34648040306	EN043D040306	
Sample Date	4/3/2006	4/3/2006	4/3/2006	4/3/2006	
Sample Collection Depth (ft bgs)	8	8	19	19	
Ambient Air Temp (F)	55	55	55	55	
Weather Conditions	Overcast	Overcast	Overcast	Overcast	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	190	190	
Canister Serial No.	34108	34605	2088	34648	
Flow Controller No.					
Start Time	15:15	15:15	15:15	15:15	
Start Pressure (inches Hg)	30.0	30.0	30.0	30.0	
Stop Time	17:30	17:30	17:40	17:40	
Stop Pressure (inches Hg)	10.0	7.0	8.0	8.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.8	20.8	20.9	20.9	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.0	0.0	0.0	0.0	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:44

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rental 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-17S	EN04-17D	EN04-13S	EN04-13D	
Sample ID	EN0417S040506	EN0417D040506	EN0413S040506	EN0413D040506	
Duplicate Designation					
Sample Date	4/5/2006	4/5/2006	4/5/2006	4/5/2006	
Sample Collection Depth (ft bgs)	8	28	8	30	
Ambient Air Temp (F)	35	35	35	35	
Weather Conditions	Clear	Clear	Overcast	Overcast	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	280	80	300	
Canister Serial No.	31757	26202	2164	25284	
Flow Controller No.					
Start Time	8:00	8:00	12:45	12:45	
Start Pressure (inches Hg)	30.0	30.0	30.0	28.0	
Stop Time	9:20	9:15	14:00	14:00	
Stop Pressure (inches Hg)	7.0	7.0	7.0	6.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	Yes	Yes	
O_2 Reading (%)	20.5	20.7	18.7	20.3	
CH_4 Reading (%)	0.1	0.0	0.1	0.1	
CO_2 Reading (%)	0.1	0.4	2.3	0.7	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.	1	1	2	2	

COMMENTS:

1. Certified can and controller used.

2. No He detected in tedlar bag.

Print Date: Wednesday, October 25, 2006 11:11:44

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rentall 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-29S	EN05-29I	EN04-29D		
Sample ID	EN0529S040506	EN0529I040506	EN0429D040506		
Duplicate Designation					
Sample Date	4/5/2006	4/5/2006	4/5/2006		
Sample Collection Depth (ft bgs)	8	12.5	20		
Ambient Air Temp (F)	35	35	35		
Weather Conditions	Overcast	Overcast	Overcast		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	125	200		
Canister Serial No.	11446	1734	1740		
Flow Controller No.					
Start Time	14:50	14:50	14:50		
Start Pressure (inches Hg)	30.0	30.0	30.0		
Stop Time	16:15	16:10	16:10		
Stop Pressure (inches Hg)	5.0	7.0	5.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	20.2	20.1	19.7		
CH_4 Reading (%)	0.1	0.1	0.1		
CO_2 Reading (%)	0.6	0.7	1.3		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:44

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine Rental	**Collectors:**	MTS
PID Meter Used:	Pine Rental	**FID Meter Used:**	Pine Rentall 02125

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-19S	EN04-19D	EN04-21S	EN04-21D	
Sample ID	EN0419S040506	EN0419D040506	EN0421S040506	EN0421D040506	
Duplicate Designation					
Sample Date	4/5/2006	4/5/2006	4/5/2006	4/5/2006	
Sample Collection Depth (ft bgs)	8	29.5	7.5	23	
Ambient Air Temp (F)	35	35	35	35	
Weather Conditions	Overcast	Overcast	Overcast	Overcast	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	295	75	230	
Canister Serial No.	9504	11821	2032	33639	
Flow Controller No.					
Start Time	10:15	10:15	10:05	10:05	
Start Pressure (inches Hg)	28.0	30.0	30.0	30.0	
Stop Time	11:40	11:40	11:35	11:25	
Stop Pressure (inches Hg)	4.0	7.0	8.0	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	Yes	Yes	
O_2 Reading (%)	20.5	20.4	20.2	18.4	
CH_4 Reading (%)	0.1	0.0	0.1	0.1	
CO_2 Reading (%)	0.2	0.7	0.7	1.3	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.	1	1	1,3	2,3	

COMMENTS:

1. Certified can and controller used.

2. 1110 - realized 2-hr. controller was installed, replaced with 1 hour @ 15" Hg.

3. No He detected in tedlar bag.

Print Date: Wednesday, October 25, 2006 11:11:41

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-30S	EN04-30D	EN04-2S	EN04-2D	
Sample ID	EN0430S061906	EN0430D061906	EN042S061906	EN042D061906	
Duplicate Designation					
Sample Date	6/19/2006	6/19/2006	6/19/2006	6/19/2006	
Sample Collection Depth (ft bgs)	9	20	8	20	
Ambient Air Temp (F)	78	78	85	85	
Weather Conditions	Hazy, hot, humid	Hazy, hot, humid	Hazy, hot, humid	Hazy, hot, humid	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	90	200	80	200	
Canister Serial No.	12033	23829	33397	1366	
Flow Controller No.					
Start Time	9:38	9:38	11:41	11:44	
Start Pressure (inches Hg)	28.0	28.0	28.0	28.0	
Stop Time	10:51	11:01	12:47	12:35	
Stop Pressure (inches Hg)	7.5	7.5	7.5	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	21.2	21.6	21.9	21.9	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.2	0.3	0.3	0.3	
PID Reading (ppmv)	13.2	24.5	122	50.3	
FID Reading (ppmv)	1.0	NR	9.5	10.2	
Comment No.	2	1		2	

COMMENTS:

1. FID malfunctioned.

2. FID reading background at 9.8 ppm.

Print Date: Wednesday, October 25, 2006 11:11:41

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-14S	EN04-14D	EN04-4S	EN04-4S	EN04-4D
Sample ID	EN0414S061906	EN0414D061906	EN044S061906	DU34668061906	EN044D061906
Duplicate Designation			DU34668061906	EN044S061906	
Sample Date	6/19/2006	6/19/2006	6/19/2006	6/19/2006	6/19/2006
Sample Collection Depth (ft bgs)	8	34	8	8	17
Ambient Air Temp (F)	87	87	86	86	86
Weather Conditions	Overcast	Overcast	Heavy rain	Heavy rain	Heavy rain
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340	80	80	170
Canister Serial No.	30822	2205	25284	34668	12372
Flow Controller No.					
Start Time	13:22	13:24	15:23	15:23	15:25
Start Pressure (inches Hg)	28.0	28.0	29.5	29.5	30.0
Stop Time	14:36	14:36	17:20	17:20	16:25
Stop Pressure (inches Hg)	7.5	8.0	8.0	7.0	7.7
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.2	21.8	20.8	20.8	21.0
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	2.2	0.5	1.3	1.3	1.1
PID Reading (ppmv)	24.2	27.4	9.1	9.1	35.3
FID Reading (ppmv)	8.1	8.1	7.2	7.2	7.5
Comment No.	1,2	1			1, 4

COMMENTS:

1. FID reading background at 9.1 ppm. PID background at 31.6 ppm. Car is off.

2. Well box threads stripped.

3. Red ant nest filling well box.

4. FID reading background at 8.5 ppm.

Print Date: Wednesday, October 25, 2006 11:11:41

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-32S	EN04-32D			
Sample ID	EN0432S061906	EN0432D061906			
Duplicate Designation					
Sample Date	6/19/2006	6/19/2006			
Sample Collection Depth (ft bgs)	8	18			
Ambient Air Temp (F)	82	82			
Weather Conditions	Heavy rain	Heavy rain			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	180			
Canister Serial No.	33650	34666			
Flow Controller No.					
Start Time	15:38	15:40			
Start Pressure (inches Hg)	30.0	29.5			
Stop Time	16:31	16:50			
Stop Pressure (inches Hg)	5.0	8.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	21.2	21.6			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.7	0.5			
PID Reading (ppmv)	108	51.5			
FID Reading (ppmv)	7.8	7.8			
Comment No.	1, 2	2			

COMMENTS:

1. Controller gauge moved from 28 to 20 in 3 minutes. Changed to new controller at 15:46, pressure at 20.

2. FID background reading is 8.5 ppm.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-1S	EN04-1D	EN04-31S	EN04-31S	EN04-31D
Sample ID	EN041S061906	EN041D061906	EN0431S061906	DU33709061906	EN0431D061906
Duplicate Designation			DU33709061906	EN0431S061906	
Sample Date	6/19/2006	6/19/2006	6/19/2006	6/19/2006	6/19/2006
Sample Collection Depth (ft bgs)	8	23	10	10	19
Ambient Air Temp (F)	80	80	70	70	70
Weather Conditions	Partly cloudy, humid	Partly cloudy, humid	Rain	Rain	Rain
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	230	100	100	190
Canister Serial No.	34146	11894	34090	33709	2102
Flow Controller No.					
Start Time	9:30	9:30	13:20	13:20	13:20
Start Pressure (inches Hg)	29.0	30.0	29.5	29.5	30.0
Stop Time	10:30	10:40	15:25	15:25	14:30
Stop Pressure (inches Hg)	7.0	8.0	7.0	7.5	7.5
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	19.7	18.9	20.2	20.2	20.2
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.2	0.5	0.0	0.0	0.0
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-3S	EN04-3D	EN04-11S	EN04-11D	
Sample ID	EN043S061906	EN043D061906	EN0411S061906	EN0411D061906	
Duplicate Designation					
Sample Date	6/19/2006	6/19/2006	6/19/2006	6/19/2006	
Sample Collection Depth (ft bgs)	8	19	8	21	
Ambient Air Temp (F)	80	80	70	70	
Weather Conditions	Partly cloudy, humid	Partly cloudy, humid	Rain	Rain	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	190	80	210	
Canister Serial No.	11893	22961	9328	SC6	
Flow Controller No.					
Start Time	11:15	11:15	16:00	16:00	
Start Pressure (inches Hg)	29.5	29.5	30.0	30.0	
Stop Time	12:15	12:30	17:00	17:05	
Stop Pressure (inches Hg)	7.0	8.0	5.0	7.5	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.5	20.5	20.0	18.7	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.0	0.0	0.0	0.6	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-13S	EN04-13D	EN04-17S	EN04-17D	EN04-7S
Sample ID	EN0413S062006	EN0413D062006	EN0417S062006	EN0417D062006	EN047S062006
Duplicate Designation					
Sample Date	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
Sample Collection Depth (ft bgs)	8	30	8	28	8
Ambient Air Temp (F)	70	70	75	75	75
Weather Conditions	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	300	80	280	80
Canister Serial No.	9321	2151	13898	33710	13388
Flow Controller No.					
Start Time	8:00	8:00	10:05	10:05	12:00
Start Pressure (inches Hg)	30.0	30.0	28.0	29.0	28.0
Stop Time	9:05	9:15	11:05	11:00	12:45
Stop Pressure (inches Hg)	7.5	7.0	7.0	6.5	6.5
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	17.5	18.2	20.4	20.7	19.8
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	3.1	2.4	0.3	0.2	0.8
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-7D	EN04-5S	EN04-5D	EN04-6S	EN04-6D
Sample ID	EN047D062006	EN045S062006	EN045D062006	EN046S062006	EN046D062006
Duplicate Designation					
Sample Date	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
Sample Collection Depth (ft bgs)	34	8	34	8	27
Ambient Air Temp (F)	80	80	80	80	80
Weather Conditions	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	340	80	340	80	270
Canister Serial No.	3398	23838	2174	1735	25281
Flow Controller No.					
Start Time	12:00	12:15	12:15	15:10	15:10
Start Pressure (inches Hg)	27.0	27.0	27.5	28.5	29.0
Stop Time	12:55	13:25	13:25	16:15	16:15
Stop Pressure (inches Hg)	7.0	6.5	6.5	6.0	8.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.2	19.4	19.5	19.4	15.2
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.8	1.3	1.0	1.4	3.5
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

1. After approximately 1 hour, the controller gauge real 15" Hg, a digital gauge was used to record the final vacuum.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-35S	EN06-35I16	EN06-35I24	EN06-35D	EN06-35D
Sample ID	EN0635S062006	EN0635I16062006	EN0635I24062006	EN0635D062006	DU34625062006
Duplicate Designation				DU34625062006	EN0635D062006
Sample Date	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
Sample Collection Depth (ft bgs)	8	16	24	34	34
Ambient Air Temp (F)	80	80	80	80	80
Weather Conditions	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid	Partly cloudy, humid
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	160	240	340	340
Canister Serial No.	34124	2042	2217	24396	34625
Flow Controller No.					
Start Time	14:35	14:35	14:35	14:35	14:35
Start Pressure (inches Hg)	30.0	28.0	30.0	29.0	30.0
Stop Time	16:00	15:45	16:00	16:55	16:55
Stop Pressure (inches Hg)	6.0	7.0	7.0	8.0	7.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.1	20.1	20.1	20.2	20.2
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.8	0.7	0.8	0.6	0.6
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.7	0.7
Comment No.					

COMMENTS:

Form Number: 368

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM, PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-12S	EN04-12D	EN04-8D	EN04-9S	EN04-9D
Sample ID	EN0412S062006	EN0412D062006	EN048D062006	EN049S062006	EN049D062006
Duplicate Designation					
Sample Date	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
Sample Collection Depth (ft bgs)	8	19	12	8	20
Ambient Air Temp (F)	71	71	71	75	75
Weather Conditions	Overcast, still	Overcast, still	Overcast, still	Overcast, still	Overcast, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	190	120	80	200
Canister Serial No.	33633	11830	33712	2175	34133
Flow Controller No.					
Start Time	7:53	7:53	9:38	9:47	9:50
Start Pressure (inches Hg)	29.0	30.0	29.5	29.0	29.0
Stop Time	9:03	9:05	10:42	11:01	11:02
Stop Pressure (inches Hg)	6.5	7.0	6.5	6.5	7.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	19.3	19.5	15.2	19.7	18.5
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	2.2	2.1	2.6	0.2	1.0
PID Reading (ppmv)	2.4	0.0	4.6	0.0	3.6
FID Reading (ppmv)	0.0	0.0	0.0	0.0	2.2
Comment No.			1.	1.	1.

COMMENTS:

1. A laboratory certified canister and controller were used to collect this sample.

Print Date: Wednesday, October 25, 2006 11:11:42

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-10S	EN04-10D	EN04-20S	EN04-20I	EN04-20D
Sample ID	EN0410S062006	EN0410D062006	EN0420S062006	EN0420I062006	EN0420D062006
Duplicate Designation					
Sample Date	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
Sample Collection Depth (ft bgs)	8	20	8	24	36
Ambient Air Temp (F)	75	75	78	78	78
Weather Conditions	Partly cloudy, still	Partly cloudy, still	Sunny, still	Sunny, still	Sunny, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	200	80	240	360
Canister Serial No.	34650	94929	2106	1032	20775
Flow Controller No.					
Start Time	9:58	10:01	11:50	11:52	11:54
Start Pressure (inches Hg)	29.0	29.0	28.5	28.5	28.5
Stop Time	10:56	10:57	13:05	12:54	13:03
Stop Pressure (inches Hg)	7.0	7.0	6.5	6.5	7.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	17.2	17.3	19.4	20.5	21.2
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	4.0	3.7	2.8	0.6	0.5
PID Reading (ppmv)	9.8	10.4	0.0	0.0	0.0
FID Reading (ppmv)	5.2	10.3	0.0	0.0	0.0
Comment No.	1	1	2		

COMMENTS:

1. A laboratory certified canister and controller were used to collect this sample.

2. Missing bolt on well box cover.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-16S	EN04-16D	EN04-16D	EN04-18S	EN04-18D
Sample ID	EN0416S062006	EN0416D062006	DU9497062006	EN0418S062006	EN0418D062006
Duplicate Designation		DU9497062006	EN0416D062006		
Sample Date	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
Sample Collection Depth (ft bgs)	8	34	34	8	31
Ambient Air Temp (F)	81	83	83	83	83
Weather Conditions	Partly cloudy, still	Partly cloudy, still	Partly cloudy, still	Partly cloudy, still	Partly cloudy, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340	340	80	310
Canister Serial No.	2206	9472	9497	9302	9360
Flow Controller No.					
Start Time	14:17	14:22	14:22	14:35	14:33
Start Pressure (inches Hg)	28.0	28.0	28.0	28.0	28.0
Stop Time	15:30	16:12	16:12	15:40	15:40
Stop Pressure (inches Hg)	7.5	7.0	7.0	6.0	6.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	19.9	20.6	20.6	20.7	21.0
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	1.4	0.8	0.8	0.9	0.9
PID Reading (ppmv)	6.8	0.0	0.0	6.4	2.1
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-15S	EN04-15D	EN04-19S	EN04-19S	EN04-19D
Sample ID	EN0415S062006	EN0415D062006	EN0419S062106	DU2032062106	EN0419D062106
Duplicate Designation			DU2032062106	EN0419S062106	
Sample Date	6/20/2006	6/20/2006	6/21/2006	6/21/2006	6/21/2006
Sample Collection Depth (ft bgs)	8	30	8	8	29.5
Ambient Air Temp (F)	80	80	65	65	65
Weather Conditions	Partly cloudy, still	Partly cloudy, still	Sunny, still	Sunny, still	Sunny, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	300	80	80	295
Canister Serial No.	9473	9317	34582	2032	1737
Flow Controller No.					
Start Time	16:48	16:49	8:12	8:12	8:13
Start Pressure (inches Hg)	28.0	28.0	30.0	30.0	30.0
Stop Time	17:43	17:15	10:41	10:41	9:23
Stop Pressure (inches Hg)	6.5	6.0	5.0	7.5	7.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.0	19.8	21.4	21.4	20.3
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	1.2	1.2	0.2	0.2	1.1
PID Reading (ppmv)	11.1	3.9	0.6	0.6	24.4
FID Reading (ppmv)	0.0	0.0	5.2	5.2	1.5
Comment No.					1

COMMENTS:

1. FID background is 5.8 ppm.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-21S	EN04-21S	EN04-21D		
Sample ID	EN0421S062106	DU30829062106	EN0421D062106		
Duplicate Designation	DU30829062106	EN0421S062106			
Sample Date	6/21/2006	6/21/2006	6/21/2006		
Sample Collection Depth (ft bgs)	7.5	7.5	23		
Ambient Air Temp (F)	65	65	65		
Weather Conditions	Sunny, still	Sunny, still	Sunny, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	75	75	230		
Canister Serial No.	34122	30829	1044		
Flow Controller No.					
Start Time	8:33	8:33	8:35		
Start Pressure (inches Hg)	30.0	30.0	30.0		
Stop Time	10:39	10:39	9:45		
Stop Pressure (inches Hg)	6.0	6.0	7.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	15.8	15.8	17.6		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	4.8	4.8	2.8		
PID Reading (ppmv)	14.4	14.4	260		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.					

COMMENTS:

1. SHA marked lid of implant with spray marking paint approximately 30 minutes before sampling.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-24S	EN04-24D	EN04-25S	EN04-25D	
Sample ID	EN0424S062106	EN0424D062106	EN0425S062106	EN0425D062106	
Duplicate Designation					
Sample Date	6/21/2006	6/21/2006	6/21/2006	6/21/2006	
Sample Collection Depth (ft bgs)	8	19	8	17.5	
Ambient Air Temp (F)	78	78	78	78	
Weather Conditions	Sunny, still	Sunny, still	Sunny, still	Sunny, still	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	190	80	175	
Canister Serial No.	11439	21021	34099	2110	
Flow Controller No.					
Start Time	11:22	11:20	11:35	11:34	
Start Pressure (inches Hg)	28.0	28.0	28.5	28.0	
Stop Time	12:35	12:27	12:48	12:48	
Stop Pressure (inches Hg)	7.0	7.0	7.0	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.0	20.0	15.2	14.5	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	1.1	1.1	3.6	4.2	
PID Reading (ppmv)	2.0	5.1	319	60.8	
FID Reading (ppmv)	3.4	2.2	0.6	1.2	
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-37S	EN06-37I	EN06-37D	EN04-27S	EN04-27S
Sample ID	EN0637S062106	EN0637I062106	EN0637D062106	EN0427S062106	DUSC31062106
Duplicate Designation				DUSC31062106	EN0427S062106
Sample Date	6/21/2006	6/21/2006	6/21/2006	6/21/2006	6/21/2006
Sample Collection Depth (ft bgs)	8	12	21	8	8
Ambient Air Temp (F)	81	81	81	81	81
Weather Conditions	Sunny, still	Sunny, still	Sunny, still	Sunny, still	Sunny, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	120	210	80	80
Canister Serial No.	9362	94908	9309	SC20	SC31
Flow Controller No.					
Start Time	13:38	13:40	13:41	16:10	16:10
Start Pressure (inches Hg)	27.5	28.0	28.0	27.5	28.0
Stop Time	14:44	14:37	14:46	18:23	18:23
Stop Pressure (inches Hg)	6.5	5.5	7.0	7.5	5.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.0	19.8	19.3	18.3	18.3
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	1.6	1.6	1.4	2.6	2.6
PID Reading (ppmv)	0.0	0.0	0.0	10.4	10.4
FID Reading (ppmv)	7.6	6.5	9.8	2.4	2.4
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-23S	EN04-23I	EN04-23D		
Sample ID	EN0423S062106	EN0423I062106	EN0423D062106		
Duplicate Designation					
Sample Date	6/21/2006	6/21/2006	6/21/2006		
Sample Collection Depth (ft bgs)	8	15	23		
Ambient Air Temp (F)	81	81	81		
Weather Conditions	Sunny, still	Sunny, still	Sunny, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	150	230		
Canister Serial No.	2120	2185	11823		
Flow Controller No.					
Start Time	13:59	14:00	14:00		
Start Pressure (inches Hg)	28.5	28.5	28.5		
Stop Time	15:25	15:16	15:20		
Stop Pressure (inches Hg)	6.5	6.5	7.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	17.5	17.6	20.2		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	3.4	3.4	1.8		
PID Reading (ppmv)	3.3	0.0	7.3		
FID Reading (ppmv)	1.4	1.0	1.4		
Comment No.	1	1	1		

COMMENTS:

1. New gas line put in across street. Truck with asphalt left approximately thirty minutes before sampling began.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 04375	**Collectors:**	CJM/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-34S	EN05-34I	EN05-34D		
Sample ID	EN0534S062106	EN0534I062106	EN0534D062106		
Duplicate Designation					
Sample Date	6/21/2006	6/21/2006	6/21/2006		
Sample Collection Depth (ft bgs)	8	11	13.5		
Ambient Air Temp (F)	81	81	81		
Weather Conditions	Sunny, still	Sunny, still	Sunny, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	110	135		
Canister Serial No.	9453	9491	94909		
Flow Controller No.					
Start Time	16:24	16:25	16:26		
Start Pressure (inches Hg)	26.5	28.0	26.0		
Stop Time	17:18	17:24	17:20		
Stop Pressure (inches Hg)	7.0	7.0	7.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	20.5	20.7	20.8		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	0.8	0.6	0.5		
PID Reading (ppmv)	10.4	0.0	0.0		
FID Reading (ppmv)	5.9	4.5	7.2		
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-29S	EN05-29I	EN04-29D	EN04-29D	
Sample ID	EN0529S062106	EN0592I062106	EN0429D062106	DU34127062106	
Duplicate Designation			DU34127062106	EN0429D062106	
Sample Date	6/21/2006	6/21/2006	6/21/2006	6/21/2006	
Sample Collection Depth (ft bgs)	8	12.5	20	20	
Ambient Air Temp (F)	75	75	75	75	
Weather Conditions	Clear	Clear	Clear	Clear	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	125	200	200	
Canister Serial No.	1368	1355	33714	34127	
Flow Controller No.					
Start Time	9:45	9:45	9:45	9:45	
Start Pressure (inches Hg)	30.0	30.0	27.5	29.5	
Stop Time	11:00	11:00	11:45	11:45	
Stop Pressure (inches Hg)	7.0	6.0	6.5	8.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	19.0	19.4	20.0	20.0	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	1.3	1.0	0.9	0.9	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.7	0.8	18	18	
Comment No.			1	1	

COMMENTS:

1. A laboratory certified canister and controller were used to collect this sample.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-33S	EN05-33I21	EN05-33I29	EN05-33D	
Sample ID	EN0533S062106	EN0533I22062106	EN0533I29062106	EN0533D062106	
Duplicate Designation					
Sample Date	6/21/2006	6/21/2006	6/21/2006	6/21/2006	
Sample Collection Depth (ft bgs)	7.5	21.5	29	32	
Ambient Air Temp (F)	80	80	80	80	
Weather Conditions	Sun, breezy	Sun, breezy	Sun, breezy	Sun, breezy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	75	215	290	320	
Canister Serial No.	94940	SC9	2117	11440	
Flow Controller No.					
Start Time	15:10	15:30	15:10	15:10	
Start Pressure (inches Hg)	30.0	29.5	27.0	28.0	
Stop Time	16:10	16:40	16:10	16:15	
Stop Pressure (inches Hg)	7.0	8.0	7.0	7.5	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.8	21.0	20.9	21.1	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.3	0.4	0.5	0.4	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.		1			

COMMENTS:

1. Original sampling canister went to 0" Hg in twenty minutes. Replaced with new canister and controller.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-36S	EN06-36I12	EN06-36I22	EN06-36D	EN04-22S
Sample ID	EN0636S062106	EN0636I12062106	EN0636I22062106	EN0636D062106	EN0422S062106
Duplicate Designation					
Sample Date	6/21/2006	6/21/2006	6/21/2006	6/21/2006	6/21/2006
Sample Collection Depth (ft bgs)	8	12	22	33	8
Ambient Air Temp (F)	80	80	80	80	80
Weather Conditions	Sun, breezy	Sun, breezy	Sun, breezy	Sun, breezy	Sun, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	120	220	330	80
Canister Serial No.	22962	2204	2089	31768	1033
Flow Controller No.					
Start Time	12:45	12:45	12:45	12:45	17:00
Start Pressure (inches Hg)	29.0	29.5	30.0	28.5	28.0
Stop Time	13:50	13:50	14:05	13:50	18:30
Stop Pressure (inches Hg)	6.5	5.0	7.0	4.5	9.5
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.4	20.7	20.7	20.8	17.3
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.6	0.3	0.5	0.9	2.5
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1/Pine 04375	**Collectors:**	EMB/PRM
PID Meter Used:	Pine 01440	**FID Meter Used:**	Pine 01571/00644

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-22D	EN04-26D	EN04-26D	EN04-26S	
Sample ID	EN0422D062106	EN0426D062206	DU9322062206	EN0426S062206	
Duplicate Designation		DU9322062206	EN0426D062206		
Sample Date	6/21/2006	6/22/2006	6/22/2006	6/22/2006	
Sample Collection Depth (ft bgs)	16	14	14	8	
Ambient Air Temp (F)	80	70	70	70	
Weather Conditions	Sun, breezy	Overcast, still	Overcast, still	Overcast, still	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	160	140	140	80	
Canister Serial No.	1364	9375	9322	1369	
Flow Controller No.					
Start Time	17:00	8:33	8:33	9:15	
Start Pressure (inches Hg)	29.5	30.0	29.5	29.0	
Stop Time	18:20	10:17	10:17	10:18	
Stop Pressure (inches Hg)	7.0	7.0	7.0	6.5	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	100	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	16.7	20.2	20.2	20.1	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	3.0	1.1	1.1	1.4	
PID Reading (ppmv)	0.0	-	NR	NR	
FID Reading (ppmv)	0.0	6.0	6.0	5.6	
Comment No.		1.	1	1	

COMMENTS:

1. PID malfunction.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-33S	EN05-33I21	EN05-33I29	EN05-33D	
Sample ID	EN0533S081606	EN0533I21081606	EN0533I29081606	EN0533D081706	
Duplicate Designation					
Sample Date	8/16/2006	8/16/2006	8/16/2006	8/17/2006	
Sample Collection Depth (ft bgs)	7.5	21.5	29	32	
Ambient Air Temp (F)	82	82	82	70	
Weather Conditions	Sunny, still	Sunny, still	Sunny, still	Overcast, still	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	75	215	290	320	
Canister Serial No.	9387	SC85	2069	97105	
Flow Controller No.					
Start Time	15:06	15:20	15:22	7:39	
Start Pressure (inches Hg)	30.0	28.0	30.0	30.0	
Stop Time	16:07	16:29	16:52	8:43	
Stop Pressure (inches Hg)	5.5	6.0	5.5	5.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	18.9	19.4	19.5	19.2	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	1.0	0.5	0.6	0.8	
PID Reading (ppmv)	0.0	37.0	45.9	0.0	
FID Reading (ppmv)	0.0	2.4	0.0	0.0	
Comment No.				1	

COMMENTS:

1. Well box had water in it up to level of implant. Post sampling, moisture on inside of tubing near implant.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-26S	EN04-26D			
Sample ID	EN0426S081706	EN0426D081706			
Duplicate Designation					
Sample Date	8/17/2006	8/17/2006			
Sample Collection Depth (ft bgs)	8	14			
Ambient Air Temp (F)	75	75			
Weather Conditions	Overcast, still	Overcast, still			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	140			
Canister Serial No.	9313	SC42			
Flow Controller No.					
Start Time	9:16	9:20			
Start Pressure (inches Hg)	30.0	30.0			
Stop Time	10:12	10:29			
Stop Pressure (inches Hg)	5.0	5.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	18.4	18.7			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	2.1	1.6			
PID Reading (ppmv)	4.5	8.7			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-30S	EN04-30D	EN04-2S	EN04-2D	
Sample ID	EN0430S081406	EN0430D081406	EN042S081406	EN042D081406	
Duplicate Designation					
Sample Date	8/14/2006	8/14/2006	8/14/2006	8/14/2006	
Sample Collection Depth (ft bgs)	9	20	8	20	
Ambient Air Temp (F)	60	60	80	80	
Weather Conditions	Sunny, still	Sunny, still	Sunny, still	Sunny, still	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	90	200	80	200	
Canister Serial No.					
Flow Controller No.	34121	34163	23834	22966	
Start Time	8:56	9:00	10:51	10:54	
Start Pressure (inches Hg)	28.0	30.0	27.0	30.0	
Stop Time	10:19	10:03	11:55	11:59	
Stop Pressure (inches Hg)	7.0	6.0	5.5	6.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.2	20.2	20.2	19.8	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.3	0.4	0.4	0.4	
PID Reading (ppmv)	13.6	0.0	0.0	129	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-14S	EN04-14D	EN04-14D	EN04-4S	EN04-4D
Sample ID	EN0414S081406	EN0414D081406	DU1480081406	EN044S081406	EN044D081406
Duplicate Designation		DU1480081406	EN0414D081406		
Sample Date	8/14/2006	8/14/2006	8/14/2006	8/14/2006	8/14/2006
Sample Collection Depth (ft bgs)	8	34	34	8	17
Ambient Air Temp (F)	78	78	78	82	82
Weather Conditions	Sunny, still	Sunny, still	Sunny, still	Sunny, still	Sunny, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340	340	80	170
Canister Serial No.					
Flow Controller No.	20777	2102	1480	34613	34083
Start Time	12:39	12:37	12:37	15:23	15:27
Start Pressure (inches Hg)	28.5	30.0	30.0	29.5	27.5
Stop Time	13:45	14:45	14:45	16:24	17:28
Stop Pressure (inches Hg)	6.0	7.0	7.0	5.0	6.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	18.2	19.4	19.4	19.3	17.8
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	2.4	0.1	0.1	1.0	1.7
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	13.0	0.0
Comment No.					1

COMMENTS:

1. Digital gauge read 20" Hg after 1 hour. Changed out controller for new 1-hr. controller at 16:33.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-32S	EN04-32D			
Sample ID	EN0432S081406	EN0432D081406			
Duplicate Designation					
Sample Date	8/14/2006	8/14/2006			
Sample Collection Depth (ft bgs)	8	18			
Ambient Air Temp (F)	82	82			
Weather Conditions	Sunny, still	Sunny, still			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	180			
Canister Serial No.					
Flow Controller No.	11433	35608			
Start Time	15:42	15:44			
Start Pressure (inches Hg)	29.0	26.0			
Stop Time	16:54	16:47			
Stop Pressure (inches Hg)	5.0	5.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	18.7	19.0			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	1.6	0.9			
PID Reading (ppmv)	0.0	5.8			
FID Reading (ppmv)	0.0	2.6			
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-8D	EN04-8D	EN04-9S	EN04-9D	
Sample ID	EN048D081506	DU31755081506	EN049S081506	EN049D081506	
Duplicate Designation	DU31755081506	EN048D081506			
Sample Date	8/15/2006	8/15/2006	8/15/2006	8/15/2006	
Sample Collection Depth (ft bgs)	12	12	8	20	
Ambient Air Temp (F)	83	83	83	83	
Weather Conditions	Sunny, breezy	Sunny, breezy	Sunny, breezy	Sunny, breezy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	120	120	80	200	
Canister Serial No.					
Flow Controller No.	24388	31755	34660	24402	
Start Time	12:42	12:42	13:09	13:09	
Start Pressure (inches Hg)	27.5	30.0	28.0	28.0	
Stop Time	14:58	14:58	14:15	14:08	
Stop Pressure (inches Hg)	5.5	6.5	6.5	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	12.0	12.0	15.1	14.8	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	3.8	3.8	0.9	1.3	
PID Reading (ppmv)	2.7	2.7	141	50.8	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.			1	1	

COMMENTS:

1. Parking lot surrounding implant location has been recently resurfaced.

Print Date: Wednesday, October 25, 2006 11:11:42

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-10S	EN04-10D			
Sample ID	EN0410S081506	EN0410D081506			
Duplicate Designation					
Sample Date	8/15/2006	8/15/2006			
Sample Collection Depth (ft bgs)	8	20			
Ambient Air Temp (F)	83	83			
Weather Conditions	Sunny, breezy	Sunny, breezy			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	200			
Canister Serial No.					
Flow Controller No.	34126	2099			
Start Time	13:29	13:29			
Start Pressure (inches Hg)	28.0	28.0			
Stop Time	14:36	14:40			
Stop Pressure (inches Hg)	6.5	5.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	14.0	15.3			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	4.9	3.9			
PID Reading (ppmv)	130	13.8			
FID Reading (ppmv)	12.0	13.5			
Comment No.	1	1			

COMMENTS:

1. Parking lot surrounding implant location has been recently resurfaced.

Print Date: Wednesday, October 25, 2006 11:11:42

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-12S	EN04-12D	EN05-29S	EN05-29I	EN04-29D
Sample ID	EN0412S081506	EN0412D081506	EN0529S081506	EN0529I081506	EN0429D081506
Duplicate Designation					
Sample Date	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
Sample Collection Depth (ft bgs)	8	19	8	12.5	20
Ambient Air Temp (F)	70	70	80	80	80
Weather Conditions	Sunny, still	Sunny, still	Sunny, still	Sunny, still	Sunny, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	190	80	125	200
Canister Serial No.					
Flow Controller No.	2189	11445	34574	2185	34621
Start Time	8:33	8:29	10:39	10:43	10:46
Start Pressure (inches Hg)	28.0	29.5	29.0	28.0	30.0
Stop Time	9:50	9:39	11:21	11:58	11:50
Stop Pressure (inches Hg)	7.0	6.0	5.0	6.0	6.5
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	17.1	16.9	17.0	17.1	20.3
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	3.7	3.7	2.7	2.7	0.2
PID Reading (ppmv)	10.6	10.6	875	7.5	675
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.			1, 4	2	3, 4

COMMENTS:

1. Implant has no labelling tag on it. New well box incorrectly labelled as EN04-29D., OBG to correct.

2. Implant has no labelling tag on it.

3. New well box incorrectly labelled as EN05-29S, OBG to correct.

4. Initial PID screenings as reported. Rescreened with different instrument approximately 1-hr. later and read 0.0.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-15S	EN04-15D			
Sample ID	EN0415S081506	EN0415D081506			
Duplicate Designation					
Sample Date	8/15/2006	8/15/2006			
Sample Collection Depth (ft bgs)	8	30			
Ambient Air Temp (F)	80	80			
Weather Conditions	Sunny, still	Sunny, still			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	300			
Canister Serial No.					
Flow Controller No.	1468	2054			
Start Time	15:45	15:45			
Start Pressure (inches Hg)	28.5	28.0			
Stop Time	16:51	16:54			
Stop Pressure (inches Hg)	5.5	6.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	17.7	17.9			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	2.2	2.1			
PID Reading (ppmv)	56.7	20.4			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Form Number: 390

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-20S	EN04-20I	EN04-20D		
Sample ID	EN0420S081606	EN0420I081606	EN0420D081606		
Duplicate Designation					
Sample Date	8/16/2006	8/16/2006	8/16/2006		
Sample Collection Depth (ft bgs)	8	24	36		
Ambient Air Temp (F)	70	70	70		
Weather Conditions	Sunny, still	Sunny, still	Sunny, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	240	360		
Canister Serial No.	2171	34174	94906		
Flow Controller No.					
Start Time	8:15	8:15	8:15		
Start Pressure (inches Hg)	30.0	28.0	30.0		
Stop Time	10:12	9:14	9:53		
Stop Pressure (inches Hg)	6.0	6.0	6.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	19.7	18.5	18.6		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	0.5	2.0	0.7		
PID Reading (ppmv)	12.4	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.	1	1	1		

COMMENTS:

1. A laboratory certified canister and controller pair were used to collect this sample.

Print Date: Wednesday, October 25, 2006 11:11:42

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-19S	EN04-19S	EN04-19D		
Sample ID	EN0419S081606	DU33732081606	EN0419D081606		
Duplicate Designation	DU33732081606	EN0419S081606			
Sample Date	8/16/2006	8/16/2006	8/16/2006		
Sample Collection Depth (ft bgs)	8	8	29.5		
Ambient Air Temp (F)	75	75	75		
Weather Conditions	Sun, still	Sun, still	Sun, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	295		
Canister Serial No.	30816	33732	35638		
Flow Controller No.					
Start Time	10:39	10:39	10:45		
Start Pressure (inches Hg)	30.0	30.0	30.0		
Stop Time	12:50	12:50	12:06		
Stop Pressure (inches Hg)	8.0	6.0	6.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	18.7	18.7	18.5		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	2.0	2.0	0.7		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:42

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-21S	EN04-21D	EN04-21D		
Sample ID	EN0421S081606	EN0421D081606	DU11834081606		
Duplicate Designation		DU11834081606	EN0421D081606		
Sample Date	8/16/2006	8/16/2006	8/16/2006		
Sample Collection Depth (ft bgs)	7.5	23	23		
Ambient Air Temp (F)	75	75	75		
Weather Conditions	Sun, still	Sun, still	Sun, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	75	230	230		
Canister Serial No.	31778	35600	11834		
Flow Controller No.					
Start Time	10:55	10:51	10:51		
Start Pressure (inches Hg)	30.0	30.0	27.0		
Stop Time	12:13	12:57	12:57		
Stop Pressure (inches Hg)	5.5	6.5	6.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	20.1	17.4	17.4		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	0.0	2.5	2.5		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	Pine 06593	**Collectors:**	CJM
PID Meter Used:	Pine 01440	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-18S	EN04-18D	EN04-16S	EN04-16D	
Sample ID	EN0418S081606	EN0418D081606	EN0416S081606	EN0416D081606	
Duplicate Designation					
Sample Date	8/16/2006	8/16/2006	8/16/2006	8/16/2006	
Sample Collection Depth (ft bgs)	8	31	8	34	
Ambient Air Temp (F)	80	80	80	80	
Weather Conditions	Sunny, still	Sunny, still	Sunny, still	Sunny, still	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	310	80	340	
Canister Serial No.	9330	93108	9525	94926	
Flow Controller No.					
Start Time	13:22	13:26	13:38	13:40	
Start Pressure (inches Hg)	30.0	27.0	30.0	25.0	
Stop Time	14:21	14:16	14:36	14:44	
Stop Pressure (inches Hg)	6.0	5.0	6.0	5.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	19.0	19.0	18.2	17.8	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	1.7	0.8	2.4	0.8	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:42

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-3S	EN04-3S	EN04-3D	EN04-31S	EN04-31D
Sample ID	EN043S081406	DU34165081406	EN043D081406	EN0431S081406	EN0431D081406
Duplicate Designation	DU34165081406	EN043S081406			
Sample Date	8/14/2006	8/14/2006	8/14/2006	8/14/2006	8/14/2006
Sample Collection Depth (ft bgs)	8	8	19	10	19
Ambient Air Temp (F)	85	85	85	85	85
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	190	100	190
Canister Serial No.	25203	34165	14515	31788	20774
Flow Controller No.					
Start Time	13:15	13:15	13:15	15:45	15:45
Start Pressure (inches Hg)	30.0	30.0	30.0	28.5	27.5
Stop Time	15:25	15:25	14:25	16:30	16:45
Stop Pressure (inches Hg)	9.0	7.0	6.0	6.5	7.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	21.4	21.4	21.3	21.7	21.7
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.0	0.0	0.0	0.0	0.0
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.				1	1

COMMENTS:

1. A laboratory certified canister and controller pair were used to collect this sample.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-36S	EN06-36I12	EN06-36I22	EN06-36D	EN04-7S
Sample ID	EN0636S081506	EN0636I12081506	EN0636I22081506	EN0636D081506	EN047S081506
Duplicate Designation					
Sample Date	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
Sample Collection Depth (ft bgs)	8	12	22	33	8
Ambient Air Temp (F)	72	72	72	72	72
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	120	220	330	80
Canister Serial No.	1456	35557	13899	34664	9337
Flow Controller No.					
Start Time	8:55	8:55	8:55	8:55	9:15
Start Pressure (inches Hg)	28.5	27.0	27.5	29.5	29.0
Stop Time	9:55	9:55	9:55	10:00	10:10
Stop Pressure (inches Hg)	7.0	7.0	6.0	7.0	6.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.2	19.8	20.2	20.4	19.7
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	1.4	1.2	0.8	0.9	2.1
PID Reading (ppmv)	0.8	2.1	1.5	0.4	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					1

COMMENTS:

1. A laboratory certified canister and controller pair were used to collect this sample.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-7D	EN04-5S	EN04-5D	EN04-17S	EN04-17D
Sample ID	EN047D081506	EN045S081506	EN045D081506	EN0417S081506	EN0417D081506
Duplicate Designation					
Sample Date	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
Sample Collection Depth (ft bgs)	34	8	34	8	34
Ambient Air Temp (F)	72	72	72	80	80
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	340	80	340	80	340
Canister Serial No.	11895	2220	1028	35618	34101
Flow Controller No.					
Start Time	9:15	9:30	9:30	11:40	11:40
Start Pressure (inches Hg)	28.5	30.0	30.0	29.5	29.5
Stop Time	10:20	10:50	10:50	12:30	12:45
Stop Pressure (inches Hg)	7.0	4.5	7.5	7.0	7.5
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.2	18.9	19.9	21.0	21.0
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.6	2.4	0.5	0.8	0.1
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.7
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.	1		1	1	1

COMMENTS:

1. A laboratory certified canister and controller pair were used to collect this sample.

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-6S	EN04-6S	EN04-6D		
Sample ID	EN046S081506	DU34634081506	EN046D081506		
Duplicate Designation	DU34634081506	EN046S081506			
Sample Date	8/15/2006	8/15/2006	8/15/2006		
Sample Collection Depth (ft bgs)	8	8	27		
Ambient Air Temp (F)	80	80	80		
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	270		
Canister Serial No.	34114	34634	14529		
Flow Controller No.					
Start Time	13:50	13:50	13:50		
Start Pressure (inches Hg)	29.0	30.0	28.0		
Stop Time	15:40	15:40	14:45		
Stop Pressure (inches Hg)	7.0	11.0	7.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	No	No	No		
O_2 Reading (%)	20.3	20.3	19.3		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	1.5	1.5	2.8		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-35S	EN06-35I16	EN06-35I24	EN06-35I24	EN06-35D
Sample ID	EN0635S081506	EN0635I16081506	EN0635I24081506	DU22960081506	EN0635D081506
Duplicate Designation			DU22960081506	EN0635I24081506	
Sample Date	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
Sample Collection Depth (ft bgs)	8	16	24	24	34
Ambient Air Temp (F)	80	80	80	80	80
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	160	240	240	80
Canister Serial No.	12364	1733	34643	22960	1361
Flow Controller No.					
Start Time	14:30	14:30	14:30	14:30	14:30
Start Pressure (inches Hg)	29.5	29.5	30.0	29.0	28.5
Stop Time	15:30	16:10	16:20	16:20	15:30
Stop Pressure (inches Hg)	7.0	7.5	9.0	6.0	7.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.3	20.0	20.3	20.3	20.3
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	1.6	1.9	1.0	1.0	0.8
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-13S	EN04-13D	EN04-22S	EN04-22D	
Sample ID	EN0413S081606	EN0413D081606	EN0422S081606	EN0422D081606	
Duplicate Designation					
Sample Date	8/16/2006	8/16/2006	8/16/2006	8/16/2006	
Sample Collection Depth (ft bgs)	8	30	8	16	
Ambient Air Temp (F)	65	65	75	75	
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	300	80	160	
Canister Serial No.	30813	2136	9392	9348	
Flow Controller No.					
Start Time	8:15	8:15	10:00	10:00	
Start Pressure (inches Hg)	29.0	30.0	30.0	28.0	
Stop Time	9:15	9:15	10:55	10:55	
Stop Pressure (inches Hg)	5.5	7.5	7.0	6.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	16.4	20.7	15.6	14.2	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	4.9	1.0	4.5	5.3	
PID Reading (ppmv)	1.3	0.4	0.8	1.2	
FID Reading (ppmv)	0.0	0.0	0.0	2.1	
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-25S	EN04-25S			
Sample ID	EN0425S081606	DU11443081606			
Duplicate Designation	DU11443081606	EN0425S081606			
Sample Date	8/16/2006	8/16/2006			
Sample Collection Depth (ft bgs)	8	8			
Ambient Air Temp (F)	75	75			
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80			
Canister Serial No.	34174	11443			
Flow Controller No.					
Start Time	12:05	12:05			
Start Pressure (inches Hg)	30.0	29.0			
Stop Time	14:05	14:05			
Stop Pressure (inches Hg)	9.0	7.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	16.2	16.2			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	4.5	4.5			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Print Date: Wednesday, October 25, 2006 11:11:43

Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-25D	EN04-24S	EN04-24D	EN04-24D	
Sample ID	EN0425D081606	EN0424S081606	EN0424D081606	DU34605081606	
Duplicate Designation			DU34605081606	EN0424D081606	
Sample Date	8/16/2006	8/16/2006	8/16/2006	8/16/2006	
Sample Collection Depth (ft bgs)	17.5	8	19	19	
Ambient Air Temp (F)	75	75	75	75	
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	175	80	190	190	
Canister Serial No.	34177	25292	34142	34605	
Flow Controller No.					
Start Time	12:00	12:25	12:25	12:25	
Start Pressure (inches Hg)	28.5	30.0	30.0	30.0	
Stop Time	13:05	13:25	14:35	14:35	
Stop Pressure (inches Hg)	7.0	8.0	7.0	8.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	16.2	18.6	19.3	19.3	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	4.3	1.8	0.9	0.9	
PID Reading (ppmv)	3.6	3.1	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-37S	EN06-37I			
Sample ID	EN0637S081606	EN0637I081606			
Duplicate Designation					
Sample Date	8/16/2006	8/16/2006			
Sample Collection Depth (ft bgs)	8	12			
Ambient Air Temp (F)	75	75			
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)					
Canister Serial No.	35598	33397			
Flow Controller No.					
Start Time	15:30	15:30			
Start Pressure (inches Hg)	30.0	29.0			
Stop Time	16:35	16:35			
Stop Pressure (inches Hg)	6.5	7.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	19.8	19.5			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	2.0	1.8			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-23S	EN04-23I	EN04-23D	EN06-37D	
Sample ID	EN0423S081606	EN0423I081606	EN0423D081606	EN0637D081606	
Duplicate Designation					
Sample Date	8/16/2006	8/16/2006	8/16/2006	8/16/2006	
Sample Collection Depth (ft bgs)	8	15	23	21	
Ambient Air Temp (F)	80	80	80	80	
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	150	230	210	
Canister Serial No.	35636	25201	94933	1025	
Flow Controller No.					
Start Time	15:10	15:05	15:05	15:30	
Start Pressure (inches Hg)	29.5	29.5	29.0	30.0	
Stop Time	16:10	16:10	16:10	16:45	
Stop Pressure (inches Hg)	7.5	7.0	4.5	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	15.2	19.0	19.3	18.9	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	5.4	2.8	1.8	2.0	
PID Reading (ppmv)	0.0	0.0	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.		1		1	

COMMENTS:

1. The canister number on the certification tag did not match number on the canister. The number on the canister was used to fill out field form and chain of custody.

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-27S	EN05-34S	EN05-34I	EN05-34D	
Sample ID	EN0427S081706	EN0534S081706	EN0534I081706	EN0534D081706	
Duplicate Designation					
Sample Date	8/17/2006	8/17/2006	8/17/2006	8/17/2006	
Sample Collection Depth (ft bgs)	8	8	11.5	13	
Ambient Air Temp (F)	65	65	65	65	
Weather Conditions	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	Partly Cloudy, breezy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	115	130	
Canister Serial No.	9451	31789	SC89	SC47	
Flow Controller No.					
Start Time	8:10	8:35	8:35	8:35	
Start Pressure (inches Hg)	30.0	28.5	27.0	30.0	
Stop Time	9:10	9:40	9:35	9:35	
Stop Pressure (inches Hg)	4.5	6.0	4.0	7.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	16.4	19.6	19.8	19.5	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	5.1	1.6	1.3	1.1	
PID Reading (ppmv)	1.3	1.1	1.2	1.5	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

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Soil Vapor Sampling Summary

Sanborn, Head & Associates, Inc.
CONSULTING ENGINEERS & SCIENTISTS

Project No:	2200
Project Name:	Soil Vapor Implant Monitoring
Location:	Endicott, NY
Project Manager:	Erica Bradstreet

O2 / CH4 / CO2 Meter Used:	SH-1	**Collectors:**	EMB
PID Meter Used:	Pine Rental 01239	**FID Meter Used:**	Pine Rental 02212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-1S	EN04-1D	EN04-11S	EN04-11D	
Sample ID	EN041S081406	EN041D081406	EN0411S081406	EN0411D081406	
Duplicate Designation					
Sample Date	8/14/2006	8/14/2006	8/14/2006	8/14/2006	
Sample Collection Depth (ft bgs)	8	23	8	21	
Ambient Air Temp (F)	75	75	80	80	
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	230	80	210	
Canister Serial No.	20772	2194	34647	12358	
Flow Controller No.					
Start Time	9:05	9:05	11:10	11:10	
Start Pressure (inches Hg)	29.0	29.0	30.0	29.5	
Stop Time	10:05	10:05	12:10	12:10	
Stop Pressure (inches Hg)	7.0	6.0	6.0	6.5	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.3	20.5	20.5	21.6	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.8	0.1	1.0	0.0	
PID Reading (ppmv)	0.8	0.7	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

APPENDIX B.3

TIME SERIES PLOTS
Figures B.1 through B.37

Figure B.1
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

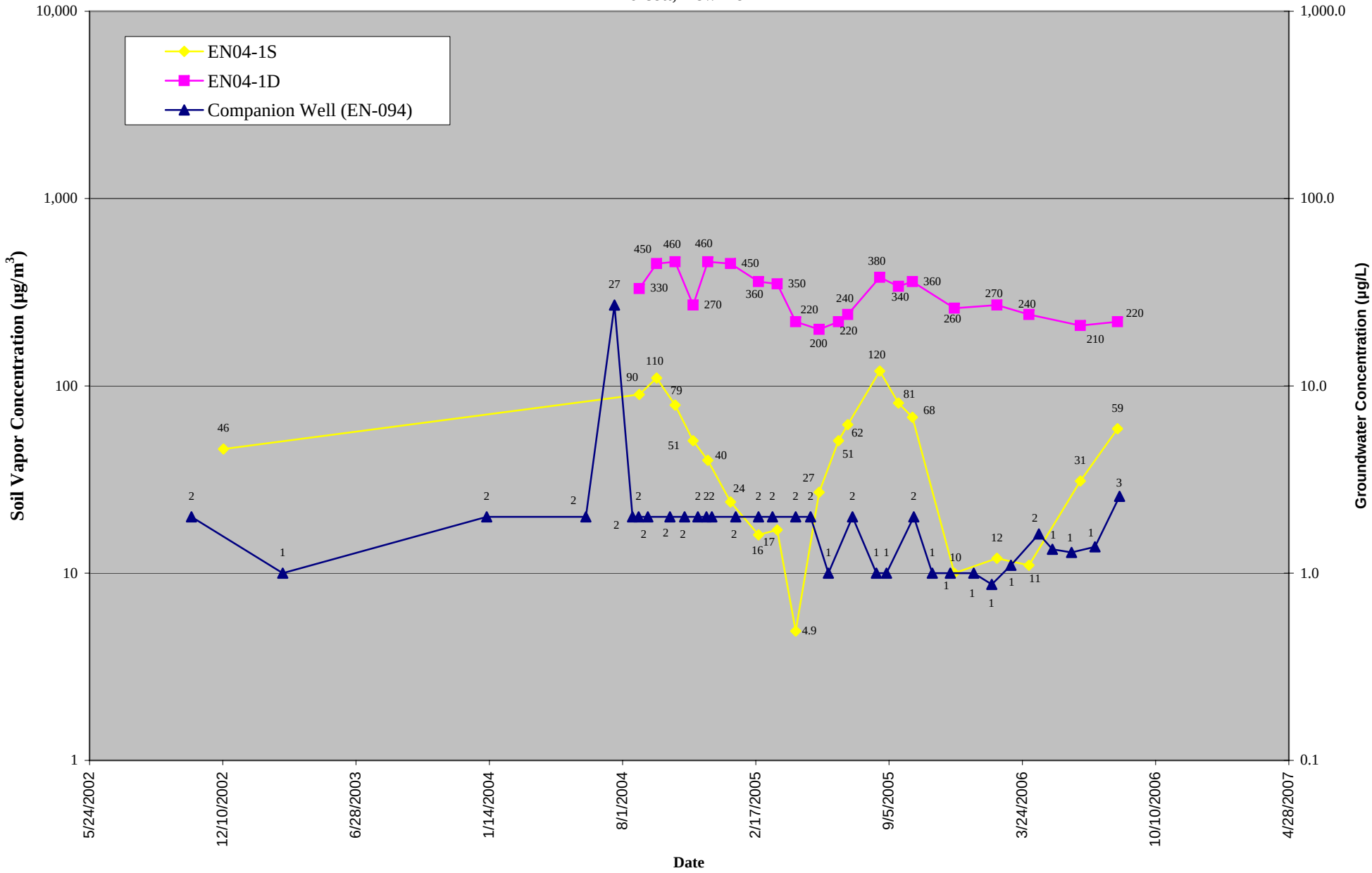


Figure B.2
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

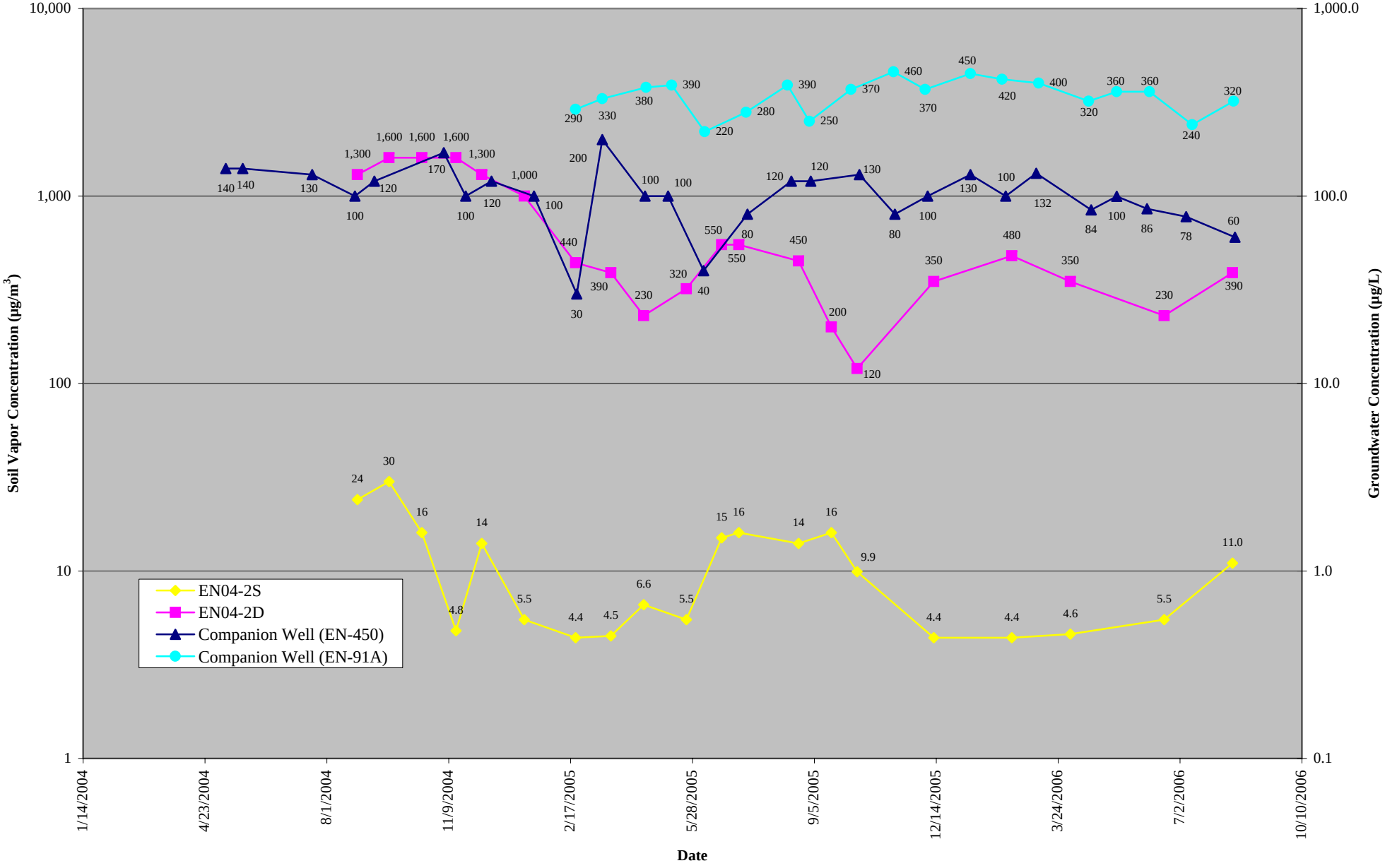


Figure B.3
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

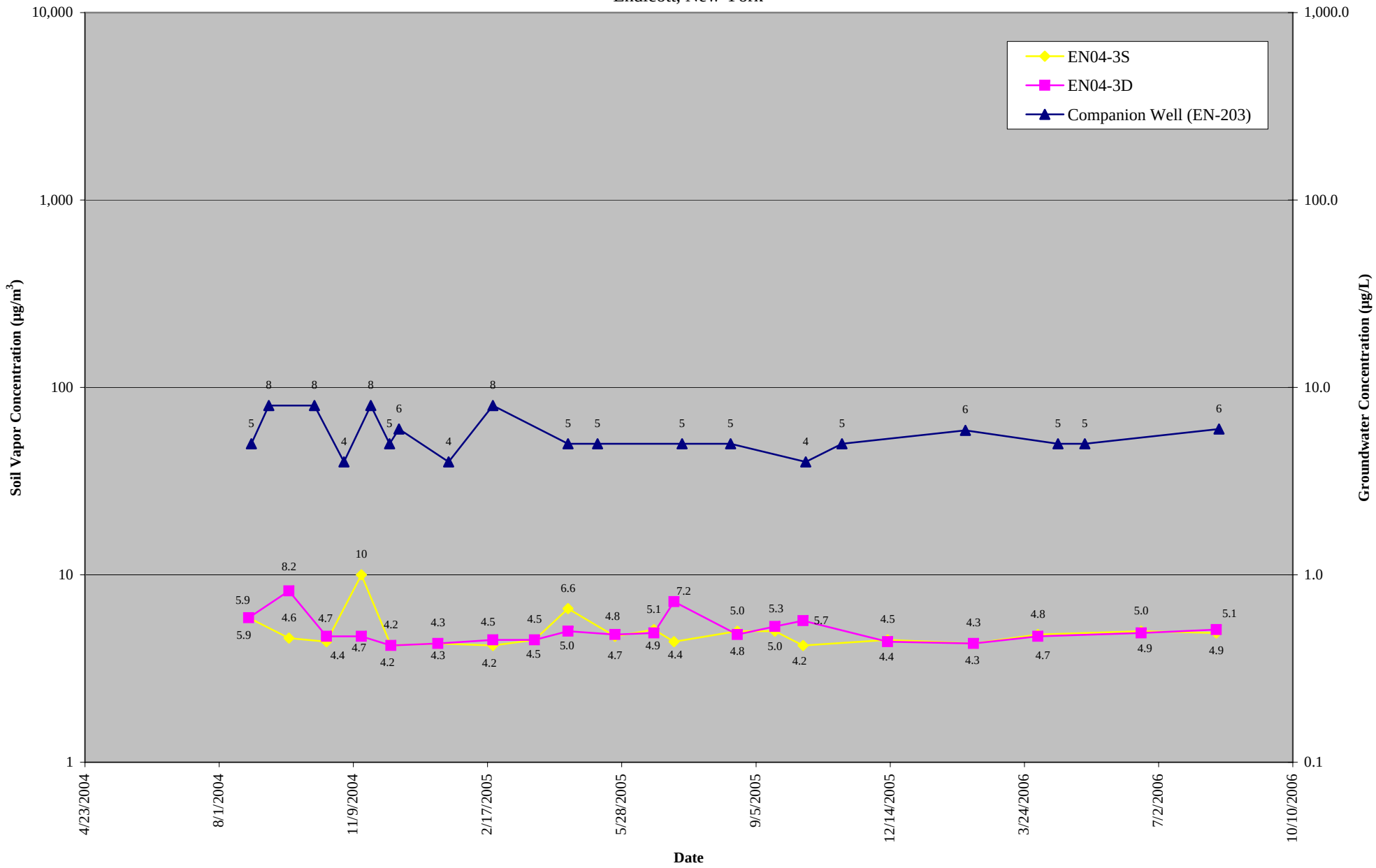


Figure B.4
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

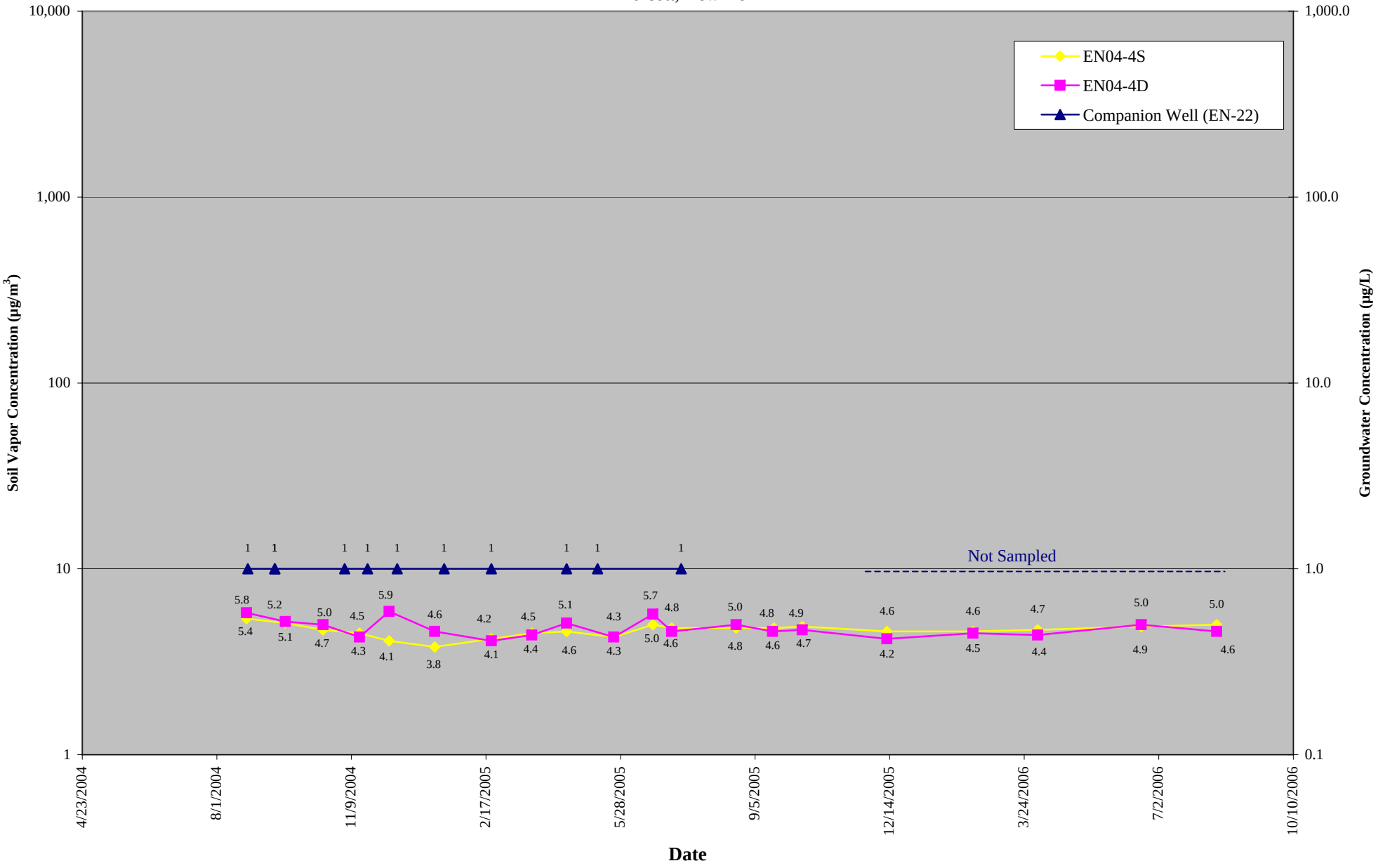


Figure B.5
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

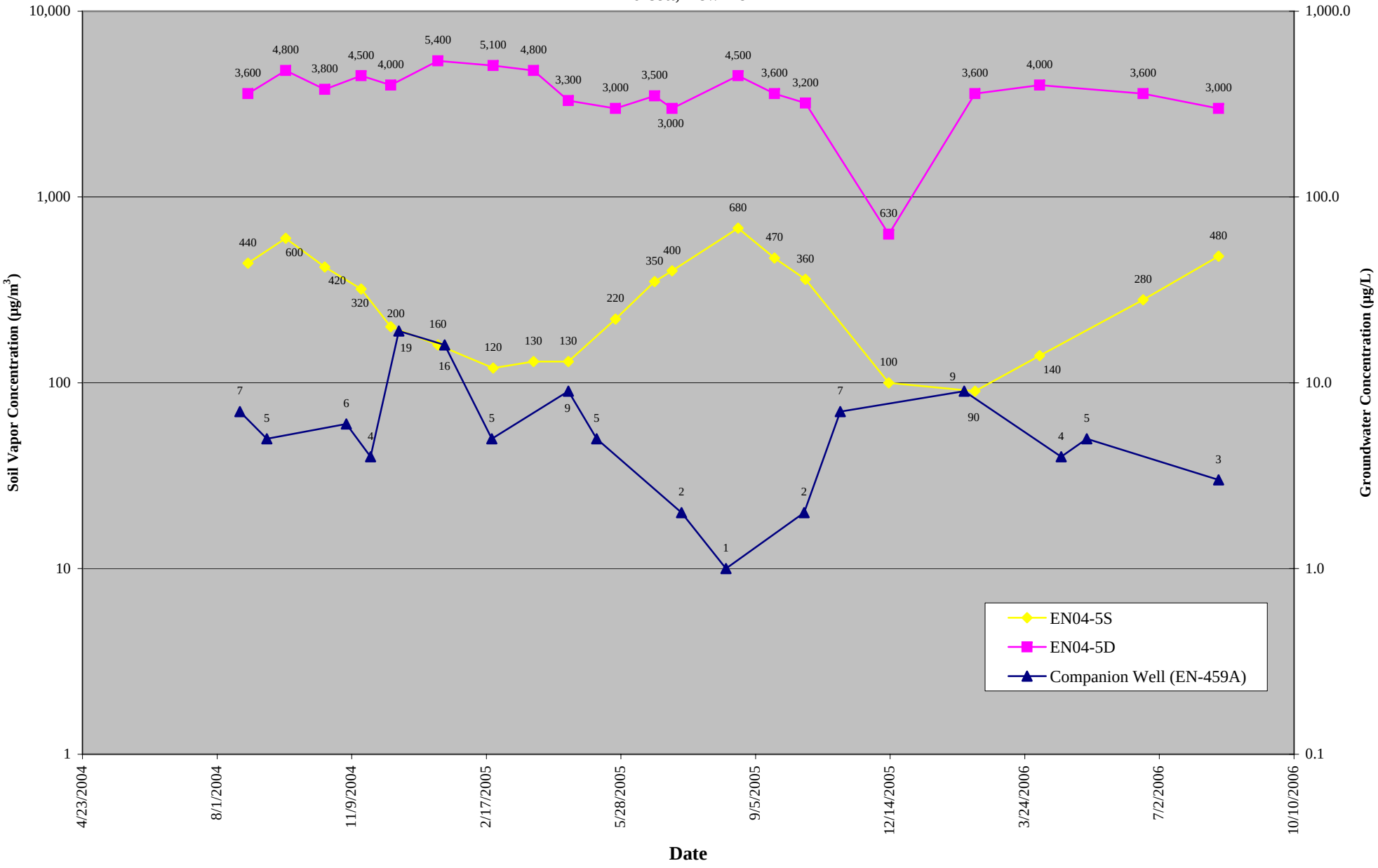


Figure B.6
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

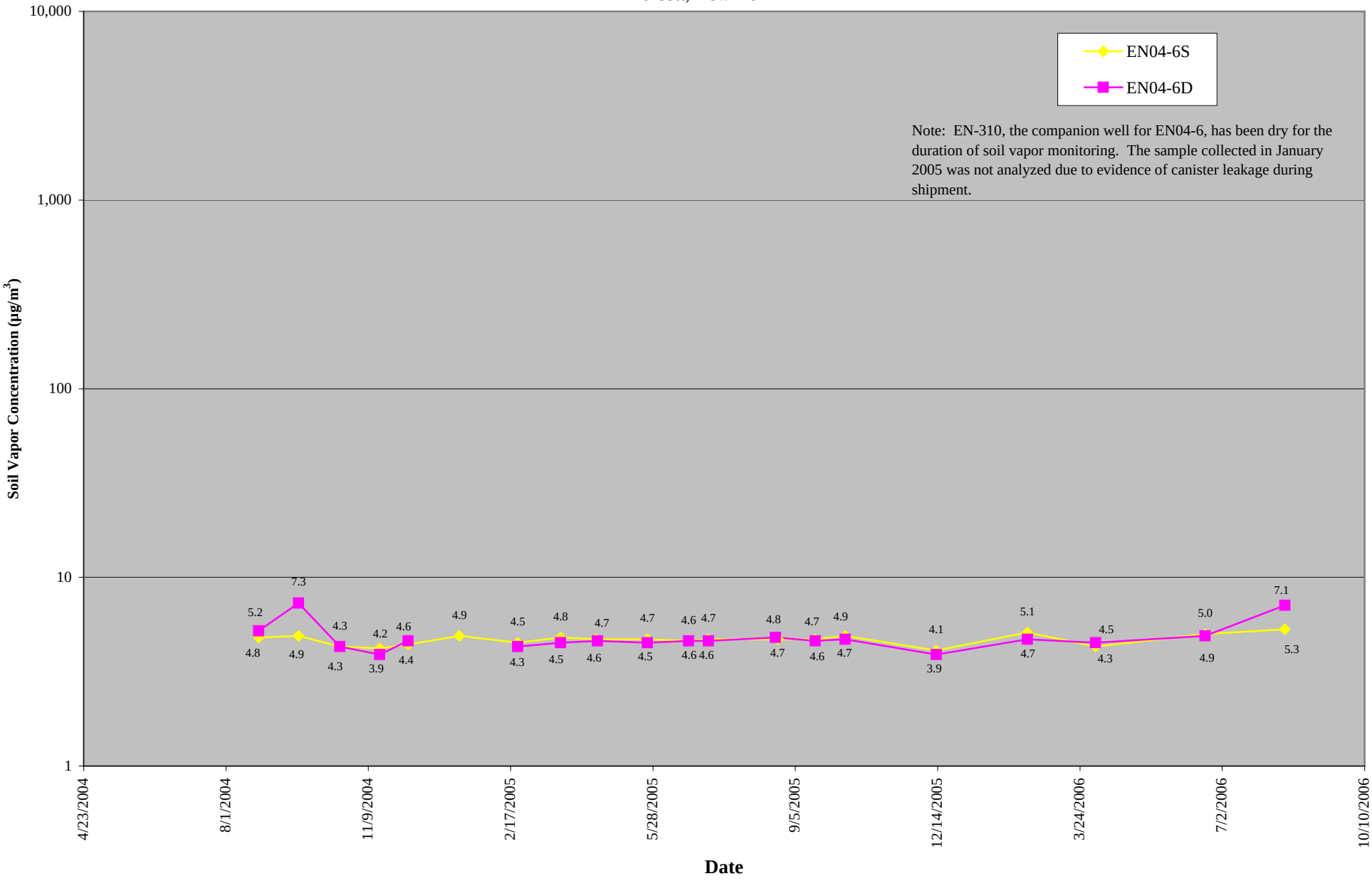
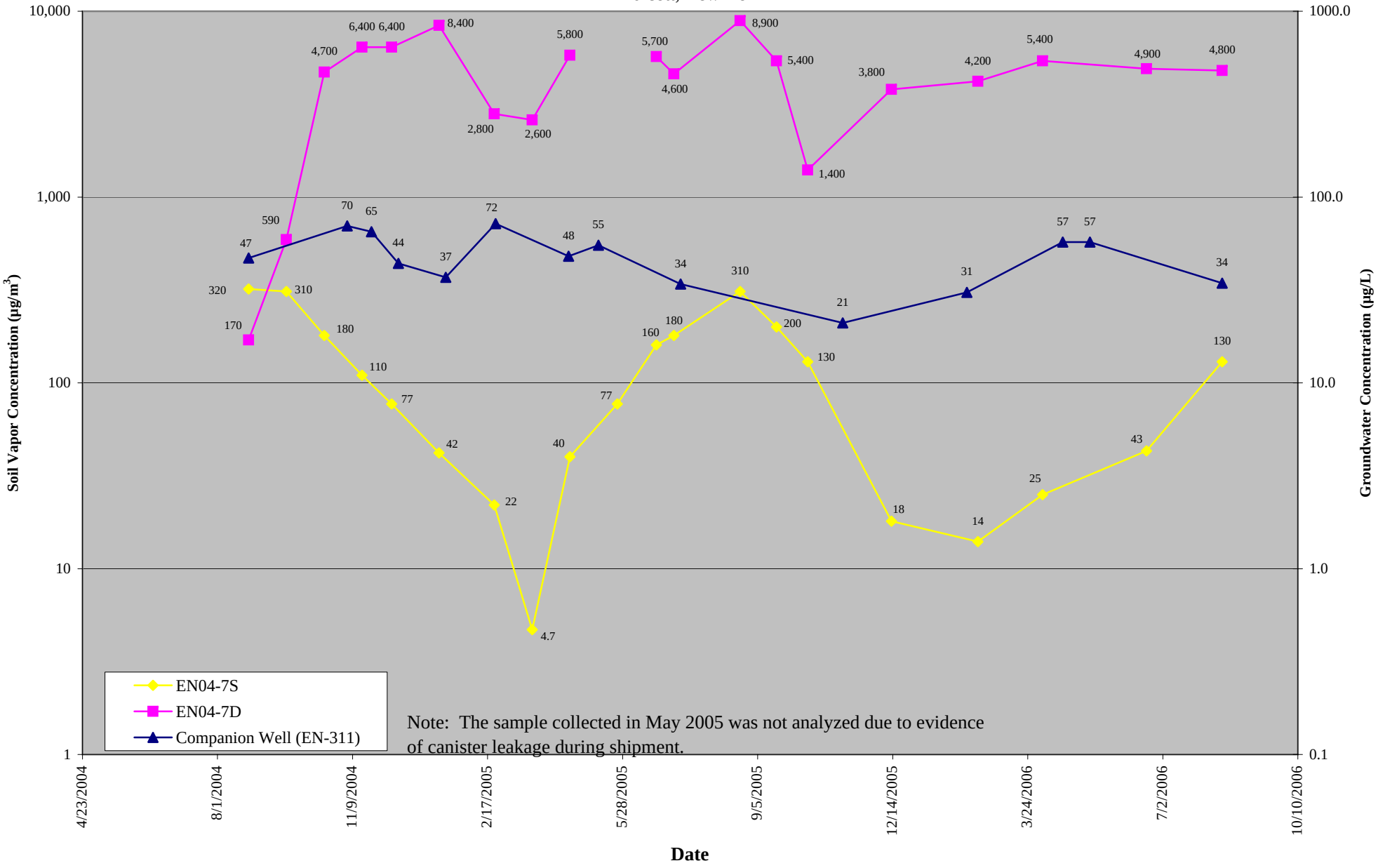
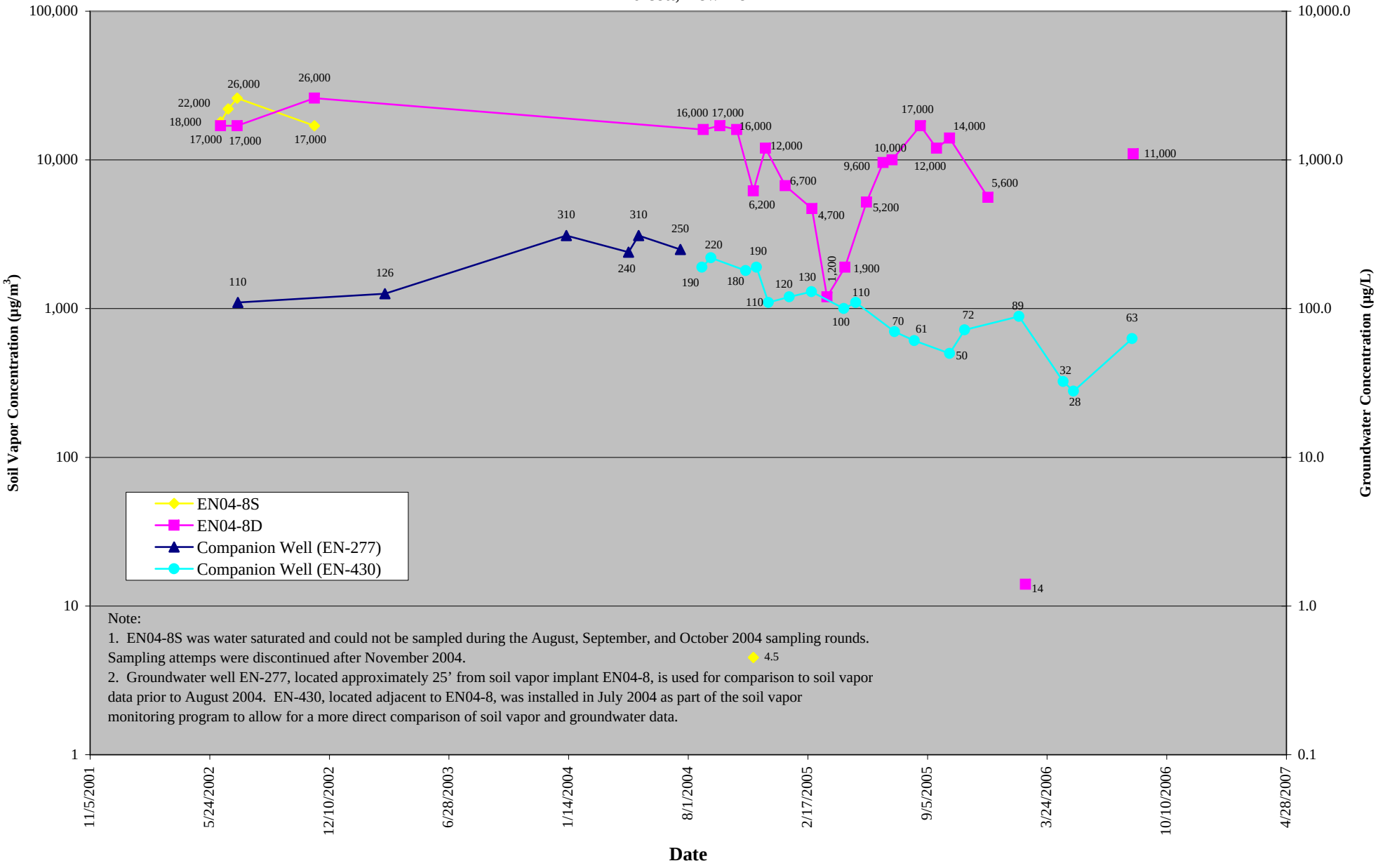


Figure B.7
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



Note: The sample collected in May 2005 was not analyzed due to evidence of canister leakage during shipment.

Figure B.8
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



Note:
1. EN04-8S was water saturated and could not be sampled during the August, September, and October 2004 sampling rounds. Sampling attemps were discontinued after November 2004.
2. Groundwater well EN-277, located approximately 25' from soil vapor implant EN04-8, is used for comparison to soil vapor data prior to August 2004. EN-430, located adjacent to EN04-8, was installed in July 2004 as part of the soil vapor monitoring program to allow for a more direct comparison of soil vapor and groundwater data.

Figure B.9
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

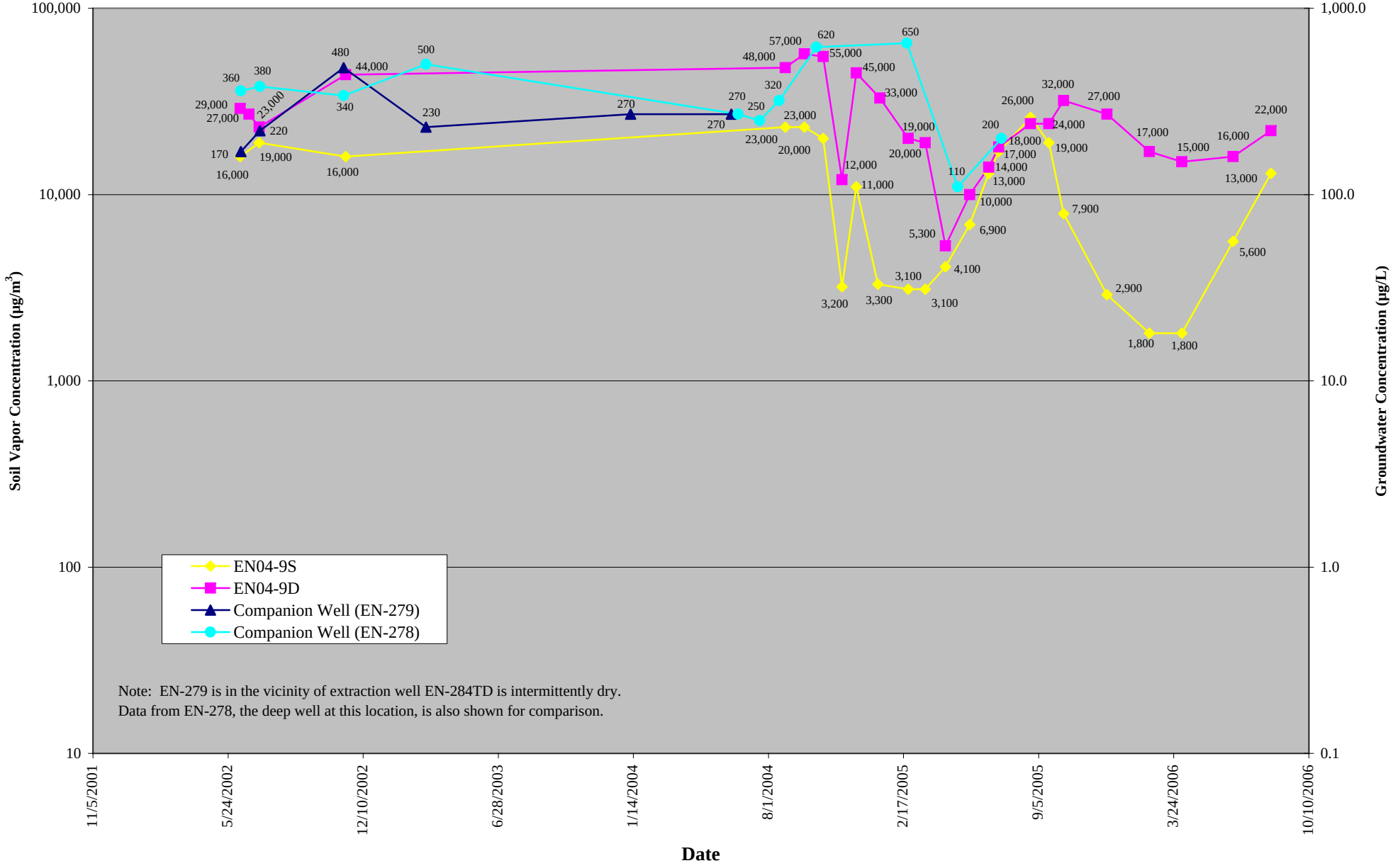


Figure B.10
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

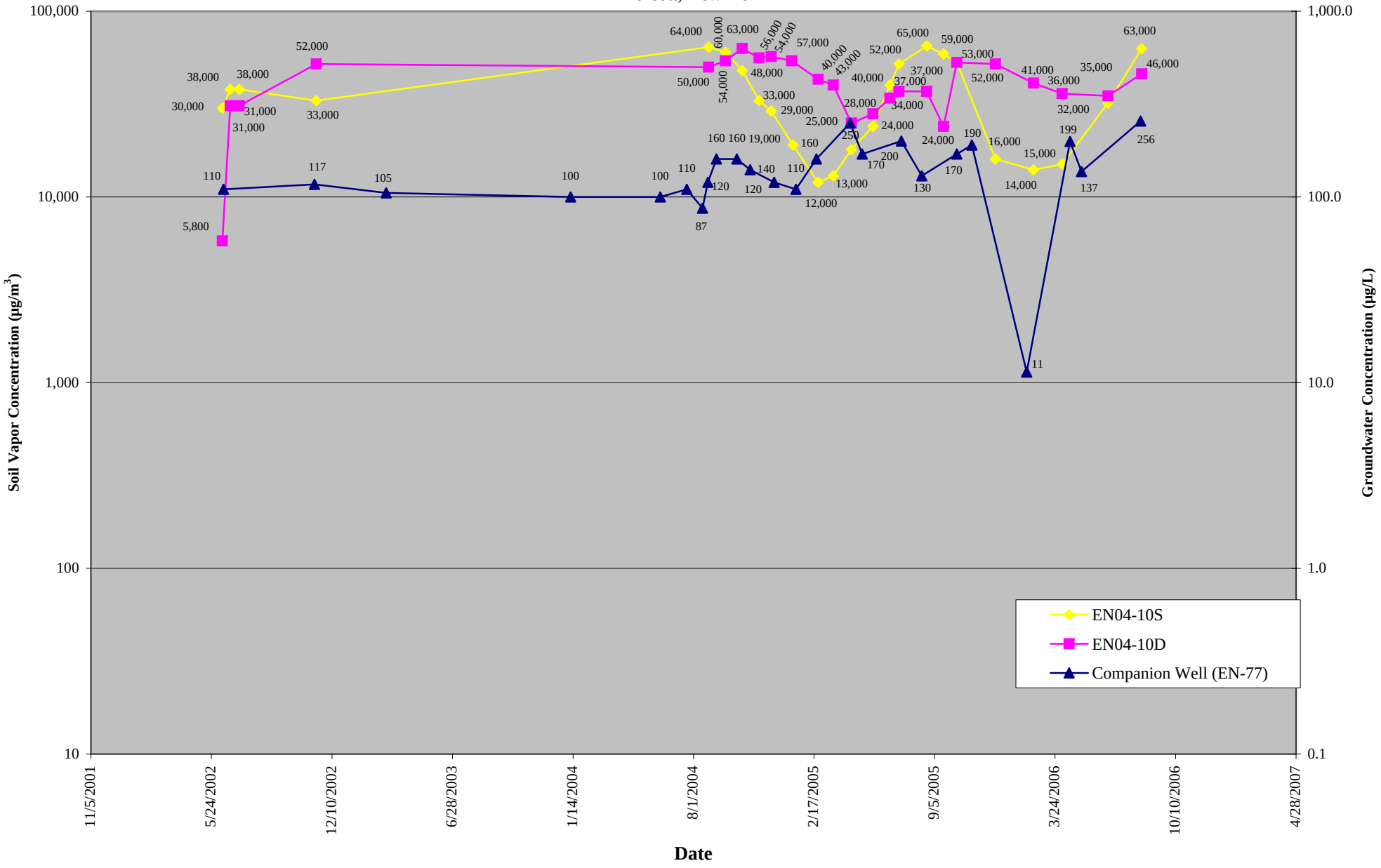


Figure B.11
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

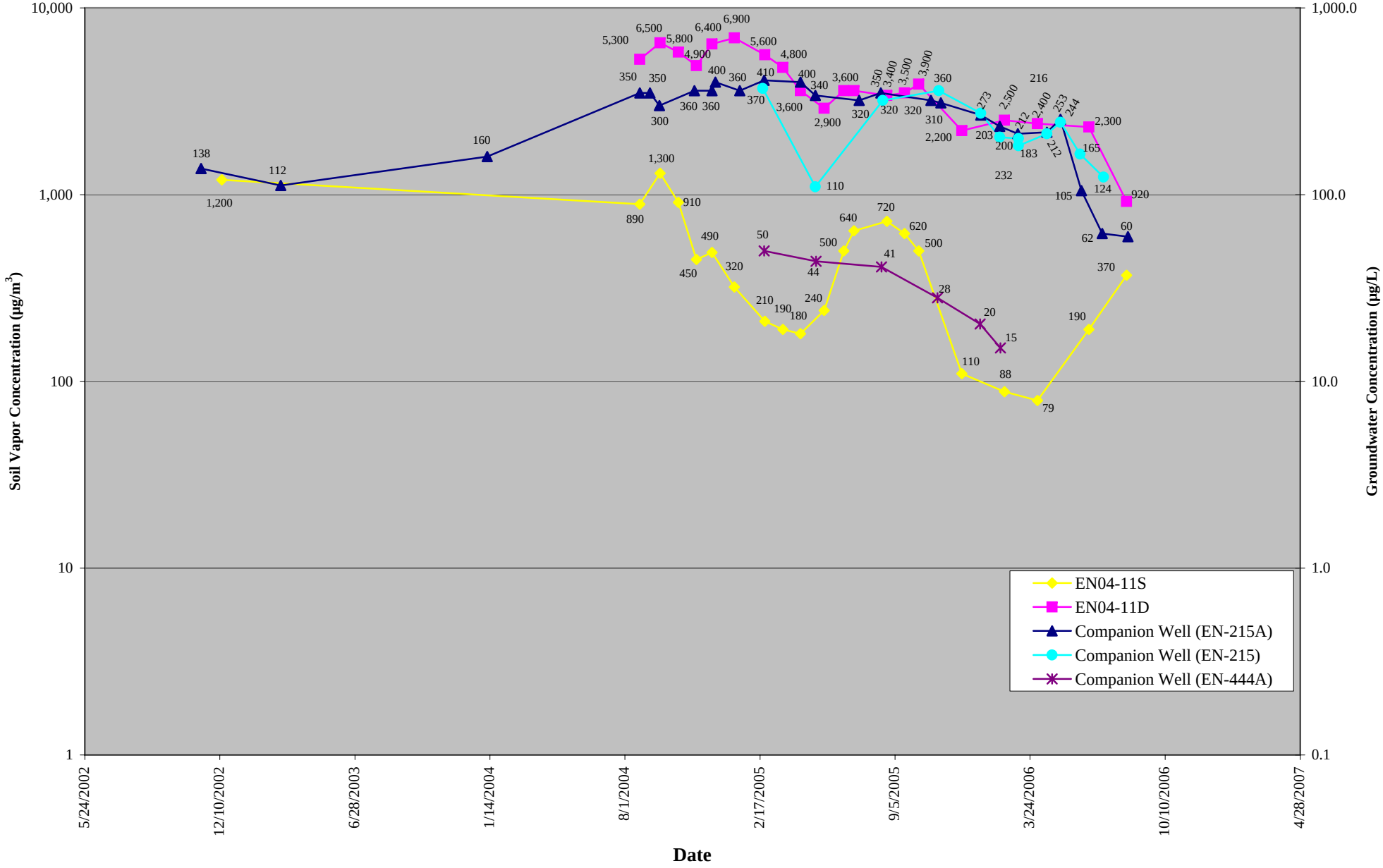


Figure B.12
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

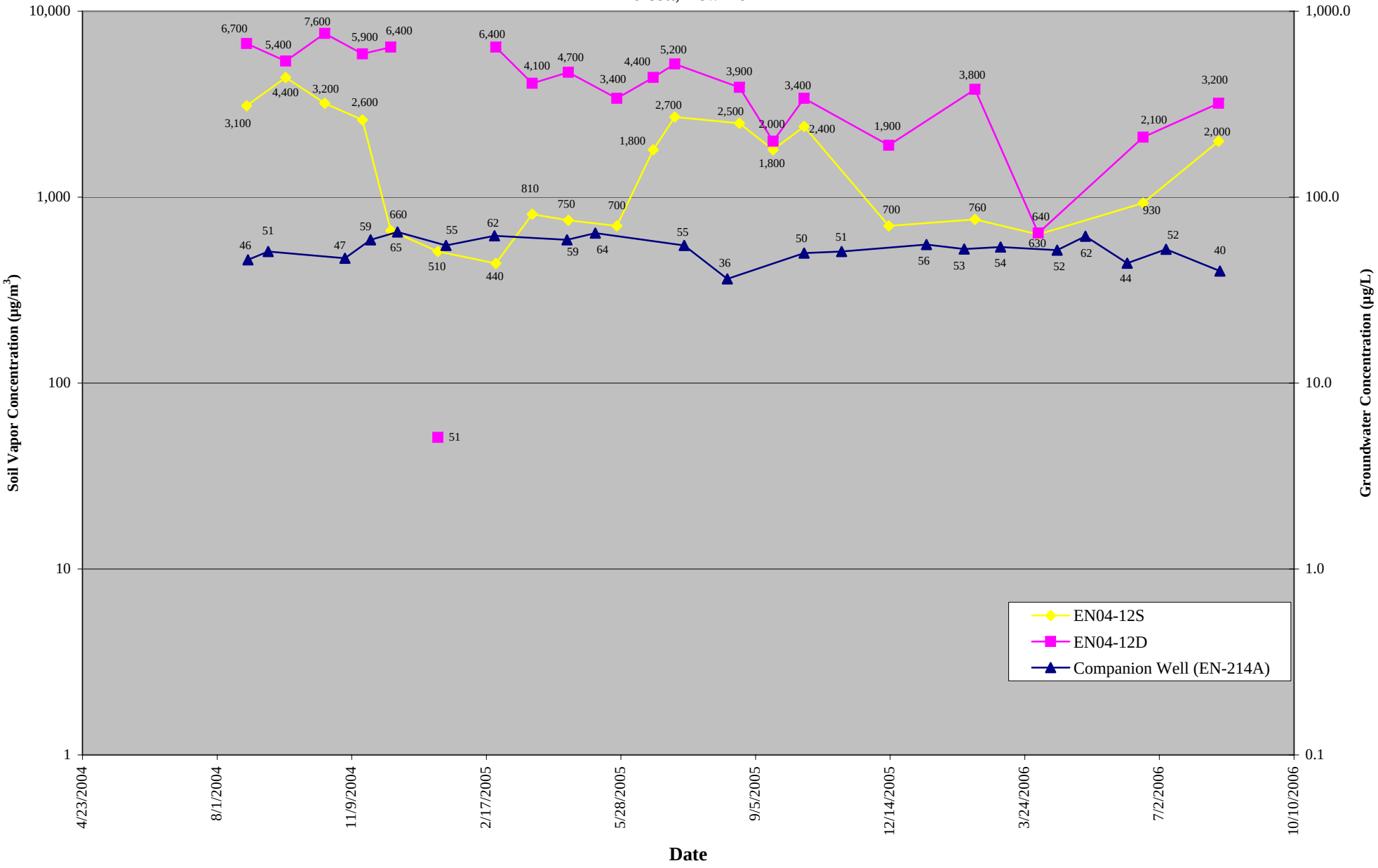


Figure B.13
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

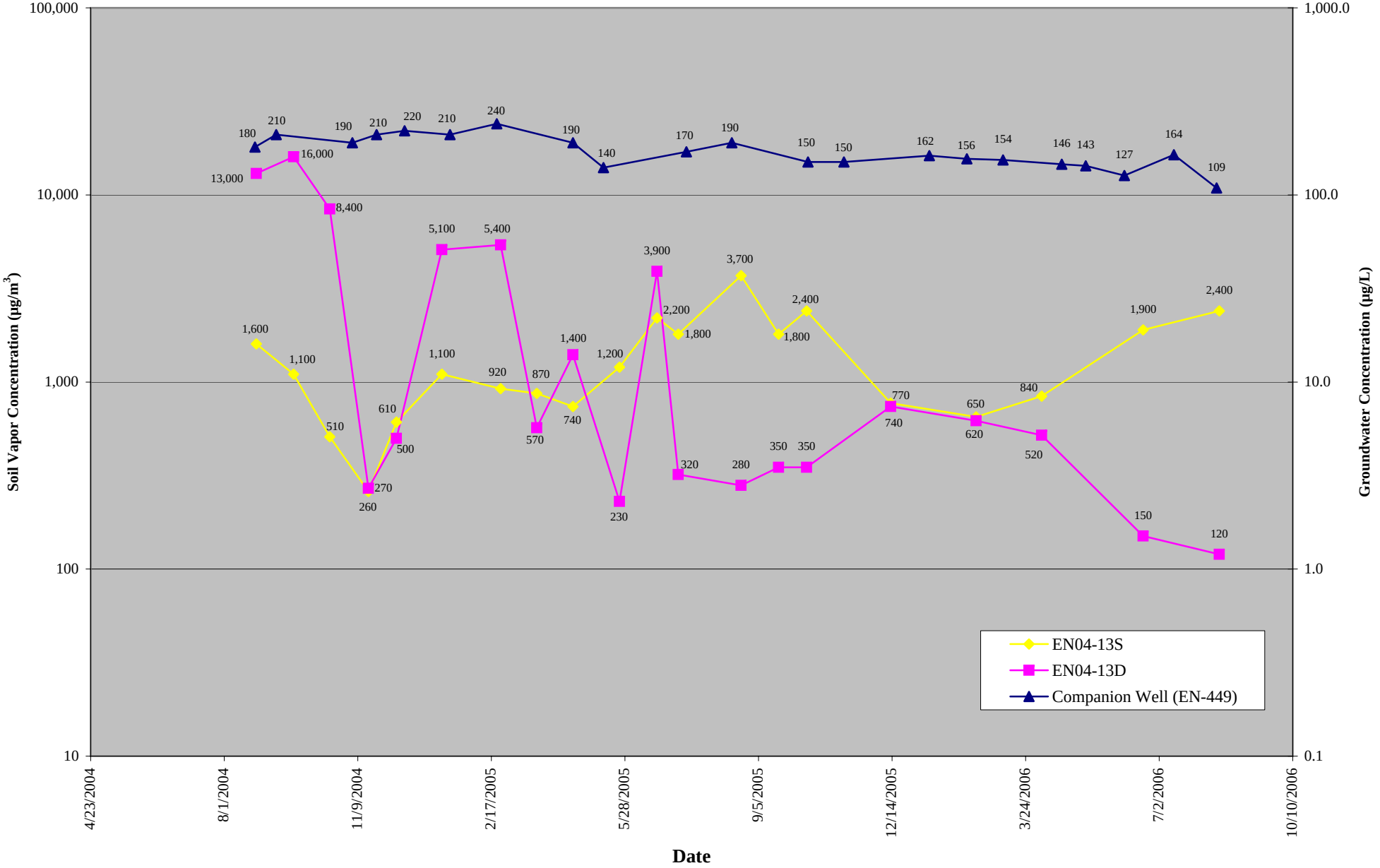


Figure B.14
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

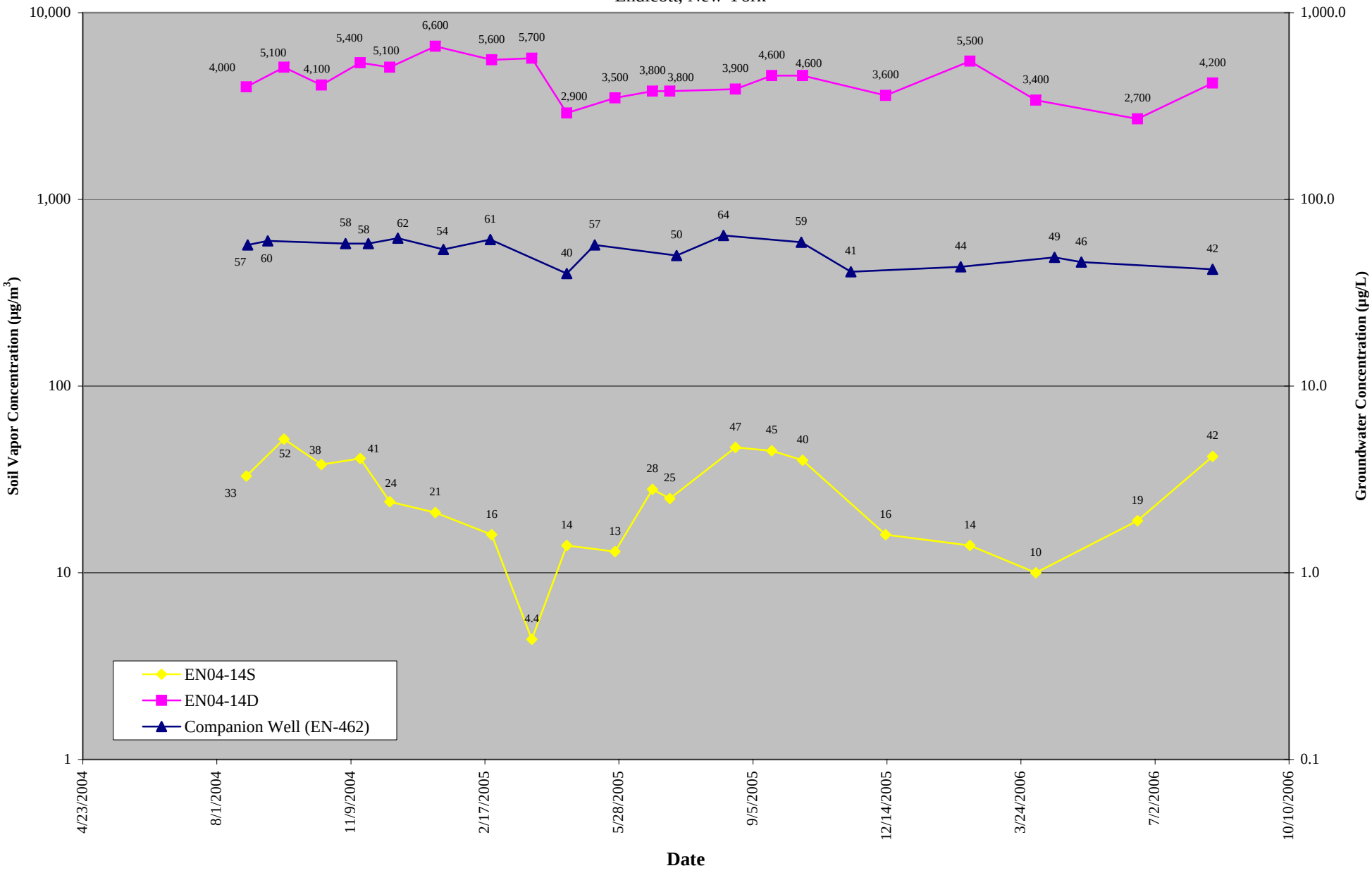


Figure B.15
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

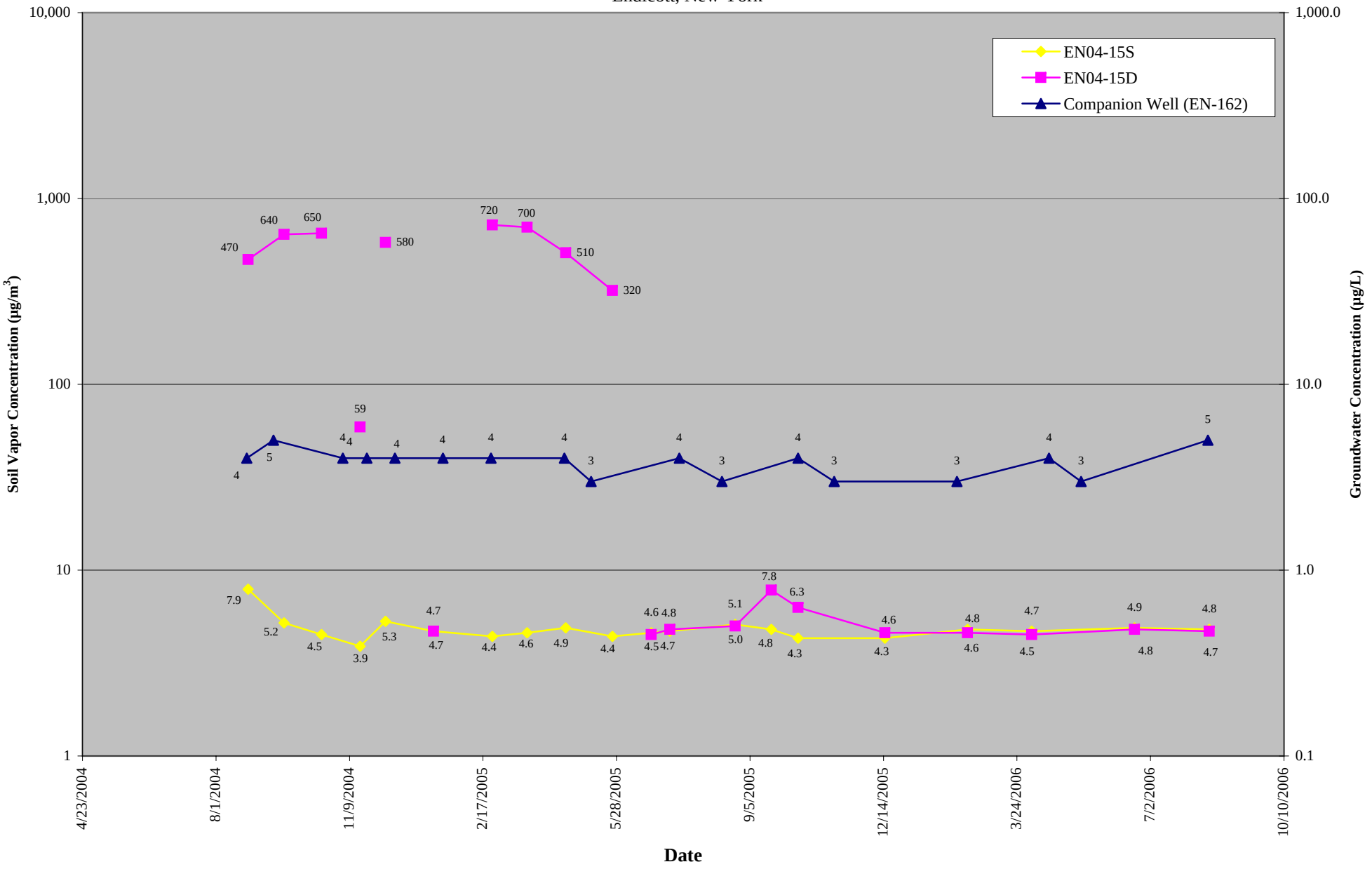


Figure B.16
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

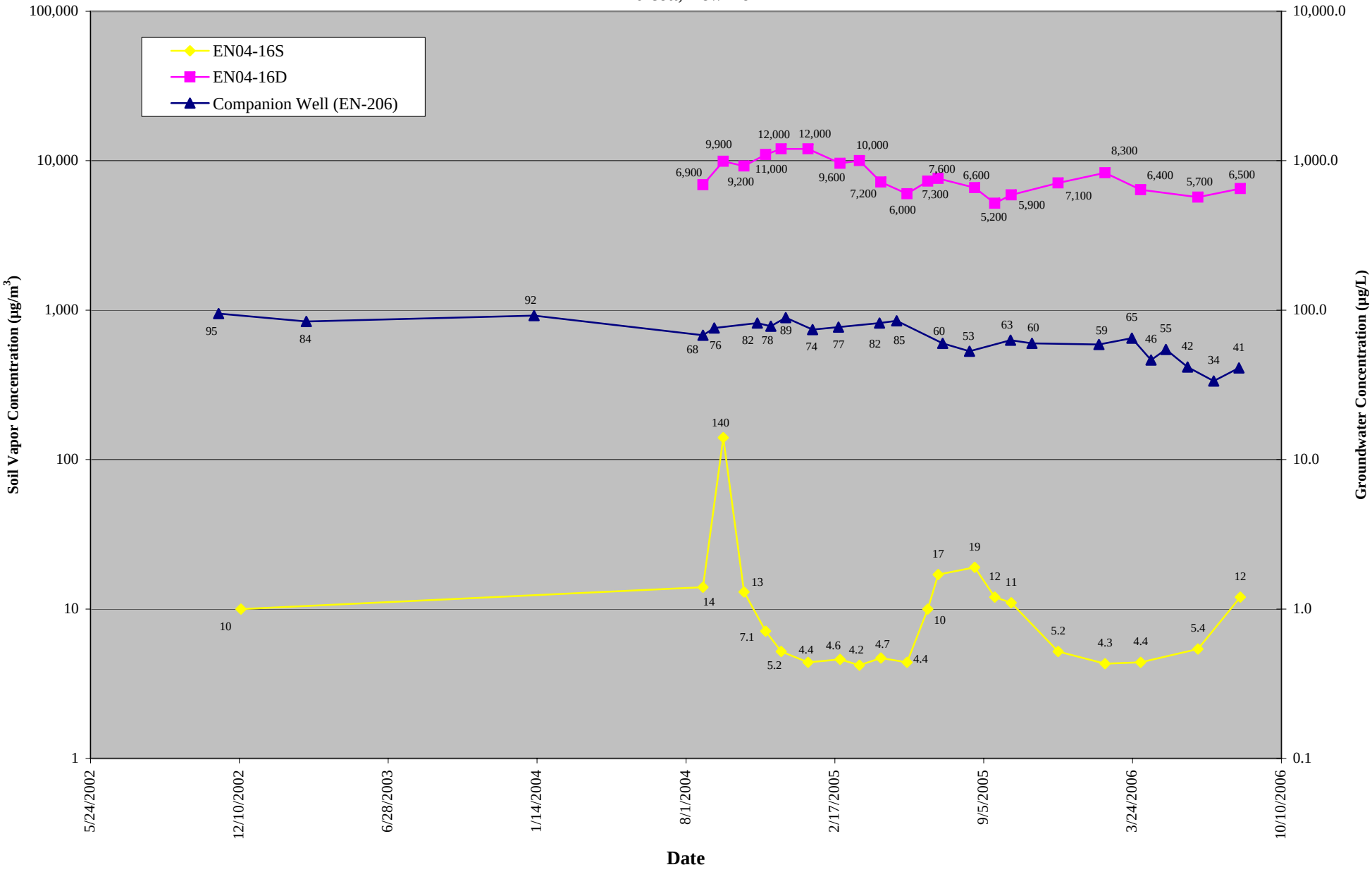


Figure B.17
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

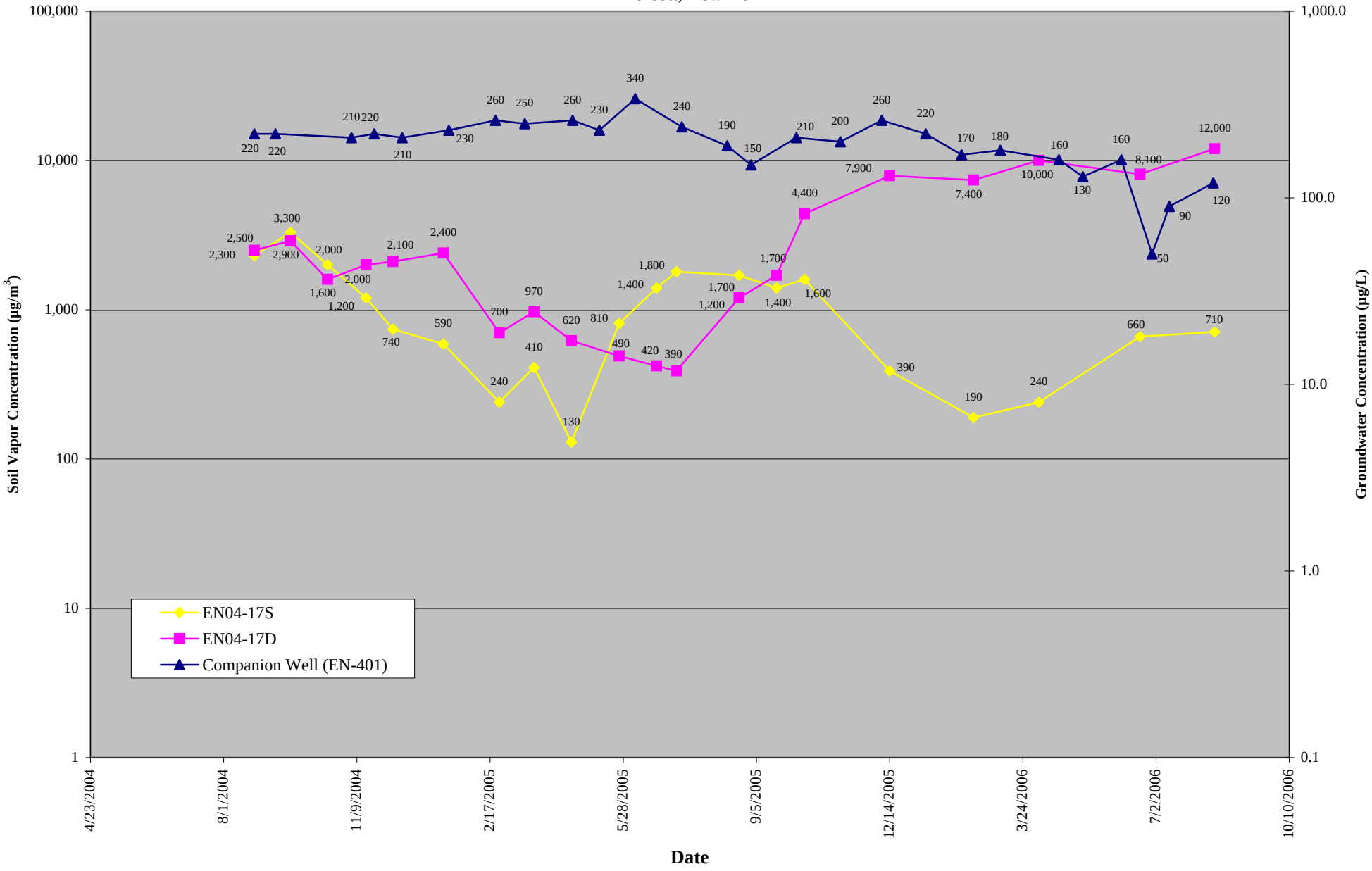


Figure B.18
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

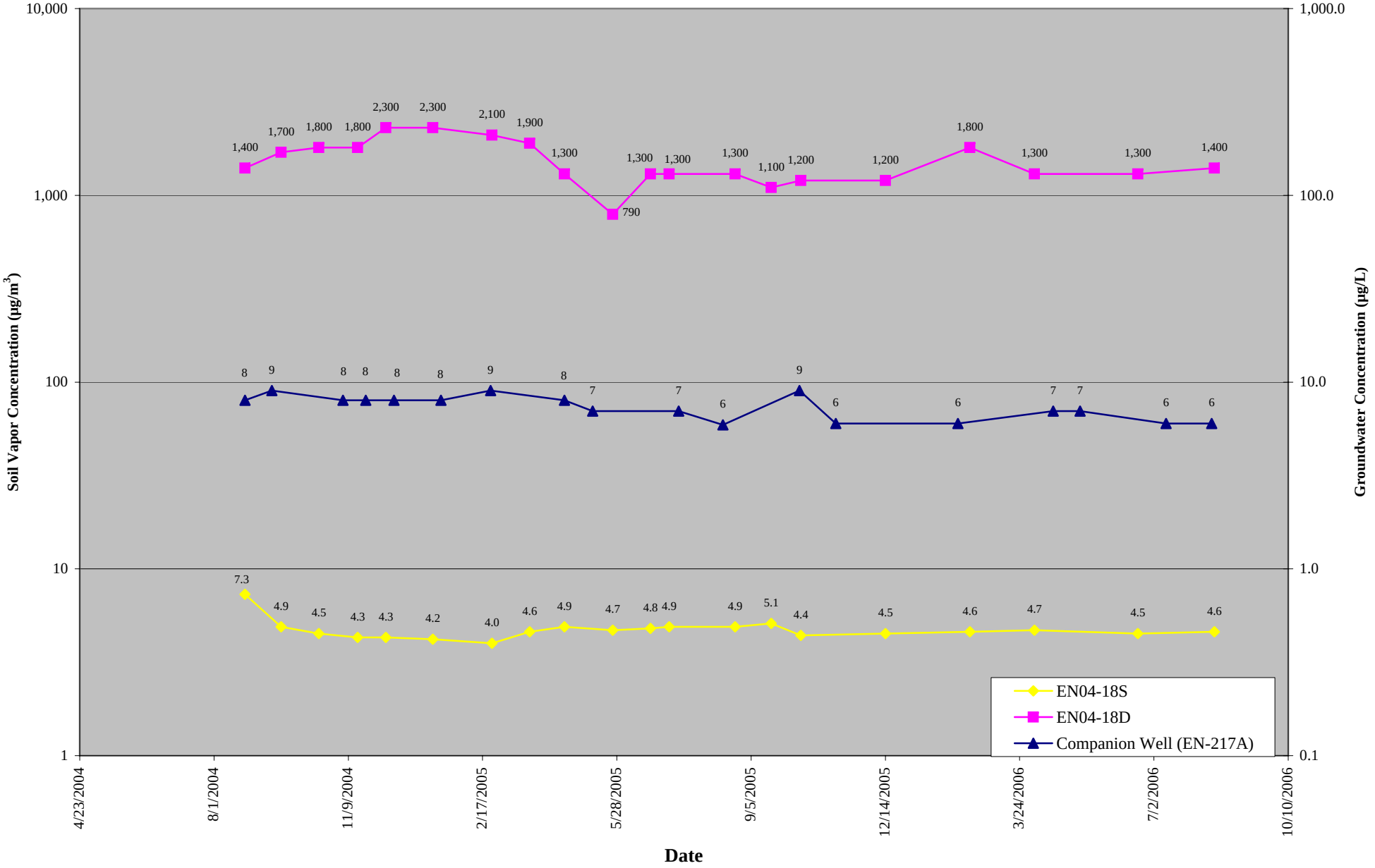


Figure B.19
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

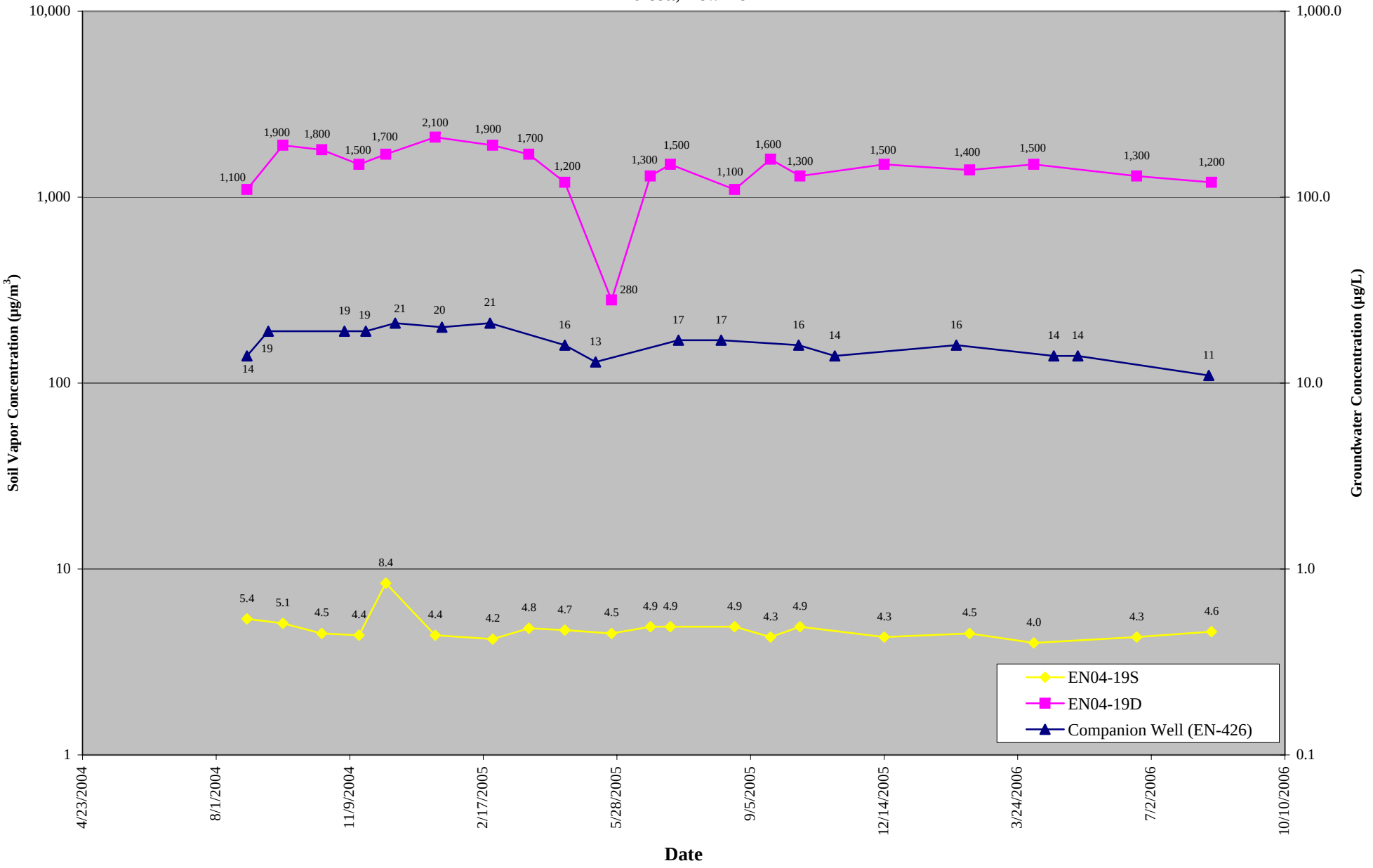


Figure B.20
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

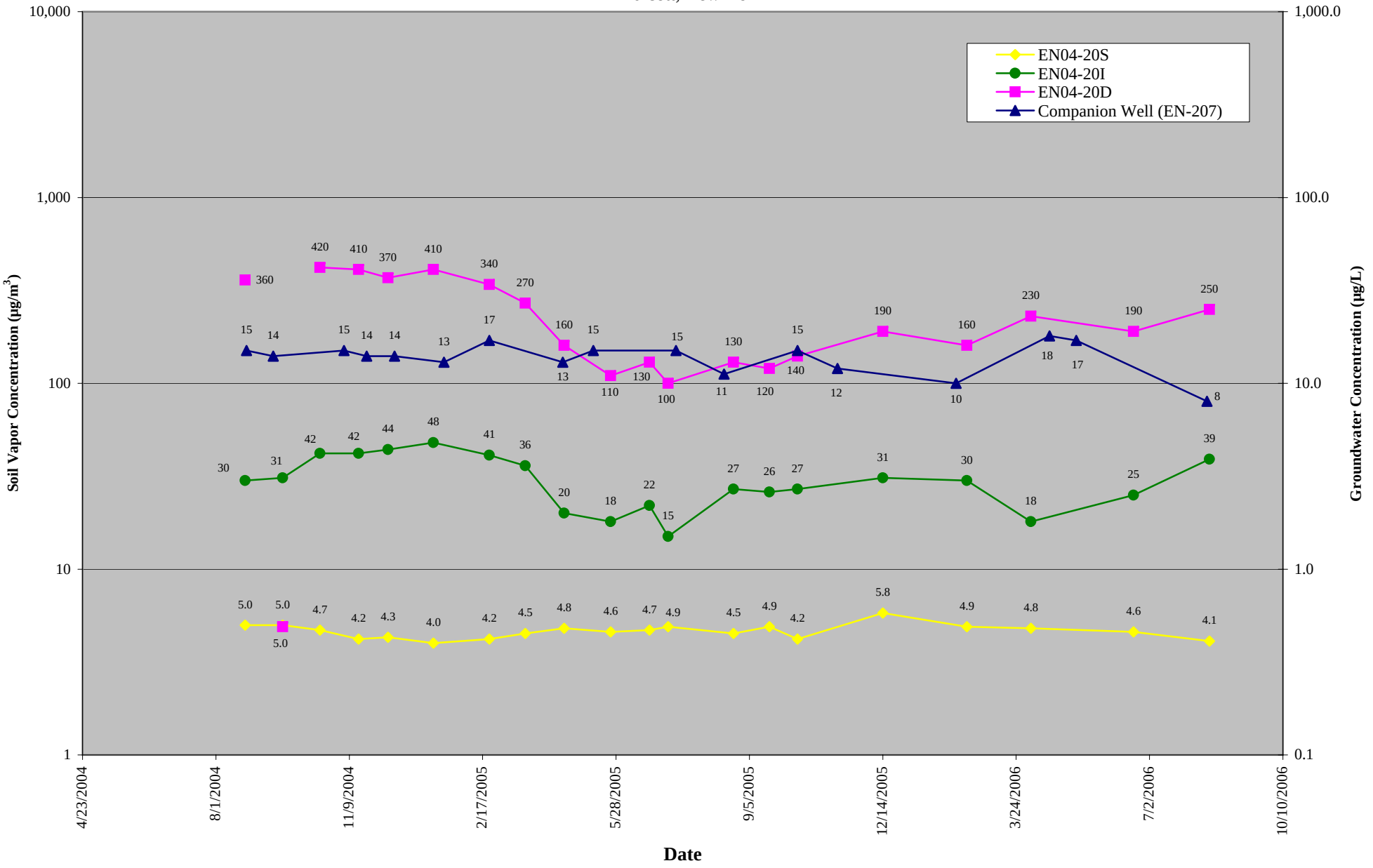


Figure B.21
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

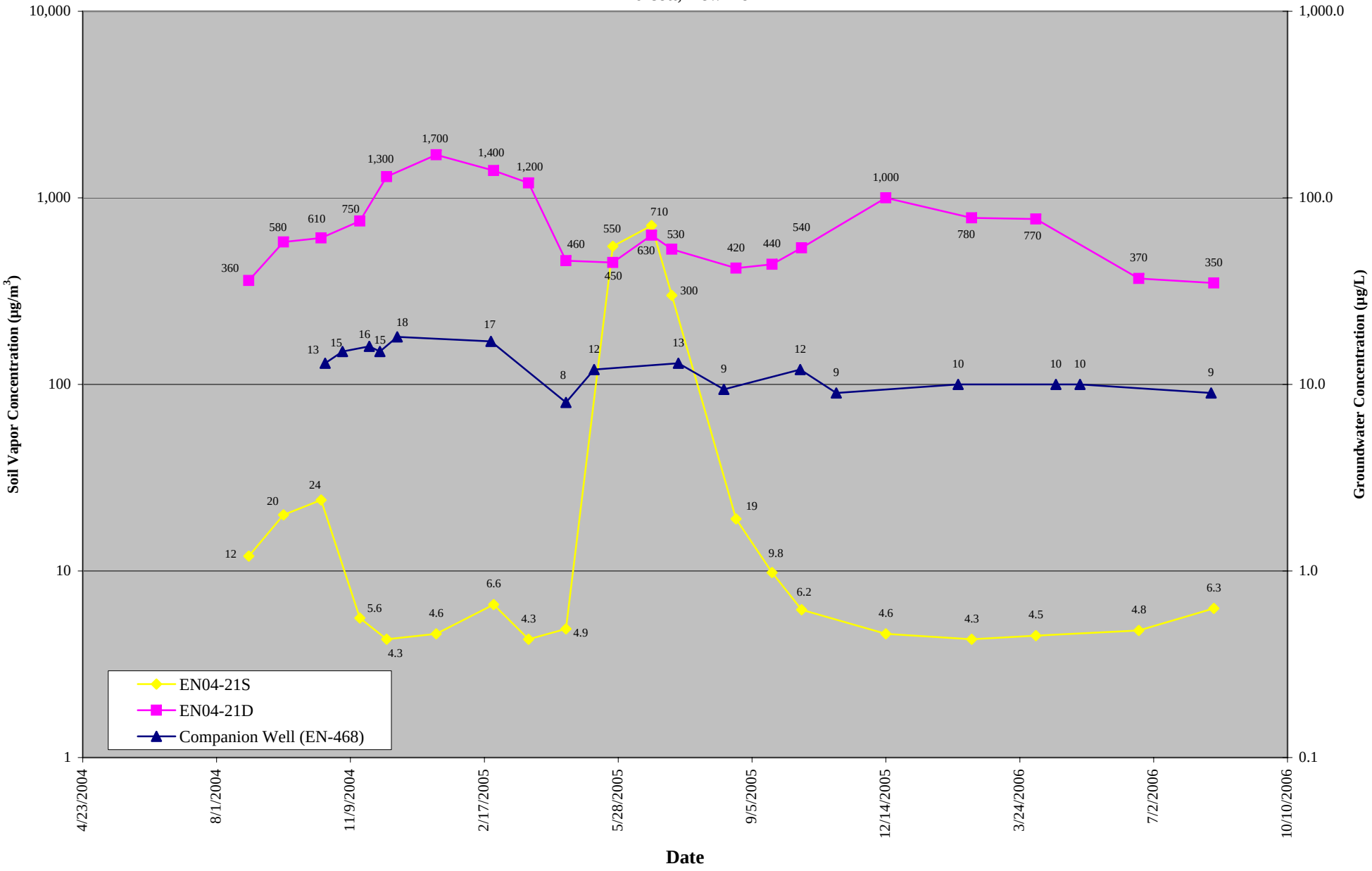


Figure B.22
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

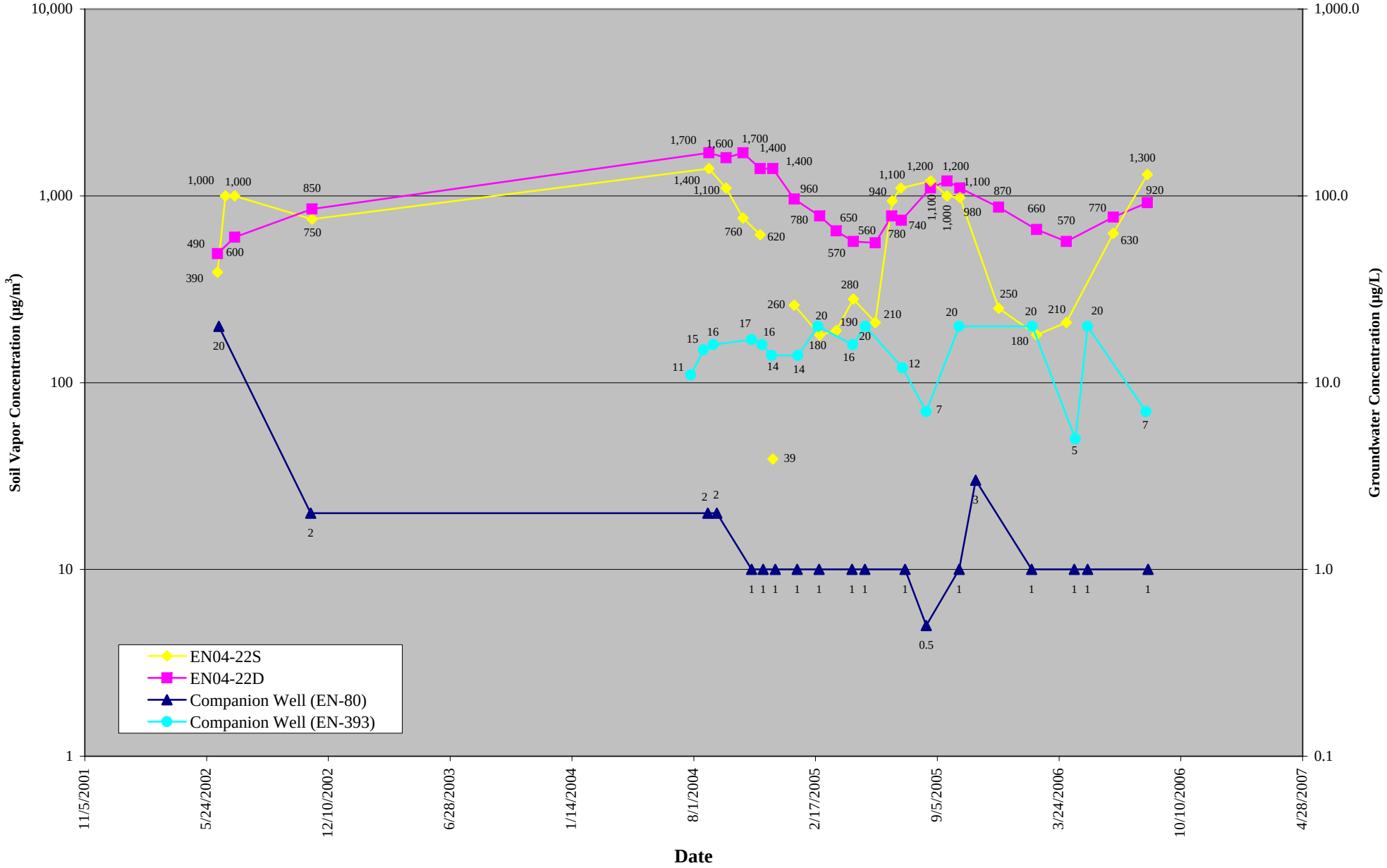


Figure B.23
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

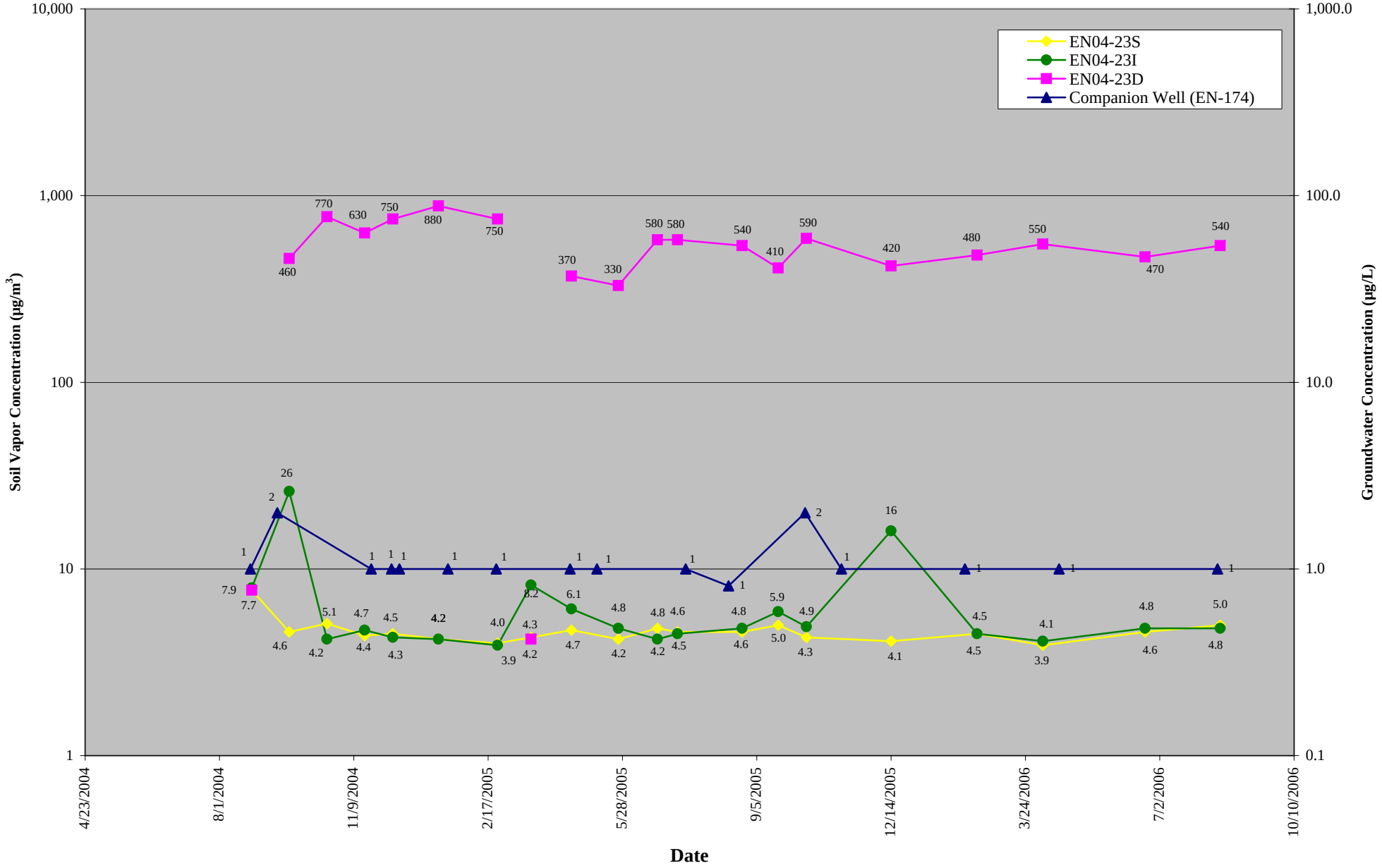


Figure B.24
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

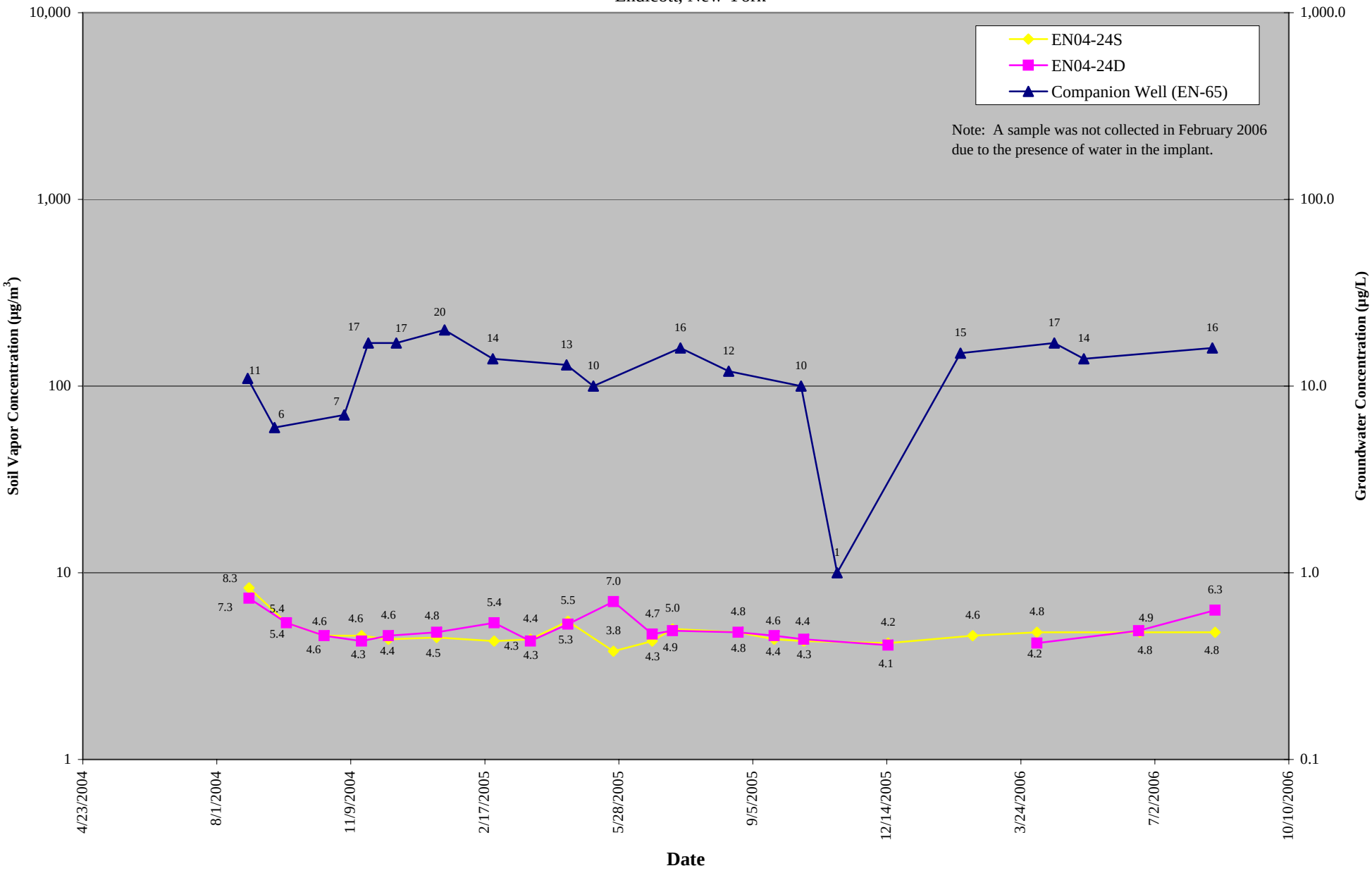


Figure B.25
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

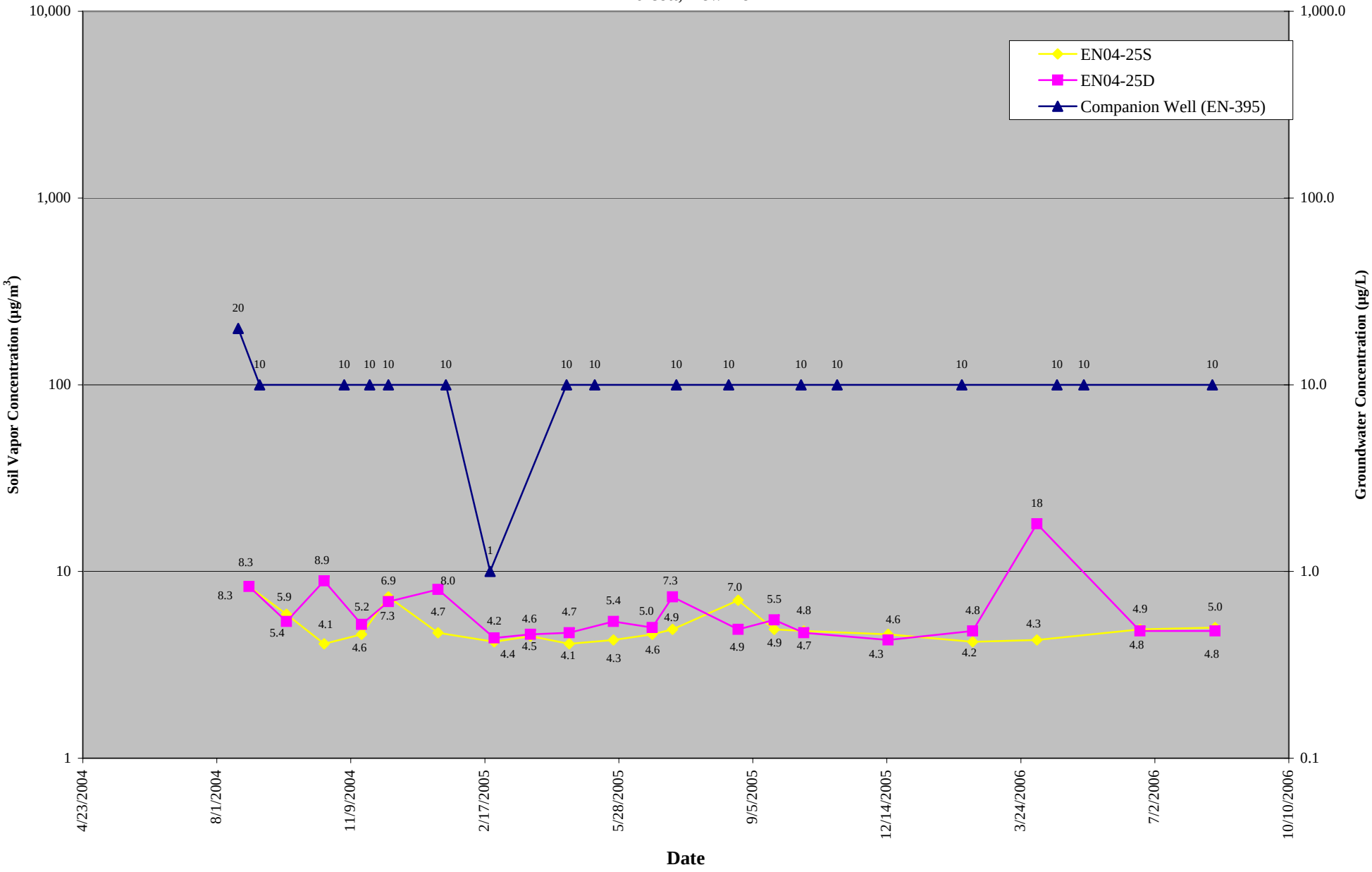


Figure B.26
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

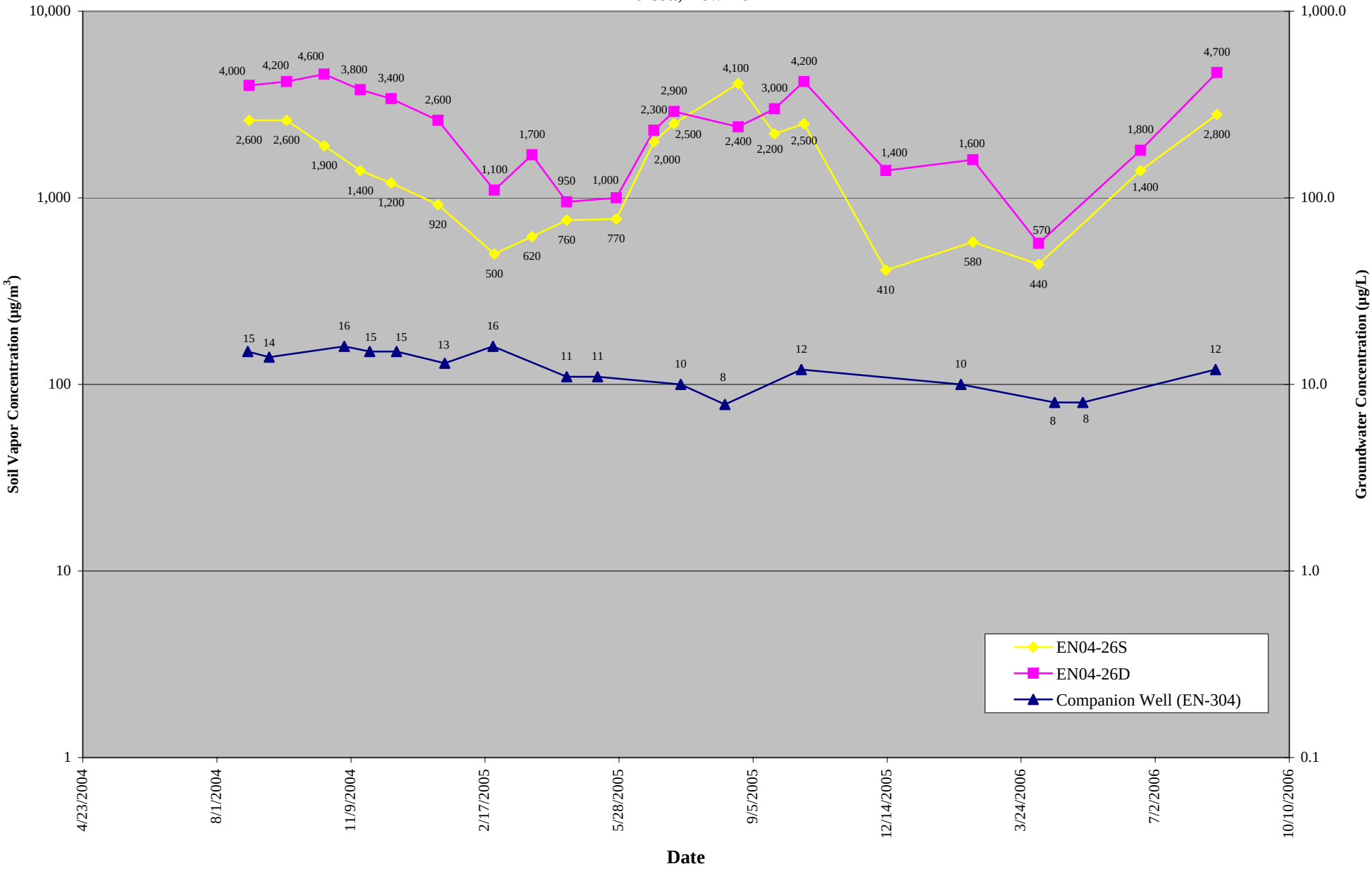


Figure B.27
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

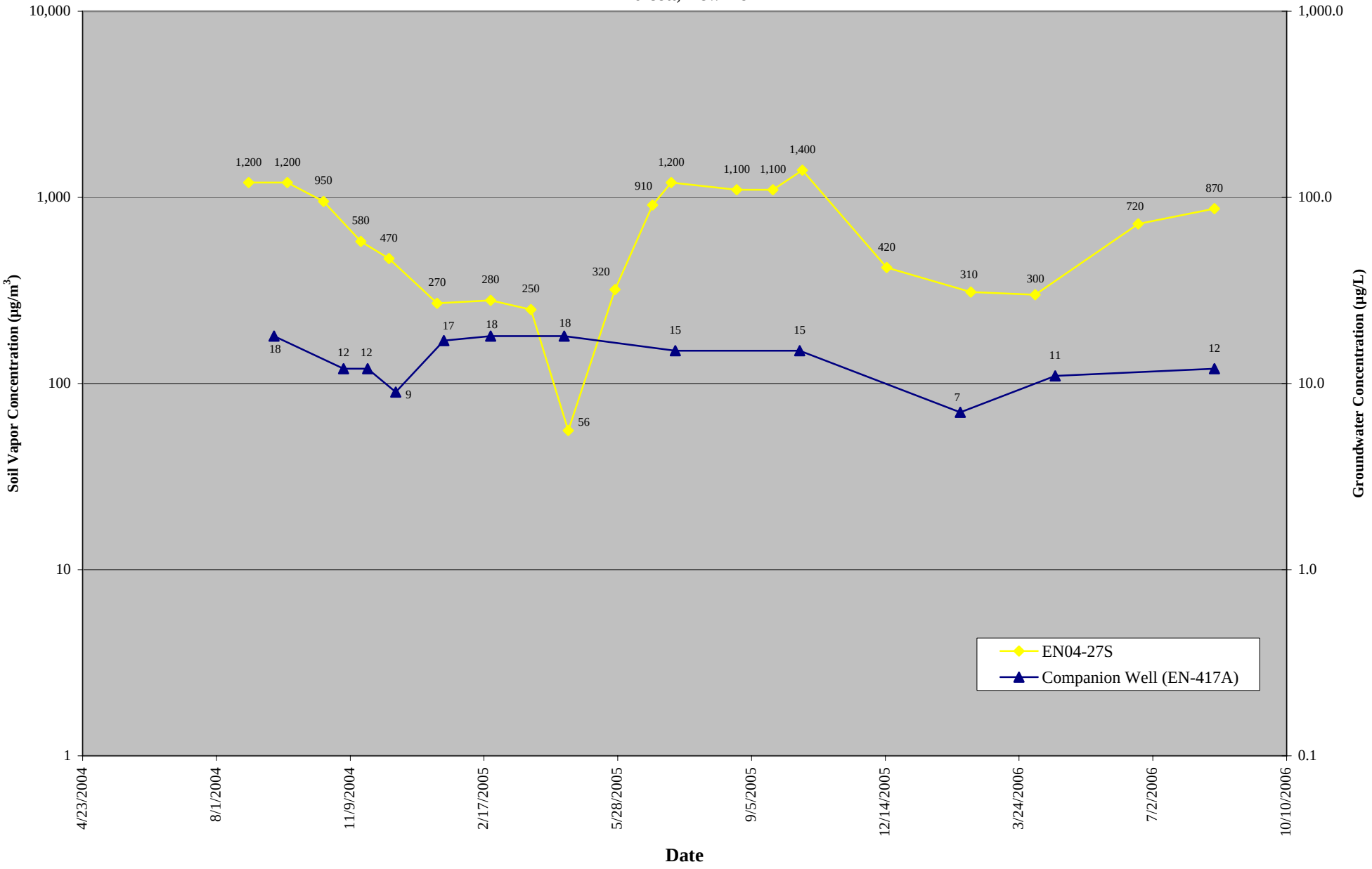


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Figure B.29
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

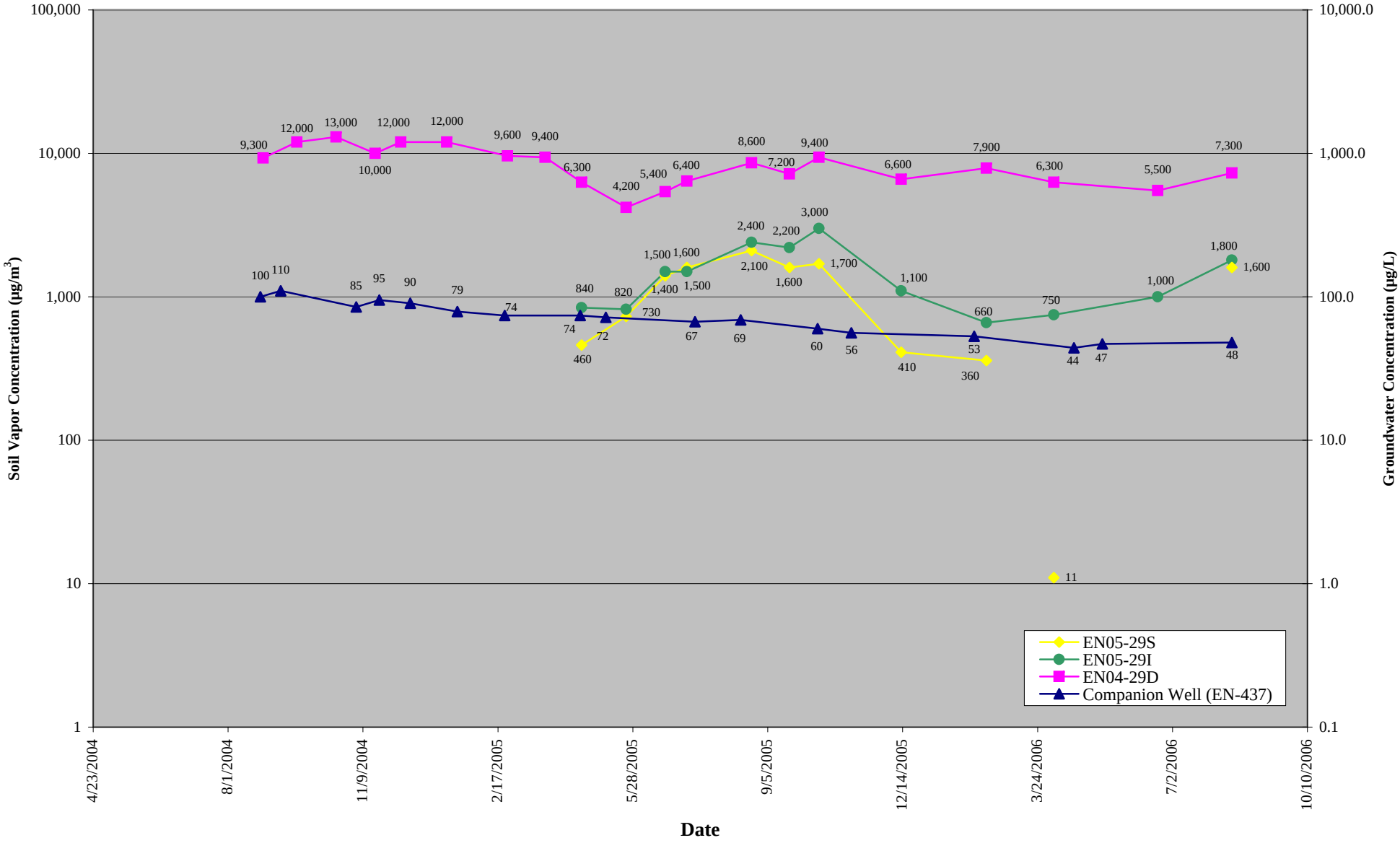


Figure B.30
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

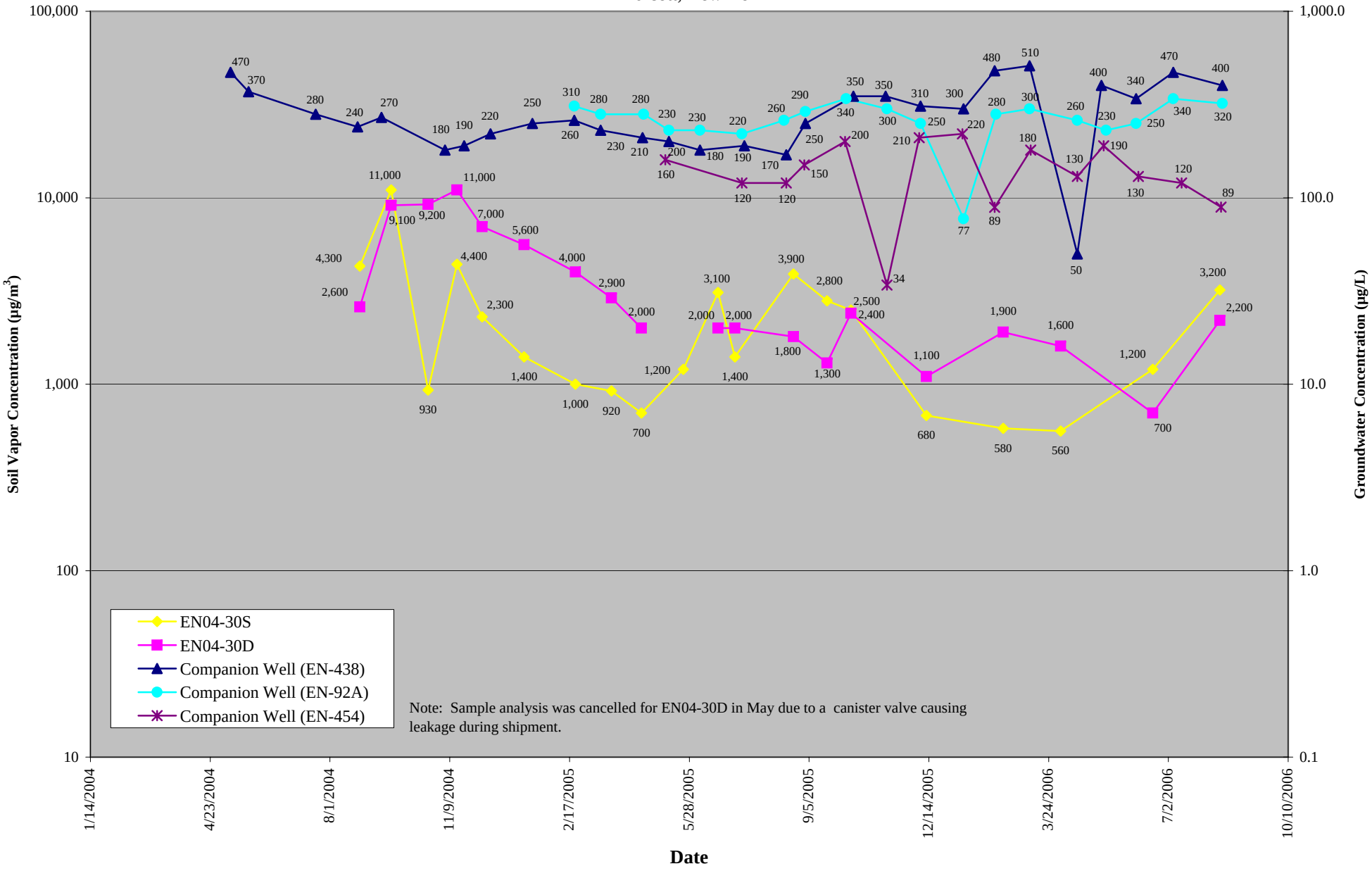


Figure B.31
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

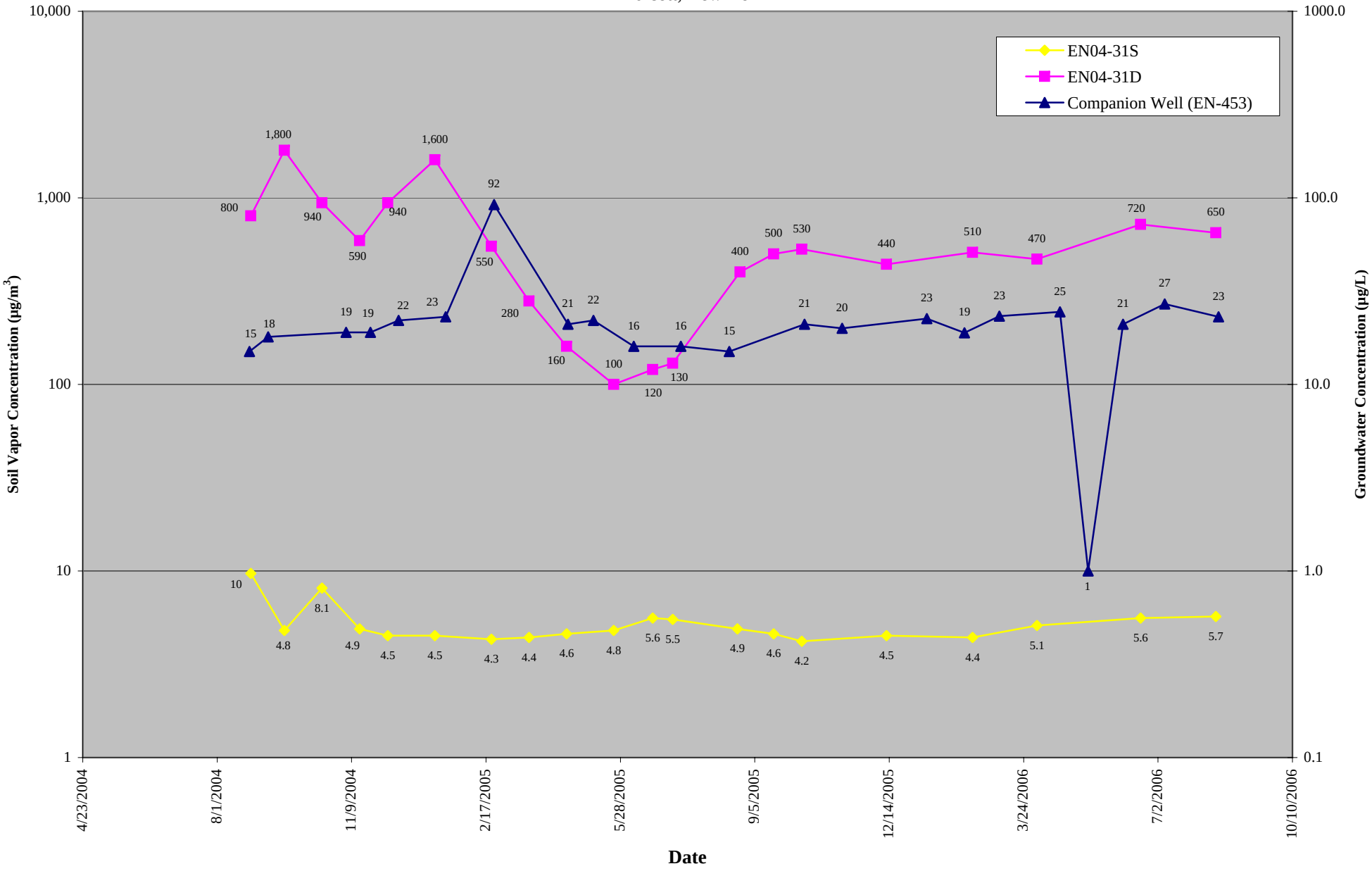


Figure B.32
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

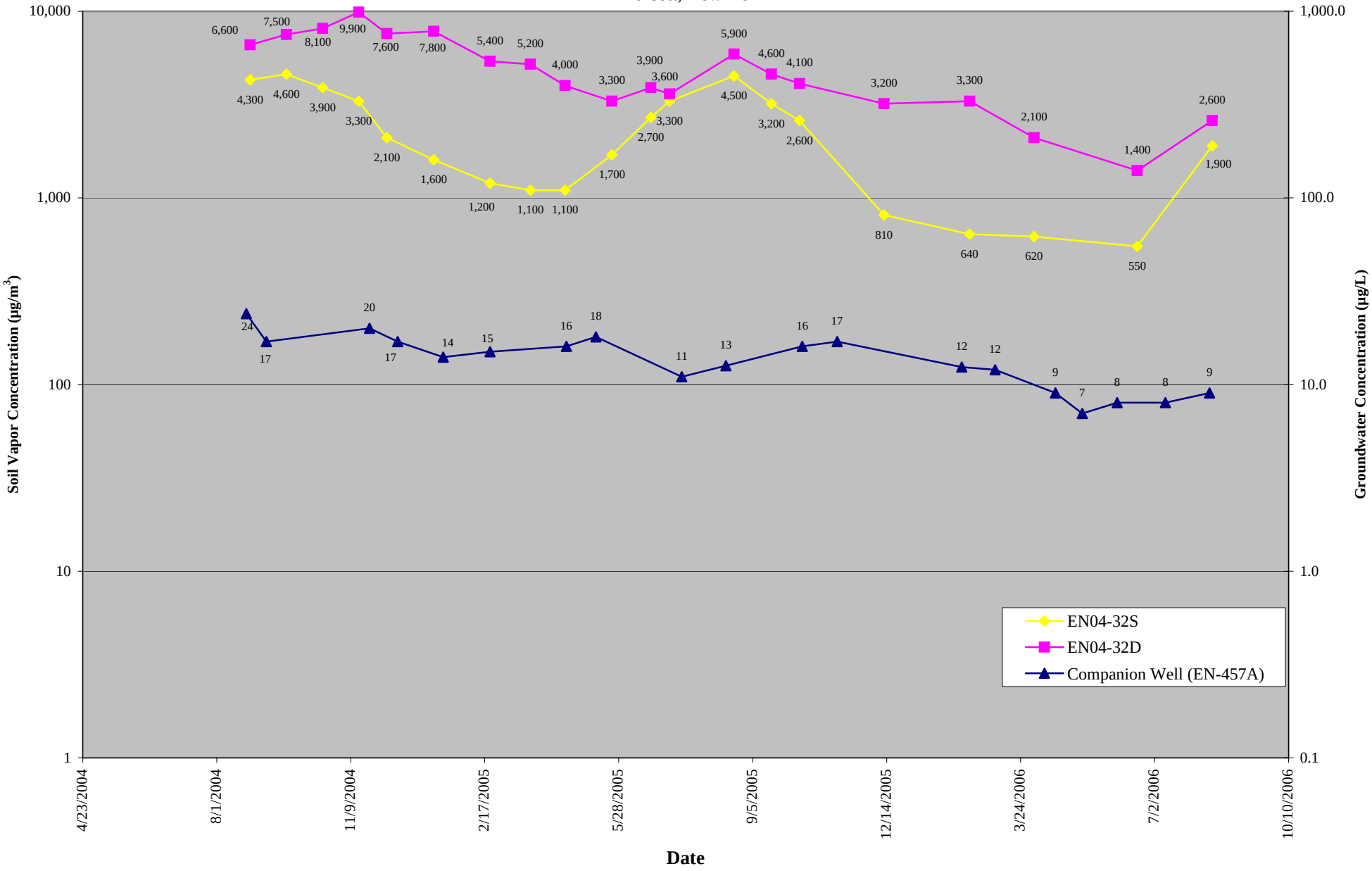


Figure B.33
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

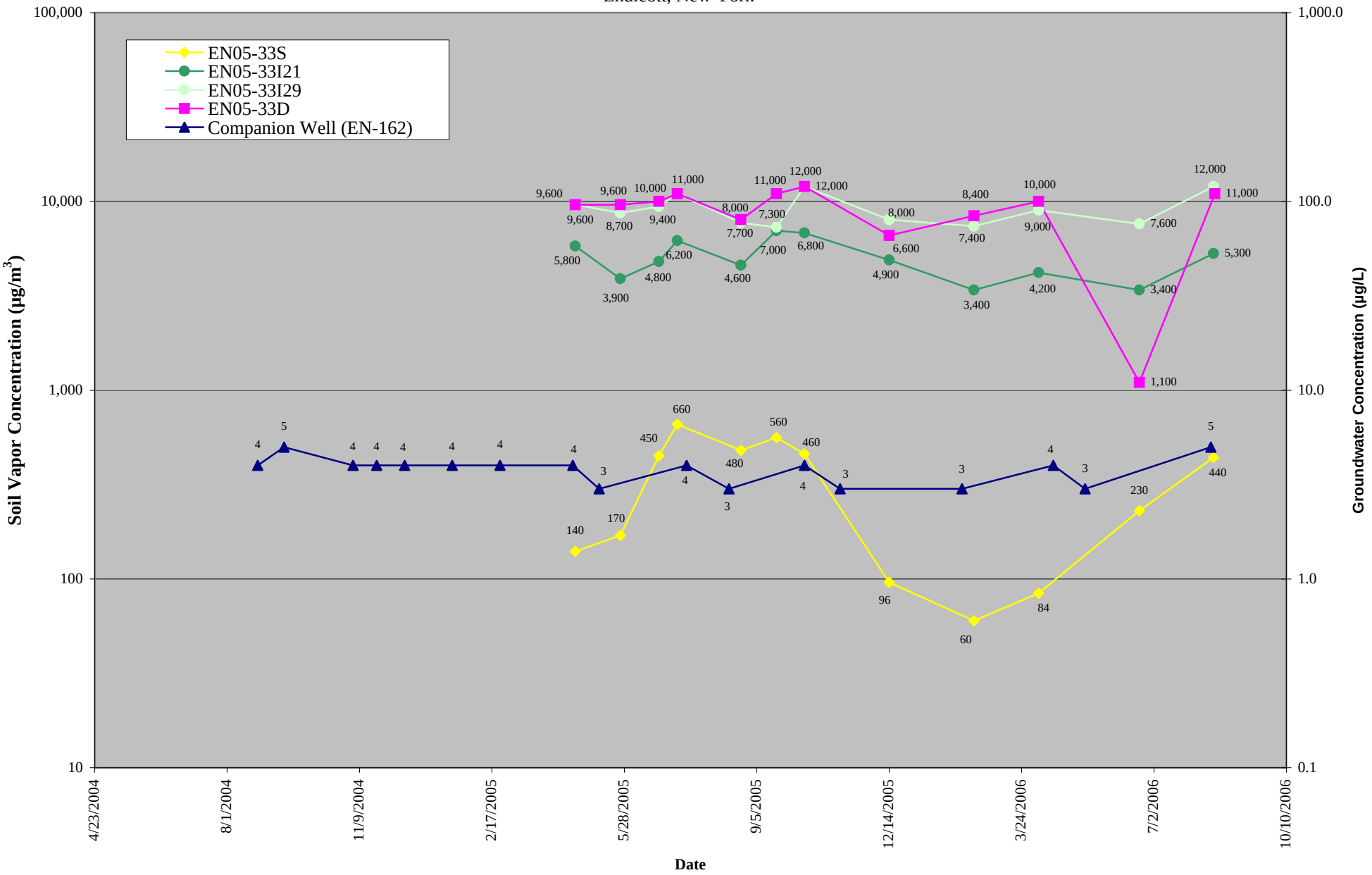


Figure B.34
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

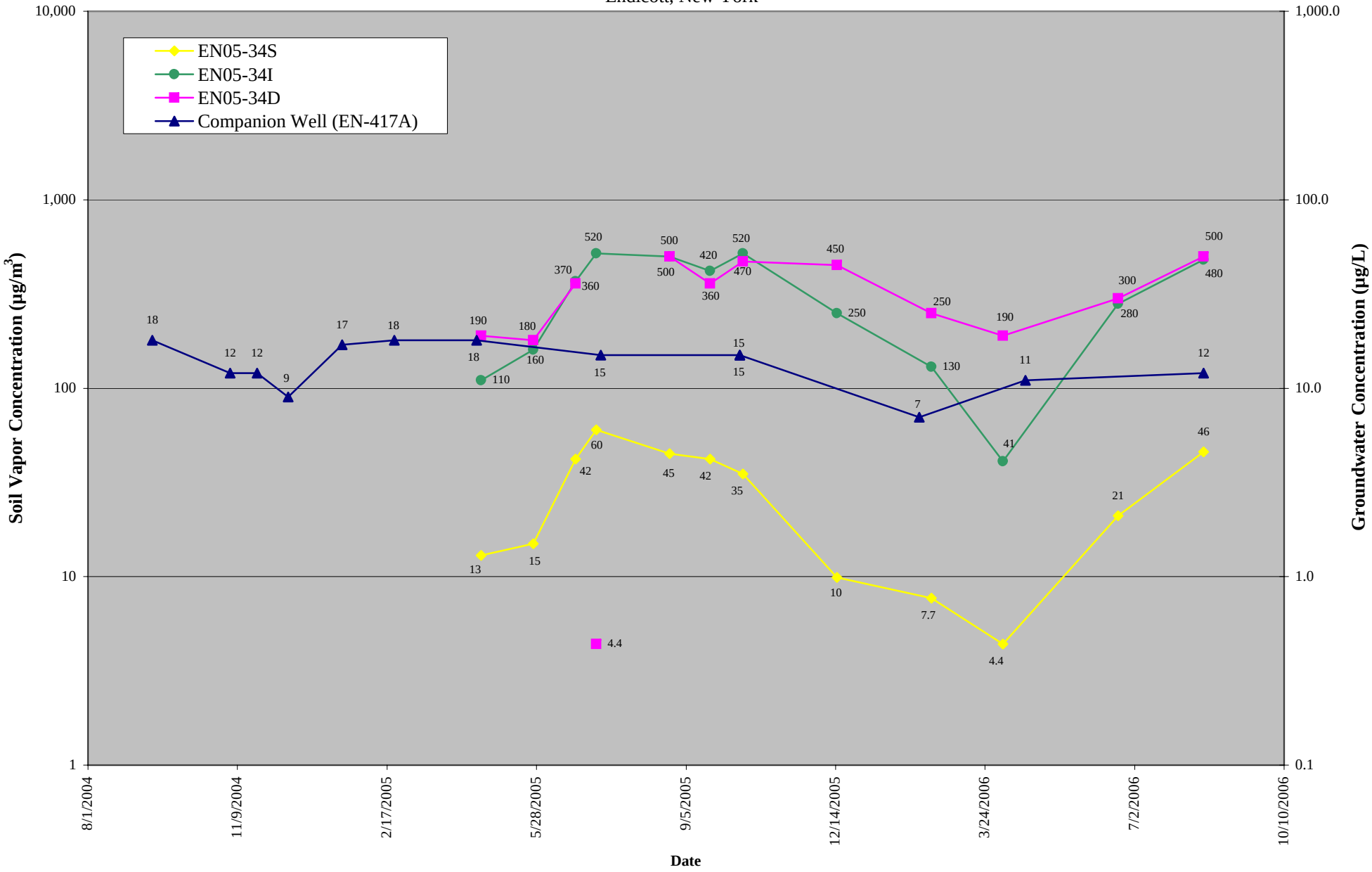


Figure B.35
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

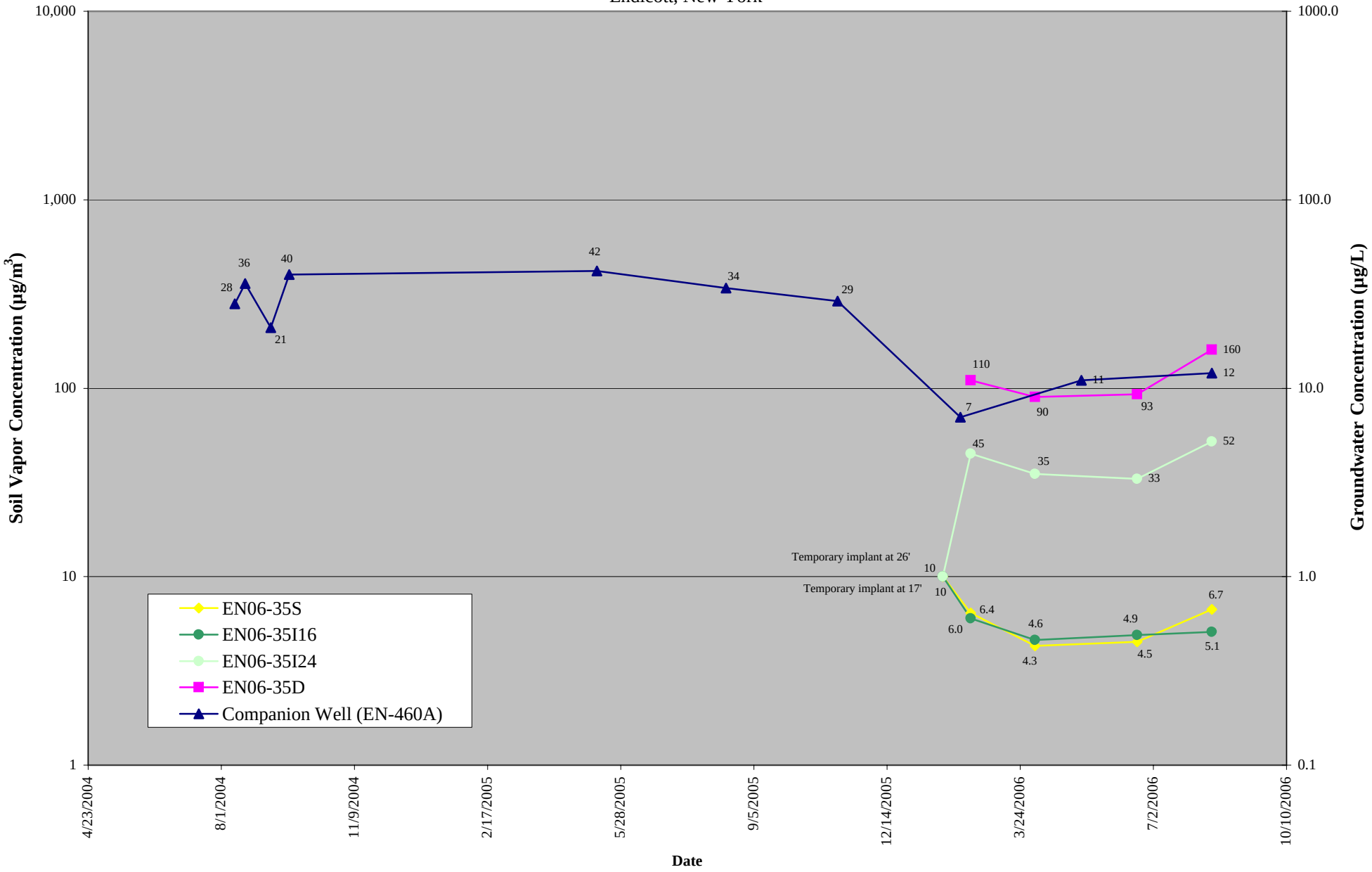


Figure B.36
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

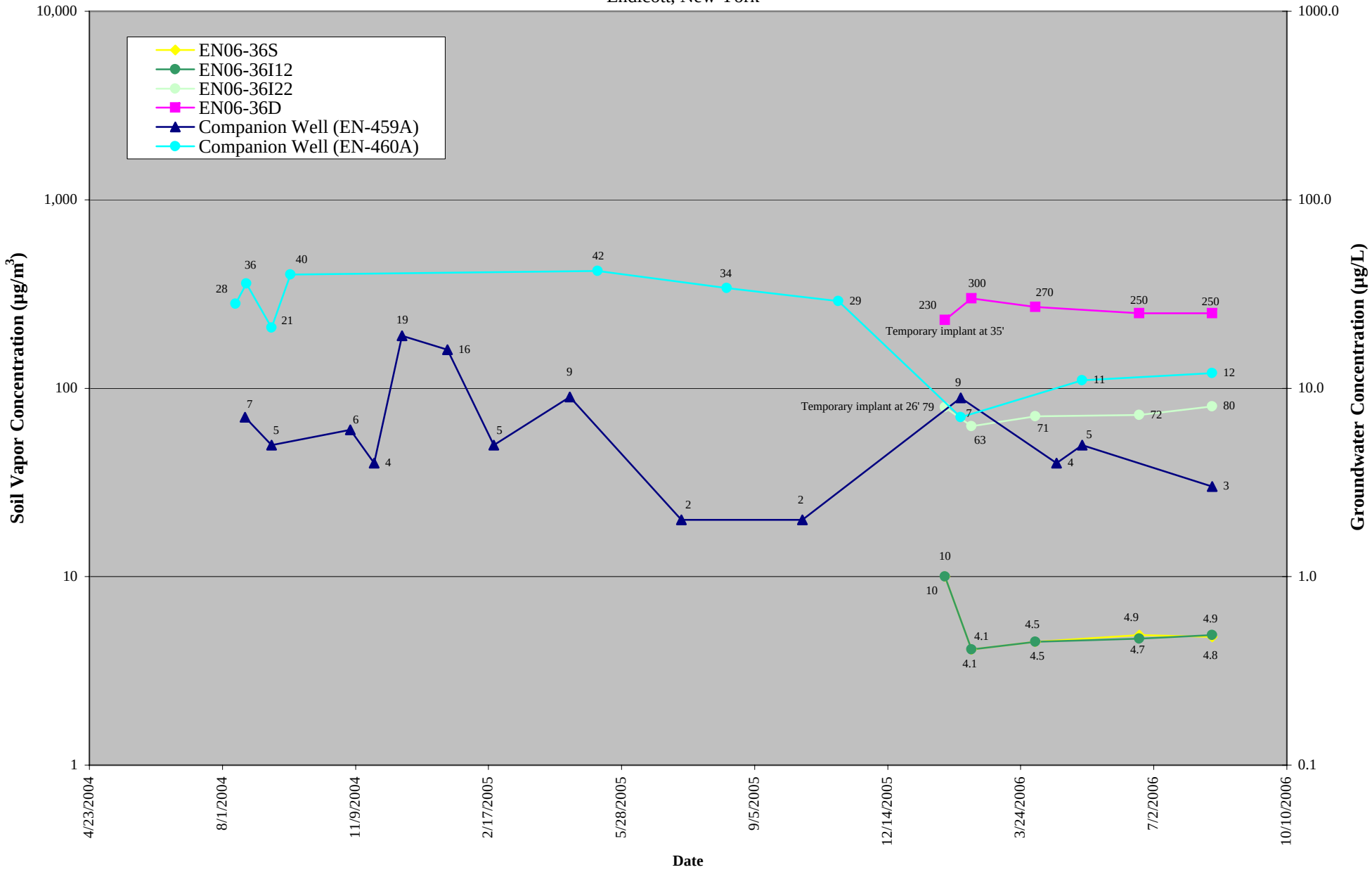
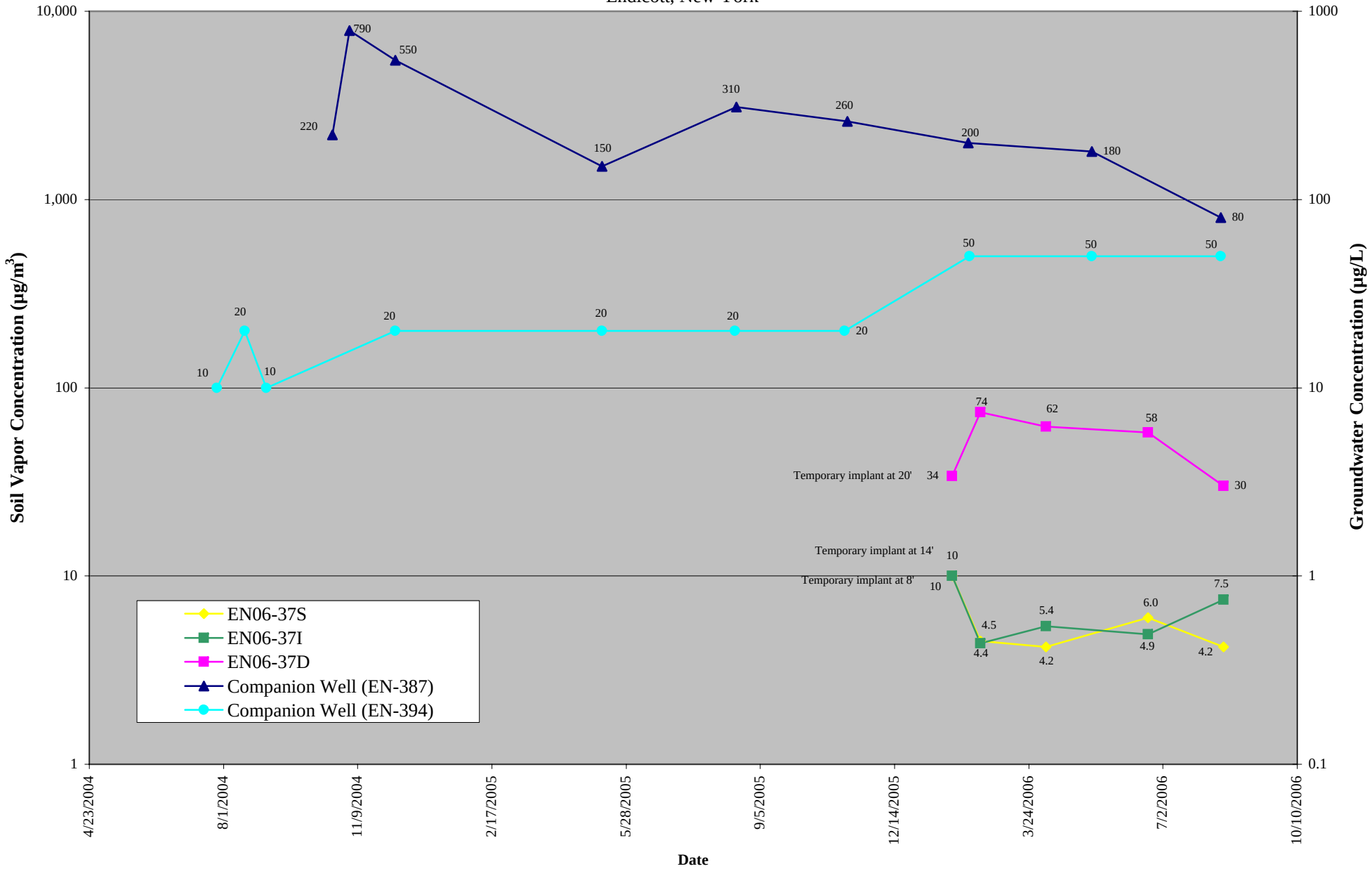


Figure B.37
TCE in Soil Vapor and Groundwater
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



APPENDIX B.4

CLIMATOLOGIC DATA AND PLOTS

Figure B.4.1
Summary of Daily Precipitation and Barometric Pressure - GBA
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

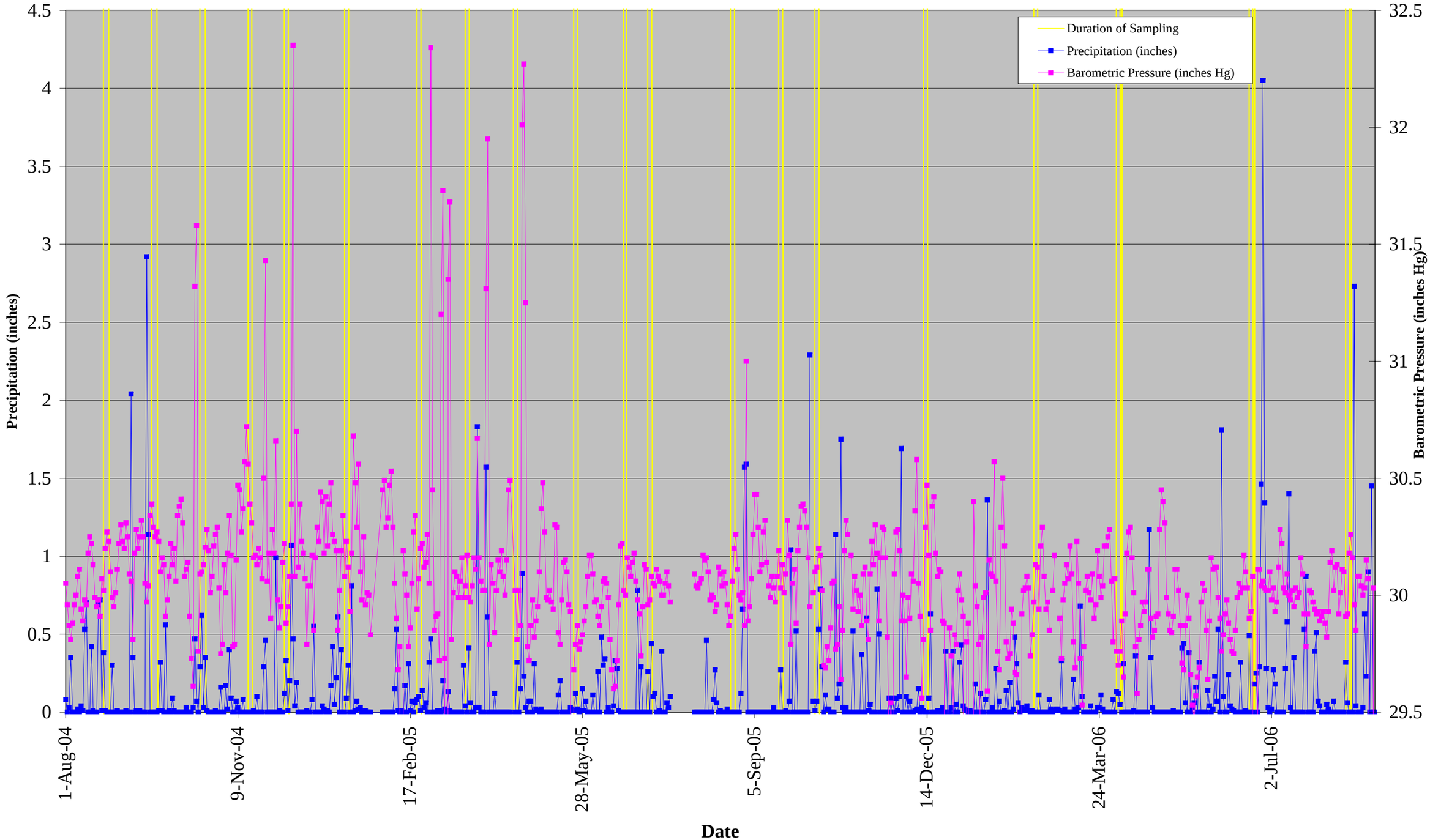
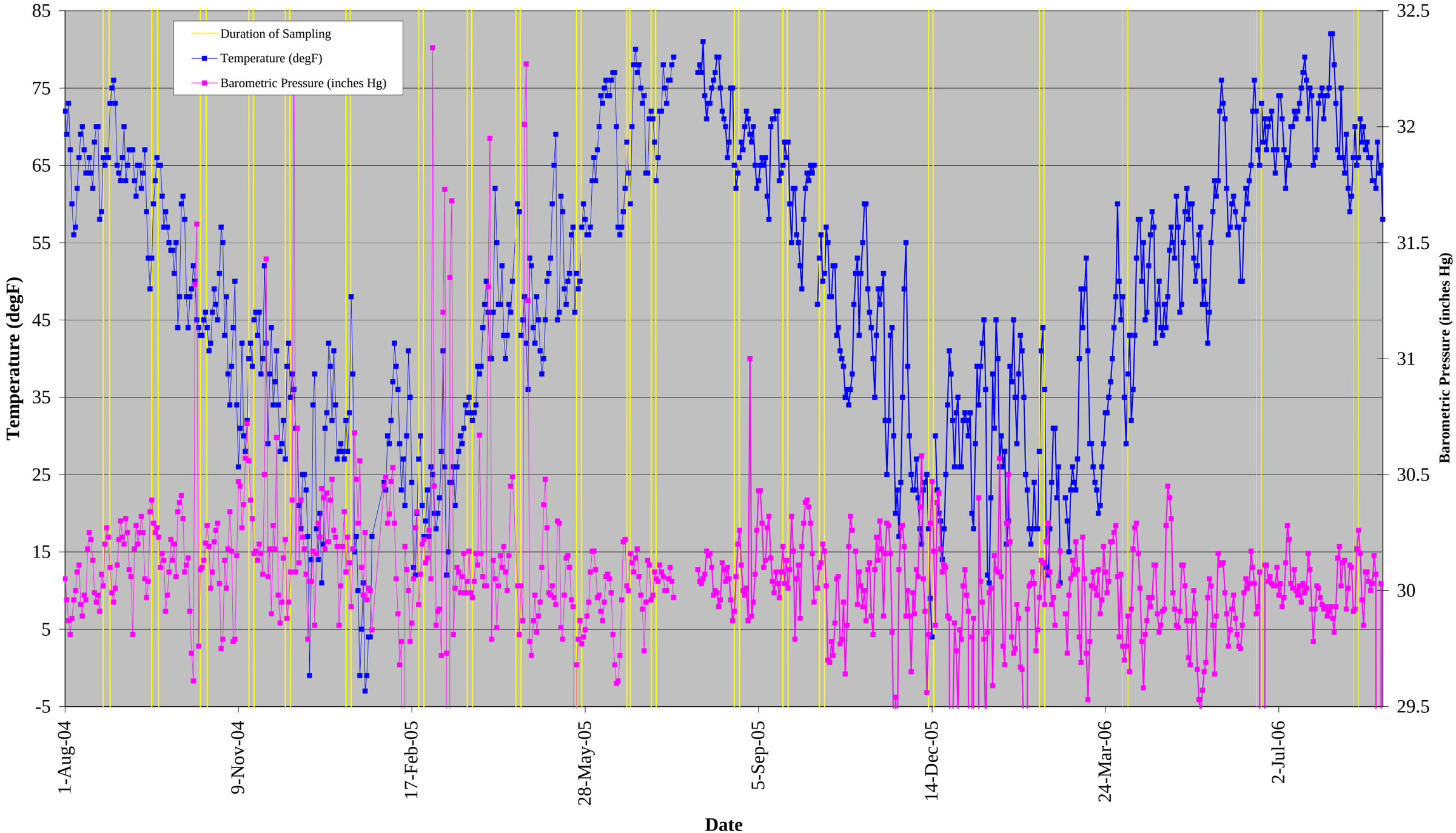


Figure B.4.2
Summary of Daily Barometric Pressure and Temperature - GBA
Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA

(may be updated)

NOAA, National Climatic Data Center

Month: 03/2006

Station Location: GREATER BINGHAMTON/E A LINK FIELD AP (04725)
BINGHAMTON , NY

Lat. 42.208 Lon. -75.981

Elevation (Ground): 1595 ft. above sea level

Date	Temperature (Fahrenheit) Max.	Min.	Avg.	Dep From Normal	Avg. Dew pt.	Avg Wet Bulb	Degree Days Base 65 Degrees Heating	Cooling	Significant Weather	Snow/Ice on Ground(In) 1200 UTC Depth	1200 LST Water Equiv	Precipitation (In) 2400 LST Snow Fall	2400 LST Water Equiv	Pressure(inches of Hg) Avg. Station	Avg. Sea Level	Wind: Speed=mph Dir=tens of degrees Resultant Speed	Res Dir	Avg. Speed	max 5-second Speed	max 5-second Dir	max 2-minute Speed	max 2-minute Dir	Date
1	28	16	22	-5	10	18	43	0	SN BR	1	M	0.9	0.01	28.09	29.90	8.4	29	9.2	24	270	21	270	1
2	22	16	19	-9	15	18	46	0	SN FG+ FZFG BR	1	M	7.2	0.33	27.91	29.73	4.6	33	8.1	22	350	17	320	2
3	18	12	15*	-13	7	12	50	0	SN BR UP HZ	6	M	0.1	T	28.17	29.98	13.9	31	14.3	32	310	24	320	3
4	28	17	23	-5	15	20	42	0	SN BR UP	6	M	2.0	0.02	28.23	30.05	14.4	30	14.5	31	330	25	300	4
5	33	19	26	-3	12	22	39	0	-	4	M	0.0	0.00	28.33	30.13	11.7	30	11.9	28	290	22	300	5
6	32	16	24	-5	13	21	41	0	-	3	M	0.0	0.00	28.27	30.07	7.2	33	7.5	16	310	13	330	6
7	29	16	23	-7	12	18	42	0	HZ	1	M	T	T	28.39	30.21	7.0	32	7.7	21	300	16	300	7
8	40	13	27	-3	13	23	38	0	RA	T	M	0.0	T	28.30	30.09	3.1	19	5.1	14	180	10	180	8
9	46	34	40	10	31	36	25	0	RA FZRA BR	T	M	0.0	0.21	28.06	29.80	10.0	15	10.1	24	140	21	140	9
10	58	40	49	18	39	45	16	0	-	T	M	0.0	0.02	27.99	29.69	10.0	23	14.3	39	250	30	260	10
11	53	35	44	13	28	37	21	0	-	0	M	0.0	0.00	28.46	30.23	2.2	32	5.9	16	310	14	320	11
12	55	43	49	18	43	47	16	0	RA BR	0	M	0.0	0.03	28.29	30.05	6.5	19	7.9	23	180	17	180	12
13	58	48	53	21	51	52	12	0	TSRA RA FG+ BR	0	M	0.0	0.68	28.06	29.73	5.2	17	7.1	33	280	25	290	13
14	56	26	41	9	31	36	24	0	RA SN FG+	0	M	0.4	0.10	27.82	29.53	14.3	26	15.4	41	260	33	260	14
15	33	25	29	-3	17	25	36	0	SN	T	M	0.3	T	28.02	29.78	20.3	27	20.6	43	260	32	270	15
16	33	25	29	-4	18	25	36	0	SN	T	M	0.1	T	28.22	30.02	11.4	30	11.7	31	300	23	300	16
17	32	19	26	-7	10	21	39	0	-	T	M	0.0	0.00	28.28	30.08	11.2	31	11.5	26	300	22	310	17
18	30	17	24	-9	11	19	41	0	SN BR	0	M	0.1	T	28.22	30.01	13.1	29	13.5	35	310	23	290	18
19	27	18	23	-11	19	21	42	0	SN FZFG BR	1	M	3.9	0.04	28.17	29.98	10.0	28	10.6	29	280	20	310	19
20	25	15	20	-14	12	18	45	0	SN BR	3	M	0.7	T	28.27	30.09	10.7	32	11.2	26	320	21	310	20
21	30	12*	21	-14	11	18	44	0	-	T	M	0.0	0.00	28.14	29.90	8.3	32	8.8	20	360	16	360	21
22	30	21	26	-9	19	24	39	0	SN BR	T	M	T	T	28.13	29.96	9.1	30	9.2	26	300	20	300	22
23	32	26	29	-6	22	26	36	0	SN BR	T	M	0.3	0.03	28.38	30.19	6.4	31	6.9	18	280	15	280	23
24	41	24	33	-3	25	29	32	0	SN FG+ FZFG BR	0	M	0.2	0.03	28.32	30.08	1.2	05	2.5	13	080	9	100	24
25	35	31	33	-3	30	32	32	0	SN FG+ FZFG BR UP	1	M	0.8	0.11	28.21	29.99	4.0	32	4.4	14	350	12	340	25
26	39	30	35	-1	28	31	30	0	SN BR	T	M	0.4	0.02	28.25	30.04	8.5	32	9.0	22	310	17	320	26
27	46	27	37	0	21	31	28	0	-	T	M	0.0	0.00	28.40	30.21	8.6	31	9.2	24	310	18	310	27
28	51	28	40	3	19	32	25	0	-	0	M	0.0	0.00	28.43	30.21	1.2	01	3.5	10	130	8	360	28
29	59	28	44	7	21	36	21	0	-	0	M	0.0	0.00	28.47	30.25	3.6	36	5.0	16	320	13	320	29
30	62	34	48	10	27	40	17	0	-	0	M	0.0	0.00	28.52	30.28	2.1	21	4.1	16	200	13	210	30
31	73*	46	60*	22	36	48	5	0	RA	0	M	0.0	T	28.33	30.06	8.9	19	9.2	28	230	20	210	31
	39.8	25.1	32.5	-------	21.5	28.4	32.4	0.0	<Monthly Averages	Totals>			1.63	28.23	30.01	5.9	29	9.4	<Monthly Average				
	-0.8	0.4	-0.2	-------	<----------Departure From Normal---------->								-1.34										

Degree Days

	Monthly Total	Monthly Departure	Season to Date Total	Season to Date Departure
Heating:	1003	6	5707	-531

Greatest 24-hr Precipitation: 0.78 Date: 13-14

Greatest 24-hr Snowfall: 7.2 Date: 02

Greatest Snow Depth: 6 Date: 04+

Sea Level	Pressure	Date	Time
Maximum	30.35	30	0953
Minimum	29.36	14	0253

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA

(may be updated)

NOAA, National Climatic Data Center

Month: 04/2006

Station Location: GREATER BINGHAMTON/E A LINK FIELD AP (04725)
BINGHAMTON , NY

Lat. 42.208 Lon. -75.981

Elevation (Ground): 1595 ft. above sea level

Date	Temperature (Fahrenheit)						Degree Days Base 65 Degrees		Significant Weather	Snow/Ice on Ground(In)		Precipitation (In)		Pressure(inches of Hg)		Wind: Speed=mph Dir=tens of degrees						Date
	Max.	Min.	Avg.	Dep From Normal	Avg. Dew pt.	Avg Wet Bulb	Heating	Cooling		1200 UTC Depth	1200 LST Water Equiv	2400 LST Snow Fall	2400 LST Water Equiv	Avg. Station	Avg. Sea Level	Resultant Speed	Res Dir	Avg. Speed	max 5-second Speed	max 5-second Dir	max 2-minute Speed	max 2-minute Dir	
1	60	39	50	12	44	48	15	0	RA BR	0	M	0.0	0.08	28.07	29.80	10.0	26	13.6	35	270	26	270	1
2	56	34	45	6	24	36	20	0	-	0	M	0.0	T	28.31	30.07	6.7	35	8.9	25	330	21	340	2
3	57	39	48	9	29	39	17	0	RA BR	0	M	0.0	0.13	28.07	29.76	13.3	14	14.0	40	160	26	150	3
4	42	28	35	-5	25	31	30	0	SN BR	T	M	0.3	0.12	27.94	29.70	12.4	29	12.7	29	290	23	300	4
5	35	23*	29*	-11	22	27	36	0	SN BR	T	M	0.6	0.05	27.98	29.76	7.5	29	8.0	22	300	17	290	5
6	46	30	38	-2	28	33	27	0	-	0	M	T	0.00	28.12	29.89	5.0	28	6.9	16	250	13	270	6
7	51	34	43	2	37	40	22	0	RA BR	0	M	0.0	0.31	27.92	29.65	3.7	20	8.2	21	200	16	180	7
8	38	25	32	-9	20	27	33	0	FG+ FZFG	0	M	0.0	0.00	28.10	29.92	11.7	33	11.8	23	350	18	340	8
9	48	24	36	-5	21	30	29	0	-	0	M	0.0	0.00	28.38	30.18	8.4	33	8.7	22	340	17	340	9
10	57	29	43	1	22	35	22	0	-	0	M	0.0	0.00	28.48	30.27	2.4	31	5.8	16	320	13	250	10
11	68	38	53	11	25	42	12	0	-	0	M	0.0	0.00	28.53	30.29	3.2	17	5.8	18	240	15	250	11
12	68	48	58	15	37	48	7	0	RA	0	M	0.0	T	28.44	30.16	10.3	17	11.2	32	180	23	190	12
13	65	50	58	15	43	49	7	0	TS	0	M	0.0	0.01	28.27	30.01	6.4	25	10.3	32	290	24	290	13
14	56	44	50	7	47	49	15	0	RA FG BR	0	M	0.0	0.36	28.09	29.78	5.2	19	6.1	16	230	14	230	14
15	66	44	55	11	44	50	10	0	BR	0	M	0.0	T	27.86	29.58	8.8	28	11.0	29	300	21	320	15
16	51	39	45	1	30	38	20	0	-	0	M	0.0	0.00	28.06	29.81	10.7	33	11.4	23	360	17	310	16
17	55	36	46	1	31	39	19	0	-	0	M	0.0	0.00	28.11	29.87	10.5	36	10.8	25	350	21	350	17
18	64	39	52	7	36	44	13	0	-	0	M	0.0	0.00	28.22	29.97	9.5	34	10.4	28	350	20	340	18
19	67	45	56	11	35	46	9	0	-	0	M	0.0	0.00	28.20	29.93	10.1	33	10.5	28	360	22	350	19
20	71*	47	59*	13	28	45	6	0	-	0	M	0.0	0.00	28.24	29.97	8.0	32	9.1	22	290	16	330	20
21	68	46	57	11	34	45	8	0	RA	0	M	0.0	T	28.36	30.11	11.7	13	12.8	31	140	22	150	21
22	49	35	42	-5	35	37	23	0	RA BR	0	M	0.0	1.17	28.36	30.11	14.5	13	14.8	32	110	26	130	22
23	56	37	47	0	42	44	18	0	TSRA RA BR	0	M	0.0	0.35	28.15	29.90	7.3	12	8.5	18	100	15	110	23
24	55	45	50	2	42	45	15	0	RA BR	0	M	0.0	0.03	28.09	29.82	6.5	26	8.8	24	260	21	270	24
25	56	32	44	-4	35	39	21	0	RA BR	0	M	0.0	T	28.09	29.85	7.5	29	9.2	26	330	21	320	25
26	57	29	43	-5	22	35	22	0	-	0	M	0.0	0.00	28.15	29.91	7.2	26	8.5	24	250	18	250	26
27	56	37	47	-2	24	38	18	0	-	0	M	0.0	0.00	28.15	29.92	7.8	31	10.3	24	340	20	350	27
28	54	33	44	-6	21	35	21	0	-	0	M	0.0	0.00	28.48	30.28	8.2	35	8.8	25	030	18	360	28
29	62	34	48	-2	18	37	17	0	-	0	M	0.0	0.00	28.66	30.45	6.1	05	6.7	20	090	15	090	29
30	70	38	54	4	23	42	11	0	-	0	M	0.0	0.00	28.65	30.40	5.9	07	6.7	18	040	14	060	30
	56.8	36.7	46.8	-------	30.8	39.8	18.1	0.0	<Monthly Averages	Totals>			2.61	28.22	29.97	2.5	30	9.7	<Monthly Average				
	3.7	1.6	2.7	-------	<----------Departure From Normal---------->								-0.88										

Degree Days

	Monthly Total	Monthly Departure	Season to Date Total	Season to Date Departure
Heating:	543	-74	6250	-605
Cooling:	0	-4	0	-5

Greatest 24-hr Precipitation: 1.17 Date: 22

Greatest 24-hr Snowfall: 0.6 Date: 05

Greatest Snow Depth: T Date: 05+

Sea Level	Pressure	Date	Time
Maximum	30.50	29	0953
Minimum	29.50	15	0453

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA

(may be updated)

NOAA, National Climatic Data Center

Month: 05/2006

Station Location: GREATER BINGHAMTON/E A LINK FIELD AP (04725)
BINGHAMTON , NY

Lat. 42.208 Lon. -75.981

Elevation (Ground): 1595 ft. above sea level

Date	Temperature (Fahrenheit) Max.	Min.	Avg.	Dep From Normal	Avg. Dew pt.	Avg Wet Bulb	Degree Days Base 65 Degrees Heating	Cooling	Significant Weather	Snow/Ice on Ground(In) 1200 UTC Depth	1200 LST Water Equiv	Precipitation (In) 2400 LST Snow Fall	2400 LST Water Equiv	Pressure(inches of Hg) Avg. Station	Avg. Sea Level	Wind: Speed=mph Dir=tens of degrees Resultant Speed	Res Dir	Avg. Speed	max 5-second Speed	max 5-second Dir	max 2-minute Speed	max 2-minute Dir	Date
1	71	43	57	7	22	43	8	0	-	0	M	0.0	0.00	28.56	30.31	5.1	07	6.5	22	110	16	110	1
2	67	42	55	5	30	44	10	0	HZ	0	M	0.0	0.00	28.28	29.99	3.9	35	7.3	24	310	17	320	2
3	62	43	53	2	41	47	12	0	-	0	M	0.0	0.00	28.19	29.92	8.5	33	9.4	29	360	23	350	3
4	76	45	61	10	44	53	4	0	-	0	M	0.0	T	28.13	29.85	5.0	29	6.1	18	330	15	320	4
5	65	48	57	5	38	47	8	0	-	0	M	0.0	0.00	28.12	29.84	7.6	34	8.8	21	320	16	340	5
6	52	39	46	-6	36	42	19	0	RA	0	M	0.0	0.01	28.15	29.91	6.4	32	7.3	24	310	18	310	6
7	62	31*	47	-6	24	39	18	0	-	0	M	0.0	0.00	28.35	30.11	1.2	36	5.1	13	120	12	140	7
8	68	42	55	2	29	44	10	0	-	0	M	0.0	0.00	28.37	30.11	5.3	14	7.1	21	120	16	160	8
9	69	49	59	6	31	46	6	0	-	0	M	0.0	0.00	28.30	30.02	3.2	05	6.1	24	080	17	070	9
10	74	49	62	8	42	52	3	0	-	0	M	0.0	0.00	28.16	29.87	3.7	09	6.0	22	120	18	130	10
11	63	53	58	4	50	53	7	0	RA BR	0	M	0.0	0.41	28.02	29.71	18.2	13	18.6	38	120	30	110	11
12	69	50	60	5	49	53	5	0	RA BR	0	M	0.0	0.44	27.94	29.68	3.1	16	6.2	35	110	28	110	12
13	69	50	60	4	49	52	5	0	RA FG+ FG BR	0	M	0.0	0.06	28.12	29.87	5.0	14	8.2	28	230	22	230	13
14	59	47	53	-3	46	49	12	0	-	0	M	0.0	0.00	28.25	30.00	8.3	11	8.9	20	130	15	120	14
15	53	46	50	-6	45	47	15	0	RA BR	0	M	0.0	0.38	28.18	29.90	7.5	11	8.3	17	090	15	090	15
16	57	47	52	-5	44	47	13	0	BR	0	M	0.0	T	27.94	29.66	5.2	23	6.2	17	230	14	240	16
17	64	47	56	-1	46	50	9	0	RA	0	M	0.0	0.03	27.83	29.53	6.9	23	8.2	25	240	20	250	17
18	64	49	57	0	48	50	8	0	RA FG+ BR	0	M	0.0	0.06	27.76	29.47	5.2	20	6.7	26	240	22	230	18
19	52	41	47	-10	44	45	18	0	RA FG+ FG BR	0	M	0.0	0.16	27.84	29.57	5.1	25	6.7	18	270	15	260	19
20	57	43	50	-8	39	44	15	0	-	0	M	0.0	T	27.91	29.65	11.0	26	11.7	30	270	22	270	20
21	54	40	47	-11	36	41	18	0	RA BR	0	M	0.0	0.32	27.95	29.69	12.1	26	14.3	38	260	31	260	21
22	47	36	42*	-16	32	37	23	0	RA	0	M	0.0	T	28.18	29.97	11.8	30	12.2	24	310	18	300	22
23	56	35	46	-13	34	41	19	0	-	0	M	0.0	0.00	28.28	30.05	9.4	30	10.0	30	270	22	280	23
24	67	43	55	-4	34	46	10	0	-	0	M	0.0	0.00	28.29	30.02	7.3	30	8.1	25	270	18	290	24
25	69	48	59	0	42	51	6	0	-	0	M	0.0	T	28.15	29.85	6.1	19	6.9	21	210	17	210	25
26	72	53	63	4	55	58	2	0	RA BR	0	M	0.0	0.14	27.95	29.64	3.6	20	5.7	17	240	13	230	26
27	69	53	61	1	57	59	4	0	RA BR	0	M	0.0	0.04	28.13	29.89	8.4	32	8.6	20	340	15	320	27
28	78	47	63	3	49	55	2	0	FG+ FG BR HZ	0	M	0.0	0.00	28.41	30.16	1.1	25	3.3	10	240	8	280	28
29	86	58	72	12	60	64	0	7	RA	0	M	0.0	0.02	28.40	30.11	4.9	30	6.8	21	330	17	330	29
30	88*	64	76*	16	63	67	0	11	TS TSRA FG BR HZ	0	M	0.0	0.23	28.40	30.12	1.4	15	5.8	31	060	24	060	30
31	85	61	73	13	61	65	0	8	TS TSRA BR	0	M	0.0	0.07	28.41	30.12	2.9	23	6.3	29	250	23	250	31
	65.9	46.5	56.2	-------	42.6	49.4	9.3	0.8	<Monthly Averages	Totals>			2.37	28.16	29.89	1.5	26	8.0	<Monthly Average				
	0.3	0.3	0.3	-------	<----------Departure From Normal---------->								-1.18										

Degree Days

	Monthly Total	Monthly Departure	Season to Date Total	Season to Date Departure
Heating:	289	-3	6539	-608

Greatest 24-hr Precipitation: 0.85 Date: 11-12

Greatest 24-hr Snowfall: 0.0 Date: M

Greatest Snow Depth: 0 Date: M

Sea Level	Pressure	Date	Time
Maximum	30.41	01	0736
Minimum	29.42	18	1153

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA

(final)

NOAA, National Climatic Data Center

Month: 06/2006

Station Location: GREATER BINGHAMTON/E A LINK FIELD AP (04725)
BINGHAMTON , NY

Lat. 42.208 Lon. -75.981

Elevation (Ground): 1595 ft. above sea level

Date	Temperature (Fahrenheit) Max.	Min.	Avg.	Dep From Normal	Avg. Dew pt.	Avg Wet Bulb	Degree Days Base 65 Degrees Heating	Cooling	Significant Weather	Snow/Ice on Ground(In) 1200 UTC Depth	1200 LST Water Equiv	Precipitation (In) 2400 LST Snow Fall	2400 LST Water Equiv	Pressure(inches of Hg) Avg. Station	Avg. Sea Level	Wind: Speed=mph Dir=tens of degrees Resultant Speed	Res Dir	Avg. Speed	max 5-second Speed	Dir	max 2-minute Speed	Dir	Date
1	78	64	71	11	64	65	0	6	TS RA FG+ BR HZ	0	M	0.0	0.53	28.30	29.99	5.4	25	6.2	24	300	18	300	1
2	65	59	62	1	57	59	3	0	RA FG+ FG BR	0	M	0.0	T	28.20	29.90	4.6	34	6.3	13	040	10	350	2
3	60	51	56	-5	53	54	9	0	RA BR	0	M	0.0	1.81	28.05	29.76	10.7	35	11.5	35	360	25	010	3
4	63	51	57	-4	50	52	8	0	RA BR	0	M	0.0	0.10	28.09	29.83	6.6	36	8.0	22	360	18	360	4
5	70	50	60	-1	46	53	5	0	-	0	M	0.0	0.00	28.18	29.92	1.7	35	4.7	17	360	12	010	5
6	72	49	61	-1	49	55	4	0	-	0	M	0.0	0.00	28.25	29.98	3.3	11	5.2	15	100	12	070	6
7	65	53	59	-3	54	56	6	0	RA BR	0	M	0.0	0.24	28.17	29.88	6.2	02	6.7	20	070	16	010	7
8	61	53	57	-5	53	55	8	0	RA BR	0	M	0.0	0.04	28.09	29.81	5.2	31	5.9	15	300	12	330	8
9	65	48	57	-5	52	53	8	0	RA BR	0	M	0.0	0.02	28.05	29.76	6.5	29	7.7	26	310	18	290	9
10	56	43	50	-12	40	44	15	0	RA BR	0	M	0.0	0.01	28.01	29.75	13.8	30	13.9	30	320	23	290	10
11	57	43*	50*	-12	42	46	15	0	-	0	M	0.0	0.00	28.09	29.85	10.2	31	10.7	26	310	21	310	11
12	64	51	58	-5	49	52	7	0	-	0	M	0.0	0.00	28.24	29.99	7.7	33	8.1	17	340	14	340	12
13	73	50	62	-1	51	56	3	0	-	0	M	0.0	0.00	28.32	30.05	5.5	33	6.3	15	270	13	280	13
14	63	57	60	-4	55	57	5	0	RA BR	0	M	0.0	0.32	28.30	30.01	1.9	36	4.6	16	330	12	320	14
15	73	53	63	-1	45	54	2	0	-	0	M	0.0	0.00	28.28	30.03	9.8	32	10.4	30	290	21	350	15
16	78	51	65	1	45	55	0	0	-	0	M	0.0	0.00	28.43	30.17	4.1	26	6.0	18	260	14	330	16
17	84	60	72	8	55	62	0	7	RA	0	M	0.0	0.01	28.39	30.10	7.4	22	7.6	18	220	14	230	17
18	86*	66	76*	11	61	67	0	11	HZ	0	M	0.0	0.00	28.35	30.03	7.1	22	8.0	22	240	16	220	18
19	80	64	72	7	63	65	0	7	RA BR HZ	0	M	0.0	0.49	28.20	29.90	7.0	23	8.2	28	260	24	270	19
20	76	58	67	1	57	61	0	2	-	0	M	0.0	T	28.20	29.93	6.8	28	9.2	23	280	17	320	20
21	75	55	65	-1	51	58	0	0	-	0	M	0.0	0.00	28.35	30.08	3.6	23	5.4	17	240	14	220	21
22	81	65	73	7	62		0	8	RA	0	M	0.0	0.18	28.33	M	8.3	22	8.8	32	250	25	260	22
23	73	62	68	2	63		0	3	RA BR	0	M	0.0	0.25	28.37	M	3.0	26	5.4	14	230	12	250	23
24	79	62	71	5	60	64	0	6	BR	0	M	0.0	T	28.38	30.11	2.6	07	4.2	13	070	9	030	24
25	71	62	67	1	63	64	0	2	RA FG+ BR	0	M	0.0	0.29	28.40	30.11	6.9	10	7.4	15	130	13	130	25
26	76	64	70	4	66	67	0	5	RA BR VCTS	0	M	0.0	1.46	28.33	30.04	6.7	14	7.8	30	170	20	160	26
27	77	64	71	4	66	67	0	6	RA BR	0	M	0.0	4.05	28.35	30.06	7.6	16	8.9	26	220	21	220	27
28	80	63	72	5	63	66	0	7	RA FG BR	0	M	0.0	1.34	28.32	30.03	2.5	27	4.5	28	250	23	250	28
29	77	56	67	0	57	61	0	2	RA FG+ BR VCTS	0	M	0.0	0.28	28.32	30.02	4.7	22	6.8	22	190	17	180	29
30	74	53	64	-3	53	57	1	0	TS RA FG+ BR	0	M	0.0	0.03	28.29	30.02	7.3	27	7.9	26	280	20	280	30
	71.7	56.0	63.9	-------	54.8	58.0	3.3	2.4	<Monthly Averages	Totals>			11.45	28.25	29.97	2.8	29	7.4	<Monthly Average				
	-1.7	1.6	0.0	-------	<----------Departure From Normal---------->								7.65										

Degree Days

	Monthly Total	Monthly Departure	Season to Date Total	Season to Date Departure
Heating:	99	9	6638	-599
Cooling:	72	-1	98	-3

Greatest 24-hr Precipitation: 4.08 Date: 26-27

Greatest 24-hr Snowfall: 0.0 Date: M

Greatest Snow Depth: 0 Date: M

Sea Level	Pressure	Date	Time
Maximum	30.23	16	1032
Minimum	29.69	10	0435

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA

(may be updated)

NOAA, National Climatic Data Center

Month: 07/2006

Station Location: GREATER BINGHAMTON/E A LINK FIELD AP (04725)
BINGHAMTON , NY

Lat. 42.208 Lon. -75.981

Elevation (Ground): 1595 ft. above sea level

Date	Temperature (Fahrenheit) Max.	Min.	Avg.	Dep From Normal	Avg. Dew pt.	Avg Wet Bulb	Degree Days Base 65 Degrees Heating	Cooling	Significant Weather	Snow/Ice on Ground(In) 1200 UTC Depth	1200 LST Water Equiv	Precipitation (In) 2400 LST Snow Fall	2400 LST Water Equiv	Pressure(inches of Hg) Avg. Station	Avg. Sea Level	Wind: Speed=mph Dir=tens of degrees Resultant Speed	Res Dir	Avg. Speed	max 5-second Speed	max 5-second Dir	max 2-minute Speed	max 2-minute Dir	Date
1	78	56	67	0	54	60	0	2	-	0	M	0.0	T	28.38	30.10	9.6	22	10.0	22	260	18	250	1
2	80	68	74	6	63	67	0	9	RA HZ	0	M	0.0	0.02	28.27	29.98	11.6	23	12.1	30	240	24	250	2
3	81	66	74	6	64	67	0	9	TS BR	0	M	0.0	0.27	28.33	30.03	3.9	24	5.3	28	350	23	350	3
4	76	66	71	3	64	66	0	6	RA BR HZ	0	M	0.0	0.18	28.23	29.93	7.2	23	8.1	23	260	18	230	4
5	75	58	67	-1	53	59	0	2	-	0	M	0.0	0.00	28.25	29.97	6.3	33	7.3	17	340	14	330	5
6	69	54*	62*	-6	50	55	3	0	-	0	M	0.0	0.00	28.38	30.12	8.0	33	8.1	18	320	15	290	6
7	75	56	66	-2	53	58	0	1	-	0	M	0.0	0.00	28.53	30.28	6.6	33	7.1	18	360	15	360	7
8	75	55	65	-4	54	60	0	0	-	0	M	0.0	0.00	28.51	30.22	1.4	23	3.3	10	050	8	020	8
9	77	62	70	1	56	61	0	5	-	0	M	0.0	0.00	28.33	30.03	6.7	22	6.9	18	220	14	220	9
10	79	60	70	1	58	63	0	5	TSRA RA BR HZ VCTS	0	M	0.0	0.28	28.30	30.01	8.3	19	8.6	36	210	26	230	10
11	81	63	72	3	61	65	0	7	BR VCTS	0	M	0.0	0.58	28.38	30.09	5.1	24	6.9	26	300	21	290	11
12	75	66	71	2	67	68	0	6	RA BR HZ	0	M	0.0	1.40	28.31	30.00	7.7	20	9.2	26	230	23	220	12
13	80	64	72	3	63	66	0	7	-	0	M	0.0	0.03	28.25	29.98	7.6	32	9.0	26	010	21	360	13
14	84	61	73	4	60	65	0	8	BR	0	M	0.0	0.00	28.32	30.02	2.4	22	3.5	15	260	10	250	14
15	82	67	75	6	65	68	0	10	RA BR VCTS	0	M	0.0	0.35	28.25	29.95	2.8	24	6.6	20	300	15	310	15
16	88	66	77	8	62	67	0	12	-	0	M	0.0	0.00	28.33	30.03	4.9	29	6.5	18	330	14	340	16
17	90*	68	79*	10	66	70	0	14	-	0	M	0.0	0.00	28.30	29.99	6.8	25	7.6	20	280	16	280	17
18	83	68	76	7	63	68	0	11	-	0	M	0.0	0.00	28.30	30.01	4.9	28	7.8	16	320	14	350	18
19	82	60	71	2	59	64	0	6	-	0	M	0.0	0.00	28.45	30.16	4.0	09	6.3	15	110	13	120	19
20	83	66	75	6	63	67	0	10	RA BR HZ	0	M	0.0	0.00	28.41	30.09	6.1	17	7.0	16	150	13	140	20
21	81	66	74	5	66	68	0	9	RA BR HZ	0	M	0.0	0.53	28.23	29.92	2.4	32	5.7	15	250	12	350	21
22	69	60	65	-4	62	64	0	0	RA BR	0	M	0.0	0.87	28.09	29.78	8.5	02	9.1	25	360	22	350	22
23	74	57	66	-3	53	58	0	1	-	0	M	0.0	0.00	28.20	29.92	5.8	34	7.0	18	350	14	350	23
24	77	57	67	-2	56	61	0	2	-	0	M	0.0	0.00	28.30	30.02	4.6	22	5.9	22	210	17	230	24
25	82	64	73	4	61	65	0	8	-	0	M	0.0	0.00	28.30	30.01	6.5	21	7.6	21	200	16	210	25
26	82	66	74	5	64	68	0	9	BR HZ	0	M	0.0	T	28.27	29.97	6.3	20	7.1	15	240	12	220	26
27	82	68	75	6	67	69	0	10	TS RA BR HZ VCTS	0	M	0.0	0.39	28.23	29.94	7.9	21	8.3	33	190	21	210	27
28	74	67	71	2	67	68	0	6	RA BR	0	M	0.0	0.51	28.22	29.92	5.9	24	8.2	20	210	15	340	28
29	84	64	74	5	65	68	0	9	BR	0	M	0.0	0.07	28.23	29.93	8.3	26	9.0	21	270	16	270	29
30	81	67	74	5	64	67	0	9	BR	0	M	0.0	0.04	28.19	29.89	6.3	30	7.5	20	310	16	310	30
31	85	64	75	6	67	70	0	10	BR	M	M	M	0.00	28.21	29.91	3.7	23	4.9	15	250	10	250	31
	79.5	62.9	71.2	-------	61.0	64.8	0.1	6.5	<Monthly Averages	Totals>			5.52s	28.30	30.01	3.6	25	7.3	<Monthly Average				
	1.4	3.7	2.5	-------	<----------Departure From Normal---------->								2.03										

Degree Days

	Monthly Total	Monthly Departure	Season to Date Total	Season to Date Departure
Heating:	3	-19	3	-19

Greatest 24-hr Precipitation: 1.40 Date: 12-13

Greatest 24-hr Snowfall: M Date: M

Greatest Snow Depth: M Date: M

Sea Level	Pressure	Date	Time
Maximum	30.31	07	1132
Minimum	29.72	22	1259

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA

(may be updated)

NOAA, National Climatic Data Center

Month: 08/2006

Station Location: GREATER BINGHAMTON/E A LINK FIELD AP (04725)
BINGHAMTON , NY

Lat. 42.208 Lon. -75.981

Elevation (Ground): 1595 ft. above sea level

Date	Temperature (Fahrenheit)						Degree Days Base 65 Degrees		Significant Weather	Snow/Ice on Ground(In)		Precipitation (In)		Pressure(inches of Hg)		Wind: Speed=mph Dir=tens of degrees							Date
	Max.	Min.	Avg.	Dep From Normal	Avg. Dew pt.	Avg Wet Bulb	Heating	Cooling		1200 UTC Depth	1200 LST Water Equiv	2400 LST Snow Fall	2400 LST Water Equiv	Avg. Station	Avg. Sea Level	Resultant Speed	Res Dir	Avg. Speed	max 5-second Speed	max 5-second Dir	max 2-minute Speed	max 2-minute Dir	
1	92*	72	82	13	71	74	0	17	BR HZ	M	M	M	T	28.24	29.93	7.9	25	8.4	20	270	16	280	1
2	90	73	82*	13	71	74	0	17	BR HZ	M	M	M	0.00	28.19	29.88	8.6	25	9.1	21	270	17	260	2
3	85	71	78	10	70	72	0	13	TSRA RA BR	M	M	M	0.05	28.14	29.82	7.1	24	8.0	18	280	15	260	3
4	80	66	73	5	61	65	0	8	RA	M	M	M	0.02	28.20	29.93	7.9	31	8.9	22	330	17	330	4
5	76	57	67	-1	53	59	0	2	-	M	M	M	0.00	28.41	30.14	7.0	34	7.7	21	350	16	350	5
6	79	53	66	-2	56	61	0	1	-	M	M	M	0.00	28.48	30.19	4.8	16	7.2	21	170	15	180	6
7	83	67	75	7	64	67	0	10	RA BR HZ	M	M	M	0.07	28.32	30.02	7.3	24	9.1	21	230	16	270	7
8	74	57	66	-2	51	58	0	1	-	M	M	M	0.00	28.38	30.12	9.4	33	9.6	23	350	17	350	8
9	75	52	64	-4	49	56	1	0	-	M	M	M	0.00	28.42	30.13	1.8	24	3.5	14	270	10	260	9
10	78	59	69	1	53	59	0	4	-	M	M	M	0.00	28.22	29.92	4.4	30	8.1	22	350	18	350	10
11	71	52	62	-6	46	53	3	0	-	M	M	M	0.00	28.27	30.01	9.2	35	9.8	22	360	17	010	11
12	70	48	59	-8	43	52	6	0	-	M	M	M	0.00	28.38	30.11	6.1	32	6.8	18	350	15	340	12
13	74	48*	61	-6	46	54	4	0	-	M	M	M	0.00	28.38	30.10	4.5	28	6.8	25	280	14	280	13
14	79	53	66	-1	54	60	0	1	RA BR	M	M	M	0.32	28.23	29.91	6.3	21	7.7	24	240	20	250	14
15	78	62	70	3	55	61	0	5	BR	M	M	M	0.06	28.19	29.92	7.3	28	8.3	22	260	17	250	15
16	74	56	65	-2	54	59	0	0	-	M	M	M	0.00	28.44	30.18	5.1	32	6.4	17	290	14	340	16
17	78	54	66	-1	53	59	0	1	-	M	M	M	0.00	28.53	30.26	1.8	12	4.9	14	120	10	110	17
18	80	62	71	4	58	63	0	6	-	M	M	M	0.00	28.45	30.16	6.7	19	7.3	18	210	14	200	18
19	70	65	68	2	63	65	0	3	RA FG+ FG BR	M	M	M	2.73	28.28	29.96	5.5	16	6.5	16	190	12	180	19
20	79	60	70	4	62	64	0	5	RA BR HZ	M	M	M	0.04	28.13	29.85	9.9	28	11.1	26	250	18	290	20
21	74	60	67	1	54	59	0	2	-	M	M	M	T	28.35	30.08	7.1	32	7.6	20	330	15	310	21
22	78	57	68	2	56	61	0	3	-	M	M	M	0.00	28.36	30.08	4.9	27	6.1	17	270	13	260	22
23	74	58	66	1	52	58	0	1	BR	M	M	M	0.00	28.32	30.04	5.6	30	6.9	22	360	16	360	23
24	75	56	66	1	55	59	0	1	BR	M	M	M	0.03	28.29	30.00	2.1	25	4.6	17	250	13	240	24
25	68	57	63	-2	60	61	2	0	TSRA RA FG+ FG BR VCTS	M	M	M	0.63	28.30	30.03	1.9	12	3.5	14	120	12	120	25
26	64	61	63	-2	60	61	2	0	RA BR	M	M	M	0.23	28.41	30.15	8.5	13	8.9	23	140	17	140	26
27	63	60	62	-3	60	60	3	0	RA FG+ BR	M	M	M	0.90	28.36	30.07	8.9	14	9.3	23	140	17	140	27
28	77	59	68	3	63	65	0	3	RA FG+ FG BR	M	M	M	T	28.24	M	3.5	03	4.9	12	360	10	350	28
29	66	62	64	0	62	63	1	0	RA BR	M	M	M	1.45	28.13	M	8.0	04	8.3	17	040	14	060	29
30	74	55	65	1	57	60	0	0	-	M	M	M	0.00	28.27	30.03	7.9	36	8.3	21	360	17	360	30
31	67	49	58*	-6	48	52	7	0	-	M	M	M	0.00	28.50	M	5.3	04	6.4	16	010	13	010	31
	75.6	58.7	67.2	-------	56.8	61.1	0.9	3.4	<Monthly Averages	Totals>			6.54s	28.32	30.03	2.3	29	7.4	<Monthly Average				
	-0.2	1.3	0.6	-------	<----------Departure From Normal---------->								3.19										

Degree Days

	Monthly Total	Monthly Departure	Season to Date Total	Season to Date Departure
Heating:	29	-14	32	-33

Greatest 24-hr Precipitation: 2.77s Date: 19-20

Greatest 24-hr Snowfall: M Date: M

Greatest Snow Depth: M Date: M

Sea Level	Pressure	Date	Time
Maximum	30.31	17	1030
Minimum	29.74	20	0219

APPENDIX C

ANALYTICAL LABORATORY REPORTS
Air Toxics Ltd.
CDs of Analytical Data
(See Appendix B.2 for Disc, Select Copies Only)

APPENDIX D

DATA USABILITY ASSESSMENT ON COMPACT DISC

(See Appendix B.2 for Disc)

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0604126A

Number of Samples: 20 soil vapor samples for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: May 4, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review.

Samples EN0416D040406, EN0432D040306, DU2035040306, and EN0414D040406 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. In addition, sample EN0412S040306 was over-pressurized by the laboratory to 12 psi rather than 5psi prior to analysis. As a consequence of the dilutions made for analysis and the over-pressurization error, several non-detected results in these five samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order. The results reported by the laboratory were unchanged as a consequence of this data review and the results presented in the validated database are considered usable for project objectives.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3 - 4/4/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126A
No. Samples 16 + 4 FD

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	✓
Except:								5 samples
								DF>2

Comments: All canister field and lab receipt vacuums were within criteria and there were no COC issues noted.

All samples were analyzed within 9 days of collection => no action required - HT met

ICAL = Instrument 5 on 3/28/06 - All 11 Targets calibrated fm 0.5 -> 200 ppbv (6-level ICAL) + all %RSDs < 30% => Valid ICAL - No Actn

CCAL: 5041102 - %Rec all OK => No Actn

Date 5/4/06

Data Reviewer MJG. RJK

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3 - 4/4/06

Work Order #: 0604126A1
No. Samples 16 + 4 FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5041105
EB: EB3414504030G + EBSC43040406 (reported in W.O. # 0604126B) > All 11 Targets were non-detect

Blank ID	Contaminant / Level (µg/m³)	Action Level DF=	Sample and reported result (µg/m³)	Corrected Database Result
			No Blank Action Required	
			NVR ~~5/4/04~~ 5/4/06 NVR	

Date 5/4/06

Data Reviewer [signature]

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3-4/4/06

Work Order #: 0604126A
No. Samples 16 + 4 FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tune: 2 - 1 ICAL + 1 CCAL - All Abundances were OK => No Actn Required.

All 3 Surrogates %Rec + all 3 IS Areas / RTs were in criteria for all Smpls + QC => No Actn Required.
LCS/LCSD: 5041103 / 5041104 - %Rec + RPDs all OK => No Actn Required.

LDs: 2 sets 1) DU20781040306 Smpl / LD shown at the bottom of page 4 - LD precision was acceptable for both VOCs detected => No Actn
2) DU20350403O6 Smpl / LD shown at the bottom of page 4A - LD precision was OK for both VOCs detected in the Smpl => No Actn reqd

4 FD pairs: 1) EN04185040406 / DU12027040406 shown at the top of page 4 - All VOCs were ND => Unable to assess precision based on these results
2) EN0418D040406 / DU13899040406 shown at the top of page 4A - FD precision was acceptable for all 5-6 detected VOCs in these smpls => No Actn
3) EN04325040306 / DU20781040306 shown at the top of page 4B - FD precision OK for both VOCs detected => No Actn
4) EN0432D040306 / DU20350403O6 shown at the bottom of page 4B - FD precision OK for both VOCs => No Actn.

There were no "J" data reported - all results were reported within range.

All RLs were ≤ expected RLs (i.e., DF < 2) except: EN0416D040406 (DF = 11.7), EN0432D040306 (DF = 2.74), DU20305040306 (DF = 3.42) + EN0414D040406 (DF = 6.56) due to dilutions made at the instrmt to ensure all results reported within calibration range + EN04125040306 (DF = 2.22) due to lab error in pressurization procedure - lab pressurized to 12 psi rather than 5 psi causing high dilution fact.

Narrative only indicated pressurization error of canister for EN04125040306. Database was unchanged as a consequence of this review.

Date 5/4/06

Data Reviewer

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3/06 - 4/4/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126A
No. Samples 16 + 4FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0418S040406 FD = DU12027040406

Analyte Name	CAS No.	DF=1.75* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	2.3	2.3	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL	3.6	U	RL	NA	None
Freon 113	76-13-1	6.7	6.7	U	RL	7	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL	3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL	3.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL	3.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.8	4.8	U	RL	5	U	RL	NA	None
Trichloroethene	79-01-6	4.7	4.7	U	RL	4.9	U	RL	NA	None
Tetrachloroethene	127-18-4	5.9	5.9	U	RL	6.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL	3.6	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.83 and RLs are RLs shown x (1.83/1.75)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: DU20781040306

Analyte Name	CAS No.	DF= 1.75* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL	3	U	RL	NA	None
Chloroethane	75-00-3	2.3	2.3	U	RL	3.1	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL	4.6	U	RL	NA	None
Freon 113	76-13-1	6.7	6.7	U	RL	9	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL	4.1	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL	4.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL	4.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.8	13		>RL but < 5xRL	15		>RL but < 5xRL	14.3	None
Trichloroethene	79-01-6	4.7	590		> 5 x RL	630		> 5 x RL	6.6	None
Tetrachloroethene	127-18-4	5.9	5.9	U	RL	7.9	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL	4.6	U	RL	NA	None

*The LD DF was 2.34
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/4/06

Data Reviewer MJC. RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3/06 - 4/4/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126A
No. Samples 16 + 4FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0418D040406 FD = DU13899040406

Analyte Name	CAS No.	DF=1.68* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.1	2.1	U	RL	2.1	U	RL	NA	None
Chloroethane	75-00-3	2.2	2.2	U	RL	2.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.3	3.3	U	RL	3.3	U	RL	NA	None
Freon 113	76-13-1	6.4	6.4	U	RL	6.4	U	RL	NA	None
Methylene Chloride	75-09-2	2.9	2.9	U	RL	2.9	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.4	6		>RL but < 5xRL	5.6		>RL but < 5xRL	6.9	None
cis-1,2-Dichloroethene	156-59-2	3.3	25		> 5 x RL	28		> 5 x RL	11.3	None
1,1,1-Trichloroethane	71-55-6	4.6	130		> 5 x RL	140		> 5 x RL	7.4	None
Trichloroethene	79-01-6	4.5	1300		> 5 x RL	1500		> 5 x RL	14.3	None
Tetrachloroethene	127-18-4	5.7	12		>RL but < 5xRL	11		>RL but < 5xRL	8.7	None
trans-1,2-Dichloroethene	156-60-5	3.3	3.8		>RL but < 5xRL	3.3	U	RL	NA	None

*This is the sample and FD DF and RLs

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: DU2035040306

Analyte Name	CAS No.	DF=3.42 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	4.4	4.4	U	RL	4.4	U	RL	NA	None
Chloroethane	75-00-3	4.5	4.5	U	RL	4.5	U	RL	NA	None
1,1-Dichloroethene	75-35-4	6.8	6.8	U	RL	6.8	U	RL	NA	None
Freon 113	76-13-1	13	13	U	RL	13	U	RL	NA	None
Methylene Chloride	75-09-2	5.9	5.9	U	RL	5.9	U	RL	NA	None
1,1-Dichloroethane	75-34-3	6.9	6.9	U	RL	6.9	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	6.8	6.8	U	RL	6.8	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	9.3	30		>RL but < 5xRL	27		>RL but < 5xRL	10.5	None
Trichloroethene	79-01-6	9.2	2100		> 5 x RL	1800		> 5 x RL	15.4	None
Tetrachloroethene	127-18-4	12	12	U	RL	12	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	6.8	6.8	U	RL	6.8	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/4/06

Data Reviewer

A
4 of 5

New Environmental Horizons, Inc.

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3/06 - 4/4/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126A
No. Samples 16 + 4FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0432S040306 FD = DU20781040306

Analyte Name	CAS No.	DF=1.75* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL	2.2	U	RL	NA	None
Chloroethane	75-00-3	2.3	2.3	U	RL	2.3	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL	3.5	U	RL	NA	None
Freon 113	76-13-1	6.7	6.7	U	RL	6.7	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL	3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL	3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL	3.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.8	15		>RL but < 5xRL	13		>RL but < 5xRL	14.3	None
Trichloroethene	79-01-6	4.7	620		> 5 x RL	590		> 5 x RL	5.0	None
Tetrachloroethene	127-18-4	5.9	5.9	U	RL	5.9	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL	3.5	U	RL	NA	None

*This is the sample and FD DF and RLs

Field Duplicate Evaluation_ Sample IDs: Sample = EN0432D040306 FD = DU2035040306

Analyte Name	CAS No.	DF=2.74* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	3.5	3.5	U	RL	4.4	U	RL	NA	None
Chloroethane	75-00-3	3.6	3.6	U	RL	4.5	U	RL	NA	None
1,1-Dichloroethene	75-35-4	5.4	5.4	U	RL	6.8	U	RL	NA	None
Freon 113	76-13-1	10	10	U	RL	13	U	RL	NA	None
Methylene Chloride	75-09-2	4.8	4.8	U	RL	5.9	U	RL	NA	None
1,1-Dichloroethane	75-34-3	5.5	5.5	U	RL	6.9	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	5.4	5.4	U	RL	6.8	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	7.5	31		>RL but < 5xRL	30		>RL but < 5xRL	3.3	None
Trichloroethene	79-01-6	7.4	2100		> 5 x RL	2100		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	9.3	9.3	U	RL	12	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	5.4	5.4	U	RL	6.8	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 3.42 and RLs are RLs shown x (3.42/2.74)
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/4/06

Data Reviewer MJC. RM

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 5/4/06

Data Reviewer MJC, RJL

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0604126B

Number of Samples: 18 soil vapor samples + 2 equipment blanks for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: May 4, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review.

Sample EN0431D040306 was received at the laboratory with a higher vacuum than anticipated and sample EN0417D040506 was analyzed at a dilution to ensure that all of the results were reported within the linear range of the instrument calibration. In addition, sample EN0413S040506 was initially pressurized and analyzed but required re-pressurization for a secondary analysis. As a consequence of the receipt pressures, dilutions made for analysis, and re-pressurizations several non-detected results in these three samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order with the following exceptions:

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Sample Name	Lab ID	Analyte Name	Qualifier	Bias	Comments
EN0529S040506	0604126B-40A	Methylene Chloride	J	H	Interference present

Qualifiers: R = result rejected and unusable for project objectives; J = result is an estimated value; U = result is non-detect at the level reported; UJ = non-detect is an estimated value; EB = result detected in an associated equipment blank; JEB = result detected in an associated equipment blank and is an estimated value.

Bias: L = Low; H = High; I = Indeterminate

The qualified (U and J) and unqualified results presented in the validated database are considered usable for project objectives.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3/06 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126B
No. Samples 16 + 2FD + 2EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	Unable to Assess	3 DF>2
Except:	See ID issue below							
EN0529S040506								J $MeCl_2$

Comments: Canister field + lab receipt vacuums were all in criteria => No Action required. For samples EN0431D040306 and EB3414S040306, the COC indicated the canister # to be 2145 and 34145, respectively; however the tags on the canisters did not have these IDs. The canister tags were # 2175 and 34175 for EN0431D040306 + EB3414S040306, respectively. The lab used the IDs as they appeared on the canisters to process these samples.

All samples were analyzed within 10 days of collection => HT met. No Act.

ICAL: Instrument 5 on 3/28/06 - All 11 Targets calibrated properly (0.5 → 200 ppbV across 6-levels of Standards) + all had %RSD's < 30% => Valid ICAL - No Action

Date 5/4/06

Data Reviewer

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3/06 - 4/5/06

Work Order #: 0604126B
No. Samples 14 + 2FD + 2EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MBs: 5041207 + 5041307
EBs: EB34140504030G + EBSC43040406 (this w.o) + EBSC41040506 (w.o # 0604126E) > All 11 Targets were ND

Blank ID	Contaminant / Level ($\mu g/m^3$)	Action Level DF=	Sample and reported result ($\mu g/m^3$)	Corrected Database Result

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3-4/5/06

Work Order #: 0604126B
No. Samples 16 + 2FD + 2EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

CCALs: 5041204 + 5041304 - %Rec all OK ⇒ No Action Required.
BFB Tune - 3 (1 ICAL + 2 CCAL): All Abundances OK ⇒ No Action Required.

All 3 Surrogate %Rec + 3 IS Areas / RTs were in criteria for all samples + QC ⇒ No Action required
LCS/LCSD: 5041205 / 5041206 + 5041305 / 5041306 - %Rec + RPD all OK ⇒ No Action required.

LDs: 1) EN0417D040506 Sample / LD shown at the bottom of page 4 - LD precision acceptable for all 4 detected VOCs ⇒ No Action required.
2) EN0413S040506 Sample / LD shown at the bottom of page 4A - LD precision OK for both detected VOCs ⇒ No Action required.

FD pairs: 1) EN0435040306 + DU346O5040306 - shown at TL top of page 4 and 2) EN043D040306 + DU346R8040306 shown at TL top of page 4A. Both sets of FD pairs were non-detect for all VOCs ⇒ unable to assess FD precision based on these results - No Action required.

Lab narrative indicated methylene chloride in EN0529040506 may be biased high due to co-elution of non-target compds. Sample chromatogram was inspected + region where methylene chloride eluted showed broadening of methylene chloride peak possibly due to non-target (not - lab indicated interferent had similar characteristic ions).
* Action: methylene chloride in EN0529040506 estimated (J) with possible High bias due to interference

All results were reported within range + all RLs were ≤ expected RLs (DF≤2) except EN0431D04306 (DF=2.01) due to higher than expected receipt pressure; EN0417D040506 (DF=11.7) due to dilution made at instrument to ensure all results in range; and EN0413S040506 (DF=3.39) due to need to re-pressurize canister to perform a second analysis on sample.

Date 5/4/06

Data Reviewer MJC. RK

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3/06 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126B
No. Samples 16 + 2FD + 2EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN043S040306 FD = DU34605040306

Analyte Name	CAS No.	DF= 1.79* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.3	2.3	U	RL	2.2	U	RL	NA	None
Chloroethane	75-00-3	2.4	2.4	U	RL	2.3	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL	3.5	U	RL	NA	None
Freon 113	76-13-1	6.8	6.8	U	RL	6.7	U	RL	NA	None
Methylene Chloride	75-09-2	3.1	3.1	U	RL	3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.6	3.6	U	RL	3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL	3.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.9	4.9	U	RL	4.8	U	RL	NA	None
Trichloroethene	79-01-6	4.8	4.8	U	RL	4.7	U	RL	NA	None
Tetrachloroethene	127-18-4	6.1	6.1	U	RL	5.9	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL	3.5	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.75 and RLs are RLs shown x (1.75/1.79)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0417D040506

Analyte Name	CAS No.	DF= 11.7 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	15	15	U	RL	15	U	RL	NA	None
Chloroethane	75-00-3	15	15	U	RL	15	U	RL	NA	None
1,1-Dichloroethene	75-35-4	23	23		>RL but < 5xRL	23		>RL but < 5xRL	0.0	None
Freon 113	76-13-1	45	45	U	RL	45	U	RL	NA	None
Methylene Chloride	75-09-2	20	20	U	RL	20	U	RL	NA	None
1,1-Dichloroethane	75-34-3	24	24	U	RL	24	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	23	160		> 5 x RL	130		> 5 x RL	20.7	None
1,1,1-Trichloroethane	71-55-6	32	450		> 5 x RL	420		> 5 x RL	6.9	None
Trichloroethene	79-01-6	31	10000		> 5 x RL	9400		> 5 x RL	6.2	None
Tetrachloroethene	127-18-4	40	40	U	RL	40	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	23	23	U	RL	23	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/4/06

Data Reviewer MJC. RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/3/06 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126B
No. Samples 16 + 2FD + 2EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN043D040306 FD = DU34648040306

Analyte Name	CAS No.	DF= 1.75* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL	2.2	U	RL	NA	None
Chloroethane	75-00-3	2.3	2.3	U	RL	2.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL	3.4	U	RL	NA	None
Freon 113	76-13-1	6.7	6.7	U	RL	6.6	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL	3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL	3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL	3.4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.8	4.8	U	RL	4.7	U	RL	NA	None
Trichloroethene	79-01-6	4.7	4.7	U	RL	4.6	U	RL	NA	None
Tetrachloroethene	127-18-4	5.9	5.9	U	RL	5.8	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL	3.4	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.71 and RLs are RLs shown x (1.71/1.75)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0413S040506

Analyte Name	CAS No.	DF= 3.39 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	4.3	4.3	U	RL	4.3	U	RL	NA	None
Chloroethane	75-00-3	4.5	4.5	U	RL	4.5	U	RL	NA	None
1,1-Dichloroethene	75-35-4	6.7	6.7	U	RL	6.7	U	RL	NA	None
Freon 113	76-13-1	13	13	U	RL	13	U	RL	NA	None
Methylene Chloride	75-09-2	5.9	5.9	U	RL	5.9	U	RL	NA	None
1,1-Dichloroethane	75-34-3	6.9	6.9	U	RL	6.9	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	6.7	6.7	U	RL	6.7	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	9.2	240		> 5 x RL	220		> 5 x RL	8.7	None
Trichloroethene	79-01-6	9.1	840		> 5 x RL	840		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	11	11	U	RL	11	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	6.7	6.7	U	RL	6.7	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/4/06

Data Reviewer M C. RH

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 5/4/06

Data Reviewer N J C. RR

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0604126C

Number of Samples: 20 soil vapor samples for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: May 5, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Sample EN0429D040506 was analyzed at a dilution to ensure that all of the results were reported within the linear range of the instrument calibration. Samples EN0411D040406 and DU34144040406 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. As a consequence of the dilutions and re-pressurizations made for analysis, several non-detected results in these three samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

The Chain-of-Custody (COC) and Canister Tag information were inconsistent for two samples as follows:

COC Sample ID	COC Canister #	Canister Tag and Lab Reported Sample ID	Canister Tag and Lab Reported Canister #
EN0411S040406	21019	EN0411S040406	34628
DU34628040406	34628	DU21019040406	21019

The Sample IDs and Canister numbers reported by the laboratory were reviewed herein.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order. The results reported by the laboratory were unchanged as a consequence of this data review and the results presented in the validated database are considered usable for project objectives.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126C
No. Samples 18 + 2FD

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	3 DF>2
Except:	See IDs below.							

Comments: All Canister field + lab receipt vacuums were acceptable. The COC + Canister Tag IDs for 2 samples were inconsistent as follows:

COC ID	COC Can #	Lab Reported ID	Lab Can #	
EN041150404O6	21019	EN041150404O6	34628	} Lab IDs based on Can # Tag IDs + Can #.
DU346280404O6	34628	DU210190404O6	21019	

All Samples were analyzed within 10 days of collection ⇒ HT met - No Action

Date 5/5/06

Data Reviewer MJC. RPR

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4 - 4/5/06

Work Order #: 0604126C
No. Samples 18 + 2 FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5041307 + 8041308
EB: EBSC4304040G (W.O. # 0604126B) + ØEBSCH1040506 (W.O. # 0604126E) } All 11 Targets were ND
NCR 5/5/06

Blank ID	Contaminant / Level ($\mu g/m^3$)	Action Level DF=	Sample and reported result ($\mu g/m^3$)	Corrected Database Result

No Blank Action Required
NCR 5/5/06

Date 5/5/06

Data Reviewer MJC.RH

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4 - 4/5/06

Work Order #: 0604126C
No. Samples 18 + 2 FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

ICALs : Instrument 5 on 3/28/06 + Instrument 8 on 2/22 ⇒ 3/2/06 - For both ICALs, %RSD < 30% for 11 Targets + 6-level ICALs from 0.5 → 20 ppbv each - ICALs OK ⇒ No Action.
CCALs: 5041304 + 8041302 - %Rec all OK ⇒ No Action
BFB Tunes : Inst. 5 - 2 (1 ICAL + 1 CCAL) ; Inst 8 5 - 4 ICAL + 1 CCAL - All Abundances OK ⇒ No Action

3 Surrogate %Rec + 3 IS Areas / RTs all OK ⇒ No Action
LCS/LCSD : 5041305 / 5041306 + 8041303 / 8041306 - %Rec + RPD all OK ⇒ No Action

LDs : 1) EN0635I2404040C Sample / LD shown at the bottom of page 4 - LD precision OK for both detected VOCs ⇒ No Action required.
2) EN0635D040406 Sample / LD shown at the bottom of page 4A - LD precision OK for both detected VOCs ⇒ No Action required.

FDs : 1) EN0411S040406 + DU21019040406 shown at the top of page 4 - FD precision OK for 1 detected VOC
2) EN0411D040406 + DU34144040406 shown at the top of page 4A. FD precision OK for all 4 detected VOCs ⇒ No Action required for either set of FDs - Precision Acceptable.

There were no "J" data reported & all results were within the calibration range. The narrative only raised the issue of COC / Canister ID discrepancies - No Analytical issues noted.

All RLs were ≤ expected RLs (i.e., DF ≤ 2) except: EN0429D040506 (DF = 8.2) due to dilution made at the instrument level to ensure all results reported within calibration range + EN0411D040406 (DF = 2.34) + DU34144040406 (DF = 2.34) due to re-pressurization of canisters since initial analysis didn't meet method criteria.

The database was unchanged as a consequence of this review.

Date 5/5/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4/06 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126C
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0411S040406 FD = DU21019040406

Analyte Name	CAS No.	DF= 1.71* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL		2.2	U	RL	NA	None
Chloroethane	75-00-3	2.2	2.2	U	RL		2.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.4	3.4	U	RL		3.4	U	RL	NA	None
Freon 113	76-13-1	6.6	6.6	U	RL		6.6	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL		3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL		3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.4	3.4	U	RL		3.4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.7	4.7	U	RL		4.7	U	RL	NA	None
Trichloroethene	79-01-6	4.6	79		> 5 x RL		80		> 5 x RL	1.3	None
Tetrachloroethene	127-18-4	5.8	5.8	U	RL		5.8	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.4	3.4	U	RL		3.4	U	RL	NA	None

*This is the sample and FD DF and RLs

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0635I24040406

Analyte Name	CAS No.	DF= 1.64* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.1	2.1	U	RL		2.8	U	RL	NA	None
Chloroethane	75-00-3	2.2	2.2	U	RL		2.9	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.2	3.2	U	RL		4.4	U	RL	NA	None
Freon 113	76-13-1	6.3	6.3	U	RL		8.4	U	RL	NA	None
Methylene Chloride	75-09-2	2.8	2.8	U	RL		3.8	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.3	3.3	U	RL		4.4	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.2	3.2	U	RL		4.4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.5	11		>RL but < 5xRL		10		>RL but < 5xRL	9.5	None
Trichloroethene	79-01-6	4.4	35		> 5 x RL		31		> 5 x RL	12.1	None
Tetrachloroethene	127-18-4	5.6	5.6	U	RL		7.5	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.2	3.2	U	RL		4.4	U	RL	NA	None

* The LD DF was 2.2
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/5/06

Data Reviewer MJC. RK

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4/06 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126C
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0411D040406 FD = DU34144040406

Analyte Name	CAS No.	DF= 2.34* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	3	3	U	RL	3	U	RL	NA	None
Chloroethane	75-00-3	3.1	3.1	U	RL	3.1	U	RL	NA	None
1,1-Dichloroethene	75-35-4	4.6	4.6	U	RL	4.6	U	RL	NA	None
Freon 113	76-13-1	9	9	U	RL	9	U	RL	NA	None
Methylene Chloride	75-09-2	4.1	4.1	U	RL	4.1	U	RL	NA	None
1,1-Dichloroethane	75-34-3	4.7	4.7	U	RL	4.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	4.6	8.1		>RL but < 5xRL	8.8		>RL but < 5xRL	8.3	None
1,1,1-Trichloroethane	71-55-6	6.4	46		> 5 x RL	52		> 5 x RL	12.2	None
Trichloroethene	79-01-6	6.3	2400		> 5 x RL	2500		> 5 x RL	4.1	None
Tetrachloroethene	127-18-4	7.9	58		> 5 x RL	63		> 5 x RL	8.3	None
trans-1,2-Dichloroethene	156-60-5	4.6	4.6	U	RL	4.6	U	RL	NA	None

*This is the sample and FD DF and RLs

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0635D040406

Analyte Name	CAS No.	DF= 1.58* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2	2	U	RL	2.7	U	RL	NA	None
Chloroethane	75-00-3	2.1	2.1	U	RL	2.8	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.1	3.1	U	RL	4.2	U	RL	NA	None
Freon 113	76-13-1	6	6	U	RL	8.1	U	RL	NA	None
Methylene Chloride	75-09-2	2.7	2.7	U	RL	3.7	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.2	3.2	U	RL	4.3	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.1	3.1	U	RL	4.2	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.3	24		> 5 x RL	24		> 5 x RL	0.0	None
Trichloroethene	79-01-6	4.2	90		> 5 x RL	89		> 5 x RL	1.1	None
Tetrachloroethene	127-18-4	5.4	5.4	U	RL	7.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.1	3.1	U	RL	4.2	U	RL	NA	None

* The LD DF was 2.12
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/5/06

Data Reviewer

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 5/5/06

Data Reviewer MJC. RM

New Environmental Horizons, Inc.

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0604126D

Number of Samples: 20 soil vapor samples for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: May 5, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review.

Samples EN047D040406, EN0422D040506, EN048D040506, EN049D040506, EN0410S040506, and EN0410D040506 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. In addition, sample EN045D040405 was initially pressurized and analyzed but required re-pressurization and dilution at the instrument for a secondary analysis. As a consequence of the re-pressurizations and dilutions made for analysis, several non-detected results in these seven samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order with the following exceptions:

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Sample Name	Lab ID	Analyte Name	Qualifier	Bias	Comments
EN0534S040506	0604126D-65A	Methylene Chloride	J	H	Interference present
EN0534I040506	0604126D-66A	Methylene Chloride	J	H	Interference present
EN049D040506	0604126D-73A	Tetrachloroethene	J	I	LD imprecision

Qualifiers: R = result rejected and unusable for project objectives; J = result is an estimated value; U = result is non-detect at the level reported; UJ = non-detect is an estimated value; EB = result detected in an associated equipment blank; JEB = result detected in an associated equipment blank and is an estimated value.

Bias: L = Low; H = High; I = Indeterminate

The qualified (U and J) and unqualified results presented in the validated database are considered usable for project objectives.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126D
No. Samples 19 + 1FD

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	7 samples DF > 2
Except:								
EN049040506						J PCE		
EN0534S040506								J MeCl2
EN0534I040506								

Comments: All Canister field & lab receipt vacuums met criteria & there were no COC issues noted.

All Samples were analyzed within 14 days of collection => HT met - No Action

ICAL = Instrument 5 on 3/28/06 - All Targets had %RSD < 30% & 6-level ICAL from 0.5 -> 200 ppbV => ICAL valid - No Action.

CCAL: 5041702 & 5041802a - %Rec all OK => No Action required.

Date 5/5/06

Data Reviewer MJC. RH

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4 - 4/5/06

Work Order #: 0604126D
No. Samples 19 + 1 FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5041705 & 5041806a
EB: EBSC4304046 (w.o.# 0604126B) & ERSCH1040506 (w.o.# 0604126E) > All 11 Targets were ND

Blank ID	Contaminant / Level (µg/m³)	Action Level DF=	Sample and reported result (µg/m³)	Corrected Database Result

No Blank Action Required

NCR 5/5/06

Date 5/5/06

Data Reviewer

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4 -4/5/06

Work Order #: 0604126D
No. Samples 19 + 1 FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tune - 3 (2 CCAL + 1 ICAL): All Abundances OK ⇒ No Action

All 3 Surrogate %Rec + 3 IS Areas / RTs were acceptable for all Samples + QC ⇒ No Action.

LCS/LCSD: 5041703/5041704 + 5041803/5041804 - %Rec + RPD all OK ⇒ No Action

2 LDs 1) EN049D040506 Sample/LD shown at the bottom of page 4 - LD precision was acceptable for 6 of the 7 detected VOCs - LD precision was not acceptable for Tetrachloroethene with RPD > 25% for results > 5x RL. NOTE - Lab LD precision check used ppbV values + RPD was ≤ 20%; However, since mg/m³ is how data is reported in database + since FDs only evaluated by mg/m³, decision made to qualify Tetrachloroethene in EN049D040506 as estimated (J) with Indeterminate Bias due to LD imprecision.
2) EN0410D040506 Sample/LD shown at the top of page 4A - LD precision OK for all 7 detected VOCs ⇒ no action

FD pair: EN0425D040506 + DUP49030405O6 shown at the top of Page 4 - FD precision OK for all 3 detected VOCs ⇒ No action required.

Narrative indicated that methylene chloride in samples EN0534S040506 + EN0534I040506 both had interferences with characteristic ions ⇒ MeCl2 may be biased high
* Action: MeCl2 estimated (J) in 2 samples with possible High Bias due to interferences.

There were no "J" data reported + narrative only noted MeCl2 issue.
RLs were ≤ expected RLs (i.e. DF ≤ 2) except: EN047D040406 (DF: 6.56), EN0422D040506 (DF: 3.1), EN048D040506 (DF: 4.56), EN049D040506 (DF: 22.4), EN0410S040506 (DF: 17.1) + EN0410D040506 (DF: 56) due to dilution at instrument and EN045D040406 (DF: 4.07) due to reprocessing/dilution for 2nd analysis + dilution at instrument.

Date 5/5/06

Data Reviewer MJC. RK

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4/06 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126D
No. Samples 19 + 1FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0425D040506 FD = DU94903040506

Analyte Name	CAS No.	DF=1.64* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.1	2.1	U	RL	2.1	U	RL	NA	None
Chloroethane	75-00-3	2.2	2.2	U	RL	2.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.2	3.2	U	RL	3.2	U	RL	NA	None
Freon 113	76-13-1	6.3	6.3	U	RL	6.3	U	RL	NA	None
Methylene Chloride	75-09-2	2.8	2.8	U	RL	2.8	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.3	3.3	U	RL	3.3	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.2	3.8		>RL but < 5xRL	3.4		>RL but < 5xRL	11.1	None
1,1,1-Trichloroethane	71-55-6	4.5	5.5		>RL but < 5xRL	6.2		>RL but < 5xRL	12.0	None
Trichloroethene	79-01-6	4.4	18		>RL but < 5xRL	16		>RL but < 5xRL	11.8	None
Tetrachloroethene	127-18-4	5.6	5.6	U	RL	5.6	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.2	3.2	U	RL	3.2	U	RL	NA	None

*This is the sample and FD DF and RLs

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN049D040506

Analyte Name	CAS No.	DF= 22.4 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	29	29	U	RL	29	U	RL	NA	None
Chloroethane	75-00-3	30	30	U	RL	30	U	RL	NA	None
1,1-Dichloroethene	75-35-4	44	1500		> 5 x RL	1300		> 5 x RL	14.3	None
Freon 113	76-13-1	86	100		>RL but < 5xRL	93		>RL but < 5xRL	7.3	None
Methylene Chloride	75-09-2	39	39	U	RL	39	U	RL	NA	None
1,1-Dichloroethane	75-34-3	45	1400		> 5 x RL	1200		> 5 x RL	15.4	None
cis-1,2-Dichloroethene	156-59-2	44	3500		> 5 x RL	3000		> 5 x RL	15.4	None
1,1,1-Trichloroethane	71-55-6	61	3700		> 5 x RL	3300		> 5 x RL	11.4	None
Trichloroethene	79-01-6	60	15000		> 5 x RL	13000		> 5 x RL	14.3	None
Tetrachloroethene	127-18-4	76	1300		> 5 x RL	1000		> 5 x RL	26.1	J Sample
trans-1,2-Dichloroethene	156-60-5	44	44	U	RL	44	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/5/06

Data Reviewer

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/4/06 - 4/5/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126D
No. Samples 19 + 1FD

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0410D040506

Analyte Name	CAS No.	DF= 56 RL ($\mu g/m^3$)	Sample $\mu g/m^3$	Q	Sample Result Level		LD $\mu g/m^3$	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	72	72	U	RL		72	U	RL	NA	None
Chloroethane	75-00-3	74	74	U	RL		74	U	RL	NA	None
1,1-Dichloroethene	75-35-4	110	5600		> 5 x RL		5900		> 5 x RL	5.2	None
Freon 113	76-13-1	210	330		>RL but < 5xRL		380		>RL but < 5xRL	14.1	None
Methylene Chloride	75-09-2	97	97	U	RL		97	U	RL	NA	None
1,1-Dichloroethane	75-34-3	110	7100		> 5 x RL		7300		> 5 x RL	2.8	None
cis-1,2-Dichloroethene	156-59-2	110	13000		> 5 x RL		14000		> 5 x RL	7.4	None
1,1,1-Trichloroethane	71-55-6	150	18000		> 5 x RL		19000		> 5 x RL	5.4	None
Trichloroethene	79-01-6	150	36000		> 5 x RL		35000		> 5 x RL	2.8	None
Tetrachloroethene	127-18-4	190	500		>RL but < 5xRL		470		>RL but < 5xRL	6.2	None
trans-1,2-Dichloroethene	156-60-5	110	110	U	RL		110	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/5/06

Data Reviewer

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 5/5/06

Data Reviewer

New Environmental Horizons, Inc.

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0604126E

Number of Samples: 12 soil vapor samples + 2 equipment blanks for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: May 10, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Sample EN0637I040606 was received at the laboratory with a higher vacuum than anticipated. Samples EN0533I21040606, EN0533I29040606, and EN0533D040606 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the receipt pressures and dilutions made for analysis, several non-detected results in these four samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order. The results reported by the laboratory were unchanged as a consequence of this data review and the results presented in the validated database are considered usable for project objectives.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4|5-4|6|06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126E
No. Samples 12 + 2EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	NA	4 DF>2
Except:							No FDs	

Comments: All Canister field + lab receipt vacuums were acceptable and there were no COC issues noted => No Action

All Samples were analyzed within 10 days of collection => HT met - No Action

ICAL = Instrument 5 on 3/28/06 - All 11 Targets had %RSD < 30%, all had 6-level calibration from 0.5 → 200 ppbv => ICAL valid - No Action

CCAL: 5041402 - % Recovery all OK => No Action.

Date 5/10/06

Data Reviewer [signature]

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 415 - 4/6/06

Work Order #: 0604126E
No. Samples 12 + 2 EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5041405
EB: EBSC41040506
EBSC47040606
> All Targets were ND => No Actn Required.

Blank ID	Contaminant / Level (µg/m³)	Action Level DF=	Sample and reported result (µg/m³)	Corrected Database Result

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/5-4/6/06

Work Order #: 0604126E
No. Samples 12 + 2EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tune: 2 (1ICAL + 1CCAL). All Abundances OK ⇒ No Action Required.

Surrogate %Rec + 3 IS Areas + RTs were all in criteria for all Smpls + QC ⇒ No Action required.

LCS/LCSD: 5041403 / 5041404 - %Rec + RPD all OK ⇒ No Actn.

2 LDs: 1) EN0533D040606 shown at the bottom of pg 4 - LD precision was acceptable for all 4 detected VOCs ⇒ No Action required
2) EBSC410506 Smpl/LD shown at the top of pg 4A - All Targets were ND ⇒ Unable to assess precision - since this was an equipment blank, precision evaluation meaningless to site smpls. No action required.

There were no FDs associated with the smpls in this Work Order.

There were no "J" data reported & there were no technical issues raised in the project narrative which may have affected data quality.

All RLs were ≤ expected RLs (i.e. DF≤2) except: EN0637I040606 (DF=2.01) due to higher than expected receipt vacuum and EN0533I21040606 (DF=5.27), EN0533I29040606 (DF=13.4) and EN0533D040606 (DF=16.8) due to dilutions made at the instrument to ensure all results were reported within the instrument calibration range.

The database was unchanged as a consequence of this review.

Date 5/10/06

Data Reviewer MJC. Pk

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/5/06 - 4/6/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126E
No. Samples 12 + 2EB

Field Duplicate Evaluation_ Sample IDs: There were no Field Duplicates associated with the samples in this Work Order

Analyte Name	CAS No.	DF= RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4									
Chloroethane	75-00-3									
1,1-Dichloroethene	75-35-4									
Freon 113	76-13-1									
Methylene Chloride	75-09-2									
1,1-Dichloroethane	75-34-3									
cis-1,2-Dichloroethene	156-59-2									
1,1,1-Trichloroethane	71-55-6									
Trichloroethene	79-01-6									
Tetrachloroethene	127-18-4									
trans-1,2-Dichloroethene	156-60-5									

NM
5/10/06

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0533D040606

Analyte Name	CAS No.	DF= 16.8 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	21	21	U	RL	21	U	RL	NA	None
Chloroethane	75-00-3	22	22	U	RL	22	U	RL	NA	None
1,1-Dichloroethene	75-35-4	33	33	U	RL	33	U	RL	NA	None
Freon 113	76-13-1	64	64	U	RL	64	U	RL	NA	None
Methylene Chloride	75-09-2	29	29	U	RL	29	U	RL	NA	None
1,1-Dichloroethane	75-34-3	34	34	U	RL	34	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	33	65		>RL but < 5xRL	54		>RL but < 5xRL	18.5	None
1,1,1-Trichloroethane	71-55-6	46	660		> 5 x RL	580		> 5 x RL	12.9	None
Trichloroethene	79-01-6	45	10000		> 5 x RL	9000		> 5 x RL	10.5	None
Tetrachloroethene	127-18-4	57	470		> 5 x RL	390		> 5 x RL	18.6	None
trans-1,2-Dichloroethene	156-60-5	33	33	U	RL	33	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/10/06

Data Reviewer MJC.RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 4/5/06 - 4/6/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0604126E
No. Samples 12 + 2EB

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EBSC41040506

Analyte Name	CAS No.	DF= 1.71* RL ($\mu g/m^3$)	Sample $\mu g/m^3$	Q	Sample Result Level	LD $\mu g/m^3$	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL	2.9	U	RL	NA	None
Chloroethane	75-00-3	2.2	2.2	U	RL	3	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.4	3.4	U	RL	4.5	U	RL	NA	None
Freon 113	76-13-1	6.6	6.6	U	RL	8.8	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL	4	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL	4.6	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.4	3.4	U	RL	4.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.7	4.7	U	RL	6.2	U	RL	NA	None
Trichloroethene	79-01-6	4.6	4.6	U	RL	6.2	U	RL	NA	None
Tetrachloroethene	127-18-4	5.8	5.8	U	RL	7.8	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.4	3.4	U	RL	4.5	U	RL	NA	None

* The LD DF was 2.29
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 5/10/06

Data Reviewer MJC.RM

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 5/10/06

Data Reviewer MJC. RA

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0606626A

Number of Samples: 19 soil vapor samples + 1 equipment blank for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: August 31, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Sample EN047D062006 was received at the laboratory with a higher vacuum than anticipated. Samples EN0411D061906, EN0413S062006, EN0417D062006, EN047D062006, and EN045D062006 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the receipt pressures and dilutions made for analysis, several non-detected results in these five samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order. The results reported by the laboratory were unchanged as a consequence of this data review and the results presented in the validated database are considered usable for project objectives.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/20/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626A
No. Samples 18 + 1FD + 1ER

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	✓
Except:								5 samps
								DF>2

Comments: All Canister field + lab receipt vacuums were acceptable + there were no COC issues noted.
All samples were analyzed within 10 days of collection ⇒ HT met - No Action

ICAL = Instrument ID on 6/28/06 - All 11 Targets had 6-levels of calibration standards + lowest level was 0.5 ppbV as required. %RSD for Targets were all < 30% ⇒ Valid ICAL - No Action
BFB Tunes: 2 (1 ICAL) + 1 CCAL - All Abundances OK ⇒ No Action
CCALs: F062806a + F062902 - All %Rec OK ⇒ No Action Required.

Date 8/31/06

Data Reviewer MJC. RH

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/20/06

Work Order #: 0606626A
No. Samples 18 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MBs: f062814 + f062908
EB: EBSC760619O6 + EBSC802006 (W.O. # 0606626C) > All 11 Targets are ND

Blank ID	Contaminant / Level (µg/m³)	Action Level DF=	Sample and reported result (µg/m³)	Corrected Database Result

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/20/06

Work Order #: 0606626 6A
No. Samples 18 + 1 FD + 1 EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

All 3 Surrogate %Rec + 3 IS Areas + RTs were all in criteria for all Samples + BC ⇒ No Action Required.

LCS/LCSD: f062812 / f062813 + f062903 / f062905 - %Rec + RPDs all OK ⇒ No Action Required.

3 LD pairs were performed with the Samples in this Work Order:
1) EN0411D061906 Sample / LD shown at the bottom of page 4 - LD precision OK for all detected VOCs
2) EN0417D062006 Sample / LD shown at the top of page 4A - precision OK for all detected VOCs
3) EN047D062006 Sample / LD shown at the Bottom of page 4A - Precision all OK.

Results of LD are an indication of acceptable precision for the analyses conducted ⇒ No Action Required.

FD pair = EN0431S061906 + DU3370906 1906 shown at the top of page 4 - FD precision was acceptable for the 1 detected VOC in these samples ⇒ No Action Required.

The RLs were all ≤ Expected Laboratory Limits given in Table 2 of the Soil Vapor Monitoring Plan (i.e., DF ≤ 2) except: EN0411D061906 (DF = 3.5), EN0413S062006 (DF = 2.105), EN0417D062006 (DF = 14.3) & EN045D062006 (DF = 3.74) due to dilutions made at the instrument to ensure all detected reported within calibration range and for Sample EN047D062006 (DF = 8.24) due to slightly higher than expected receipt vacuum (-10.5 "Hg) + due to dilution of instrument.

There were no "J" data reported and the narrative did not raise any issues.

The database was unchanged as a consequence of this review.

Date 8/31/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19/06 - 6/20/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626A
No. Samples 18 + 1FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0431S061906 FD = DU33709061906

Analyte Name	CAS No.	DF= 1.71* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	2.2	2.2	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.4	3.4	U	RL	3.5	U	RL	NA	None
Freon 113	76-13-1	6.6	6.6	U	RL	6.8	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL	3.1	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL	3.6	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.4	3.4	U	RL	3.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.7	4.7	U	RL	4.9	U	RL	NA	None
Trichloroethene	79-01-6	4.6	5.6		>RL but < 5xRL	5.2		>RL but < 5xRL	7.4	None
Tetrachloroethene	127-18-4	5.8	5.8	U	RL	6.1	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.4	3.4	U	RL	3.5	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.79 and RLs are RLs shown x (1.79/1.71)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0411D061906

Analyte Name	CAS No.	DF= 3.5 * RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	4.5	4.5	U	RL	2.2	U	RL	NA	None
Chloroethane	75-00-3	4.6	4.6	U	RL	2.3	U	RL	NA	None
1,1-Dichloroethene	75-35-4	6.9	6.9	U	RL	3.5	U	RL	NA	None
Freon 113	76-13-1	13	13	U	RL	6.7	U	RL	NA	None
Methylene Chloride	75-09-2	6.1	6.1	U	RL	3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	7.1	7.1	U	RL	3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	6.9	6.9	U	RL	6.8		>RL but < 5xRL	NA	None
1,1,1-Trichloroethane	71-55-6	9.5	45		> 5 x RL	41		> 5 x RL	9.3	None
Trichloroethene	79-01-6	9.4	2300		> 5 x RL	2200	E	> 5 x RL	4.4	None
Tetrachloroethene	127-18-4	12	47		>RL but < 5xRL	48		> 5 x RL	2.1	None
trans-1,2-Dichloroethene	156-60-5	6.9	6.9	U	RL	3.5	U	RL	NA	None

* The LD DF was 1.75
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 8/31/06

Data Reviewer

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19/06 - 6/20/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626A
No. Samples 18 + 1FD + 1EB

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0417D062006

Analyte Name	CAS No.	DF= 14.3 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	18	18	U	RL	18	U	RL	NA	None
Chloroethane	75-00-3	19	19	U	RL	19	U	RL	NA	None
1,1-Dichloroethene	75-35-4	28	28	U	RL	28	U	RL	NA	None
Freon 113	76-13-1	55	55	U	RL	55	U	RL	NA	None
Methylene Chloride	75-09-2	25	25	U	RL	25	U	RL	NA	None
1,1-Dichloroethane	75-34-3	29	29	U	RL	29	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	28	110		>RL but < 5xRL	120		>RL but < 5xRL	8.7	None
1,1,1-Trichloroethane	71-55-6	39	360		> 5 x RL	390		> 5 x RL	8.0	None
Trichloroethene	79-01-6	38	8100		> 5 x RL	8800		> 5 x RL	8.3	None
Tetrachloroethene	127-18-4	48	48	U	RL	48	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	28	28	U	RL	28	U	RL	NA	None

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN047D062006

Analyte Name	CAS No.	DF= 8.24 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	10	10	U	RL	10	U	RL	NA	None
Chloroethane	75-00-3	11	11	U	RL	11	U	RL	NA	None
1,1-Dichloroethene	75-35-4	16	35		>RL but < 5xRL	36		>RL but < 5xRL	2.8	None
Freon 113	76-13-1	32	32	U	RL	32	U	RL	NA	None
Methylene Chloride	75-09-2	14	14	U	RL	14	U	RL	NA	None
1,1-Dichloroethane	75-34-3	17	17	U	RL	17	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	16	54		>RL but < 5xRL	53		>RL but < 5xRL	1.9	None
1,1,1-Trichloroethane	71-55-6	22	400		> 5 x RL	460		> 5 x RL	14.0	None
Trichloroethene	79-01-6	22	4900		> 5 x RL	5500		> 5 x RL	11.5	None
Tetrachloroethene	127-18-4	28	28	U	RL	28	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	16	16	U	RL	16	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 8/31/06

Data Reviewer MJC. RH

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 8/31/06

Data Reviewer MJC/RK

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0606626B

Number of Samples: 20 soil vapor samples for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: September 5, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Sample EN042D061906 was received at the laboratory with a higher vacuum than anticipated. Samples EN048D062006, EN049S062006, and EN049D062006 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. In addition, samples EN0414D061906, EN0412D062006, EN048D062006, EN049S062006, and EN049D062006 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the receipt pressures, re-pressurizations, and dilutions made for analysis, several non-detected results in these six samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order. The results reported by the laboratory were unchanged as a consequence of this data review and the results presented in the validated database are considered usable for project objectives.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/20/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626B
No. Samples 18 + 2 FD

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	✓
Except:								6 samples RL
								DF > 2

Comments: All Canister field + lab receipt vacuums were acceptable and there were no COC issues noted.

All Samples were analyzed within 11 days of collection ⇒ HT met - No Action

ICAL: Instrument 8 on 6/5 - 6/19/06 - All 11 Targets had %RSD < 30% + lowest level of 6-level ICAL was 0.5 ppbV ⇒ Valid ICAL - No Action

~~CCV~~ - New 9/5/06 ICAL Instrument 5 on 3/28 - 6/29/06 - %RSD < 30% for Targets + Levels OK ⇒ No Action

Date 9/5/06

Data Reviewer MJC. RM

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/20/06

Work Order #: 0606626B
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MBs: 8062908 + 5063008
EBs: EBSC7606190C (w.o.# 0606626A) + EBSC8062004 (w.o.# 0606626C) > All 11 Targets are ND

Blank ID	Contaminant / Level (µg/m³)	Action Level DF=	Sample and reported result (µg/m³)	Corrected Database Result

No Blank Action Required

NCM 9/5/06

Date _____

Data Reviewer _____

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/20/06

Work Order #: 0606676B
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

CCVs: 8062902 + 5063002 - %Rec all OK ⇒ No Actn
BFB Tims: 14 - Inst. 5 (9 ICAL + 1 CCAL) } All OK ⇒ No Actn
Inst. 8 (3 ICAL + 1 CCAL) }

All 3 IS Area / RTs + 3 Surrogate %Rec were OK in all Smpls + QC ⇒ No Actn Required.
LCS/LCSD: 8062904 / 8062906 + 5063003 / 5063005 - %Rec + RPDs all OK ⇒ No Actn.

2 LDs performed 1) EN049S062006 Smpl / LD shown at the bottom of page 4 - LD precision OK for all detected VOCs - No Actn

2) EN049D062006 Smpl / LD shown at the bottom of page 4A - LD precision OK for all 7-8 VOCs ⇒ No Actn

FD pairs: 1) EN044S061906 + DU346680619O6 shown at the top of page 4 - All VOCs were non-detect ⇒ Unable to assess precision based on these results.

2) EN035D062006 + DU346250620O6 shown at the top of page 4A - FD precision OK for 2 detected VOCs ⇒ No Actn required.

There were no "J" data reported & narrative did not raise any issues.

The RLs were ≤ expected RLs in Table 2 of SUM Plan (i.e. DF ≤ 2) except: EN042D061906 (DF = 2.12) due to high than expected receipt vacuum (11.0 "Hg); EN041 4D061906 (DF = 3.5) & EN041 2D062006 (DF = 2.64) due to dilution made at instrument lab; and EN048D062006 (DF = 8.95), EN049S062006 (DF = 5.16) & EN049D062006 (DF = 25.6) due to need to re-pressurize tank due to 2nd aliquot & > analytes + need for dilution at the instruments.

The data was unchanged as a consequence of this review.

Date 9/5/06

Data Reviewer M J C. Rill

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19/06 - 6/20/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626B
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN044S061906 FD = DU34668061906

Analyte Name	CAS No.	DF= 1.83* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.3	2.3	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	2.4	2.4	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.6	3.6	U	RL	3.6	U	RL	NA	None
Freon 113	76-13-1	7	7	U	RL	7	U	RL	NA	None
Methylene Chloride	75-09-2	3.2	3.2	U	RL	3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.7	3.7	U	RL	3.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.6	3.6	U	RL	3.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5	5	U	RL	5	U	RL	NA	None
Trichloroethene	79-01-6	4.9	4.9	U	RL	4.9	U	RL	NA	None
Tetrachloroethene	127-18-4	6.2	6.2	U	RL	6.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.6	3.6	U	RL	3.6	U	RL	NA	None

*This is the sample and FD DF and RLs

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN049S062006

Analyte Name	CAS No.	DF= 5.16 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	6.6	6.6	U	RL	6.6	U	RL	NA	None
Chloroethane	75-00-3	6.8	6.8	U	RL	6.8	U	RL	NA	None
1,1-Dichloroethene	75-35-4	10	18		>RL but < 5xRL	16		>RL but < 5xRL	11.8	None
Freon 113	76-13-1	20	20	U	RL	20	U	RL	NA	None
Methylene Chloride	75-09-2	9	9	U	RL	9	U	RL	NA	None
1,1-Dichloroethane	75-34-3	10	30		>RL but < 5xRL	34		>RL but < 5xRL	12.5	None
cis-1,2-Dichloroethene	156-59-2	10	26		>RL but < 5xRL	33		>RL but < 5xRL	23.7	None
1,1,1-Trichloroethane	71-55-6	14	350		> 5 x RL	350		> 5 x RL	0.0	None
Trichloroethene	79-01-6	14	5600		> 5 x RL	5600		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	18	130		> 5 x RL	140		> 5 x RL	7.4	None
trans-1,2-Dichloroethene	156-60-5	10	10	U	RL	10	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/5/06

Data Reviewer MJC, RK

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19/06 - 6/20/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626B
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0635D062006 FD = DU34625062006

Analyte Name	CAS No.	DF= 1.87* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.4	2.4	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	2.5	2.5	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.7	3.7	U	RL	3.5	U	RL	NA	None
Freon 113	76-13-1	7.2	7.2	U	RL	6.8	U	RL	NA	None
Methylene Chloride	75-09-2	3.2	3.2	U	RL	3.1	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.8	3.8	U	RL	3.6	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.7	3.7	U	RL	3.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5.1	23		>RL but < 5xRL	24		>RL but < 5xRL	4.3	None
Trichloroethene	79-01-6	5	93		> 5 x RL	92		> 5 x RL	1.1	None
Tetrachloroethene	127-18-4	6.3	6.3	U	RL	6.1	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.7	3.7	U	RL	3.5	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.79 and RLs are RLs shown x (1.79/1.87)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN049D062006

Analyte Name	CAS No.	DF= 25.6 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	33	33	U	RL	33	U	RL	NA	None
Chloroethane	75-00-3	34	34	U	RL	34	U	RL	NA	None
1,1-Dichloroethene	75-35-4	51	1200		> 5 x RL	1100		> 5 x RL	8.7	None
Freon 113	76-13-1	98	110		>RL but < 5xRL	110		>RL but < 5xRL	0.0	None
Methylene Chloride	75-09-2	44	44	U	RL	44	U	RL	NA	None
1,1-Dichloroethane	75-34-3	52	1200		> 5 x RL	1200		> 5 x RL	0.0	None
cis-1,2-Dichloroethene	156-59-2	51	3100		> 5 x RL	2800		> 5 x RL	10.2	None
1,1,1-Trichloroethane	71-55-6	70	3500		> 5 x RL	3200		> 5 x RL	9.0	None
Trichloroethene	79-01-6	69	16000		> 5 x RL	15000		> 5 x RL	6.5	None
Tetrachloroethene	127-18-4	87	1300		> 5 x RL	1200		> 5 x RL	8.0	None
trans-1,2-Dichloroethene	156-60-5	51	51	U	RL	82		>RL but < 5xRL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/5/06

Data Reviewer MC. RM

A
4 of 5

New Environmental Horizons, Inc.

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results;
Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/5/06

Data Reviewer C.R.

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0606626C

Number of Samples: 19 soil vapor samples + 1 equipment blank for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc. NCR

Date: September 11, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Samples EN0410S062006, EN0410D062006,and DU9497062006 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the dilutions made for analysis, several non-detected results in these three samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

The Chain-of-Custody (COC) contained the incorrect canister number for sample EBSC8062002. The COC listed the canister as number 506; however, the actual canister number for this equipment blank, according to he laboratory, was 508.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order with the following exceptions:

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Sample Name	Lab ID	Analyte Name	Qualifier	Bias	Comments
EN0416D062006	0606626C-48A	Methylene Chloride	J	I	FD imprecision
EN0416D062006	0606626C-48A	1,1,1-Trichloroethane	J	I	FD imprecision
EN0416D062006	0606626C-48A	Trichloroethene	J	I	FD imprecision
EN0416D062006	0606626C-48A	Tetrachloroethene	J	I	FD imprecision
DU9497062006	0606626C-49A	Methylene Chloride	UJ	I	FD imprecision
DU9497062006	0606626C-49A	1,1,1-Trichloroethane	J	I	FD imprecision
DU9497062006	0606626C-49A	Trichloroethene	J	I	FD imprecision
DU9497062006	0606626C-49A	Tetrachloroethene	J	I	FD imprecision

Qualifiers: R = result rejected and unusable for project objectives; J = result is an estimated value; U = result is non-detect at the level reported; UJ = non-detect is an estimated value; EB = result detected in an associated equipment blank; JEB = result detected in an associated equipment blank and is an estimated value.

Bias: L = Low; H = High; I = Indeterminate

The qualified (U, UJ, and J) and unqualified results presented in the validated database are considered usable for project objectives.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/21/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626C
No. Samples 11a + 3FD + 1EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓		✓
Except:								35 sgls
EN0416D062006 + DU9497062006							J/UJ 4 cpds - Sea Pnr 4	DF>2

Comments: All Canister fueld & lab receipt ~~issue~~ Nine 9/6/06 Vacuums were OK. All COC information OK except Canister ID on COC for EBSC8062006 was listed as #506 but it was actually Canister # 508 - No action except to note discrepancy.
All Samples were analyzed within 11 days of collection ⇒ HT met - No Action

ICAL - Instrument S on 3/28 - 6/29 - All 11 Targets had %RSD <30% + levels analyzed OK - No Action
Instrument F on 6/28/06 - All 11 Targets had %RSD <30% + levels analyzed OK - No Action

Date 9/11/06

Data Reviewer

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/21/06

Work Order #: 0606626C
No. Samples 16 + 3FD + 1EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5062911 + f063006
EBl EBSC7606190G (W.O. # 0606626A), EBSC8062006 + EBSC29062106 (W.O. # 0606626 DR1) All 11 Targets were ND

Blank ID	Contaminant / Level (µg/m³)	Action Level DF=	Sample and reported result (µg/m³)	Corrected Database Result

No Blank Action Required
VCR 9/8/06

Date 9/8/06

Data Reviewer MJC.RM

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19 - 6/21/06

Work Order #: 0606626C
No. Samples 16 + 3FD + 1EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

CCALs: 5062902 + f063002 - %Rec all OK ⇒ No Actn
BFB Tune: Inst. 5 (9 - 8ICAL + 1CCAL) + Inst. f (3 - 2ICAL + 1CCAL): All Abundances OK ⇒ No Actn.

All 3 Surrogates %Rec + 3 IS Area + RTs all OK ⇒ No Actn.
LCS/LCSD 5062903/5062904 + f063003/f063004 - %Rec/RPD all OK ⇒ No Actn.

2 LDs associated with the samples in this Work Order:
1) EN0410S062006 Sample/LD shown at the bottom of page 4 - LD precision OK for all detected VOCs
2) EN0410D062006 Sample/LD shown at the bottom of page 4A - LD precision also all OK ⇒ No Actn Req'd.

3 FD pairs: 1) EN0416D062006 + DU9497062006 shown at the top of page 4 - FD precision was not acceptable for many of the detected VOCs - EN0416D062006 DF: 1.83 while DU9497062006 required DF = 7.32 - except cis-1,2-dichloroethene (see page 4)
*Actn: Methylene chloride, 1,1,1-Trichloroethane, Trichloroethene, + Tetrachloroethene were started (J+UJ) with indeterminate bias in EN0416D062006 + DU9497062006 due to FD imprecision.

2) ~~EN0419S062106~~ Now 4/11/06 EN0419S062106 + DU2032062106 - shown at the top of page 4A + 3) EN0421S062106 + DU3082906210G shown at the top of page 4B - All Results in these samples were non-detect ⇒ Unable to assess FD precision.

There were no "J" data reported by lab + no additional issues raised in narrative.

All Rls were ≤ reported Rls (i.e. DF ≤ 2) except: EN0410S062006 (DF = 69.4), EN0410D062006 (DF = 71.6) + DU9497062006 (DF = 7.32) due to need for dilution of the instrument to ensure all results were reported within the calibration rng.

Date 9/11/06

Data Reviewer C.RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19/06 - 6/21/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626C
No. Samples 16 + 3FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0416D062006 FD = DU9497062006

Analyte Name	CAS No.	DF= 1.83* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.3	2.3	U	RL	9.4	U	RL	NA	None
Chloroethane	75-00-3	2.4	2.4	U	RL	9.6	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.6	3.6	U	RL	14	U	RL	NA	None
Freon 113	76-13-1	7	7	U	RL	28	U	RL	NA	None
Methylene Chloride	75-09-2	3.2	54		> 5 x RL	13	U	RL	NA	UJ / J
1,1-Dichloroethane	75-34-3	3.7	3.7	U	RL	15	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.6	3.6	U	RL	28		>RL but < 5xRL	NA	None
1,1,1-Trichloroethane	71-55-6	5	17		>RL but < 5xRL	240		> 5 x RL	173.5	J Both
Trichloroethene	79-01-6	4.9	440		> 5 x RL	5700		> 5 x RL	171.3	J Both
Tetrachloroethene	127-18-4	6.2	18		>RL but < 5xRL	220		> 5 x RL	169.7	J Both
trans-1,2-Dichloroethene	156-60-5	3.6	3.6	U	RL	14	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 7.32 and RLs are RLs shown x (7.32/1.83)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0410S062006

Analyte Name	CAS No.	DF= 69.4 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	89	89	U	RL	89	U	RL	NA	None
Chloroethane	75-00-3	92	92	U	RL	92	U	RL	NA	None
1,1-Dichloroethene	75-35-4	140	3500		> 5 x RL	3500		> 5 x RL	0.0	None
Freon 113	76-13-1	260	300		>RL but < 5xRL	260	U	RL	NA	None
Methylene Chloride	75-09-2	120	120	U	RL	120	U	RL	NA	None
1,1-Dichloroethane	75-34-3	140	3900		> 5 x RL	3800		> 5 x RL	2.6	None
cis-1,2-Dichloroethene	156-59-2	140	4000		> 5 x RL	4000		> 5 x RL	0.0	None
1,1,1-Trichloroethane	71-55-6	190	11000		> 5 x RL	11000		> 5 x RL	0.0	None
Trichloroethene	79-01-6	190	32000		> 5 x RL	32000		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	240	320		>RL but < 5xRL	360		>RL but < 5xRL	11.8	None
trans-1,2-Dichloroethene	156-60-5	140	160		>RL but < 5xRL	140	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/11/06

Data Reviewer MJC.RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19/06 - 6/21/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626C
No. Samples 16 + 3FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0419S062106 FD = DU2032062106

Analyte Name	CAS No.	DF= 1.61* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2	2	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	2.1	2.1	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.2	3.2	U	RL	3.5	U	RL	NA	None
Freon 113	76-13-1	6.2	6.2	U	RL	6.8	U	RL	NA	None
Methylene Chloride	75-09-2	2.8	2.8	U	RL	3.1	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.2	3.2	U	RL	3.6	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.2	3.2	U	RL	3.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.4	4.4	U	RL	4.9	U	RL	NA	None
Trichloroethene	79-01-6	4.3	4.3	U	RL	4.8	U	RL	NA	None
Tetrachloroethene	127-18-4	5.5	5.5	U	RL	6.1	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.2	3.2	U	RL	3.5	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.79 and RLs are RLs shown x (1.79/1.61)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0410D062006

Analyte Name	CAS No.	DF= 71.6 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	92	92	U	RL	92	U	RL	NA	None
Chloroethane	75-00-3	94	94	U	RL	94	U	RL	NA	None
1,1-Dichloroethene	75-35-4	140	4700		> 5 x RL	4500		> 5 x RL	4.3	None
Freon 113	76-13-1	270	300		>RL but < 5xRL	280		>RL but < 5xRL	6.9	None
Methylene Chloride	75-09-2	120	120	U	RL	120	U	RL	NA	None
1,1-Dichloroethane	75-34-3	140	6400		> 5 x RL	6000		> 5 x RL	6.5	None
cis-1,2-Dichloroethene	156-59-2	140	12000		> 5 x RL	11000		> 5 x RL	8.7	None
1,1,1-Trichloroethane	71-55-6	200	16000		> 5 x RL	15000		> 5 x RL	6.5	None
Trichloroethene	79-01-6	190	35000		> 5 x RL	35000		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	240	440		>RL but < 5xRL	540		>RL but < 5xRL	20.4	None
trans-1,2-Dichloroethene	156-60-5	140	140	U	RL	140	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/11/06

Data Reviewer MJC.RPL

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/19/06 - 6/21/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626C
No. Samples 16 + 3FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0421S062106 FD = DU30829062106

Analyte Name	CAS No.	DF= 1.79* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.3	2.3	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	2.4	2.4	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL	3.5	U	RL	NA	None
Freon 113	76-13-1	6.8	6.8	U	RL	6.8	U	RL	NA	None
Methylene Chloride	75-09-2	3.1	3.1	U	RL	3.1	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.6	3.6	U	RL	3.6	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL	3.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.9	4.9	U	RL	4.9	U	RL	NA	None
Trichloroethene	79-01-6	4.8	4.8	U	RL	4.8	U	RL	NA	None
Tetrachloroethene	127-18-4	6.1	6.1	U	RL	6.1	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL	3.5	U	RL	NA	None

*This is the sample and FD DF and RLs
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/11/06
Data Reviewer MJC. RA

B
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A

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/4/06

Data Reviewer MJC. RM

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0606626DR1

Number of Samples: 19 soil vapor samples + 1 equipment blank for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: September 11, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Samples EN0429D062106 and DU34127062106 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the dilutions made for analysis, several non-detected results in these two samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

The original Work Order, 0606626D, indicated that the Chain-of-Custody (COC) was not fully executed since the date of collection was missing for certain samples. The client sent the laboratory a revised COC which was fully executed and the laboratory reissued the Work Order as 0606626DR1 with the amended COC.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order. The results reported by the laboratory were unchanged as a consequence of this data review and the results presented in the validated database are considered usable for project objectives.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626 DR1
No. Samples 17 + 2FD + 1EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	✓
Except:								2 of 2

Comments: The original COC for one set of sugs did not show the date of sugling for all sugs on the COC. The client sent a revised COC showing all dates of collection so ATL reissued the project with the revised COC as 0606626 DR1.

All Canister field + lab receipt vacuums were acceptable ⇒ No Action reqd.

All Sugs were analyzed within 9 days of collection ⇒ HT met - No Action

ICAL = Instrument 1 on 6/8 - 6/26/06 - All 61 Targets had %RSD < 30% + 6-levels of stands used with lowest level at 0.5 ppbv ⇒ Supports RLs requested - No Action reqd.

Date 9/11/06

Data Reviewer [signature]

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21/06

Work Order #: 0606626DR1
No. Samples 17 + 2FD + 1EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 1062910 & 1063006a > All 11 Targets were ND
EB: EBSC29062106

Blank ID	Contaminant / Level ($\mu g/m^3$)		Action Level DF=		Sample and reported result ($\mu g/m^3$)	Corrected Database Result

No Blank Action Required.

NOR 9/11/06

Date 9/11/06

Data Reviewer

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21/06

Work Order #: 0606626DR1
No. Samples 17 + 2FD + 1EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

CCALs: 1062902 + 1063003 - %Rec all OK ⇒ No Actn
BFB Tunes: 6 - 4 ICAL + 2 CCAL : All Abundances OK ⇒ No Actn.

3 Surrogate %Rec + 3 IS Area / RTs were all OK ⇒ No Actn reqd.
LCS/LCSD: 1062903 / 1062904 + 1063004 / 1063005 - %Rec + RPDs all OK ⇒ No Actn Reqd.

2 LDs run - 1) EN0637D062106 shown at the bottom of page 4 - LD precision OK for all 4 detected VOCs
2) EN0529S062106 shown at the bottom of page 4A - Precision OK for all 3 VOCs - No Actn Reqd.

2 FDs: 1) EN0427S062106 + DU5C31062106 shown at the top of page 4 - FD precision was OK for all 4 detected VOCs ⇒ No Actn
2) EN0429D062106 + DU34127062106 shown at the top of page 4A - FD precision OK for all 3 detected VOCs ⇒ No Actn required.

There were no "J" data reported & there were no issues, other than COC noted on page 1 of this checklist, mentioned in the narration.

All RLs were ≤ reported RLs (i.e. DF ≤ 2) except: EN0429D062106 (DF = 7.22) + DU34127062106 (DF = 7.48) due to dilutions made at the instrument level to ensure all results were within the instrument calibration range.

The database was unchanged as a consequence of this review.

Date 9/11/06

Data Reviewer [signature] C. RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626DR1
No. Samples 17 + 2FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0427S062106 FD = DUSC31062106

Analyte Name	CAS No.	DF= 1.75 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL		2.2	U	RL	NA	None
Chloroethane	75-00-3	2.3	2.3	U	RL		2.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	4.1		>RL but < 5xRL		4.2		>RL but < 5xRL	2.4	None
Freon 113	76-13-1	6.7	6.7	U	RL		6.6	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL		3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL		3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL		3.4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.8	110		> 5 x RL		110		> 5 x RL	0.0	None
Trichloroethene	79-01-6	4.7	720		> 5 x RL		730		> 5 x RL	1.4	None
Tetrachloroethene	127-18-4	5.9	110		> 5 x RL		110		> 5 x RL	0.0	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL		3.4	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.71 and RLs are RLs shown x (1.71/1.75)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0637D062106

Analyte Name	CAS No.	DF= 1.96* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.5	2.5	U	RL		2.7	U	RL	NA	None
Chloroethane	75-00-3	2.6	2.6	U	RL		2.8	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.9	3.9	U	RL		4.3	U	RL	NA	None
Freon 113	76-13-1	7.5	7.5	U	RL		8.2	U	RL	NA	None
Methylene Chloride	75-09-2	3.4	3.4	U	RL		3.7	U	RL	NA	None
1,1-Dichloroethane	75-34-3	4	4	U	RL		4.4	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.9	350		> 5 x RL		360		> 5 x RL	2.8	None
1,1,1-Trichloroethane	71-55-6	5.3	5.3	U	RL		5.9	U	RL	NA	None
Trichloroethene	79-01-6	5.3	58		> 5 x RL		60		> 5 x RL	3.4	None
Tetrachloroethene	127-18-4	6.6	23		>RL but < 5xRL		23		>RL but < 5xRL	0.0	None
trans-1,2-Dichloroethene	156-60-5	3.9	7.5		>RL but < 5xRL		7.7		>RL but < 5xRL	2.6	None

* The LD DF was 2.15

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/11/06

Data Reviewer MJC. RPL

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626DR1
No. Samples 17 + 2FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0429D062106 FD = DU34127062106

Analyte Name	CAS No.	DF= 7.32* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	9.4	9.4	U	RL	9.6	U	RL	NA	None
Chloroethane	75-00-3	9.6	9.6	U	RL	9.9	U	RL	NA	None
1,1-Dichloroethene	75-35-4	14	14	U	RL	15	U	RL	NA	None
Freon 113	76-13-1	28	28	U	RL	29	U	RL	NA	None
Methylene Chloride	75-09-2	13	13	U	RL	13	U	RL	NA	None
1,1-Dichloroethane	75-34-3	15	15	U	RL	15	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	14	28		>RL but < 5xRL	32		>RL but < 5xRL	13.3	None
1,1,1-Trichloroethane	71-55-6	20	510		> 5 x RL	600		> 5 x RL	16.2	None
Trichloroethene	79-01-6	20	5500		> 5 x RL	6300		> 5 x RL	13.6	None
Tetrachloroethene	127-18-4	25	25	U	RL	25	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	14	14	U	RL	15	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 7.48 and RLs are RLs shown x (7.48/7.32)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0529S062106

Analyte Name	CAS No.	DF= 1.71 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL	2.2	U	RL	NA	None
Chloroethane	75-00-3	2.2	2.2	U	RL	2.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.4	4.1		>RL but < 5xRL	4.6		>RL but < 5xRL	11.5	None
Freon 113	76-13-1	6.6	6.6	U	RL	6.6	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL	3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL	3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.4	3.4	U	RL	3.4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.7	73		> 5 x RL	70		> 5 x RL	4.2	None
Trichloroethene	79-01-6	4.6	870		> 5 x RL	840		> 5 x RL	3.5	None
Tetrachloroethene	127-18-4	5.8	5.8	U	RL	5.8	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.4	3.4	U	RL	3.4	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/11/06

Data Reviewer M C. RM

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/11/06

Data Reviewer MJC.RK

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0606626ER1

Number of Samples: 13 soil vapor samples + 1 equipment blank for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: September 11, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Sample EN0422S062106 was received at the laboratory with a higher vacuum than anticipated. Samples EN0422D062106, EN0426D062206, and DU9322062206 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. In addition, samples EN0533I21062106, EN0533I29062106, EN0533D062106, and EN0422D062106 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the receipt pressures, re-pressurizations, and dilutions made for analysis, several non-detected results in these seven samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

Work Order 0606626E was reported using the sample IDs as they appeared on the Chain-of-Custody (COC). One sample, EN0533I21062106, was incorrectly listed on the COC as sample ID EN0533I22062106. SHA, realizing the COC error, asked the laboratory to correct this sample ID on the data resulting in the laboratory reissuing the Work Order as 0606626ER1.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order with the following exceptions:

Sample Name	Lab ID	Analyte Name	Qualifier	Bias	Comments
EN0636D062106	0606626ER1-88A	1,1-Dichloroethane	J	I	Result ≤ RL

Qualifiers: R = result rejected and unusable for project objectives; J = result is an estimated value; U = result is non-detect at the level reported; UJ = non-detect is an estimated value; EB = result detected in an associated equipment blank; JEB = result detected in an associated equipment blank and is an estimated value.

Bias: L = Low; H = High; I = Indeterminate

The qualified (U and J) and unqualified results presented in the validated database are considered usable for project objectives.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21 – 6/22/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626ER1
No. Samples 12 + 1FD + 1EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	
Except:								
EN0636D062106								J 1,1-DCA
								7 Smpls
								DF>2

Comments: The COC incorrectly indicated Smpl ID as EN0533IZZ062106 and lab reported all Smpls as indicated on the COC in Work Order # 0606626E. Client reviewed field records & determined the correct ID for this Smpl should have been EN0533I21062106 and requested that the lab amend the report using the correct ID - this lead to issuance of W.O.# 0606626ER1.
All Canister field & lab receipt vacuums OK ⇒ No Action req'd.
All Smpls were analyzed within 12 Days of Collection ⇒ HT met - No Action

Date 9/11/06

Data Reviewer

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21 - 6/22/06

Work Order #: 0606626ER1
No. Samples 12 + 1FD + 1ER

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5070108, 5070206 & 5070307
FB: EBSC29062106 (W.O.# 0606626DR1) & EBSC66062206 } All 11 Targets are ND -

Blank ID	Contaminant / Level ($\mu g/m^3$)	Action Level DF=	Sample and reported result ($\mu g/m^3$)	Corrected Database Result

No Blank Action Required

NCR 9/11/06

Date 9/11/06

Data Reviewer

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21 - 6/22/06

Work Order #: 0606626ER1
No. Samples 12 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

ICAL = Instrument 5 from 3/28 - 6/29/06 - All 11 Targets %RSD < 30% + 1 each analyzed OK ⇒ No Actn
CCAL: 5070102, 5070202 + 5070303 - %Rec all OK
BFB Tune: 12 (9 ICAL + 3 CCAL): All Abundances OK ⇒ No Actn.

%Rec for all 3 Surrogates + 3 IS Area/RTs all OK ⇒ No Actn
LCS/LCSD: 5070103/5070104 + 5070203/5070204 + 5070304/5070306 - %Rec + RPD all OK ⇒ No Actn.

2 LDs: 1) EN0533D062106 shown at the bottom of page 4 + 2) EN0422S062106 shown at the top of page 4A - LD precision was acceptable for all detected VOCs ⇒ No Actn req'd.

FD pair = EN0426D062206 + DU9322062206 shown at the top of page 4 - FD precision was acceptable for all 4 detected VOCs ⇒ No Actn

1,1-Dichloroethane in EN0636D062106 was reported with a "J" due to result ≤ RL - This J was accepted w/ Indeterminate bias

All RLs were ≤ reported RLs (i.e. DFL2) except: EN0533I2106 2106 (DF = 4.77), EN0533I2906 2106 (DF = 8.04), + EN0533D062106 (DF = 2.49) due to dilutions made at the instrument; EN0422S062106 (DF = 2.17) due to higher than expected receipt vacuum; EN0426D062206 (DF = 2.47) + DU9322062206 (DF = 2.61) due to need for lab to repressurize canisters since initial analysis was not acceptable; and EN0422D062106 (DF = 3.97) due to repressurization + dilution made at instrument.

Date 9/11/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21/06 - 6/22/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626ER1
No. Samples 12 + 1FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0426D062206 FD = DU9322062206

Analyte Name	CAS No.	DF= 2.47* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	3.2	3.2	U	RL	3.3	U	RL	NA	None
Chloroethane	75-00-3	3.2	3.2	U	RL	3.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	4.9	4.9	U	RL	5.2	U	RL	NA	None
Freon 113	76-13-1	9.5	9.5	U	RL	10		>RL but < 5xRL	NA	None
Methylene Chloride	75-09-2	4.3	4.7		>RL but < 5xRL	4.5	U	RL	NA	None
1,1-Dichloroethane	75-34-3	5	5	U	RL	5.3	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	4.9	4.9	U	RL	5.2	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	6.7	90		> 5 x RL	98		> 5 x RL	8.5	None
Trichloroethene	79-01-6	6.6	1800		> 5 x RL	2000		> 5 x RL	10.5	None
Tetrachloroethene	127-18-4	8.4	18		>RL but < 5xRL	14		>RL but < 5xRL	25.0	None
trans-1,2-Dichloroethene	156-60-5	4.9	4.9	U	RL	5.2	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 2.61and RLs are RLs shown x (2.61/2.47)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0533D062106

Analyte Name	CAS No.	DF= 2.49 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	3.2	3.2	U	RL	3.2	U	RL	NA	None
Chloroethane	75-00-3	3.3	3.3	U	RL	3.3	U	RL	NA	None
1,1-Dichloroethene	75-35-4	4.9	4.9	U	RL	4.9	U	RL	NA	None
Freon 113	76-13-1	9.5	9.5	U	RL	9.5	U	RL	NA	None
Methylene Chloride	75-09-2	4.3	32		> 5 x RL	28		> 5 x RL	13.3	None
1,1-Dichloroethane	75-34-3	5	5	U	RL	5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	4.9	6.5		>RL but < 5xRL	5.7		>RL but < 5xRL	13.1	None
1,1,1-Trichloroethane	71-55-6	6.8	57		> 5 x RL	52		> 5 x RL	9.2	None
Trichloroethene	79-01-6	6.7	1100		> 5 x RL	1000		> 5 x RL	9.5	None
Tetrachloroethene	127-18-4	8.4	53		> 5 x RL	52		> 5 x RL	1.9	None
trans-1,2-Dichloroethene	156-60-5	4.9	4.9	U	RL	4.9	U	RL	NA	None

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/11/06

Data Reviewer

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 6/21/06 - 6/22/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0606626ER1
No. Samples 12 + 1FD + 1EB

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0422S062106

Analyte Name	CAS No.	DF= 2.17* RL ($\mu g/m^3$)	Sample $\mu g/m^3$	Q	Sample Result Level		LD $\mu g/m^3$	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.8	2.8	U	RL		5.1	U	RL	NA	None
Chloroethane	75-00-3	2.9	2.9	U	RL		5.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	4.3	4.3	U	RL		7.9	U	RL	NA	None
Freon 113	76-13-1	8.3	9.2		>RL but < 5xRL		15	U	RL	NA	None
Methylene Chloride	75-09-2	3.8	3.8	U	RL		6.9	U	RL	NA	None
1,1-Dichloroethane	75-34-3	4.4	5.6		>RL but < 5xRL		8	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	4.3	1100		> 5 x RL		1000		> 5 x RL	9.5	None
1,1,1-Trichloroethane	71-55-6	5.9	37		> 5 x RL		34		> 5 x RL	8.5	None
Trichloroethene	79-01-6	5.8	630		> 5 x RL		620		> 5 x RL	1.6	None
Tetrachloroethene	127-18-4	7.4	7.4	U	RL		13	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	4.3	35		> 5 x RL		39		> 5 x RL	10.8	None

* The LD DF was 3.97
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/11/06

Data Reviewer

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/11/06

Data Reviewer

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0608491A

Number of Samples: 19 soil vapor samples + 1 equipment blank for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: September 18, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Sample EN0431S081406 was received at the laboratory with a higher vacuum than anticipated. Samples EN041S081406, EN041D081406, EN0411S081406, EN0411D081406, EN047D081506, and EN0417D081506 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. In addition, samples EN0431D081406, EN045D081506, EN047D081506, and EN0417D081506 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the receipt pressures, re-pressurizations, and dilutions made for analysis, several non-detected results in these nine samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order with the following exceptions:

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Sample Name	Lab ID	Analyte Name	Qualifier	Bias	Comments
EN043S081406	0608491A-06A	Tetrachloroethene	J	I	FD imprecision
DU34165081406	0608491A-07A	Tetrachloroethene	UJ	I	FD imprecision

Qualifiers: R = result rejected and unusable for project objectives; J = result is an estimated value; U = result is non-detect at the level reported; UJ = non-detect is an estimated value; EB = result detected in an associated equipment blank; JEB = result detected in an associated equipment blank and is an estimated value.

Bias: L = Low; H = High; I = Indeterminate

The qualified (U, UJ, and J) and unqualified results presented in the validated database are considered usable for project objectives.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14 - 8/15/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491A
No. Samples 18 + 1FD + 1EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓		✓
Except:								10 Samples with DF>2 (include EB)
EN043508140[illegible]							J/UJ PCE	
DU341650814O6								

Comments: All Canister field + lab receipt vacuums were OK + there were no COC issues noted.

All Samples were analyzed within 7 days of collection => HT met - No Action.

ICAL: Instrmt 5 on 8/14 - 8/16/06 - All 11 Targets have %RSD < 30% + Inds analyzed as required => Valid ICAL - No Action

CCAL: 5082105 + 5082203 - %Rec all OK => No Action

Date 9/18/06

Data Reviewer [signature]

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14-8/15/06

Work Order #: 0608491A
No. Samples 18 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5082107 + 5082208
EB: EBSC80081406 + EBSC21081506 (W.O.# 0608491B) > All 11 Targets were non-detect

Blank ID	Contaminant / Level ($\mu g/m^3$)	Action Level DF=	Sample and reported result ($\mu g/m^3$)	Corrected Database Result

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14 - 8/15/06

Work Order #: 0608491A
No. Samples 18 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tunes: 4 (2 ICAL + 2 CCAL): All Abundances were OK ⇒ No Action Required.

All 3 Surrogate %Rec + 3 IS Area/RTs were OK for all Smpls + QC ⇒ No Action
LCS/LCSD: 5082104/5082106 + 5082205/5082207 - %Rec + RPDs all OK ⇒ No Action

2 LDs: 1) EN047D081506 shown at the bottom of page 4 (smpl/LD) - LD precision OK for all 4 detected VOCs ⇒ No Action
2) Smpl/LD for EN047D081506 shown at the top of page 4A - LD precision was OK for all 3 detected VOCs ⇒ No Action

FD pair: EN043S081406 + DU34165081406 - shown at the top of page 4. Tetrachloroethene was detected in EN043S081406 at a 4.5 x RL while this cmpd was non-detect in the FD. Technical decision made to estimate (J + UJ) Tetrachloroethene in this FD pair due to differences in this result - uncertainty is indeterminate.

There were no "J" data reported by the lab + the narrative did not raise any issue.

All RLs were ≤ expected RLs from Table 2 of the Soil Vapor Monitoring Plan (i.e. DF ≤ 2) except as follows: EN041S080406 (DF = 2.44), EN041D081406 (DF = 2.44), EN041S081406 (DF = 2.52) + EN041D081406 (DF = 2.58) due to need to regress/purge canisters for a 2nd analysis; EN043S081406 (DF = 2.12) due to higher than expected lab receipt vacuum (11.0 "Hg); EN043D081406 (DF = 2.44) + EN045D081506 (DF = 4.21) due to dilutions made at instrument; and EN047D081506 (DF = 6.73) + EN047D081506 (DF = 16.7) due to need to regress/purge canisters for 2nd analysis + dilutions made at instrument level to ensure able results reported within calibration range.

Date 9/18/06

Data Reviewer

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14/06 - 8/15/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491A
No. Samples 18 + 1FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN043S081406 FD = DU34165081406

Analyte Name	CAS No.	DF= 1.83* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.3	2.3	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	2.4	2.4	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.6	3.6	U	RL	3.6	U	RL	NA	None
Freon 113	76-13-1	7	7	U	RL	7	U	RL	NA	None
Methylene Chloride	75-09-2	3.2	3.2	U	RL	3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.7	3.7	U	RL	3.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.6	3.6	U	RL	3.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5	5	U	RL	5	U	RL	NA	None
Trichloroethene	79-01-6	4.9	4.9	U	RL	4.9	U	RL	NA	None
Tetrachloroethene	127-18-4	6.2	28		>RL but < 5xRL	6.2	U	RL	NA	J / UJ
trans-1,2-Dichloroethene	156-60-5	3.6	3.6	U	RL	3.6	U	RL	NA	None

*This is the sample and FD DF and RLs

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN047D081506

Analyte Name	CAS No.	DF= 6.73* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	8.6	8.6	U	RL	16	U	RL	NA	None
Chloroethane	75-00-3	8.9	8.9	U	RL	16	U	RL	NA	None
1,1-Dichloroethene	75-35-4	13	25		>RL but < 5xRL	27		>RL but < 5xRL	7.7	None
Freon 113	76-13-1	26	26	U	RL	48	U	RL	NA	None
Methylene Chloride	75-09-2	12	12	U	RL	22	U	RL	NA	None
1,1-Dichloroethane	75-34-3	14	14	U	RL	25	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	13	39		>RL but < 5xRL	32		>RL but < 5xRL	19.7	None
1,1,1-Trichloroethane	71-55-6	18	290		> 5 x RL	290		> 5 x RL	0.0	None
Trichloroethene	79-01-6	18	4800		> 5 x RL	4800		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	23	23	U	RL	42	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	13	13	U	RL	25	U	RL	NA	None

* The FD DF was 12.5
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/18/06

Data Reviewer MJC. RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14/06 - 8/15/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491A
No. Samples 18 + 1FD + 1EB

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0417D081506

Analyte Name	CAS No.	DF= 16.7* RL ($\mu g/m^3$)	Sample $\mu g/m^3$	Q	Sample Result Level		LD $\mu g/m^3$	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	21	21	U	RL		40	U	RL	NA	None
Chloroethane	75-00-3	22	22	U	RL		41	U	RL	NA	None
1,1-Dichloroethene	75-35-4	33	33	U	RL		62	U	RL	NA	None
Freon 113	76-13-1	64	64	U	RL		120	U	RL	NA	None
Methylene Chloride	75-09-2	29	29	U	RL		54	U	RL	NA	None
1,1-Dichloroethane	75-34-3	34	34	U	RL		63	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	33	150		> 5 x RL		120		> 5 x RL	22.2	None
1,1,1-Trichloroethane	71-55-6	46	470		> 5 x RL		370		> 5 x RL	23.8	None
Trichloroethene	79-01-6	45	12000		> 5 x RL		11000		> 5 x RL	8.7	None
Tetrachloroethene	127-18-4	57	57	U	RL		100	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	33	33	U	RL		62	U	RL	NA	None

* The LD DF was 31.2
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/18/06

Data Reviewer MJC.RK

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/18/06

Data Reviewer MJC. RM

New Environmental Horizons, Inc.

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0608491B

Number of Samples: 19 soil vapor samples + 1 equipment blank for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: September 18, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Samples DU34634081506 and EN0635I24081506 were received at the laboratory with a higher vacuum than anticipated. Samples EN046D081506, EN0635S081506, EN0422S081606, and EN0424D081606 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. In addition, samples EN0413S081606 and EN0422D081606 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the receipt pressures, re-pressurizations, and dilutions made for analysis, several non-detected results in these eight samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

The Chain-of-Custody (COC) listed the canister number incorrectly for sample EN0425S081606 as #34174 while the actual number for this canister, as shown on the canister tag, was #34147.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order. The results reported by the laboratory were unchanged as a consequence of this data review and the results presented in the validated database are considered usable for project objectives.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/15-8/16/04
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491B
No. Samples 15 + 4FD + 1EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	✓
Except:								8 Samples
								DF>2

Comments: All Canister field + lab receipt vacuums were OK - The COC for sample EN042550816.06 listed the canister number incorrectly as # 34174 - The canister tag indicated that the number was 34147 - The canister tag ID was used to associate the sample / Canister. No action other than to note the COC error.

All Samples were analyzed within 7 days of collection ⇒ HT met - No Action

ICAL = Instrument 5 on 8/14 - 8/16 - All 11 Targets %RSD < 30% + lumps not required ⇒ Valid ICAL - No Action

CCALs: 5082203 + 5082302 - %Dev all OK

Date 9/18/06

Data Reviewer MJC. RH

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/15 - 8/16/06

Work Order #: 0608491B
No. Samples 15 + 4FD + 1EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MBs: 5082208 + 5082309
EBs: EBSC21081506 + EBSC96081606 (W.O.# 0608491C) > All 11 Targets WERE ND

Blank ID	Contaminant / Level (µg/m³)	Action Level DF=	Sample and reported result (µg/m³)	Corrected Database Result

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/15 - 8/16/06

Work Order #: 0608491B
No. Samples 15 + 4FD + 1EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tune: 4 (2 1CAL + 2 CCVs) - All Abundances OK ⇒ No Action

3 Surrogate %Rec + 3 IS Area/RTs were OK in all Smpls + QC ⇒ No Action Required.
LCS/LCSD: ~~5080~~ Nov 9/18/06 5082205/5082207 & 5082306/5082307 - %Rec + RPD all OK ⇒ No Action.

2 Smpl/LD pairs: 1) EN046S081506 shown at the bottom of page 4 - Smpl/LD both ND ⇒ Unable to assess precision
2) ~~DU343~~ Nov 9/18/06 DU346340815O6 - at the bottom of page 4A - Smpl/LD either < 5xRL or ND ⇒ unable to assess precision - No Action Required.

4 FD pairs: 1) EN046S081506 & DU346308150G - Both Smpls ND ⇒ Unable to assess precision (see top of page 4)
2) EN0635I24081506 & DU229608150G - FD precision OK for 1-2 detected VOCs ⇒ No Action. (see pg 4A)
3) EN0425S081606 & DU114430816O6 - FD precision OK for 1-2 detected VOCs - see top of page 4B
4) EN0424D081606 & DU346050816O6 - both Smpls ND or < 5xRL ⇒ Unable to assess FD precision - see bottom of page 4B - FD precision OK - No Action necessary.

There were no "J" results reported & no QC issues noted in narrative.

RLs were ≤ expected RL (DF ≤ 2) except: DU346340815O6 (DF = 2.01) & EN0635I24081506 (DF = 2.01) due to higher than expected receipt vacuums; EN0413S0816O6 (DF = 3.36) & EN0422D081606 (DF = 4.56) due to dilutions made at instrument lvl; and EN046D0815O6 (DF = 2.63), EN0635S081506 (DF = 2.5), EN0422D081606 (DF = 2.6) & EN0424D081606 (DF = 2.34) due to repressurization ~~of~~ canisters to perform a second analysis on the samples.
S Nov 9/18/06

The data was unchanged as a consequence of this review

Date 9/18/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/15/06 - 8/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491B
No. Samples 15 + 4FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN046S081506 FD = DU34634081506

Analyte Name	CAS No.	DF= 1.96* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.5	2.5	U	RL	2.6	U	RL	NA	None
Chloroethane	75-00-3	2.6	2.6	U	RL	2.6	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.9	3.9	U	RL	4	U	RL	NA	None
Freon 113	76-13-1	7.5	7.5	U	RL	7.7	U	RL	NA	None
Methylene Chloride	75-09-2	3.4	3.4	U	RL	3.5	U	RL	NA	None
1,1-Dichloroethane	75-34-3	4	4	U	RL	4.1	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.9	3.9	U	RL	4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5.3	5.3	U	RL	5.5	U	RL	NA	None
Trichloroethene	79-01-6	5.3	5.3	U	RL	5.4	U	RL	NA	None
Tetrachloroethene	127-18-4	6.6	6.6	U	RL	6.8	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.9	3.9	U	RL	4	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 2.01 and RLs are RLs shown x (2.01/1.96)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN046S081506

Analyte Name	CAS No.	DF= 1.96* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.5	2.5	U	RL	3.5	U	RL	NA	None
Chloroethane	75-00-3	2.6	2.6	U	RL	3.6	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.9	3.9	U	RL	5.4	U	RL	NA	None
Freon 113	76-13-1	7.5	7.5	U	RL	10	U	RL	NA	None
Methylene Chloride	75-09-2	3.4	3.4	U	RL	4.7	U	RL	NA	None
1,1-Dichloroethane	75-34-3	4	4	U	RL	5.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.9	3.9	U	RL	5.4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5.3	5.3	U	RL	7.4	U	RL	NA	None
Trichloroethene	79-01-6	5.3	5.3	U	RL	7.3	U	RL	NA	None
Tetrachloroethene	127-18-4	6.6	6.6	U	RL	9.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.9	3.9	U	RL	5.4	U	RL	NA	None

* The LD DF was 2.72
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/18/06

Data Reviewer MJC.RK

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/15/06 - 8/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491B
No. Samples 15 + 4FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0635I24081506 FD = DU22960081506

Analyte Name	CAS No.	DF= 2.01* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.6	2.6	U	RL	2.4	U	RL	NA	None
Chloroethane	75-00-3	2.6	2.6	U	RL	2.5	U	RL	NA	None
1,1-Dichloroethene	75-35-4	4	4	U	RL	3.7	U	RL	NA	None
Freon 113	76-13-1	7.7	7.7	U	RL	7.2	U	RL	NA	None
Methylene Chloride	75-09-2	3.5	3.5	U	RL	3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	4.1	4.1	U	RL	3.8	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	4	4	U	RL	3.7	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5.5	12		>RL but < 5xRL	12		>RL but < 5xRL	0.0	None
Trichloroethene	79-01-6	5.4	52		> 5 x RL	55		> 5 x RL	5.6	None
Tetrachloroethene	127-18-4	6.8	6.8	U	RL	6.3	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	4	4	U	RL	3.7	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.87 and RLs are RLs shown x (1.87/2.01)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: DU34634081506

Analyte Name	CAS No.	DF= 2.01* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.6	2.6	U	RL	3.4	U	RL	NA	None
Chloroethane	75-00-3	2.6	2.6	U	RL	3.5	U	RL	NA	None
1,1-Dichloroethene	75-35-4	4	4	U	RL	5.3	U	RL	NA	None
Freon 113	76-13-1	7.7	7.7	U	RL	10	U	RL	NA	None
Methylene Chloride	75-09-2	3.5	3.5	U	RL	4.9		>RL but < 5xRL	NA	None
1,1-Dichloroethane	75-34-3	4.1	4.1	U	RL	5.4	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	4	4	U	RL	5.3	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5.5	5.5	U	RL	7.3	U	RL	NA	None
Trichloroethene	79-01-6	5.4	5.4	U	RL	7.2	U	RL	NA	None
Tetrachloroethene	127-18-4	6.8	6.8	U	RL	9.1	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	4	4	U	RL	5.3	U	RL	NA	None

* The LD DF was 2.69
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/18/06

Data Reviewer J.C.R.

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/15/06 - 8/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491B
No. Samples 15 + 4FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0425S081606 FD = DU11443081606

Analyte Name	CAS No.	DF= 1.87* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.4	2.4	U	RL	2.4	U	RL	NA	None
Chloroethane	75-00-3	2.5	2.5	U	RL	2.5	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.7	3.7	U	RL	3.7	U	RL	NA	None
Freon 113	76-13-1	7.2	7.2	U	RL	7.2	U	RL	NA	None
Methylene Chloride	75-09-2	3.2	3.2	U	RL	3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.8	3.8	U	RL	3.8	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.7	3.7	U	RL	3.7	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5.1	5.1	U	RL	6.6		>RL but < 5xRL	NA	None
Trichloroethene	79-01-6	5	5	U	RL	5	U	RL	NA	None
Tetrachloroethene	127-18-4	6.3	11		>RL but < 5xRL	12		>RL but < 5xRL	8.7	None
trans-1,2-Dichloroethene	156-60-5	3.7	3.7	U	RL	3.7	U	RL	NA	None

*This is the sample and FD DF and RLs

Field Duplicate Evaluation_ Sample IDs: Sample = EN0424D081606 FD = DU34605081606

Analyte Name	CAS No.	DF= 2.34* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	3	3	U	RL	2.5	U	RL	NA	None
Chloroethane	75-00-3	3.1	3.1	U	RL	2.6	U	RL	NA	None
1,1-Dichloroethene	75-35-4	4.6	4.6	U	RL	3.8	U	RL	NA	None
Freon 113	76-13-1	9	9	U	RL	7.4	U	RL	NA	None
Methylene Chloride	75-09-2	4.1	4.1	U	RL	3.4	U	RL	NA	None
1,1-Dichloroethane	75-34-3	4.7	4.7	U	RL	3.9	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	4.6	4.6	U	RL	3.8	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	6.4	6.8		>RL but < 5xRL	5.3	U	RL	NA	None
Trichloroethene	79-01-6	6.3	6.3	U	RL	5.2	U	RL	NA	None
Tetrachloroethene	127-18-4	7.9	7.9	U	RL	6.6	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	4.6	4.6	U	RL	3.8	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.94 and RLs are RLs shown x (1.94/2.34)

Date 9/18/06

Data Reviewer [signature]

B

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/18/06

Data Reviewer MJC. RK

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0608491C

Number of Samples: 19 soil vapor samples + 1 equipment blank for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: September 18, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Samples EN0430S081406 and EN0430D081406 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. In addition, samples EN0430S081406, EN0414D081406, and DU1480081406 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the re-pressurizations and dilutions made for analysis, several non-detected results in these four samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order with the following exceptions:

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Sample Name	Lab ID	Analyte Name	Qualifier	Bias	Comments
EN0432S081406	0608491C-60A	Trichloroethene	J	I	Result uncertain above the calibration range

Qualifiers: R = result rejected and unusable for project objectives; J = result is an estimated value; U = result is non-detect at the level reported; UJ = non-detect is an estimated value; EB = result detected in an associated equipment blank; JEB = result detected in an associated equipment blank and is an estimated value.

Bias: L = Low; H = High; I = Indeterminate

The qualified (U and J) and unqualified results presented in the validated database are considered usable for project objectives.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14 - 8/17/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491C
No. Samples 18 + 1FD + 1EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	✓
Except:								
EN043250814O6								J TCE
								4 samples DF>2

Comments: All Canister and field + lab receipt vacuums were OK + there were no COC issues noted.

All Samples were analyzed within 10 days of collection ⇒ HT met - No Action

ICAL: Instrument 5 on 8/14 - 8/16/06 - All 11 Targets had %RSD < 30% + Levels analyzed were as required ⇒ Valid ICAL - No Action

CCAL: 5082302 + 5082405 - %Recs all OK ⇒ No Action

Date 9/18/06

Data Reviewer

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14-8/17/06

Work Order #: 0608491C
No. Samples 18 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5082309 + 5082406
EB: EBSC80D81406 (w.o.# 0608491A), EBSC96081606 + EB35621081706 (w.o.# 0608491E) > All 11 Targets were ND

Blank ID	Contaminant / Level (µg/m^3)		Action Level DF=		Sample and reported result (µg/m^3)	Corrected Database Result

No Blank Action Required

Nam 9/18/06

Date 9/18/06

Data Reviewer M.C.R.K.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14 - 8/17/06

Work Order #: 0608491C
No. Samples 18 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tune: 4 (2 ICAL + 2 CCAL): All Abundances OK ⇒ No Action Required.

All 3 Surrogate %Rec + 3 IS Area / RTs were within criteria in all Smpls + QC ⇒ No Action Required.
LCS/LCSD = 5082306 / 5082307 + 5082403 / 5082404 - %Rec + RPD all OK ⇒ No Action

Smpl / LD - EN0414D081406 shown at the bottom of page 4 - LD precision was acceptable for 2 detected VOCs ⇒ No Action required.

FD pair = EN0414D081406 + DU1480081406 shown at the top of page 4 - FD precision is OK for both FD Nom 9/18/06 detected VOCs - No Action Required.

There were no "J" data reported; however, Trichloroethene in EN0432S081406 was qualified "E" due to reporting of results at a level exceeding the instrument calibration range. The raw data was checked & Trichloroethene was detected at 203.6 ppbv on-column which the highest level standard analyzed was a 200 ppbv ⇒ result was just above range.

* Action: Trichloroethene in ~~EN0S0~~ Nom 9/18/06 EN0432S081406 was estimated (J) with indeterminate bias due to reporting of results above the calibration range.

RLs were ≤ expected RLs except: EN0430S081406 (DF: 3.32) due to re-pressurization & aliquot for 2nd analysis & dilution at instrument, EN0430D081406 (DF: 2.52) due to repressurization of canister; and EN0414D081406 (DF: 6.72) & DU1480D081406 (DF: 4.99) due to dilutions done at instrument level to ensure all results reported within calibration range.

Date 9/18/06

Data Reviewer M J C. R/R

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14/06 - 8/17/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491C
No. Samples 18 + 1FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0414D081406 FD = DU1480081406

Analyte Name	CAS No.	DF= 6.72* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	8.6	8.6	U	RL	6.4	U	RL	NA	None
Chloroethane	75-00-3	8.9	8.9	U	RL	6.6	U	RL	NA	None
1,1-Dichloroethene	75-35-4	13	13	U	RL	9.9	U	RL	NA	None
Freon 113	76-13-1	26	26	U	RL	19	U	RL	NA	None
Methylene Chloride	75-09-2	12	12	U	RL	8.7	U	RL	NA	None
1,1-Dichloroethane	75-34-3	14	14	U	RL	10	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	13	13	U	RL	9.9	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	18	170		> 5 x RL	170		> 5 x RL	0.0	None
Trichloroethene	79-01-6	18	4200		> 5 x RL	4300		> 5 x RL	2.4	None
Tetrachloroethene	127-18-4	23	23	U	RL	17	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	13	13	U	RL	9.9	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 4.99 and RLs are RLs shown x (4.99/6.72)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0414D081406

Analyte Name	CAS No.	DF= 6.72* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	8.6	8.6	U	RL	4.3	U	RL	NA	None
Chloroethane	75-00-3	8.9	8.9	U	RL	4.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	13	13	U	RL	6.7	U	RL	NA	None
Freon 113	76-13-1	26	26	U	RL	13	U	RL	NA	None
Methylene Chloride	75-09-2	12	12	U	RL	5.8	U	RL	NA	None
1,1-Dichloroethane	75-34-3	14	14	U	RL	6.8	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	13	13	U	RL	8.3		>RL but < 5xRL	NA	None
1,1,1-Trichloroethane	71-55-6	18	170		> 5 x RL	170		> 5 x RL	0.0	None
Trichloroethene	79-01-6	18	4200		> 5 x RL	4300	E	> 5 x RL	2.4	None
Tetrachloroethene	127-18-4	23	23	U	RL	11	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	13	13	U	RL	6.7	U	RL	NA	None

*The LD DF ws 3.36
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/18/06

Data Reviewer

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/18/06

Data Reviewer MJC. RK

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0608491D

Number of Samples: 20 soil vapor samples for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: September 18, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Sample EN0529S081506 was received at the laboratory with a higher vacuum than anticipated. Samples EN0432D081406 and EN0412S081506 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. In addition, samples EN0432D081406, EN048D081506, EN049S081506, EN049D081506, DU31755081506, EN0410S081506, EN0410D081506, EN0412D081506, EN0429D081506, and EN0419D081606 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the receipt pressures, re-pressurizations, and dilutions made for analysis, several non-detected results in these twelve samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order with the following exceptions:

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Sample Name	Lab ID	Analyte Name	Qualifier	Bias	Comments
EN0529S081506	0608491D-70A	Vinyl Chloride	UJ	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	Chloroethane	UJ	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	1,1-Dichloroethene	UJ	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	Freon 113	UJ	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	Methylene Chloride	UJ	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	1,1-Dichloroethane	UJ	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	cis-1,2-Dichloroethene	UJ	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	1,1,1-Trichloroethane	J	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	Trichloroethene	J	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	Tetrachloroethene	UJ	I	Field final and Lab receipt vacuum disagree
EN0529S081506	0608491D-70A	trans-1,2-Dichloroethene	UJ	I	Field final and Lab receipt vacuum disagree

Qualifiers: R = result rejected and unusable for project objectives; J = result is an estimated value; U = result is non-detect at the level reported; UJ = non-detect is an estimated value; EB = result detected in an associated equipment blank; JEB = result detected in an associated equipment blank and is an estimated value.

Bias: L = Low; H = High; I = Indeterminate

The qualified (U, UJ, and J) and unqualified results presented in the validated database are considered usable for project objectives.

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14 - 8/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491D
No. Samples 18 + 2FD

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	12 Samples DF>2
Except:								
EN05295081506	J/UJ All							

Comments: All Canister field + lab receipt vacuum were acceptable except EN05295081506 final field vacuum was 5.0" Hg which lab receipt vacuum was 12.5" Hg (> ± 5" Hg difference)
* All results for EN05295081506 estimated (J + UJ) - overall bias considered indeterminate since it is unlikely that canister increased vacuum from field to lab ⇒ uncertain whether field final vacuum may be in error or whether lab receipt vacuum in error -

All Samples were analyzed within 11 days of collection ⇒ HT met - No Action

Date 9/18/06

Data Reviewer

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14-8/16/06

Work Order #: 0608491D
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5082406 + 5082507
EBs: EBSC80081406 (W.O.# 0608491A), EBSC21081506 (W.O.# 0608491B) + EBSC96081606 (W.O.# 0608491C)

All 11 Targets were ND

Blank ID	Contaminant / Level ($\mu g/m^3$)	Action Level DF=	Sample and reported result ($\mu g/m^3$)	Corrected Database Result

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14-8/16/06

Work Order #: 0608491D
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

ICAL = Instrmt 5 on 8/14-8/16/06 - All 11 Targets had %RSD<30% + levels analyzed as required => Valid ICAL
CCVLS: 5082405 + 5082504 - %Rec ckd OK => No Actn
BFB Tm: 4 (2ICAL + 2CCAL) - All Abundances OK => No Actn.

3 Surrogate %Rec + 3 IS Areas/RTs OK => No Actn.
LCS/LCSD: 5082403/5082404 + 5082505/5082506 - %Rec + RPD all OK => No Actn.

3 LD pairs: 1) Smpl/LD EN0432D081406 shown at the bottom of pg 4 - LD precision OK for all detected VOCs => No action
2) EN0410S081506 Smpl/LD shown at the bottom of pg 4A - LD precision OK for all 7-8 detected VOCs => No action
3) EN0415S081506 Smpl/LD shown at the top of pg 4B - All VOCs ND => Unable to Assess Precision.

2 FD pairs 1) EN048D081506 + DU317550815O6 shown at the top of pg 4 - FD precision OK for all 7 detected VOCs => No Actn
2) EN0419S081606 + DU337320816O6 shown at the top of pg 4A - Both Smpl + FD ND for all => Unable to assess FD precision
Nore 9/18/06
LD/~~FD~~ FD precision acceptable => No Actn

RLs were ≤ expected RLs except: EN048D081506 (DF=13.4), EN049S081506 (DF=14.6), EN049D081506 (DF=25.5), DU317550815O6 (DF=14), EN0410S081506 (DF=91.5), EN0410D081506 (DF=89.5), EN0412D081506 (DF=3.42), EN048D081506 (DF=9.15) + EN0419D081606 (DF=2.53) due to dilutions made at instrmt; EN0432D081406 (DF=3.92) due to repressurization + dilution at Instrmt; EN0412S081506 (DF=2.87) due to repressurization + EN0529S081506 due to higher than expected receipt vacuum.

There were no "J" qualified data + narrative did not raise any issues.

Date 9/18/06

Data Reviewer M. C. Rh

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14/06 - 8/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491D
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN048D081506 FD = DU31755081506

Analyte Name	CAS No.	DF= 13.4* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	17	17	U	RL	18	U	RL	NA	None
Chloroethane	75-00-3	18	18	U	RL	18	U	RL	NA	None
1,1-Dichloroethene	75-35-4	26	160		> 5 x RL	160		> 5 x RL	0.0	None
Freon 113	76-13-1	51	130		>RL but < 5xRL	130		>RL but < 5xRL	0.0	None
Methylene Chloride	75-09-2	23	23	U	RL	24	U	RL	NA	None
1,1-Dichloroethane	75-34-3	27	400		> 5 x RL	440		> 5 x RL	9.5	None
cis-1,2-Dichloroethene	156-59-2	26	220		> 5 x RL	220		> 5 x RL	0.0	None
1,1,1-Trichloroethane	71-55-6	36	3100		> 5 x RL	3300		> 5 x RL	6.3	None
Trichloroethene	79-01-6	36	11000		> 5 x RL	13000		> 5 x RL	16.7	None
Tetrachloroethene	127-18-4	45	760		> 5 x RL	850		> 5 x RL	11.2	None
trans-1,2-Dichloroethene	156-60-5	26	26	U	RL	28	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 14 and RLs are RLs shown x (14/13.4)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0432D081406

Analyte Name	CAS No.	DF= 3.92* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	5	5	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	5.2	5.2	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	7.8	7.8	U	RL	3.6	U	RL	NA	None
Freon 113	76-13-1	15	15	U	RL	7	U	RL	NA	None
Methylene Chloride	75-09-2	6.8	6.8	U	RL	3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	7.9	7.9	U	RL	3.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	7.8	7.8	U	RL	3.9		>RL but < 5xRL	NA	None
1,1,1-Trichloroethane	71-55-6	11	60		> 5 x RL	66		> 5 x RL	9.5	None
Trichloroethene	79-01-6	10	2600		> 5 x RL	2600	E	> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	13	13	U	RL	6.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	7.8	7.8	U	RL	3.6	U	RL	NA	None

* The LD DF was 1.83

Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/18/06

Data Reviewer MJC.BK

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14/06 - 8/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491D
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0419S081606 FD = DU33732081606

Analyte Name	CAS No.	DF= 1.71* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.2	2.2	U	RL	2.2	U	RL	NA	None
Chloroethane	75-00-3	2.2	2.2	U	RL	2.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.4	3.4	U	RL	3.4	U	RL	NA	None
Freon 113	76-13-1	6.6	6.6	U	RL	6.6	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL	3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL	3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.4	3.4	U	RL	3.4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.7	4.7	U	RL	4.7	U	RL	NA	None
Trichloroethene	79-01-6	4.6	4.6	U	RL	4.6	U	RL	NA	None
Tetrachloroethene	127-18-4	5.8	5.8	U	RL	5.8	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.4	3.4	U	RL	3.4	U	RL	NA	None

*This is the sample and FD DF and RLs

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0410S081506

Analyte Name	CAS No.	DF= 91.5* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	120	120	U	RL	140	U	RL	NA	None
Chloroethane	75-00-3	120	120	U	RL	140	U	RL	NA	None
1,1-Dichloroethene	75-35-4	180	4700		> 5 x RL	5000		> 5 x RL	6.2	None
Freon 113	76-13-1	350	350	U	RL	420	U	RL	NA	None
Methylene Chloride	75-09-2	160	160	U	RL	190	U	RL	NA	None
1,1-Dichloroethane	75-34-3	180	6400		> 5 x RL	6500		> 5 x RL	1.6	None
cis-1,2-Dichloroethene	156-59-2	180	7900		> 5 x RL	8200		> 5 x RL	3.7	None
1,1,1-Trichloroethane	71-55-6	250	17000		> 5 x RL	17000		> 5 x RL	0.0	None
Trichloroethene	79-01-6	240	63000		> 5 x RL	61000		> 5 x RL	3.2	None
Tetrachloroethene	127-18-4	310	680		>RL but < 5xRL	770		>RL but < 5xRL	12.4	None
trans-1,2-Dichloroethene	156-60-5	180	200		>RL but < 5xRL	220	U	RL	NA	None

* The LD DF was 109
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/18/06

Data Reviewer

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/14/06 - 8/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491D
No. Samples 18 + 2FD

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0415S081506

Analyte Name	CAS No.	DF= 1.79* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.3	2.3	U	RL		3.1	U	RL	NA	None
Chloroethane	75-00-3	2.4	2.4	U	RL		3.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL		4.8	U	RL	NA	None
Freon 113	76-13-1	6.8	6.8	U	RL		9.2	U	RL	NA	None
Methylene Chloride	75-09-2	3.1	3.1	U	RL		4.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.6	3.6	U	RL		4.8	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL		4.8	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.9	4.9	U	RL		6.5	U	RL	NA	None
Trichloroethene	79-01-6	4.8	4.8	U	RL		6.4	U	RL	NA	None
Tetrachloroethene	127-18-4	6.1	6.1	U	RL		8.1	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL		4.8	U	RL	NA	None

* The LD DF was 2.4
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/18/06

Data Reviewer

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/18/06

Data Reviewer MJC. RK

DATA USABILITY ASSESSMENT

Client: Sanborn, Head & Associates, Inc., Concord, New Hampshire

Site: Endicott, New York

Laboratory: Air Toxics Limited (ATL), Folsom, California

Work Order Number: 0608491E

Number of Samples: 13 soil vapor samples + 1 equipment blank for eleven project-specific Volatile Organic Compounds (VOCs) by method TO-15 Full Scan

Data Reviewer: Dr. Nancy C. Rothman, New Environmental Horizons, Inc.

Date: September 19, 2006

A Data Usability Checklist Review was performed on the Work Order identified with the following intentions: 1) to determine if the data were generated and reported in accordance with the *Soil Vapor Monitoring Project Work Plan, Endicott, New York*, prepared by Sanborn, Head & Associates, Inc.; US EPA Region II SOP HW-18, *Validating Canisters of Volatile Organics in Ambient Air*, Rev 0, August 1994; and Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999, EPA/625/R-96/010b, and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*; Publication EPA A540/R-99/008, October 1999; 2) to determine if the data met the project data quality objectives for acceptable accuracy, precision, sensitivity; and technical usability; and 3) to update the project database with appropriate data quality qualifiers.

The Air Data Review Checklist, attached, was completed during this assessment to document the review. Sample EN0418D081606 was initially pressurized and analyzed but required re-pressurization for a secondary analysis. Samples EN0416D081606, EN0533I21081606, EN0533I29081606, EN0533D081706, EN0426S081706, and EN0426D081706 were analyzed at dilutions to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the re-pressurizations and dilutions made for analysis, several non-detected results in these seven samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

The Chain-of-Custody (COC) listed the canister number incorrectly for sample EN0416D081606 as #94926 while the actual number for this canister, as shown on the canister tag, was #94924.

All other quality control information associated with accuracy, precision, and sensitivity for the project-specific list of VOCs reported met project criteria for the samples in this Work Order. The results reported by the laboratory were unchanged as a consequence of this data review and the results presented in the validated database are considered usable for project objectives.

34 Pheasant Run Drive, Skillman, NJ 08558 ◊ 2 Farmer's Circle, Arlington, MA 02474
Phone: (908) 874-5686 ◊ (781) 643-4294 Fax: (908) 874-4786
Email: n.rothman@patmedia.net ◊ s.chapnick@comcast.net

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/16 - 8/17/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491E
No. Samples 12 + 1 FD + 1 EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	7 sagls
Except:								DF72

Comments: All Canister field + lab receipt vacuums were OK - COC for EN0416D081606 incorrectly listed this sagls Canister # as 94926 while the actual number on the canister tag was #94924 - This last number was used to identify this sagls. No Action exept to note.
All Samples were analyzed within 10 days of collection ⇒ No Action Required.

ICALs: Instrument 5 on 8/14 - 8/15 and Instrument 6 8/11 - 8/24/06 - %RSD < 30% for 11 Targets + 1 cmpds analyzed were as required ⇒ Valid ICALs - No Action

Date 9/19/06

Data Reviewer M C. RR

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/16 - 8/17/06

Work Order #: 0608491E
No. Samples 12 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: mB: 5082507 & 5082605
EB: EB5C9608160L (w.o.# 0608491C) + EB356210817D6 } All 11 Targets are ND

Blank ID	Contaminant / Level ($\mu g/m^3$)	Action Level DF=	Sample and reported result ($\mu g/m^3$)	Corrected Database Result

Soil Vapor Monitoring Project, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/16 - 8/17/04

Work Order #: 0608491E
No. Samples 12 + 1FD + 1LCB

Method of Analysis: TO-15 Full Scan

Additional Notes:

CCAL's: 5082504 + 5082602 - %Rec all OK
BFB Tune: 7 (5 ICAL + 2 CCAL): All Abundance OK ⇒ No Action

All 3 Surrogate %Rec + 3 IS Area / RTs were OK ⇒ No Action
LCS/LCSD: 5082505 / 5082506 & 5082603 / 5082604 - %Rec + RPD all OK ⇒ No Action.

LD done on DU11834081606 shown at the bottom of page 4 - LD precision OK for detected VOCs ⇒ No Action

FD pair, shown at top of page 4, was EN0421D081606 + DU11834081606 - FD precision was acceptable for 2 detected VOCs ⇒ No Action required.

There were no "J" data reported & there were no issues, other than COC, raised in narrative.

The RLs for Samples were ≤ reported RLs (i.e. DF ≤ 2) except: EN0418D081606 (DF = 2.19) due to repressurization of tank to perform a second analysis of sample; and EN0416D081606 (DF = 10.7), EN0533I210816D6 (DF = 8.55), EN0533I29081606 (DF = 20.4), EN0533D081706 (DF = 15.2), EN0426SD81706 (DF = 4.48), and EN0426D081706 (DF = 6.72)

The database was unchanged as a consequence of this review.

Date 9/19/06

Data Reviewer M J C. RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 8/16/06 - 8/17/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0608491E
No. Samples 12 + 1FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0421D081606 FD = DU11834081606

Analyte Name	CAS No.	DF= 1.79* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.3	2.3	U	RL	2.3	U	RL	NA	None
Chloroethane	75-00-3	2.4	2.4	U	RL	2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL	3.6	U	RL	NA	None
Freon 113	76-13-1	6.8	6.8	U	RL	7	U	RL	NA	None
Methylene Chloride	75-09-2	3.1	3.1	U	RL	3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.6	3.6	U	RL	3.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	3.5	U	RL	3.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.9	8.1		>RL but < 5xRL	8.7		>RL but < 5xRL	7.1	None
Trichloroethene	79-01-6	4.8	350		> 5 x RL	320		> 5 x RL	9.0	None
Tetrachloroethene	127-18-4	6.1	6.1	U	RL	6.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL	3.6	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.83 and RLs are RLs shown x (1.83/1.79)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: DU11834081606

Analyte Name	CAS No.	DF= 1.83* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2.3	2.3	U	RL	3.1	U	RL	NA	None
Chloroethane	75-00-3	2.4	2.4	U	RL	3.2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.6	3.6	U	RL	4.8	U	RL	NA	None
Freon 113	76-13-1	7	7	U	RL	9.4	U	RL	NA	None
Methylene Chloride	75-09-2	3.2	3.2	U	RL	4.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.7	3.7	U	RL	5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.6	3.6	U	RL	4.8	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5	8.7		>RL but < 5xRL	6.7	U	RL	NA	None
Trichloroethene	79-01-6	4.9	320		> 5 x RL	330		> 5 x RL	3.1	None
Tetrachloroethene	127-18-4	6.2	6.2	U	RL	8.3	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.6	3.6	U	RL	4.8	U	RL	NA	None

* The LD DF was 2.45
Q = Data Qualifier as reported by ATL and/or NEH; U = non-detect, J = estimated result.
NA = Not Applicable. RPD not calculated since one or both results were non-detect or both were reported at levels below the RL.

Date 9/19/06

Data Reviewer MJC.RR

Compound List and DQOs

Analyte Name	CAS No.	Low Point of ICAL (ppbv)	Criteria LCL-UCL	LCS and CCV ICAL %RSD Criteria
Vinyl Chloride	75-01-4	0.5	70-130	≤ 30%
Chloroethane	75-00-3	0.5	70-130	≤ 30%
1,1-Dichloroethene	75-35-4	0.5	70-130	≤ 30%
Freon 113	76-13-1	0.5	70-130	≤ 30%
Methylene Chloride	75-09-2	0.5	70-130	≤ 30%
1,1-Dichloroethane	75-34-3	0.5	70-130	≤ 30%
cis-1,2-Dichloroethene	156-59-2	0.5	70-130	≤ 30%
1,1,1-Trichloroethane	71-55-6	0.5	70-130	≤ 30%
Trichloroethene	79-01-6	0.5	70-130	≤ 30%
Tetrachloroethene	127-18-4	0.5	70-130	≤ 30%
trans-1,2-Dichloroethene	156-60-5	0.5	60-140	≤ 40%

Actions:

Canister Pressure (P): Initial Field P < 25" Hg, J/UJ all results; Lab Receipt P > 15" Hg, J/UJ results; Lab Receipt P > ± 5" Hg of Final Field P, J/UJ results

Hold Time (HT): 14 days ≤ HT ≤ 28 days, J/UJ results; HT > 28 days, J detects/ R non-detects (or professional judgment)

Blank Actions: Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)
Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported
Equipment Blank (EB): Result<Blank Action, EB result at level reported

BFB Tune: SW-846 method 8260B tune criteria not met, professional judgment on R of all data; samples analyzed > 24-hours after tune; professional judgment on J/UJ or R of results

LCS and CCV: Laboratory Control Sample (LCS) and Continuing Calibration Verfication (CCV) evaluated: Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <LCL; J/UJ all associated data; %Rec >UCL, J detects - no action for non-detects

Initial Calibration (ICAL): %RSD > criteria, J/UJ associated results

Internal Standard (IS): RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results;
Area < 20% Area in CCV, J detects, R non-detects (or professional judgment); 20%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects

Surrogates: %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects

Laboratory Duplicates: LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

Field Duplicates: RPD > 30% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL

RLs + Quant: Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data

Date 9/19/06

Data Reviewer MJC. BH