8976 Wellington Road
Manassas, VA 20109

March 30, 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 Semi-Annual – 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 Semi-Annual Report summarizing soil vapor monitoring conducted through February 2006. The monitoring is being conducted as a component of the Comprehensive Operations, Maintenance, and Monitoring Plan in accordance with the requirements set forth in the Order on Consent, Index # A7-0502-0104.

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

SHA
Sanborn, Head & Associates
Consulting Engineers & Scientists

March 30, 2006

File No. 2200.00

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

Re: Semi-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 through February 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).

The report also summarizes subsurface investigation, soil vapor survey work, and the siting of three new permanent implants in the Interchange Area and along Arthur Avenue south of the former Ideal Cleaners Facility. This non-routine additional work was completed as agreed between IBM and the Agencies as a follow up to soil vapor monitoring through October 2005, and was initiated through Agency approval of the Quarterly Report of December 2005. Thank you for the opportunity to be of service on this project.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.

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

Jonathan Ordway, P.E.
Associate Principal
Project Reviewer

Erica M. Bradstreet
Project Geologist

Daniel B. Carr
Digitally signed by Daniel B. Carr
DN: CN = Daniel B. Carr, C = US, O = SHA
Date: 2006.03.30 18:19:09 -05'00'

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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

SEMI-ANNUAL REPORT
SOIL VAPOR MONITORING THROUGH FEBRUARY 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
March 2006

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1.0 INTRODUCTION

This report summarizes the findings of routine soil vapor monitoring completed through February 2006 and the findings of additional explorations that were recently undertaken to better understand apparent patterns of soil vapor presence and subsurface migration mechanisms in certain areas bordering the limits of ventilation. The monitoring is being conducted under the Comprehensive Operations, Maintenance and Monitoring Plan (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. This report is intended for 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 pursuant to 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 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. 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 October 2005. While this report includes tabular and graphical summaries of data collected since the beginning of the soil vapor monitoring program, field sampling summary data and laboratory data reports are only provided for activities completed during the current reporting period (December 2005 and February 2006).

In January 2006, at the request of NYSDEC, IBM agreed to conduct additional explorations and testing to aid in confirming soil vapor and subsurface conditions and to site new permanent implant installations in two specific areas. These areas were targeted because data from past soil vapor survey, vapor intrusion sampling, and soil vapor monitoring have indicated a spatially variable, but temporally consistent VOC presence at foundation depth that in some cases was lower than what would be expected based on groundwater quality conditions. These areas include:

- The "Interchange Area" (intersections of Riverview Drive, Tracy Street and Grant and Garfield Avenue west of McKinley Avenue); and

- The "Arthur Avenue Area" (block along Arthur Avenue south of Ideal Cleaners).

The Interchange Area was targeted for soil vapor survey and implant installations to aid in investigating temporally consistent spatial variations in soil vapor concentrations as recorded in prior vapor intrusion sampling over a three-year period. Two implant locations were sited in along Tracy Street to provide for monitoring between ventilated and non-ventilated properties.

The Arthur Avenue Area was of interest given the apparent modest soil vapor concentrations at foundation depth despite considerable concentrations in groundwater downgradient of the former Ideal Cleaners. One implant was along the east side of Arthur Avenue at a location proximate to the apparent centerline of the chlorinated ethene presence in groundwater downgradient of the former Ideal Cleaners property as defined by recent remedial investigations conducted on IBM's behalf by Groundwater Sciences Corporation (GSC)[1].

[1] Groundwater Sciences Corporation, January 16, 2006, Source Area Evaluation and Supplemental Remedial Investigation, OU#4., *Plate 3, Isoconcentration Contours and Limits of Apparent Petroleum Presence Upper Aquifer, August 2005.*

1.2 Work Completed During the Monitoring Period

The following is a summary of the work completed during this monitoring period.

- Soil vapor samples were collected in December 2005 and were analyzed for VOCs in general accordance with the Monitoring Plan. Details of the routine soil vapor sampling are provided in Appendix B. Sampling locations are shown on Figure 1 along with historic TCE concentration data.

- In late January 2006, soil vapor surveys were completed in the Interchange and Arthur Avenue Areas to help select permanent soil vapor implant locations. The soil vapor surveys involved installation and sampling of temporary soil vapor implants using direct-push drilling methods, and analysis of samples through both an on-site mobile laboratory and the off-site laboratory used for routine monitoring. A more detailed description of the soil vapor survey is provided in Appendix C along with location plan figures, boring logs, and laboratory data. The temporary implants for the Interchange Area were designated "06-01" through "06-22" (see Figure C.1) and for the Arthur Avenue Area were designated "06-23" through "06-27" (see Figure C.2).

- In late January and early February 2006, borings were drilled using Rotosonic methods for the installation of permanent soil vapor monitoring implants in the Interchange Area (EN06-35 and EN06-36). Direct push drilling methods were employed in the Arthur Avenue Area where overhead clearance of electric lines was not sufficient to allow the larger drill rig to install permanent Implant EN06-37. Samples of the Rotosonic and direct push cores were collected and submitted for soil gradation and moisture content analyses. Details of the Drilling and vapor implant installations, and the results of laboratory analyses are provided in Appendix C.

- In February 2006 a second routine soil vapor monitoring round was conducted with the collection and analysis of soil vapor samples from existing and newly installed implant completions. Groundwater samples were also collected from the nearby monitoring wells.

The tabular summaries of the soil vapor and groundwater monitoring data were updated and are presented in Appendix B as Tables B.1.1 and B.1.2. The plots of groundwater and soil vapor concentrations were updated and are presented in Appendix B as Figures B.1 through B.37.

2.0 DATA AND FINDINGS

The data obtained from the routine soil vapor monitoring are discussed below following a summary of observations and data pertinent to the new implant completions. Overall, the data recorded for existing and new implants continue to support that the geographic limits of ventilation as appropriate to mitigate vapor intrusion potential in accordance with Agency Guidelines.

2.1 Soil Vapor Survey and New Implant Completions

The soil vapor survey data from both the Interchange and Arthur Avenue Areas support the soil vapor conditions observed in prior vapor intrusion sampling. Sampling in the Interchange Area supports the overall pattern of soil vapor presence observed in past sampling. The soil vapor survey work along Arthur Avenue did not indicate a substantial presence of VOCs at foundation

depth, consistent with the findings of prior substructure soil vapor sampling. In both areas, the observed VOC vapor concentrations at foundation depth may be somewhat lower than that observed in prior sampling, reflecting the seasonally declining soil vapor concentrations observed at other monitoring locations. As outlined below, relatively wet soil conditions were observed that are believed to reflect above-normal precipitation under above-normal temperatures.

2.1.1 Subsurface Conditions

Native well-sorted fine to medium sand with approximately 10% to 30% or greater fines content was found at the majority of borings that extended to foundation depth in the Interchange Area. In contrast, Borings 06-15, 06-16 and 06-18 through 06-22 from the intersection of Tracy Street and Grant Avenue north encountered loose to medium dense, poorly sorted sand and gravel soils with varying amounts of fines extending from the surface to foundation depth. Sand and gravel soils were also encountered in Borings 06-5 and 06-6, located at the eastern end of Riverview Drive. The observed presence of organic soils below the surficial sand and gravel indicate that these granular soils are probably fill. Figure 2A, provides a graphical summary of soil conditions with depth for Implant EN06-36, which is generally representative of the Interchange Area and shows the sequence of well-sorted sands and poorly sorted sand and gravel encountered below foundation depth.

As indicated on Figure 2B, the soil profile encountered in the Arthur Avenue Area at Boring EN06-37 included well-sorted sand with 10% to 30% fines down to a depth of about 23 feet where poorly sorted sand and gravel was encountered. Silt-rich wet soil exhibiting 30% to 70% fines was found from about 6.4 to 10.2 feet bgs. Petroleum stained sand and gravel was encountered at about 22.9 to 23.5 feet bgs.

2.1.2 Findings of Initial Soil Vapor Sampling

The laboratory results for the first two samplings of the vicinity of Implant EN06-035 indicated up to 100 $\mu g/m^3$ TCE near water table depth which is about two to three orders of magnitude below what would be expected based on equilibrium partitioning from groundwater (9,000 to 18,000 $\mu g/m^3$). TCE was detected at up to 45 $\mu g/m^3$ in the sample collected from the implant at 24 feet bgs but was not detected in the samples from implants located at 16 and 8 feet bgs. These initial findings will continue to be assessed via on-going monitoring of Implant EN06-35. The laboratory results for samples collected from Implants EN06-36 and EN06-37 are summarized on Figure 2 and are discussed below in the context of soil texture and moisture profiles.

2.2 Assessment of Soil and Soil Vapor Profiles

The observations and inference derived from installation and sampling of new Implants at EN06-36 and EN06-37 are shown graphically as profiles on Figure 2. The profiles were prepared to support an assessment of subsurface conditions that are believed to be generally representative of

the Interchange and Arthur Avenue Areas. In particular, the profiles were prepared to assess variability in diffusive transport vertically across the vadose zone due to variations in soil texture and moisture. We believe that soil texture and moisture content in these areas explain the relatively modest VOC presence in soil vapor recorded in prior sampling.

Soil texture and moisture profiles for certain soil vapor monitoring locations were presented in the June 2005 Quarterly Report[2]. Variability in diffusive transport and the concept of an "effective diffusion coefficient" (D_{eff}), accounting for variable soil texture and moisture was presented in the September 2005, Annual Report[3]. The profiles shown on Figure 2 are presented as a further refined quantitative assessment of subsurface conditions related to vapor migration by diffusion.

The profiles depict implant completion depths along with vertical variability in certain soil texture characteristics and gravimetric water contents (W_g%) derived from soils laboratory testing. Soil texture characteristics depicted on the profiles include the percent by weight passing the No. 200 sieve (<200) or fines content, and the effective particle size or D_{10}[4]. Values of D_{10} in millimeters (mm) have been empirically correlated to soil hydraulic conductivity and can be considered an indicator of relative hydraulic properties. Line plots depicting estimated water saturation, expressed as a percentage of the soil pore space (S_w) and D_{eff} were prepared using the soils laboratory data and estimates of soil dry bulk density. These parameters are included in the profiles to illustrate the possible implications of soil moisture on vapor migration potential. The profiles also include line plots of actual and theoretical (EN06-36) VOC vapor concentrations with depth.

At each of the three vapor implant locations, soils were encountered that exhibit D_{10} below 0.01 mm—in the range of clay-sized particles indicating potential hydraulic conductivities below $1x10^{-5}$ centimeters per second (cm/sec) and perhaps as low as $5x10^{-7}$ cm/sec or lower. Soil moisture saturation increases proportionally with the rate of infiltration through the soil column. Soils will approach water saturation as the rate of infiltration approaches and exceeds their in-place vertical hydraulic conductivity. Accordingly, soils exhibiting clay-sized D_{10} are expected to impede infiltration and exist under near water-saturated conditions under typical infiltration conditions[5]. As these high moisture content soils are located below the root zone depths the moisture content is not expected to change seasonally due to uptake by plants.

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[2] Sanborn, Head & Associates, Inc. June 1, 2005, Quarterly Report, Soil Vapor Monitoring Through April 2005.

[3] Sanborn, Head & Associates, Inc., September 16, 2005, Annual Report – Soil Vapor Monitoring, *pgs 10 and 11*.

[4] *The effective particle size is defined as the particle diameter in the particle size distribution curve that corresponds to 10 percent finer by weight (D_{10}).*

[5] *Given an estimated average annual infiltration of about 15 to 21 inches per year (GSC, Supplemental Groundwater Assessment, December 2003) occurring primarily over six months of the year or a rate equivalent to about $2x10^{-6}$ to $3.4x10^{-6}$ cm/second.*

In the September 2005 Annual Report, we presented calculations demonstrating that D_{eff} can range over three orders of magnitude in the soils found in the study area. D_{eff} declines steeply at water saturations greater than about 60%. The vertical flux of VOC mass by diffusion across the soil profile is computed using the harmonic mean D_{eff}. As demonstrated in the Annual Report, relatively thin high moisture content zones can dramatically lower the harmonic mean D_{eff} and hence control the diffusive flux and limit concentrations at foundation depth. While the majority of point D_{eff} estimates range from about $1x10^{-2}$ to $1x10^{-3}$ centimeters squared per second (cm^2/sec), the harmonic mean values computed for the soil profiles at each of the new implant locations are about one order of magnitude lower, on the order of $2x10^{-4}$ cm^2/sec, limited by fines-rich high moisture content layers. These fines-rich high moisture layers comprise as little as 5% of the soil profile at Implant EN06-37, just over 25% of the profile at Implant EN06-36, and over 60% of the profile at Implant EN06-35.

2.2.1 Interchange Area Implant EN06-36

VOC concentrations at Implant EN06-36 are summarized on Figure 2A. The VOC concentration recorded for water table depth is lower than what would be expected based on concentration of VOCs in groundwater. The limited VOC concentrations found at foundation depth in sampling of Implants EN06-35 and EN06-36 and adjacent sampling locations can be explained by soil texture and moisture conditions. Observations derived from review of the profile for Implant EN06-36 provided as Figure 2A that support this conclusion include:

- Soils laboratory analysis that confirm the presence of fine-grained soils (>20% fines) in the upper five feet, a thin interval at about 7.7 feet bgs, 24 to 26 feet, and as the water table is approached at 32 to 34 feet bgs.

- W_g ranging from about 4% to 21% are estimated to reflect S_w ranging from about 28% to 100%; with values over 60% appearing coincident with, or perched above the depth where fine-grained soils were found. Soils at lower moisture contents appear to generally underlie the fine-grained zones. The W_g values recorded soil samples--particularly samples with significant gravel content--are likely biased low in that moisture was driven off due to heating of the soil collected through Rotosonic® techniques. Several soil core samples were initially too warm to touch.

- S_w estimates of greater than 60% are reflected in D_{eff} estimates that are one to two orders of magnitude lower than D_{eff} for the dryer soils. The D_{eff} profiles support that wet soils found at depths of 7.5 to 7.8 feet, 18 to 23 feet, and greater than 32 feet bgs control vertical transport of VOC vapors from the water table to foundation depth. The apparent influence of even thin zones of silt-rich soils is demonstrated by harmonic mean D_{eff} one to two orders of magnitude below the majority of the point estimates.

- Soil vapor concentration profiles for TCE and TCA derived from sampling of temporary probes and the first sampling of EN06-36 indicate substantial attenuation of soil vapor concentrations from near water table depth at 33 feet to the intermediate implant at 12 feet below ground. The concentrations at water table depth (200 to 300 $\mu g/m^3$ TCE) are considerably lower than what would be expected based on equilibrium partitioning (up to about 18,000 $\mu g/m^3$) likely attributable to the presence of dense silty soils found at 32 to 34 feet bgs.

- The analytically estimated TCE vapor concentration profile (shown in yellow) on Figure 2A is generally consistent with the overall concentration gradient recorded in implant sampling, which indicates variations in concentration gradient with higher and lower D_{eff}.

Soil conditions even less conducive to vapor migration were encountered at Implant EN06-35 where most of the upper 22 feet of the soil is estimated to be above 80% saturation. The higher water content may in part reflect greater infiltration through low-density surficial sand and gravel fill soils found in this area, and from drainage ditches bordering McKinley Avenue. The soil conditions and soil vapor data recorded in the installation and sampling of implants EN06-35 and EN06-36 support the findings of nearly three years of vapor intrusion sampling that have indicated relatively low concentrations at foundation depth along Tracy Street and north along Grant Avenue. Given the depth and texture of the soils encountered, these conditions are expected to be persistent seasonally even under dryer weather conditions.

The higher soil vapor concentrations recorded historically in a band near the corner of Tracy Street and Riverview Avenue may reflect the surficial presence of natural sand soils that may be less conducive to infiltration than the loose sand and gravel found outside this area. The absence of dense fine sand and silt soil near the water table at monitoring well EN-460 may also allow for increased vapor concentrations. Lower VOC concentrations on the north side of Tracy Street may also reflect the northern limit of VOCs in groundwater.

2.2.2 Implant EN06-37 Along Arthur Avenue

VOC concentrations at Implant EN06-37 are summarized on Figure 2B. As with the other two new implant locations, the VOC vapor concentrations at water table depth are orders of magnitude lower than what might be expected based on groundwater quality data from nearby wells. The limited presence of VOCs in soil vapor at foundation depth is consistent with the findings of historical sampling of soil vapor at the nearest historical subslab sampling locations and temporary implants as recorded by SHA and GSC.

As with the Interchange Area, we believe that the limited presence of VOCs at foundation depth as found along Arthur Avenue can be explained by soil texture and moisture conditions identified in the area. The presence of petroleum in the subsurface is expected to further limit vapor transport from water table to foundation depth. The soil conditions observed at Implant EN06-37 are consistent with the findings of groundwater investigations by GSC, which indicate the presence of fine-grained soils in the upper portion of the vadose zone south of Ideal Cleaners. Geologic cross sections by GSC indicate the presence of “Sand & Silt”, “Silty Sand, or “Silty Sand & Gravel” soil fill ranging in thickness from less than a foot to ten feet[6]. Soil vapor sampling conducted by SHA and others over a three-year period in this area has indicated only modest VOC concentrations at foundation depth. This sampling has included:

- Soil vapor survey work conducted in December 2002 at the onset of the groundwater vapor project;
- Subslab soil vapor beneath residences located nearest Implant EN06-37 to the east, and at residential properties further east fronting on Jackson Avenue which was conducted in the 2003 heating season;

[6] Groundwater Sciences Corporation, January 16, 2006, Source Area Evaluation and Supplemental Remedial Investigation, OU#4., *Plate 2, Geologic Cross-Sections.*

- Sampling and analysis of soil vapor from rows temporary implants just north of this area which was conducted by Groundwater Sciences Corporation as a part of Ideal Cleaners Investigations in summer to fall 2005; and

- Collection and analysis of soil vapor from five temporary implants installed in January 2006.

The soil and soil vapor profile recorded at EN06-37 as depicted on Figure 2B support substantial attenuation of soil vapor concentrations below foundation depth, attributable to soil conditions observed along Arthur and Jackson Avenues south of Ideal Cleaners. Silt-rich soils found near the water table at 23 to 24 feet bgs, and at about 10 and 7 ft bgs exhibit a high degree of water saturation and appear to correlate with attenuation of vapor concentrations consistent with what would be expected based on the relationship between soil moisture and D_{eff}.

Laboratory analysis of a sample of soil retained in drillers jars indicated the presence of a weathered mixture of hydrocarbons at approximately 3,800 milligrams per kilogram on a dry weight basis, consistent with the presence of separate phase oil filling a portion of the soil pore space[7]. As chlorinated VOCs preferentially partition into oil, the presence of separate phase petroleum will limit partitioning of VOCs into vapor phase. The presence of oil would also be expected to reduce the effectiveness of diffusion and facilitate biochemical dehalogenation.

2.3 Groundwater and Soil Vapor Concentrations

Contemporaneous monitoring of groundwater and soil vapor in December and February 2005 has indicated concentrations generally within the range observed in past monitoring. The log-concentration bar chart plots on Figure 1 illustrate both the spatial and temporal variability of TCE in vapor from all implant depths.

At foundation depth, soil vapor concentrations have declined since late summer 2005 coincident with above-normal rainfall and the end of the growing season. In many instances, the pattern of decreasing concentrations in August through February roughly mirrors trends observed during wet weather in the fall of 2004. The monitoring data for December 2005 and February 2006 indicate new low concentrations at foundation depth at 11 of 34 monitoring locations, the majority of which are located central to the largest ventilation area. Generally, above-average precipitation and above average temperatures with little frost penetration have been recorded through February 2006 which are likely reflected in higher rates of infiltration and increased soil moisture**.**

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. Conversely, below-average precipitation was recorded prior to and during the first two heating

[7] *SHA estimates that this hydrocarbon concentration may reflect a volume of petroleum occupying on the order 3 to 4% of the soil pore space. It should be noted that the coarse-grained soil was gravity drained of water and petroleum during sample collection, and as such, we cannot rule out the presence of free separate phase product at this location. The presence of a measurable thickness of floating oil has been recorded in past sampling of monitoring wells EN-130 and EN-394 located across Arthur Avenue from EN06-37. Entry of separate phase product into wells is typically associated with oil saturations on the order of 20 to 30% of soil pore space at the water table.*

seasons when the majority of vapor intrusion sampling was conducted. Average or below average precipitation was recorded in eight of ten months prior to and through the initial heating season of vapor intrusion sampling (January through April 2003). Similarly, near average or below average precipitation was recorded from November 2003 through April 2004, spanning the second heating season of vapor intrusion sampling.

A detailed comparison of subslab monitoring data with data from the first three months of implant monitoring indicated that the data recorded in vapor intrusion sampling under dryer than normal heating season conditions was generally consistent with soil vapor monitoring data recorded in August and September 2004 when the implants indicate peak annual soil vapor concentrations. The data support that the vapor intrusion sampling that defined the limits of ventilation was conducted under conservative conditions particularly conducive to vapor intrusion.

2.4 Quality Assurance/Quality Control

Quality assurance/quality control measures taken during this monitoring period included:

- Field screening of Tedlar bag samples for carbon dioxide (CO_2), oxygen (O_2), and methane (CH_4);
- Collection and analysis of field duplicates for approximately 10% of the samples;
- Analysis of equipment blanks, which were collected and submitted each day of sampling; and
- Analysis of laboratory control samples.

The field screening results for CO_2, O_2, and CH_4 are included in Table B.1. The field screening results were generally consistent from month to month and were similar to the results from prior monitoring. All data collected during the period were considered to be usable subject to few qualifying flags. Specifically, about 0.4 percent of the data were subject to data qualifier “flags” indicating the results or reporting limits were “estimated” values. The NEH data flags are included in Table B.1. The NEH Data Usability Assessment reports are included in Appendix D.

3.0 CONCLUSIONS AND RECOMMENDATIONS

This semi-annual report documents the collection, analysis and results of routine soil vapor sampling completed through February 2005 in accordance with the approved Monitoring Plan. In addition to routine monitoring, three new soil vapor implant locations were established and sampled. Based on the data and inference included in this report, we highlight four key conclusions:

1. The data recorded over a three-year period after substantially defining the present limits of ventilation continue to support the limits of ventilation as appropriate.

The observed temporal patterns in soil vapor concentrations recorded in the soil vapor monitoring program, correlated to climatologic records indicate that the ventilation limits were defined by sampling conducted in abnormally dry weather conditions in the 2003 and 2004 heating seasons that were particularly conducive to vapor migration.

2. We have demonstrated through quantitative assessment of vapor migration mechanisms that:

   - The observed magnitude of seasonal decrease in soil vapor concentrations during wet weather outside of the growing season can be explained by physical/chemical mechanisms; and.

   - The observed variable attenuation of VOC vapors from water table to foundation depth and the resultant patterns in VOC concentrations in vapor at foundation depth can be explained by subsurface conditions influencing vapor transport by diffusion.

3. Soil vapor survey work and data recorded through installation and sampling of new permanent implants are consistent with the soil vapor conditions observed in prior vapor intrusion sampling over a three heating seasons. We believe that the patterns of soil vapor concentrations observed in repeated sampling can be explained by soil profile conditions including but not limited to:

   - Surficial soil conditions including the presence and absence of sand and gravel fill that is conducive to infiltration and increased moisture content; and

   - The subsurface presence of fines-rich low permeability soils at depths below the root zone that impede infiltrating water and maintain a high degree of water saturation against gravity drainage under typical rainfall conditions.

   In each of these areas the presence of dense fine-grained soils proximate to and above the water table appears to limit VOC vapor concentrations. The presence of petroleum oil in the subsurface downgradient of Ideal Cleaners is also expected to limit vapor migration.

4. We conclude that the data and observations recorded through February 2006 continue to support the utility of soil vapor monitoring using permanent implants to track vapor intrusion potential.

We recommend continuing the approved monitoring program without change through bi-monthly sampling in August 2006. We request that the submittal data for the annual report be extended to October 2006 to allow sufficient time for data reduction and analysis.

TABLES

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

Location Designation [1]	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		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					23	Sand	0-1' Concrete Surface Seal 1-22' Bentonite Seal 22-23' Glass Bead Filter Pack 22.5-23' Screened Interval			
EN04-2S	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					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		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					19	Sand	0-1' Concrete Surface Seal 1-18' Bentonite Seal 18-19' Glass Bead Filter Pack 18.5-19' Screened Interval			
EN04-4S		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					17	Gravel	0-1' Concrete Surface Seal 1-16' Bentonite Seal 16-17' Glass Bead Filter Pack 16.5-17' Screened Interval			
EN04-5S		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					34	Sand	0-1' Concrete Surface Seal 1-33' Bentonite Seal 33-34' Glass Bead Filter Pack 33.5-34' Screened Interval			
EN04-6S		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					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	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					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	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					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			

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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				
EN04-9S	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					20	Well Sorted Sand	0-2' Concrete Surface Seal 2-19' Bentonite Seal 19-20' Glass Bead Filter Pack 19.5-20' Screened Interval			
EN04-10S	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					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	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					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	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					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	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					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	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					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		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					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	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					34	Sand & Gravel	0-1' Concrete Surface Seal 1-33' Bentonite Seal 33-34' Glass Bead Filter Pack 33.5-34' 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				
EN04-17S	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					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		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					31	Sand & Gravel	0-1' Concrete Surface Seal 1-30' Bentonite Seal 30-31' Glass Bead Filter Pack 30.5-31' Screened Interval			
EN04-19S	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					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		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					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					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		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					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	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					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		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					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					23	Well Sorted Sand	0-1' Concrete Surface Seal 1-22' Bentonite Seal 22-23' Glass Bead Filter Pack 22.5-23' 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				
EN04-24S		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					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		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					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			
EN04-26S	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					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		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	X		EN-109*	10*	8	To be installed as part of the Building 57 Investigation				
EN05-29S	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					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					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	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					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		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					19	Well Sorted Sand	0-1' Concrete Surface Seal 1-18' Bentonite Seal 18-19' Glass Bead Filter Pack 18.5-19' 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				
EN04-32S		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					18	Sand	0-1' Concrete Surface Seal 1-17' Bentonite Seal 17-18' Glass Bead Filter Pack 17.5-18' Screened Interval			
EN05-33S	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					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					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					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	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					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					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			
EN05-35S		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
EN05-35I16					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			
EN05-35I24					24	Well Sorted Sand	16.6-22.3' Bentonite Seal 22.3-24.3' Glass Bead Filter Pack 23.5-24' Screened Interval			
EN05-35D					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			

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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				
EN05-36S		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
EN05-36I21					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			
EN05-36I29					22	Well Sorted Sand	12.5-20.9' Bentonite Seal 20.9-22.5' Glass Bead Filter Pack 21.5-22.' Screened Interval			
EN05-36D					33	Poorly Sorted Sand and Gravel	22.5-31.8' Bentonite Seal 31.8-34' Glass Bead Filter Pack 32.5-33' Screened Interval			
EN05-37S		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
EN05-37I					12	Well Sorted Sand	0-1' Concrete Surface Seal 1-11' Bentonite Seal 11-12' Glass Bead Filter Pack 11.5-12' Screened Interval			
EN05-37D					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.

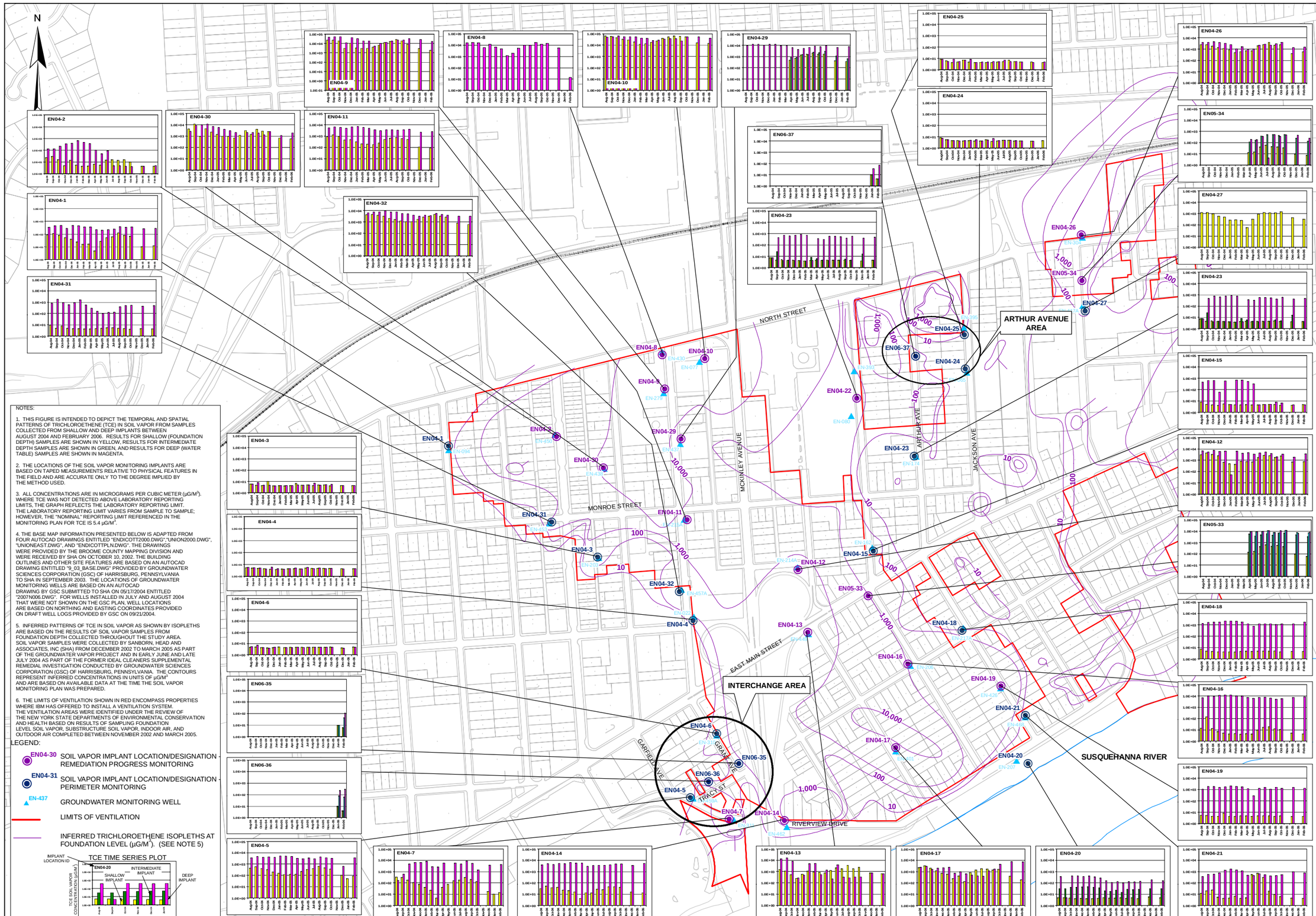
4. The "depth to water table" field is based on depth to water measurements recorded from top of well casing (TOC) as measured by SHA and GSC personnel between July 26 and August 5, 2004 and by SHA on April 18 and 19, 2005. Water levels indicated by an asterisk are nominal water levels based on monitoring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



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 FEBRUARY 2006. RESULTS FOR SHALLOW (FOUNDATION DEPTH) SAMPLES ARE SHOWN IN YELLOW, RESULTS FOR INTERMEDIATE DEPTH SAMPLES ARE SHOWN IN GREEN, AND RESULTS FOR DEEP (WATER TABLE) SAMPLES ARE SHOWN IN MAGENTA.

2. THE LOCATIONS OF THE SOIL VAPOR MONITORING IMPLANTS ARE BASED ON TAPED MEASUREMENTS RELATIVE TO PHYSICAL FEATURES IN THE FIELD AND ARE ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

3. 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 $\mu g/M^3$.

4. THE BASE MAP INFORMATION PRESENTED BELOW IS ADAPTED FROM FOUR AUTOCAD DRAWINGS ENTITLED "ENDICOTT2000.DWG","UNION2000.DWG", "UNIONEAST.DWG", AND "ENDICOTTPLN.DWG". THE DRAWINGS WERE PROVIDED BY THE BROOME COUNTY MAPPING DIVISION AND WERE RECEIVED BY SHA ON OCTOBER 10, 2002. THE BUILDING OUTLINES AND OTHER SITE FEATURES ARE BASED ON AN AUTOCAD DRAWING ENTITLED "9_03_BASE.DWG" PROVIDED BY GROUNDWATER SCIENCES CORPORATION (GSC) OF HARRISBURG, PENNSYLVANIA TO SHA IN SEPTEMBER 2003. THE LOCATIONS OF GROUNDWATER MONITORING WELLS ARE BASED ON AN AUTOCAD DRAWING BY GSC SUBMITTED TO SHA ON 05/17/2004 ENTITLED "2007N006.DWG". FOR WELLS INSTALLED IN JULY AND AUGUST 2004 THAT WERE NOT SHOWN ON THE GSC PLAN, WELL LOCATIONS ARE BASED ON NORTHING AND EASTING COORDINATES PROVIDED ON DRAFT WELL LOGS PROVIDED BY GSC ON 09/21/2004.

5. 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.

6. 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:

- 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

IMPLANT LOCATION ID — EN04-20 — SHALLOW IMPLANT — INTERMEDIATE IMPLANT — DEEP IMPLANT

TCE SOIL VAPOR CONCENTRATION (µG/M³)

SAMPLE COLLECTION DATE

GRAPHICAL SCALE

Feet: 250 125 0 250 500 750

Sanborn, Head & Associates, Inc.
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DRAWN BY: EMB
DESIGNED BY: EMB
CHECKED BY: JO
REVIEWED BY: DBC
PROJECT MGR: JO
PIC: DBC
DATE: MAR 06

SEMI ANNUAL REPORT - SOIL VAPOR MONITORING

COMPREHENSIVE OPERATIONS, MAINTENANCE & MONITORING PROGRAM

ENDICOTT, NEW YORK

LOCATION PLAN AND SOIL VAPOR DATA SUMMARY

PROJECT NUMBER: 2200.00

1

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CAD FILE:
MODEL SPACE:
PLOT DATE: 03-01-06

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FIGURE 2A: EN06-36 INTERCHANGE AREA

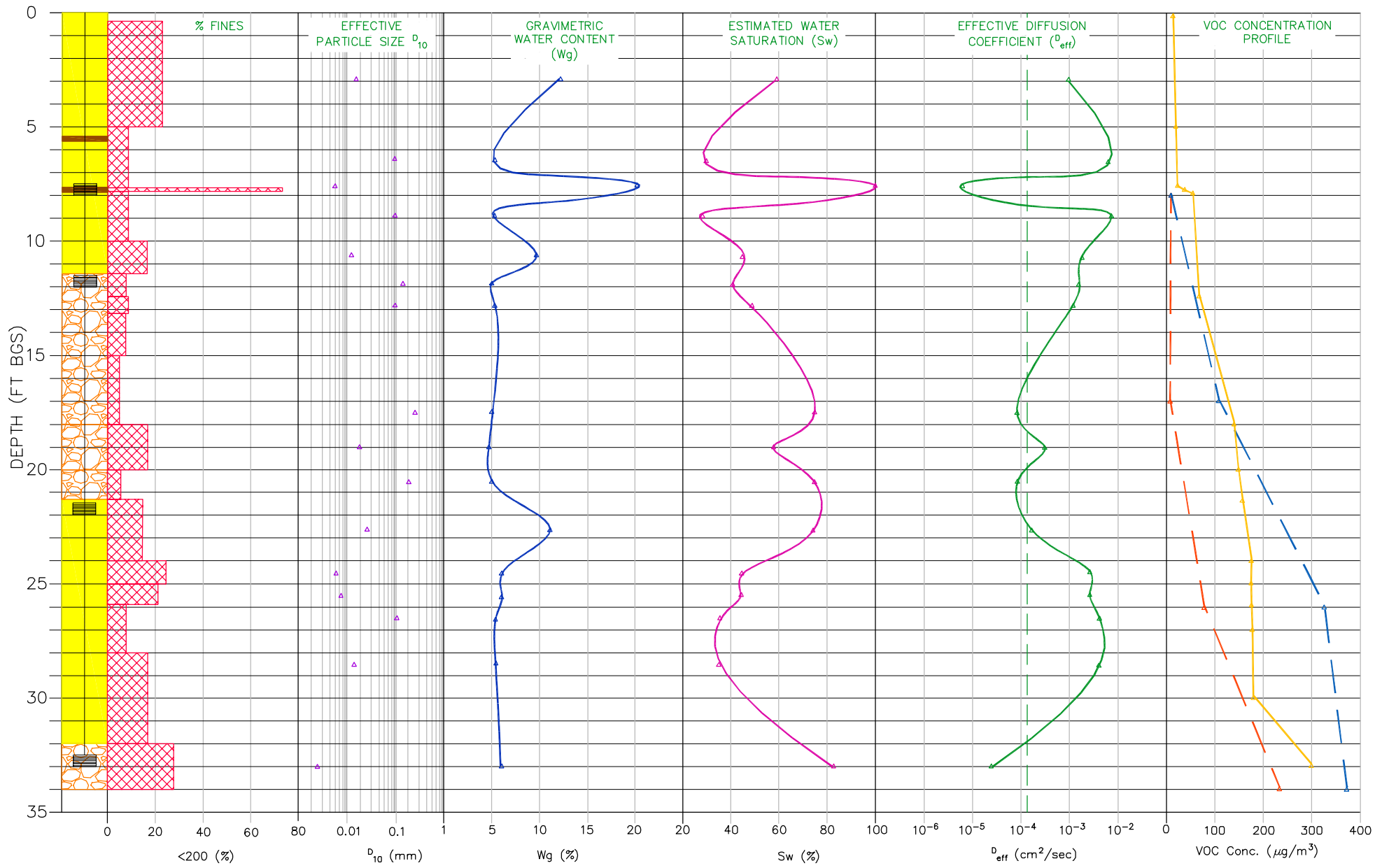
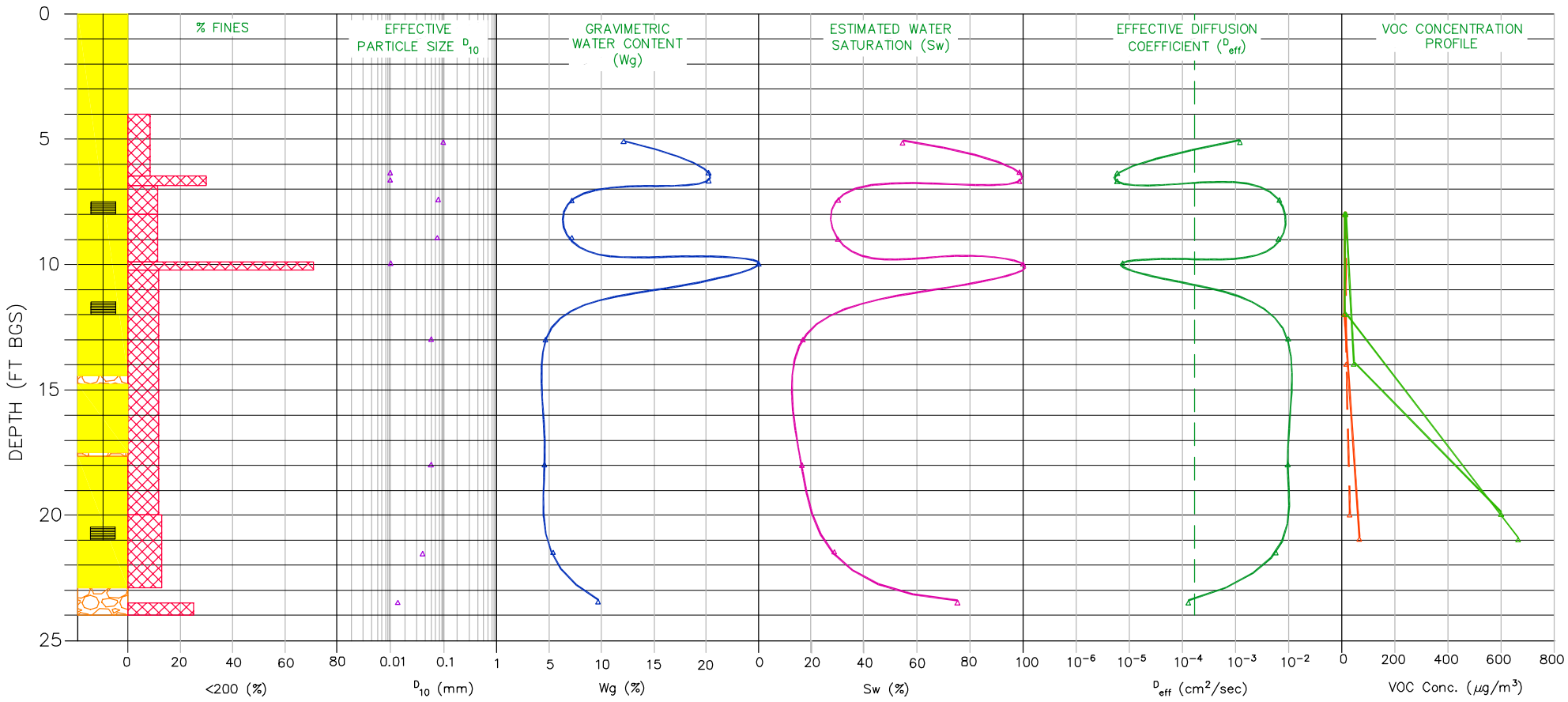


FIGURE 2B: EN06-37 ARTHUR AVENUE



DATA DERIVED FROM SOILS LABORATORY ANALYSIS (SEE NOTE 2)

- SOILS PREDOMINANTLY CONSISTING OF WELL SORTED SANDS WITH VARYING AMOUNTS OF SILT
- SOILS PREDOMINANTLY CONSISTING OF POORLY SORTED SAND AND GRAVEL
- SILTY ZONE
- (<200) – PROPORTION OF SOIL SAMPLE PASSING THE NO. 200 SIEVE (0.074 MILLIMETER MESH) OR THE SILT AND CLAY CONTENT EXPRESSED AS PERCENT OF THE TOTAL DRY SOIL WEIGHT
- (D_{10}) – EFFECTIVE PARTICLE SIZE DEFINED AS THE PARTICLE DIAMETER IN THE PARTICLE SIZE DISTRIBUTION CURVE THAT CORRESPONDS TO 10% FINER BY DRY WEIGHT. D_{10} HAS BEEN EMPIRICALLY CORRELATED TO HYDRAULIC CONDUCTIVITY.
- (W_G) – POINT OBSERVATION AND DIAGRAMMATIC PROFILE OF GRAVIMETRIC MOISTURE CONTENT EXPRESSED AS A PERCENTAGE OF DRY SOIL WEIGHT (SEE NOTE 3)
- SOIL VAPOR IMPLANT SCREEN

CONDITIONS INFERRED OR ESTIMATED FROM SOILS LABORATORY DATA (SEE NOTE 3)

- (S_W) – POINT ESTIMATE AND DIAGRAMMATIC PROFILE OF SOIL PORE SATURATION EXPRESSED AS A PERCENTAGE OF SOIL POROSITY DEVELOPED BY SHA BASED ON THE LABORATORY MEASURED GRAVIMETRIC MOISTURE CONTENT ASSUMING TYPICAL DRY UNIT WEIGHTS AND SOIL PARTICLE SPECIFIC GRAVITIES. THE ACTUAL DEGREE OF SOIL SATURATION WILL VARY SOMEWHAT FROM THESE ESTIMATES.
- (D_{eff}) – ESTIMATE OF EFFECTIVE DIFFUSION COEFFICIENT DEVELOPED BY SHA USING GENERALLY ACCEPTED ANALYTICAL RELATIONSHIPS SUPPORTED BY SOILS LABORATORY DATA AND INFERENCE OUTLINED TO THE LEFT.
- ESTIMATED HARMONIC MEAN D_{eff} FOR THE SOIL PROFILE
- FIELD MEASURED SOIL VAPOR PROFILE WITH TCE IN RED, 1,1,1-TCA IN BLUE, AND cDCE SHOWN IN GREEN. DATA RECORDED FOR SAMPLING TEMPORARY SOIL VAPOR IMPLANTS IS SHOWN BY DASHED LINES.
- THEORETICAL SOIL VAPOR CONCENTRATION PROFILE FOR TCE ESTIMATED BASED ON THE D_{eff} PROFILE (FOR EN06-36 ONLY)

NOTES:

1. FIGURES 2A AND 2B DEPICT DATA AND INFERENCE DERIVED FROM DRILLING, CONSTRUCTION, AND SAMPLING OF SOIL VAPOR IMPLANTS EN06-36 AND EN06-37. THE PROFILES ARE INTENDED TO SUPPORT A DISCUSSION OF CONDITIONS INFLUENCING SOIL VAPOR TRANSPORT AND ATTENUATION. THE PROFILES DEPICT DATA DERIVED FROM LABORATORY TESTING OF SAMPLES OF SOIL AND SOIL VAPOR AND ESTIMATES OF SOIL PROPERTIES DERIVED FROM THESE DATA AS OUTLINED IN THE REPORT TEXT. THE SOIL PROFILES ARE SIMPLIFIED GRAPHICAL REPRESENTATION OF SOIL CONDITIONS, CONSISTENT WITH AVAILABLE DATA. THE ACTUAL CONDITIONS ARE MORE COMPLEX AND WILL VARY FROM THOSE SHOWN DUE TO SEASONAL VARIABILITY IN SOIL MOISTURE AND SMALLER SCALE DIFFERENCES IN SOIL TEXTURE AND MOISTURE THAT CANNOT BE INFERRED FROM THE AVAILABLE DATA RESOLUTION.

2. SOILS LABORATORY TESTING WAS PERFORMED ON BAGGED SOIL SAMPLES COLLECTED BY SHA PERSONNEL AND TRANSMITTED TO GEOTESTING EXPRESS, LTD OF BOXBORO, MASSACHUSETTS WHERE THEY WERE ANALYZED FOR SOIL PARTICLE DISTRIBUTION AND GRAVIMETRIC MOISTURE CONTENT. THE FIELD WORK WAS CONDUCTED IN JANUARY AND FEBRUARY 2006. SEE APPENDIX C FOR ADDITIONAL DETAILS AND LABORATORY REPORTS.

3. THE LINES DEPICTING DIAGRAMMATIC SOIL MOISTURE AND D_{eff} PROFILES WERE CREATED FROM MS EXCEL GENERATED SMOOTHED LINE PLOTS. THE PROFILES ARE INTENDED TO CONVEY CONCEPTS ABOUT GENERAL TRENDS IN SOIL CONDITIONS BETWEEN DATA POINTS AND POINT ESTIMATES, AND ARE NOT INTENDED TO PRECISELY REPRESENT ACTUAL CONDITIONS IN THE FIELD. THE ACTUAL PROFILES WILL VARY FROM THOSE SHOWN. PLEASE REFER TO THE REPORT TEXT FOR ADDITIONAL DETAILS.

SHEET NUMBER: 2
PROJECT NUMBER: 2200.00

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

SOIL AND SOIL VAPOR PROFILES

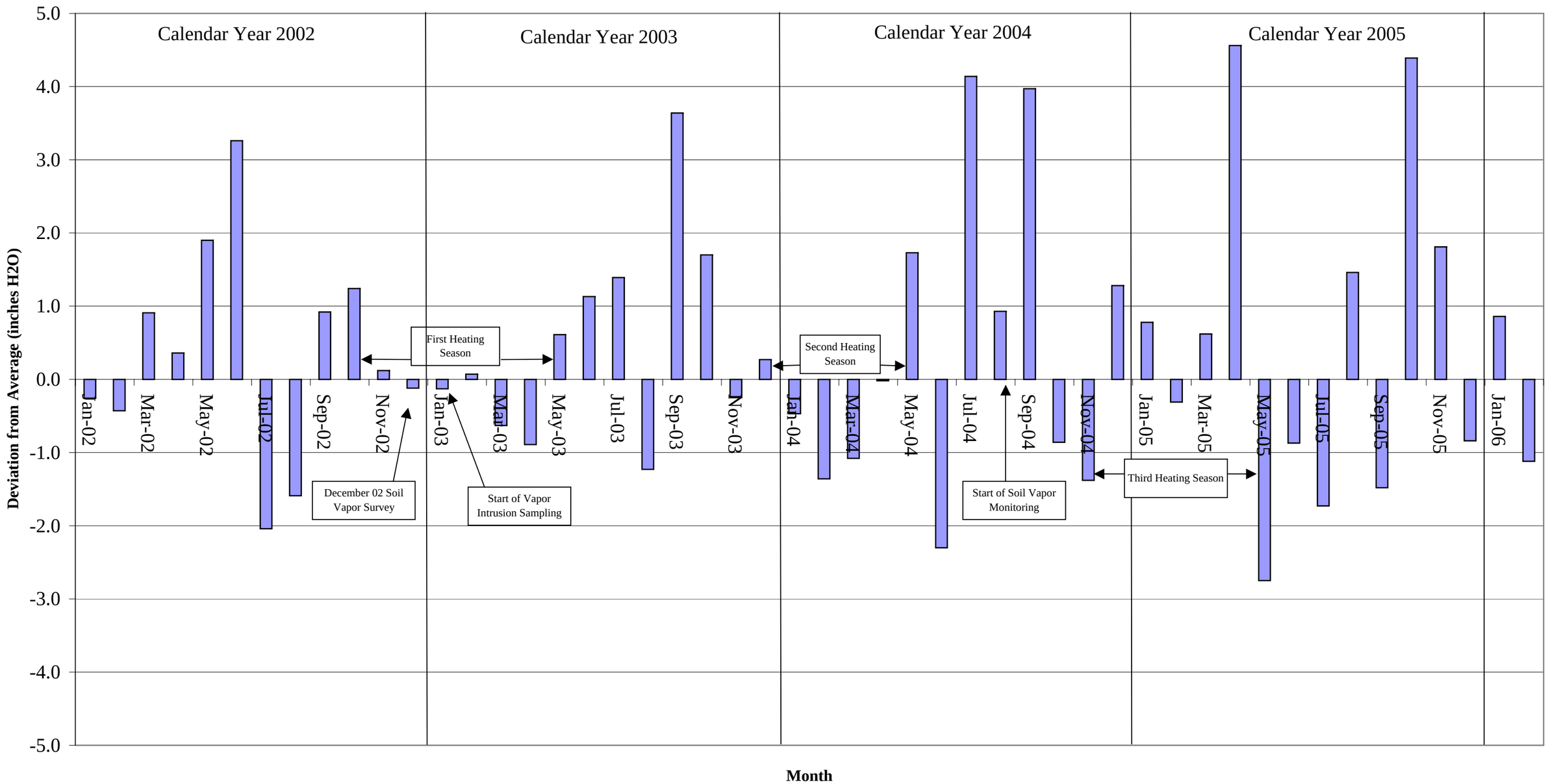
DRAWN BY: EMB
DESIGNED BY: EMB
CHECKED BY: JO
REVIEWED BY: DBC
PROJECT MGR: JO
PIC: DBC
DATE: MAR 06

Not to Scale

SHA
Sanborn, Head & Associates
Consulting Engineers & Scientists

NO.	DATE	DESCRIPTION	BY

Figure 3
Deviation from Monthly Average Precipitation
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Monitoring, and Maintenance Program
Endicott, New York



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 In December 2005 and February 2006. Summaries of prior monitoring activities are provided in the previous quarterly monitoring reports.

B.1.1 Background

Soil vapor monitoring was conducted at 33 locations in December 2005 and 36 locations in February 2006. Eleven additional implants were installed at three locations in January 2006 as described in Appendix C. 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 boxes.

B.1.2 Soil Vapor Implant Sampling

The soil vapor implants were sampled from December 12th to 15th, 2005 and February 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 February 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.

After collection of the soil vapor sample, a Tedlar bag sample was collected for field screening following the same methodology used in previous samplings 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.

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Semi 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	**EN04-1**	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
		EN04-1D	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
		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

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Semi 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
EN04-1 Continued	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 U	< 8.8 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
	EN04-2D	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
	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

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Semi 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
EN04-2 Continued	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
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
	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

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Semi 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	EN04-3D	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
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

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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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
EN04-4 Continued	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
	EN04-4D	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
	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 U	**5.7**	< 3.1 U	< 3.1 U	< 2 U	< 2.7 U	< 5.9 U
	EN04-4D	17	14-Feb-06	EN044D021406	Summa Canister	20.5	1.0	0.0	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
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

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
EN04-5 Continued	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
	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 U	**11**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 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 U	< 7.9 U	< 17 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 **EN04-6**	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
	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
	EN04-6D	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

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
EN04-6 Continued	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 U	< 3.9 U	< 2.9 U	< 2.9 U	< 1.9 U	< **4** 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
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
	EN04-7D	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		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 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
	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

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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
EN04-8 Continued	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	< 12.0 U	**2,100**	**110**	**360**	< 12.0 U	< 16.0 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	< **6** U	**14**	< **3** U	< 3 U	< 2.1 U	**5**	< **3** U	< **3** U	< 2.2 U	< 2.8 U	< **6** U
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**
	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

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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	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	
	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	
	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	

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EN04-9 Continued	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
	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
Implant Location **EN04-10**	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
Monitoring Well **EN-77**	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
Water Table Depth (ft) *26*	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
Total VOCs *800*	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
Sum Ethenes *500*	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
Sum Ethanes *300*	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
Other	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
	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
	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
	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
	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
	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
	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
	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

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
EN04-10 Continued	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**
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

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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	EN04-11S	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
	EN04-11D	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
	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

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	**EN04-12**	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
		EN04-12D	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

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	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
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
	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 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
	EN04-13D	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

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
EN04-13 Continued	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
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
	EN04-14D	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

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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
EN04-14 Continued	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
	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
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

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	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
	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
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

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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
EN04-16 Continued	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
	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					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
	EN04-16D	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
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

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
EN04-17 Continued	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
	EN04-17D	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**
	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	< 16.0 U	**500**	**26**	< 25 U	< 16 U	< 21.0 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	< 19.0 U	**380**	< 30 U	< 30 U	**67**	< 26.0 U	< 57 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

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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
EN04-18 Continued	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
	EN04-18D	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
	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 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

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
EN04-18 Continued	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
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
	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
	EN04-19D	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

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	EN04-19D	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	< 10.0 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 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

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
EN04-20 Continued	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
	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
	EN04-20D	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 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
	EN04-20D	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

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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 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
		EN04-21D	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
		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

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
EN04-21 Continued		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 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
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**	< 16.0 U	**16.0** U	< 10 U	< 14.0 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**	< 18.0 U	< 19 U	< 12 U	< 16.0 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
		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

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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	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
	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
	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

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
EN04-22 Continued	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
	EN04-23I	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
	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

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
EN04-23 Continued	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
	EN04-23D	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
	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

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	**EN04-24**	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
		EN04-24D	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
		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

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
EN04-24 Continued	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 U	< 3 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														
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 U	< 4.3 U	< 3.1 U	< 3.2 U	< 2.1 U	< 2.7 U	< 6 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

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
Semi 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		
EN04-25 Continued	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
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
	EN04-26D	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

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
EN04-26 Continued	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
	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
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**	**1200**	< 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

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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 Dup.	8	7-Jul-05	DU9469070705	Summa Canister	15.7	3.6	0.0	1.75	N	N			µg/m3	**190**	**1100**	< 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**	**1100**	< 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**	**1100**	< 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**	**1100**	< 3.2 U	< 3.2 U	< 2.1 U	**150**	**4.1**	< 3.3 U	< 2.2 U	< 2.8 U	< 6.3 U
	EN04-27S	8	13-Oct-05	EN0427S101305	Summa Canister	16.4	3.6	0.0	1.8	N	N			µg/m3	**190**	**1400**	< 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
Implant Location **EN04-28**										N	N														
Monitoring Well **EN-087**										N	N														
Water Table Depth (ft) *14*	Location of implant to be determined.									N	N														
Total VOCs *<1*										N	N														
Sum Ethenes *<1*										N	N														
Sum Ethanes *<1*										N	N														
Other										N	N														
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
	EN05-29I	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
	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

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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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		
EN04-29 Continued	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
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
	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

Table B.1
Summary of Analytical Laboratory Data - Soil Vapor
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Comprehensive Operations, Maintenance, & Monitoring Program
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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	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
	EN04-30D	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**
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

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
EN04-31 Continued	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
	EN04-31D	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
	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**	< 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
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 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

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
EN04-32 Continued	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 U	**15**	< 3.2 U	< 3.2 U	< 2.1 U	< 2.8 U	< 6.2 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
	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
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

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
EN04-33 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
	EN05-33I21	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
	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
	EN05-33I29	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
	EN05-33D	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

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
EN04-33 Continued	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
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
	EN05-34I	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
	EN05-34D	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
	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
Implant Location **EN06-35**	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
Monitoring Well **EN-460A**	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
Water Table Depth (ft) *40*	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

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
EN06-35 Continued	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
	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
	EN06-35D	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
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
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 U	< 2.6 U	< 5.8 U
	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
	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 U	< 2.6 U	< 5.8 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
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
	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	< 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
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
	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

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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
	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 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 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 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

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 "SF_6 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/Tedlar 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

Table B.2
Summary of Analytical Laboratory Data - Groundwater
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SV Mon Point Designation	Sampling Point Designation	Sampling Date	Sample Type	Dilution Factor	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
	EN-06	13-Jun-02	Groundwater	1	µg/L	1.0 U	48	1.0 U	1.0 U	1.0 U	5.9	1.0 U	1.0 U		1.0 U	1.0 U
	EN-06	11-Nov-02	Groundwater	2	µg/L	0.24 U	53.3	0.52 J	0.18 U	0.34 U	2.8	0.24 U	0.24 U	0.52 U	2.0 U	2.6 U
	EN-06 DUP	11-Nov-02	Groundwater	1	µg/L	0.12 U	0.090 U	0.09 U	0.09 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	END-11	11-Nov-02	Groundwater	10	µg/L	1.2 U	0.90 U	0.90 U	0.90 U	1.7 U	1.0 U	1.2 U	1.2 U	2.6 U	1.0 U	1.3 U
	END-12	11-Nov-02	Groundwater	1	µg/L	0.12 U	0.090 U	0.09 U	0.09 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	EN-17	13-Jun-02	Groundwater	1	µg/L	27	45	130	1.2	22	110	20	70		1.0 U	40
	EN-17	13-Jun-02	Groundwater	2	µg/L	25	44	130	2.0 U	19	110	17	68		2.0 U	33
	EN-17	11-Nov-02	Groundwater	20	µg/L	7.7 J	19 J	56	1.8 U	22.2	275	7.5 J	125	5.2 U	2.0 U	2.6 U
	EN-017 DUP	13-Jun-02	Groundwater	1	µg/L	27	44	120	1.1	22	110	20	68		1.0 U	39
	EN-017 DUP	13-Jun-02	Groundwater	2	µg/L	25	43	130	2.0 U	18	110	17	67		2.0 U	35
	EN-18	13-Jun-02	Groundwater	50	µg/L	50 U	50 U	130	50 U	50 U	4,600	50 U	50 U		50 U	50 U
	EN-18	11-Nov-02	Groundwater	200	µg/L	37 J	5478	1909	18 U	34 U	475	24 U	216	52 U	20 U	26 U
	EN-019	13-Jun-02	Groundwater	10	µg/L	76	1,900 E	890	10 U	10 U	100	10 U	200		10 U	10 U
	EN-019	13-Jun-02	Groundwater	20	µg/L	71	2,200	1,000	< 20 U	20 U	100	10 U	200		20 U	20 U
EN04-4	EN-022	24-Aug-04	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-4	EN-022	13-Sep-04	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-4	EN-022	04-Nov-04	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-4	EN-022	21-Nov-04	Groundwater	1	µg/L	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-4	EN-022	13-Dec-04	Groundwater	1	µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-4	EN-022	17-Jan-05	Groundwater	1	µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-4	EN-022	21-Feb-05	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-4	EN-022	18-Apr-05	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-4	EN-022	12-May-05	Groundwater	1	µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-23	13-Jun-02	Groundwater	1	µg/L	1.0 U	16	9.6	1.0 U	3.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	EN-23	11-Nov-02	Groundwater	1	µg/L	0.12 U	4.2	4.2	0.090 U	5.4	0.10 U	0.12 U	0.26 J	0.26 U	0.10 U	0.13 U
	EN-24	11-Nov-02	Groundwater	1	µg/L	5.9	1.4	0.090 U	0.090 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	EN-29A	13-Jun-02	Groundwater	5	µg/L	6.0	410	660	5.0 U	5.0 U	100	16	100		5.0 U	16
	EN-29A	12-Nov-02	Groundwater	20	µg/L	19.2 J	404	769	1.8 U	3.4 U	61	5.7 J	135	5.2 U	2.0 U	2.6 U
	EN-35	11-Nov-02	Groundwater	10	µg/L	1.2 U	151	40	0.90 U	1.7 U	11	13	10	2.6 U	1.0 U	1.3 U
	EN-59	12-Nov-02	Groundwater	1	µg/L	0.12 U	0.090 U	0.090 U	0.090 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	EN-61	12-Nov-02	Groundwater	1	µg/L	0.12 U	0.46 J	0.090 U	0.090 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
EN04-24	EN-065	24-Aug-04	Groundwater		µg/L	< 1 U	11	3	< 1 U	< 1 U	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	13-Sep-04	Groundwater		µg/L	< 1 U	6	1	< 1 U	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	04-Nov-04	Groundwater		µg/L	< 1 U	7	2	< 1 U	< 1 U	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	22-Nov-04	Groundwater	1	µg/L	< 1 U	17	4.3	0.2 J	< 1 U	< 1 U	0.8 J	3.5	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	13-Dec-04	Groundwater	1	µg/L	< 1 U	17	4	0.3 J	0.4 J	0.4 J	0.9 J	3	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	18-Jan-05	Groundwater	1	µg/L	< 1 U	20	6.1	0.3 J	< 1 U	0.2 J	0.7 J	4.1	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	23-Feb-05	Groundwater		µg/L	< 1 U	14	3	0.2 J	< 1 U	< 1 U	0.5 J	3	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	19-Apr-05	Groundwater		µg/L	< 1 U	13	3	0.2 J	0.3 J	< 1 U	0.6 J	3	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	09-May-05	Groundwater	1	µg/L	< 1 U	10	4	< 1 U	0.13 J	< 1 U	0.36 J	2.5	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	13-Jul-05	Groundwater	1	µg/L	< 1 U	16	5	0.3 J	0.50 J	< 1 U	1 J	4	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	18-Aug-05	Groundwater	1	µg/L	< 1 U	12	4	0.2 J	0.3 J	< 1 U	0.5 J	3	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	11-Oct-05	Groundwater	1	µg/L	< 1 U	10	3	< 1 U	< 1 U	< 1 U	0.4 J	2	< 1 U	< 1 U	< 1 U

Table B.2
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SV Mon Point Designation	Sampling Point Designation	Sampling Date	Sample Type	Dilution Factor	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	EN-065	7-Nov-05	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1.0 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-24	EN-065	7-Feb-06	Groundwater		µg/L	< 1 U	**14.7**	**5**	< 1 U	< 1 U	< 1 U	**0.3** J	**3**	< 1 U	< 1 U	< 1 U
	EN-76	12-Nov-02	Groundwater	1	µg/L	7.1	1.4	1.53	0.090 U	0.17 U	0.11 J	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	EN-77	13-Jun-02	Groundwater	2.5	µg/L	2.5 U	110	92	2.5 U	2.5 U	25	4.6	200		2.5 U	2.5 U
	EN-77	11-Nov-02	Groundwater	20	µg/L	2.4 U	117	138	1.8 U	9.8 J	9.1 J	4.0 J	542	5.2 U	2.0 U	2.6 U
EN04-10	EN-077	25-Aug-04	Groundwater		µg/L	3	120	320	0.6 J	0.6 J	110	18	85	< 1 U	< 1 U	< 1 U
EN04-10	EN-077	08-Sep-04	Groundwater		µg/L	3	160	470	1	0.9 J	200	29	96	< 1 U	< 1 U	0.4 J
EN04-10	EN-077	12-Oct-04	Groundwater	1	µg/L	5	160	950	1	2	250	60	110	< 1 U	< 1 U	0.8 J
EN04-10	EN-077	03-Nov-04	Groundwater		µg/L	5	140	820	2	< 1 U	290	47 J	100	< 1 U	< 1 U	0.6 J
EN04-10	EN-077	23-Nov-04	Groundwater	1	µg/L	4.9	150	880	2.8	6.2	260	64	160	0.9 J	< 1 U	< 1 U
EN04-10	EN-077	06-Dec-04	Groundwater	1	µg/L	3.5	120	510	1.9	4.3	140	44	130	0.6 J	< 1 U	< 1 U
EN04-10	EN-077	13-Dec-04	Groundwater	1	µg/L	4	120	520	2	4	140	37	150	0.7 J	< 1 U	0.4 J
EN04-10	EN-077	18-Jan-05	Groundwater	1	µg/L	3.8	110	650	1.3	10	270	36	110	0.7 J	< 1 U	0.4 J
EN04-10	EN-077	21-Feb-05	Groundwater		µg/L	4	160	730	1	2	380	51	83	< 1 U	< 1 U	< 1 U
EN04-10	EN-077	18-Apr-05	Groundwater		µg/L	5	250	470	23	0.8 J	250	53	68	< 1 U	< 1 U	0.7 J
EN04-10	EN-077	08-May-05	Groundwater	1	µg/L	3.7	170	310	0.94 J	< 1.0 U	150	33	41	< 1 U	< 1 U	1.5
EN04-10	EN-077	12-Jul-05	Groundwater	1	µg/L	5.0	200	410	1.0 J	18	120	34	130	1	< 1 U	0.40 J
EN04-10	EN-077	15-Aug-05	Groundwater	1	µg/L	4.1	133	416	1.7	19	80	37	145	1.9	0.55 J	0.6 J
EN04-10	EN-077	12-Oct-05	Groundwater	1	µg/L	4	170	390	< 1 U	12	71	30	190	2	< 1 U	< 1.0 U
EN04-10	EN-077	6-Nov-05	Groundwater			**3**	**185**	**413**	**1** J	**9**	**69**	**29**	**144**	**1** J	< 1 U	< 1.0 U
EN04-10	EN-077	5-Feb-06	Groundwater		µg/L	< 1 U	**11.4**	**25.3**	< 1 U	< 1 U	**5**	**1**	**3.65**	< 1 U	< 1 U	< 1.0 U
	EN-78	13-Jun-02	Groundwater	1	µg/L	1.0 U	41	2.0	1.0 U	1.0 U	3.9	1.0 U	1.0 U		1.0 U	1.0 U
	EN-78	11-Nov-02	Groundwater	5	µg/L	0.60 U	47.6	1.2 J	0.45 U	0.85 U	2.1 J	0.60 U	0.87 J	1.3 U	0.50 U	0.65 U
	EN-79	12-Nov-02	Groundwater	2	µg/L	0.24 U	0.18 U	0.35 J	0.18 U	0.37 J	0.20 U	0.24 U	0.24 U	0.52 U	0.20 U	0.26 U
	EN-080	13-Jun-02	Groundwater	10	µg/L	10 U	10 U	1,300	10 U	440	10 U	NR	10 U	10 U	10 U	10 U
	EN-080	13-Jun-02	Groundwater	20	µg/L	20 U	20 U	1,400	20 U	430	20 U	10 U	20 U	20 U	20 U	20 U
	EN-080	11-Nov-02	Groundwater	20	µg/L	2.4 U	1.8 U	780	1.8 U	418	2.0 U	2.4 U	2.4 U	5.2 U	2.0 U	2.6 U
EN04-22	EN-080	24-Aug-04	Groundwater		µg/L	< 1 U	2	440	5	760	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	08-Sep-04	Groundwater		µg/L	< 1 U	2	420	4	930	< 1 U	0.5 J	0.3 J	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	04-Nov-04	Groundwater		µg/L	< 1 U	0.8 J	150	5	500.0	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	23-Nov-04	Groundwater	1	µg/L	< 1 U	0.6 J	140	4.5	550.0	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	13-Dec-04	Groundwater	1	µg/L	< 1 U	0.7 J	160	4	600.0	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	18-Jan-05	Groundwater	1	µg/L	< 1 U	1 J	290	5.1	530	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	23-Feb-05	Groundwater		µg/L	< 1 U	0.5 J	230	4	410	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	18-Apr-05	Groundwater		µg/L	< 1 U	0.6 J	220	5	500	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	09-May-05	Groundwater	1	µg/L	< 1 U	< 1 U	156	3.44	297	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	10-May-05	Groundwater	5	µg/L	< 5 U	< 5 U	200	< 5 U	280	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
EN04-22	EN-080	14-Jul-05	Groundwater	1	µg/L	< 1 U	< 1 U	120	4	380	< 1 U	0.20 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	18-Aug-05	Groundwater	1	µg/L	< 1 U	0.4 J	96	3	320	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	11-Oct-05	Groundwater	1	µg/L	< 1 U	0.6 J	240	4	400	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	6-Nov-05	Groundwater		µg/L	< 1 U	**2.6**	**568**	**5**	**384**	< 1 U	**0.62** J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-080	7-Feb-06	Groundwater		µg/L	< 1 U	< 1.0 U	**232**	**5**	**535**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-84	11-Nov-02	Groundwater	1	µg/L	0.12 U	0.090 U	0.090 U	0.090 U	0.17 U	0.l0 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U

Table B.2
Summary of Analytical Laboratory Data - Groundwater
Semi Annual Report - Soil Vapor Monitoring
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SV Mon Point Designation	Sampling Point Designation	Sampling Date	Sample Type	Dilution Factor	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
EN04-28	EN-087	24-Aug-04	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-28	EN-087	08-Sep-04	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-28	EN-087	04-Nov-04	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-28	EN-087	22-Nov-04	Groundwater	1	µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-28	EN-087	13-Dec-04	Groundwater	1	µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-28	EN-087	18-Jan-05	Groundwater	1	µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-28	EN-087	13-Jul-05	Groundwater	1	µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-28	EN-087	6-Feb-06	Groundwater		µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-91	12-Nov-02	Groundwater	20	µg/L	2.4 U	349	208	1.8 U	3.4 U	58	4.2 J	47	5.2 U	2.0 U	2.6 U
	EN-92	12-Nov-02	Groundwater	20	µg/L	18 J	289	287	1.8 U	3.4 U	30	2.4 U	33	5.2 U	2.0 U	2.6 U
	EN-93	12-Nov-02	Groundwater	20	µg/L	2.4 U	505	175	1.8 U	3.4 U	63	3.8 J	35	5.2 U	2.0 U	2.6 U
EN04-1	EN-094	25-Aug-04	Groundwater		µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	08-Sep-04	Groundwater		µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	11-Oct-04	Groundwater	1	µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	02-Nov-04	Groundwater		µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	22-Nov-04	Groundwater	1	µg/L	< 1 U	1.8	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	05-Dec-04	Groundwater	1	µg/L	< 1 U	1.8	< 1 U	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	13-Dec-04	Groundwater	1	µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	18-Jan-05	Groundwater	1	µg/L	< 1 U	1.8	< 1 U	< 1 U	< 1 U	1 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	21-Feb-05	Groundwater		µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	18-Apr-05	Groundwater		µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	10-May-05	Groundwater	1	µg/L	< 1 U	1.6	< 1 U	< 1 U	< 1 U	2.4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	12-Jul-05	Groundwater	1	µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	0.70 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	17-Aug-05	Groundwater	1	µg/L	< 1 U	1.2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	1-Sep-05	Groundwater	1	µg/L	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	12-Oct-05	Groundwater	1	µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	9-Nov-05	Groundwater		µg/L	< 1 U	**1** J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	6-Dec-05	Groundwater		µg/L	< 1 U	**1**	< 1 U	< 1 U	< 1 U	0.61 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	10-Jan-06	Groundwater		µg/L	< 1 U	**1**	< 1 U	< 1 U	< 1 U	**0.62** J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-1	EN-094	6-Feb-06	Groundwater		µg/L	< 1 U	**1** J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-120	14-Nov-02	Groundwater	20	µg/L	2.4 U	471	522	1.8 U	3.4 U	45	8.2 J	253	2.2 U	2.0 U	2.6 U
	EN-127	13-Jun-02	Groundwater	1	µg/L	1.6	1.0	5.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	EN-127	11-Nov-02	Groundwater	10	µg/L	1.2 U	1.7 J	4.2 J	0.90 U	1.7 U	1.0 U	1.2 U	1.2 U	2.6 U	1.0 U	1.3 U
	EN-129	11-Nov-02	Groundwater	1	µg/L	0.12 U	0.13 J	0.61 J	0.090 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	EN-130	12-Jun-02	Groundwater	1	µg/L	3.4	3.1	31	1.0 U	11	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	EN-130	11-Nov-02	Groundwater	1	µg/L	6.2	4.2	13	0.21 J	2.0	0.10 U	0.12 U	0.26 J	0.26 U	0.10 U	0.13 U
	EN-133	14-Nov-02	Groundwater	10	µg/L	1.2 U	65	22	0.90 U	1.7 U	2.6 J	1.2 U	2.1 J	2.6 U	1.0 U	1.3 U
	EN-156	11-Nov-02	Groundwater	1	µg/L	0.12 U	0.090 U	0.29 J	0.090 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	EN-160	14-Nov-02	Groundwater	20	µg/L	2.4 U	400	153	1.8 U	3.4 U	23	2.4 U	18 J	5.2 U	2.0 U	2.6 U
	EN-161	12-Nov-02	Groundwater	20	µg/L	2.4 U	31	194	1.8 U	3.4 U	2.0 U	2.4 U	2.4 U	5.2 U	2.0 U	2.6 U
	EN-162	12-Nov-02	Groundwater	1	µg/L	0.12 U	6.1	3.7	0.090 U	0.17 U	0.10 U	0.12 U	0.38	0.26 U	0.10 U	0.13 U
EN04-15	EN-162	24-Aug-04	Groundwater		µg/L	< 1 U	4	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	13-Sep-04	Groundwater		µg/L	< 1 U	5	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

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SV Mon Point Designation	Sampling Point Designation	Sampling Date	Sample Type	Dilution Factor	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	EN-162	04-Nov-04	Groundwater		µg/L	< 1 U	4	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	22-Nov-04	Groundwater	1	µg/L	< 1 U	4.1	1.6	0.2 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	13-Dec-04	Groundwater	1	µg/L	< 1 U	4	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	18-Jan-05	Groundwater	1	µg/L	< 1 U	3.9	2	< 1 U	< 1 U	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	23-Feb-05	Groundwater		µg/L	< 1 U	4	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	19-Apr-05	Groundwater		µg/L	< 1 U	4	2	0.2 J	< 1 U	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	09-May-05	Groundwater	1	µg/L	< 1 U	3.3	2.1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	14-Jul-05	Groundwater	1	µg/L	< 1 U	4	2	< 1 U	< 1 U	< 1 U	< 1 U	0.40 J	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	15-Aug-05	Groundwater	1	µg/L	< 1 U	2.7	2.2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	11-Oct-05	Groundwater	1	µg/L	< 1 U	4	3	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-15	EN-162	7-Feb-06	Groundwater		µg/L	< 1 U	**3**	**2**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-170	12-Nov-02	Groundwater	20	µg/L	2.4 U	27	167	1.8 U	3.4 U	2.0 U	2.4 U	2.4 U	5.2 U	2.0 U	2.6 U
	EN-173	13-Jun-02	Groundwater	1	µg/L	1.0 U	1.0 U	1.3	1.0 U	16	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U
	EN-173	11-Nov-02	Groundwater	2	µg/L	0.24 U	0.18 U	15	0.23 J	65	0.20 U	0.24 U	0.24 U	0.52 U	0.20 U	0.26 U
	EN-174	12-Nov-02	Groundwater	1	µg/L	0.12 U	1.8	3.6	0.090 U	13	0.10 U	0.12 U	1.3	0.26 U	0.10 U	0.13 U
EN04-23	EN-174	24-Aug-04	Groundwater		µg/L	< 1 U	1	2	< 1 U	< 1 U	< 1 U	< 1 U	0.7 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	13-Sep-04	Groundwater		µg/L	< 1 U	2	2	< 1 U	< 1 U	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	22-Nov-04	Groundwater	1	µg/L	< 1 U	1.2	3.8	0.3 J	< 1 U	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	07-Dec-04	Groundwater	1	µg/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	13-Dec-04	Groundwater	1	µg/L	< 1 U	1	4	0.2 J	< 1 U	< 1 U	< 1 U	0.7 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	18-Jan-05	Groundwater	1	µg/L	< 1 U	1.4	5.1	< 1 U	< 1 U	< 1 U	< 1 U	1 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	23-Feb-05	Groundwater		µg/L	< 1 U	1	2	< 1 U	< 1 U	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	19-Apr-05	Groundwater		µg/L	< 1 U	1	2	< 1 U	< 1 U	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	09-May-05	Groundwater	1	µg/L	< 1 U	0.55 J	2.1	< 1 U	< 1 U	< 1 U	< 1 U	0.46 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	14-Jul-05	Groundwater	1	µg/L	< 1 U	1	4	< 1 U	4	< 1 U	< 1 U	0.90 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	15-Aug-05	Groundwater	1	µg/L	< 1 U	0.81 J	5.8	< 1 U	6.2	< 1 U	< 1 U	0.97 J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	11-Oct-05	Groundwater	1	µg/L	< 1 U	2	8	< 1 U	10	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	7-Nov-05	Groundwater	1	µg/L	< 1 U	**0.96** J	**9** J	< 1 U	**3.83**	< 1 U	< 1 U	**0.83** J	< 1 U	< 1 U	< 1 U
EN04-23	EN-174	7-Feb-06	Groundwater	1	µg/L	< 1 U	**1.22**	**3**	< 1 U	< 1 U	< 1 U	< 1 U	**0.47** J	< 1 U	< 1 U	< 1 U
	EN-175	14-Nov-02	Groundwater	1	µg/L	0.12 U	0.13 J	1.9	0.090 U	2.0	0.10 U	0.12 U	0.49 J	0.26 U	0.10 U	0.13 U
	EN-183	12-Nov-02	Groundwater	5	µg/L	0.60 U	0.45 U	7.2	0.45 U	64	0.50 U	0.60 U	0.60 U	1.3 U	0.50 U	0.65 U
	EN-185	14-Nov-02	Groundwater	20	µg/L	2.4 U	1.8 U	550	1.8 U	190	2.0 U	2.4 U	2.4 U	5.2 U	2.0 U	2.6 U
	EN-190	13-Jun-02	Groundwater	5	µg/L	5.0 U	390	180	5.0 U	5.0 U	22	5.0 U	19		5.0 U	5.0 U
	EN-190	11-Nov-02	Groundwater	2000	µg/L	240 U	14,226	2,142	180 U	340 U	200 U	240 U	240 U	520 U	200 U	260 U
	EN-190	12-Nov-02	Groundwater	20	µg/L	2.4 U	502	192	1.8 U	3.4 U	10 J	2.4 U	17 J	5.2 U	2.0 U	2.6 U
	EN-191	12-Nov-02	Groundwater	20	µg/L	2.4 U	151	4.9 J	1.8 U	3.4 U	2.0 U	2.4 U	2.4 U	5.2 U	2.0 U	2.6 U
	EN-192	12-Nov-02	Groundwater	5	µg/L	0.60 U	74	3.5 J	0.45 U	0.85 U	2.3 J	0.60 U	0.60 U	1.3 U	0.50 U	0.65 U
	EN-193	12-Nov-02	Groundwater	5	µg/L	15.6	54	17	0.45 U	0.85 U	0.50 U	0.60 U	0.60 U	1.3 U	0.50 U	0.65 U
	EN-194	14-Nov-02	Groundwater	20	µg/L	2.4 U	220	23	1.8 U	3.4 U	2.0 U	2.4 U	2.4 U	5.2 U	2.0 U	2.6 U
	EN-195	14-Nov-02	Groundwater	2	µg/L	16.5	39	52 U	0.18 U	0.34 U	1.3 J	0.24 U	0.24 U	0.52 U	2.0 U	2.6 U
	EN-202	12-Nov-02	Groundwater	1	µg/L	6.3	2.6	0.090 U	0.090 U	0.17 U	0.15 J	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	EN-203	12-Nov-02	Groundwater	1	µg/L	0.12 U	9.2	0.10 J	0.090 U	0.17 U	0.54 J	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
EN04-3	EN-203	25-Aug-04	Groundwater		µg/L	< 1 U	5	< 1 U	< 1 U	< 1 U	0.7 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

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EN04-3	EN-203	07-Sep-04	Groundwater		µg/L	< 1 U	8	< 1 U	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	11-Oct-04	Groundwater	1	µg/L	< 1 U	8	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	02-Nov-04	Groundwater		µg/L	< 1 U	4	< 1 U	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	22-Nov-04	Groundwater	1	µg/L	< 1 U	8.2	< 1 U	< 1 U	< 1 U	1.3	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	06-Dec-04	Groundwater	1	µg/L	< 1 U	4.7	< 1 U	< 1 U	< 1 U	0.7 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	13-Dec-04	Groundwater	1	µg/L	< 1 U	6	< 1 U	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	19-Jan-05	Groundwater	1	µg/L	< 1 U	4.4	< 1 U	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	21-Feb-05	Groundwater		µg/L	< 1 U	8	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	18-Apr-05	Groundwater		µg/L	< 1 U	5	< 1 U	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	09-May-05	Groundwater	1	µg/L	< 1 U	4.9	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	12-Jul-05	Groundwater	1	µg/L	< 1 U	5	< 1 U	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	17-Aug-05	Groundwater	1	µg/L	< 1 U	5	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	12-Oct-05	Groundwater	1	µg/L	< 1 U	4	< 1 U	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	8-Nov-05	Groundwater		µg/L	< 1 U	**5**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-3	EN-203	8-Feb-06	Groundwater		µg/L	< 1 U	**6**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-204	12-Nov-02	Groundwater	10	µg/L	1.2 U	80	0.90 U	0.90 U	1.7 U	1.0 U	1.2 U	1.2 U	2.6 U	1.0 U	1.3 U
	EN-206	12-Nov-02	Groundwater	10	µg/L	1.2 U	95	6.0 J	0.90 U	1.7 U	1.0 U	1.2 U	1.2 U	2.6 U	1.0 U	1.3 U
EN04-16	EN-206	24-Aug-04	Groundwater		µg/L	5	68	7	< 1 U	< 1 U	4	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	08-Sep-04	Groundwater		µg/L	5	76	7	< 1 U	< 1 U	4	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	05-Nov-04	Groundwater		µg/L	4	82	7	< 1 U	< 1 U	3	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	23-Nov-04	Groundwater	1	µg/L	5.7	78	8.4	< 1 U	< 1 U	4.1	0.3 J	0.4 J	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	13-Dec-04	Groundwater	1	µg/L	5	89	7	< 1 U	< 1 U	3	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	18-Jan-05	Groundwater	1	µg/L	4.1	74	7.6	< 1 U	< 1 U	3.4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	22-Feb-05	Groundwater		µg/L	5	77	7	< 1 U	< 1 U	3	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	18-Apr-05	Groundwater		µg/L	4	82	5	0.2 J	< 1 U	3	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	12-May-05	Groundwater	1	µg/L	4.6	85	6.5	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	12-Jul-05	Groundwater	1	µg/L	6	60	6	< 1 U	< 1 U	3	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U
EN04-16	EN-206	17-Aug-05	Groundwater	2	µg/L	4.1	53	12	< 2 U	< 2 U	3	< 2 U	1.5 J	< 2 U	< 2 U	< 2 U
EN04-16	EN-206	11-Oct-05	Groundwater	2	µg/L	5	63	5	< 2 U	< 2 U	2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-16	EN-206	9-Nov-05	Groundwater		µg/L	4	60	4	< 2 U	< 2 U	2 J	< 0 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-16	EN-206	7-Feb-06	Groundwater		µg/L	**3**	**59**	3	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-20	EN-207	24-Aug-04	Groundwater		µg/L	< 1 U	15	0.9 J	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	13-Sep-04	Groundwater		µg/L	< 1 U	14	0.8 J	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	05-Nov-04	Groundwater		µg/L	< 1 U	15	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	13-Dec-04	Groundwater	1	µg/L	< 1 U	14	0.6 J	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	22-Nov-04	Groundwater	1	µg/L	< 1 U	14	0.6 J	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	19-Jan-05	Groundwater	1	µg/L	< 1 U	13	0.5 J	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	22-Feb-05	Groundwater		µg/L	< 1 U	17	0.8 J	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	18-Apr-05	Groundwater		µg/L	< 1 U	13	0.5 J	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	12-May-05	Groundwater	1	µg/L	< 1 U	15	0.76 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	12-Jul-05	Groundwater	1	µg/L	< 1 U	15	0.5 J	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	17-Aug-05	Groundwater	1	µg/L	< 1 U	11	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	11-Oct-05	Groundwater	1	µg/L	< 1 U	15	0.7 J	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

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SV Mon Point Designation	Sampling Point Designation	Sampling Date	Sample Type	Dilution Factor	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	EN-207	10-Nov-05	Groundwater		µg/L	< 1 U	**12** J	< 1.0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-20	EN-207	7-Feb-06	Groundwater		µg/L	< 1 U	**10**	< 1.0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-210	12-Nov-02	Groundwater	1	µg/L	0.1 U	38	0.28 J	0.1 U	0.17 U	0.73 J	0.12 U	0.12 U	0.26 U	0.1 U	0.13 U
EN04-12	EN-214A	24-Aug-04	Groundwater		µg/L	3	46	3	< 1 U	< 1 U	2	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U
EN04-12	EN-214A	08-Sep-04	Groundwater		µg/L	4	51	4	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-12	EN-214A	04-Nov-04	Groundwater	2	µg/L	2.8	47	2.8	< 2 U	< 2 U	1.8 J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	23-Nov-04	Groundwater	1	µg/L	5.5	59	5.8	< 1 U	< 1 U	3	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-12	EN-214A	13-Dec-04	Groundwater	1	µg/L	6	65	5	< 1 U	< 1 U	3	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-12	EN-214A	18-Jan-05	Groundwater	1	µg/L	4.8	55	5.3	< 1 U	< 1 U	2.4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-12	EN-214A	23-Feb-05	Groundwater		µg/L	4	62	4	< 2 U	< 2 U	2 J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	18-Apr-05	Groundwater		µg/L	4	59	5	< 2 U	< 2 U	2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	09-May-05	Groundwater	2	µg/L	3.4	64	15	< 2 U	< 2 U	1.6 J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	14-Jul-05	Groundwater	2	µg/L	3	55	5	< 2 U	< 2 U	2 J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	15-Aug-05	Groundwater	1	µg/L	2.7	36	5.1	< 2 U	< 2 U	1.2 J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	11-Oct-05	Groundwater	2	µg/L	3	50	5	< 2 U	< 2 U	2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	8-Nov-05	Groundwater		µg/L	**5**	**51**	**8**	< 2 U	< 2 U	2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	10-Jan-06	Groundwater		µg/L	**4**	**56**	**8**	< 2 U	< 2 U	**3**	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-12	EN-214A	7-Feb-06	Groundwater		µg/L	**5**	**53**	**10**	< 2 U	< 2 U	**2** J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-11	EN-215	12-Nov-02	Groundwater	20	µg/L	4.8 J	138	6.1 J	1.8 U	3.4 U	2.0 U	2.4 U	2.4 U	5.2 U	2.0 U	2.6 U
EN04-11	EN-215	25-Aug-04	Groundwater		µg/L	29	240	23	< 1 U	< 1 U	14	2	1	< 1 U	< 1 U	0.3 J
EN04-11	EN-215	08-Sep-04	Groundwater		µg/L	27	230	25	< 1 U	< 1 U	13	2	2	< 1 U	< 1 U	< 1 U
EN04-11	EN-215	11-Oct-04	Groundwater	1	µg/L	26	260	30	< 1 U	< 1 U	12	2	1	< 1 U	< 1 U	< 1 U
EN04-11	EN-215	02-Nov-04	Groundwater		µg/L	28	240	29	< 1 U	< 1 U	15	2	1	< 1 U	< 1 U	< 1 U
EN04-11	EN-215	05-Dec-04	Groundwater		µg/L	21	240	24	0.2 J	< 1 U	12	2.6	1.2	< 1 U	< 1 U	0.3 J
EN04-11	EN-215	08-May-05	Groundwater	1	µg/L	**7.7**	130	22	< 1 U	< 1 U	6.7	1.3	< 1 U	< 1 U	< 1 U	32
EN04-11	EN-215	09-May-05	Groundwater	1	µg/L	4.8	107	16.1	< 1 U	0.29 J	3.56	0.82 J	0.47 J	< 1 U	< 1 U	23.6
EN04-11	EN-215	18-Aug-05	Groundwater	1	µg/L	15	317	37	< 1 U	< 1 U	9.8	1.7	0.97 J	< 1 U	< 1 U	< 1 U
EN04-11	EN-215	9-Nov-05	Groundwater		µg/L	**15.5**	**364**	**36**	< 1 U	< 1 U	**10.5**	**1.8**	**1.19**	< 1 U	< 1 U	< 1 U
EN04-11	EN-215	10-Jan-06	Groundwater		µg/L	**14**	**273**	**36**	< 1 U	< 1 U	**9.4**	**1.48**	**1.09**	< 1 U	< 1 U	< 1 U
EN04-11	EN-215	07-Feb-06	Groundwater		µg/L	**13.5**	**203**	**36.4**	< 1 U	< 1 U	**9.1**	**0.52** J	**0.31** J	< 1 U	< 1 U	< 1 U
EN04-11	EN-215A	23-Aug-04	Groundwater	1	µg/L	10	350	28	< 1 U	< 1 U	15	2	1	< 1 U	< 1 U	< 1 U
EN04-11	EN-215A	07-Sep-04	Groundwater	1	µg/L	7	350	23	< 1 U	< 1 U	12	2	1 J	< 1 U	< 1 U	< 1 U
EN04-11	EN-215A	21-Sep-04	Groundwater	1	µg/L	6	300	24	< 1 U	< 1 U	11	2	1 J	< 1 U	< 1 U	< 1 U
EN04-11	EN-215A	22-Nov-04	Groundwater	1	µg/L	8.5	360	34	0.4 J	< 1 U	16	3.8	1.5	< 1 U	< 1 U	0.6 J
EN04-11	EN-215A	08-Dec-04	Groundwater	1	µg/L	8.6	360	32	< 1 U	< 1 U	15	4.1	1.4	< 1 U	< 1 U	0.5 J
EN04-11	EN-215A	13-Dec-04	Groundwater	1	µg/L	8	400	30	< 1 U	< 1 U	14	4	1	< 1 U	< 1 U	0.5 J
EN04-11	EN-215A	18-Jan-05	Groundwater	1	µg/L	6.8	360	26	0.2 J	< 1 U	14	3.8	1	< 1 U	< 1 U	< 1 U
EN04-11	EN-215A	23-Feb-05	Groundwater		µg/L	6	410	25	< 1 U	< 1 U	12	2	1	< 1 U	< 1 U	0.3 J
EN04-11	EN-215A	18-Apr-05	Groundwater		µg/L	5	400	23	0.4 J	< 1 U	12	3	1	< 1 U	< 1 U	0.4 J
EN04-11	EN-215A	09-May-05	Groundwater	1	µg/L	3.9	340	33	< 1 U	< 1 U	10	2	1	< 1 U	< 1 U	0.35 J
EN04-11	EN-215A	14-Jul-05	Groundwater	1	µg/L	4	320	26	< 1 U	< 1 U	12	2	1 J	< 1 U	< 1 U	0.2 J
EN04-11	EN-215A	15-Aug-05	Groundwater	1	µg/L	3.0	348	23	< 1 U	< 1 U	8.7	1.6	0.75 J	< 1 U	< 1 U	< 1 U
EN04-11	EN-215A	28-Oct-05	Groundwater	1	µg/L	3.0	320	25	< 1 U	< 1 U	11	1	0.8 J	< 1 U	< 1 U	1

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EN04-11	EN-215A	22-Nov-05	Groundwater		µg/L	**2.4**	**305**	**28**	< 1 U	< 1 U	8.5	1	0.49 J	< 1 U	< 1 U	< 1 U
EN04-11	EN-215A	10-Jan-06	Groundwater		µg/L	**2.3**	**267**	**26**	< 1 U	< 1 U	**7.7**	1	**0.71** J	< 1 U	< 1 U	< 1 U
EN04-11	EN-215A	7-Feb-06	Groundwater		µg/L	**0.9** J	**232**	**25**	< 1 U	< 1 U	**6.6**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	24-Aug-04	Groundwater		µg/L	< 1 U	8	1	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	13-Sep-04	Groundwater		µg/L	< 1 U	9	1	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	05-Nov-04	Groundwater		µg/L	< 1 U	8	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	13-Dec-04	Groundwater	1	µg/L	< 1 U	8	1	< 1 U	< 1 U	0.3 J	< 1 U	0.2 J	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	22-Nov-04	Groundwater	1	µg/L	< 1 U	8.1	1.1	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	17-Jan-05	Groundwater	1	µg/L	< 1 U	8.1	1.1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	23-Feb-05	Groundwater		µg/L	< 1 U	9	1	< 1 U	< 1 U	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	19-Apr-05	Groundwater		µg/L	< 1 U	8	0.9 J	< 1 U	< 1 U	0.3 J	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	10-May-05	Groundwater	1	µg/L	< 1 U	7	0.64 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	13-Jul-05	Groundwater	1	µg/L	< 1 U	7	0.8 J	< 1 U	< 1 U	0.2 J	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	15-Aug-05	Groundwater	1	µg/L	< 1 U	5.9	1.4	< 1 U	< 1 U	< 1 U	< 1 U	0.23 J	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	11-Oct-05	Groundwater	1	µg/L	< 1 U	9	1	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	7-Nov-05	Groundwater		µg/L	< 1 U	**6**	**1**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-18	EN-217A	6-Feb-06	Groundwater		µg/L	< 1 U	**6**	**1** J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-277	10-Jul-02	Groundwater	1	µg/L	8.8	110	63	1.0 U	1.0 U	70	4.1	28		1.0 U	4.4
	EN-278	12-Jun-02	Groundwater	10	µg/L	34	360	980	10 U	10 U	120	40	660		10 U	13
	EN-278	10-Jul-02	Groundwater	10	µg/L	40	380	910	10 U	10 U	120	40	610		10 U	15
	EN-278	11-Nov-02	Groundwater	200	µg/L	24 U	342	2627	18 U	34 U	66 J	24 U	699	52 U	20 U	26 U
	EN-279	12-Jun-02	Groundwater	1	µg/L	21	170 E	130	1.0 U	1.0 U	46	8.6	56		1.0 U	7.3
	EN-279	12-Jun-02	Groundwater	2	µg/L	20	180	150	2.0 U	2.0 U	49	9.3	57		2.0 U	6.4
	EN-279	10-Jul-02	Groundwater	2	µg/L	28	220	160	2.0 U	2.0 U	59	13	63		2.0 U	10
	EN-279	11-Nov-02	Groundwater	100	µg/L	50 J	482	1001	9.0 U	17 U	51 J	13 J	854	26 U	10 U	13 U
EN04-9	EN-279	13-Dec-04	Groundwater	1	µg/L	< 1 U	1	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-9	EN-279	17-Jan-05	Groundwater	1	µg/L	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EN-281	12-Jun-02	Groundwater	1	µg/L	1.0 U	1.0 U	680 E	6.7	300 E	1.0 U	NR	1.0 U	1.0 U	1.0 U	1.0 U
	EN-281	12-Jun-02	Groundwater	10	µg/L	10 U	10 U	1,200	10 U	400	10 U	1.3	10 U		10 U	10 U
	EN-281	10-Jul-02	Groundwater	10	µg/L	10 U	10 U	1,300	10 U	430	10 U	10 U	10 U	10 U	10 U	10 U
	EN-281	11-Nov-02	Groundwater	20	µg/L	2.4 U	1.8 U	707	1.8 U	376	2.0 U	2.4 U	2.4 U	5.2 U	10 U	10 U
	EN-282	12-Jun-02	Groundwater	1	µg/L	1.0 U	1.0 U	700 E	8.1	250 E	1.0 U	NR	1.0 U	1 U	1.0 U	1.0 U
	EN-282	12-Jun-02	Groundwater	10	µg/L	10 U	10 U	1,000	10 U	280	10 U	1.3	10 U		10 U	10 U
	EN-282	10-Jul-02	Groundwater	10	µg/L	10 U	10 U	1,100	10 U	360	10 U	10 U	10 U	10 U	10 U	10 U
	EN-282	11-Nov-02	Groundwater	20	µg/L	2.4 U	1.8 U	708	1.8 U	355	2.0 U	2.4 U	2.4 U	5.2 U	2.0 U	2.6 U
	EN-283	12-Jun-02	Groundwater	1	µg/L	5.9	21	13	1.0 U	1.0	1.8	1.0 U	1.0 U		1.0 U	1.0 U
	EN-283	10-Jul-02	Groundwater	1	µg/L	10	25	9.0	1.0 U	1.0 U	2.3	1.0 U	1.0 U		1.0 U	1.0 U
	EN-283	11-Nov-02	Groundwater	1	µg/L	9.2	19	3.8	0.090 U	0.17 U	1.4	0.12 U	0.45 J	0.26 U	0.1 U	0.13 U
	EN-284	12-Jun-02	Groundwater	1	µg/L	25	350 E	1,100 E	30	1 U	160	NR	290		1.0 U	10
	EN-284	12-Jun-02	Groundwater	20	µg/L	20 U	540	2,000	20 U	20 U	180	39	370		20 U	20 U
	EN-284	10-Jul-02	Groundwater	20	µg/L	27	680	2,400	20 U	20 U	230	37	430		20 U	20 U
	EN284	11-Nov-02	Groundwater	200	µg/L	24 U	993	1,900	18 U	34 U	96 J	24 U	300	52 U	20 U	26 U
	EN-284 DUP	12-Jun-02	Groundwater	1	µg/L	24	350 E	1,200 E	21	1.0 U	160	NR	290		1.0 U	12

Table B.2
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SV Mon Point Designation	Sampling Point Designation	Sampling Date	Sample Type	Dilution Factor	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
	EN-284 DUP	12-Jun-02	Groundwater	20	µg/L	20 U	520	2,000	20 U	20 U	180	42	420		20 U	20 U
	EN-284 DUP	10-Jul-02	Groundwater	20	µg/L	23	570	2,000	20 U	20 U	190	30	350		20 U	20 U
EN04-26	EN-304	24-Aug-04	Groundwater		µg/L	< 1 U	15	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	09-Sep-04	Groundwater		µg/L	< 1 U	14	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	04-Nov-04	Groundwater		µg/L	< 1 U	16	< 1 U	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	23-Nov-04	Groundwater	1	µg/L	< 1 U	15	< 1 U	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	13-Dec-04	Groundwater	1	µg/L	< 1 U	15	< 1 U	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	18-Jan-05	Groundwater	1	µg/L	< 1 U	13	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	23-Feb-05	Groundwater		µg/L	< 1 U	16	< 1 U	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	19-Apr-05	Groundwater		µg/L	< 1 U	11	< 1 U	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	11-May-05	Groundwater	1	µg/L	< 1 U	11	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	13-Jul-05	Groundwater	1	µg/L	< 1 U	10	< 1 U	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	15-Aug-05	Groundwater	1	µg/L	< 1 U	7.8	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-26	EN-304	11-Oct-05	Groundwater	1	µg/L	< 1 U	12	< 1 U	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	0.9 J
EN04-26	EN-304	7-Feb-06	Groundwater	1	µg/L	< 1 U	**9.7**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-7	EN-311	24-Aug-04	Groundwater		µg/L	< 1 U	47	2	< 1 U	< 1 U	2	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U
EN04-7	EN-311	05-Nov-04	Groundwater		µg/L	< 1 U	70	3	< 1 U	< 1 U	3	0.5 J	0.4 J	< 1 U	< 1 U	< 1 U
EN04-7	EN-311	23-Nov-04	Groundwater	1	µg/L	< 1 U	65	3.4	< 1 U	< 1 U	3.3	0.6 J	0.4 J	< 1 U	< 1 U	0.8 J
EN04-7	EN-311	13-Dec-04	Groundwater	1	µg/L	< 1 U	44	1	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-7	EN-311	17-Jan-05	Groundwater	1	µg/L	< 1 U	37	1.3	< 1 U	< 1 U	1.5	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-7	EN-311	23-Feb-05	Groundwater		µg/L	< 2 U	72	2	< 2 U	< 2 U	3	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-7	EN-311	18-Apr-05	Groundwater		µg/L	< 2 U	48	1 J	< 2 U	< 2 U	2 J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-7	EN-311	10-May-05	Groundwater	2	µg/L	< 2 U	55	2.5	< 2 U	< 2 U	2.2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-7	EN-311	10-Jul-05	Groundwater	1	µg/L	< 1 U	34	1	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-7	EN-311	07-Nov-05	Groundwater		µg/L	< 2 U	**21.2**	< 21 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-7	EN-311	07-Feb-06	Groundwater		µg/L	< 2 U	**30.7**	**0.52** J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-22	EN-393	17-Aug-04	Groundwater		µg/L	< 10 U	15	4 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-22	EN-393	02-Sep-04	Groundwater		µg/L	< 10 U	16	5 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-22	EN-393	04-Nov-04	Groundwater		µg/L	0.6 J	17	4	0.4 J	5	< 1 U	0.2 J	0.4 J	< 1 U	< 1 U	< 1 U
EN04-22	EN-393	21-Nov-04	Groundwater	1	µg/L	0.7 J	16	5.1	0.4 J	4.5	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	0.5 J
EN04-22	EN-393	07-Dec-04	Groundwater	10	µg/L	< 10 U	14	4.3 J	< 10 U	3.6 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-22	EN-393	19-Jan-05	Groundwater	10	µg/L	< 10 U	14	4.7 J	< 10 U	3.4 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-22	EN-393	21-Feb-05	Groundwater		µg/L	0.6 J	20	5	0.4 J	4	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-22	EN-393	19-Apr-05	Groundwater		µg/L	< 1 U	16	3	0.5 J	5	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U
EN04-22	EN-393	11-May-05	Groundwater	20	µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
EN04-22	EN-393	10-Jul-05	Groundwater	20	µg/L	< 20 U	12 J	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
EN04-22	EN-393	18-Aug-05	Groundwater	1	µg/L	< 20 U	7 J	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
EN04-22	EN-393	11-Oct-05	Groundwater	20	µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
EN04-22	EN-393	7-Nov-05	Groundwater		µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
EN04-22	EN-393	8-Feb-06	Groundwater		µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
EN04-25	EN-395	17-Aug-04	Groundwater		µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
EN04-25	EN-395	02-Sep-04	Groundwater		µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	04-Nov-04	Groundwater		µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U

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SV Mon Point Designation	Sampling Point Designation	Sampling Date	Sample Type	Dilution Factor	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	EN-395	23-Nov-04	Groundwater	10	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	07-Dec-04	Groundwater	10	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	19-Jan-05	Groundwater	10	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	21-Feb-05	Groundwater		µg/L	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-25	EN-395	19-Apr-05	Groundwater		µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	11-May-05	Groundwater	10	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	10-Jul-05	Groundwater	10	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	18-Aug-05	Groundwater	10	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	11-Oct-05	Groundwater	10	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	7-Nov-05	Groundwater		µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-25	EN-395	8-Feb-06	Groundwater		µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-17	EN-401	24-Aug-04	Groundwater		µg/L	0.4 J	220	11	< 1 U	< 1 U	9	0.9 J	0.7 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	09-Sep-04	Groundwater		µg/L	< 1 U	220	11	< 1 U	< 1 U	9	0.8 J	0.6 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	05-Nov-04	Groundwater		µg/L	< 1 U	210	9	< 1 U	< 1 U	7	0.7 J	0.6 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	22-Nov-04	Groundwater	1	µg/L	< 1 U	220	11	< 1 U	< 1 U	9	1.1	< 1 U	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	13-Dec-04	Groundwater	1	µg/L	< 1 U	210	9	< 1 U	< 1 U	8	0.9 J	0.6 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	17-Jan-05	Groundwater	1	µg/L	< 1 U	230	12	< 1 U	< 1 U	8.9	0.9 J	0.7 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	21-Feb-05	Groundwater		µg/L	< 1 U	260	12	< 1 U	< 1 U	9	0.9 J	0.7 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	20-Apr-05	Groundwater		µg/L	0.7 J	263	12.1	0.37 J	< 1 U	8.7	0.86 J	0.63 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	08-May-05	Groundwater	1	µg/L	< 1 U	250	11	< 1 U	< 1 U	10	0.67 J	0.69 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	10-May-05	Groundwater	1	µg/L	< 1 U	230	13	< 1 U	< 1 U	8.4	0.94 J	0.69 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	11-Jul-05	Groundwater	1	µg/L	0.47 J	240	10	< 1 U	< 1 U	6.7	0.9 J	0.69 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	01-Sep-05	Groundwater	1	µg/L	< 1 U	151	11.4	< 1 U	< 1 U	8.2	0.59 J	0.45 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	05-Oct-05	Groundwater	1	µg/L	0.68 J	213	15.1	< 1 U	< 1 U	9.1	0.65 J	0.58 J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	07-Nov-05	Groundwater		µg/L	< 1 U	**201**	**11.2**	< 1 U	< 1 U	**6.4**	**0.47** J	**0.36** J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	08-Dec-05	Groundwater		µg/L	< 1 U	**261**	**10.3**	< 1 U	< 1 U	**6.5**	**0.42** J	**0.37** J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	10-Jan-06	Groundwater		µg/L	**0.37** J	**219**	**10.2**	< 1 U	< 1 U	**6.7**	**0.42** J	**0.43** J	< 1 U	< 1 U	< 1 U
EN04-17	EN-401	06-Feb-06	Groundwater		µg/L	< 1 U	**170**	**10.5**	< 1 U	< 1 U	**5.8**	**0.35** J	**0.36** J	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	13-Sep-04	Groundwater		µg/L	< 1 U	18	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	04-Nov-04	Groundwater		µg/L	< 1 U	12	< 1 U	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	22-Nov-04	Groundwater	1	µg/L	< 1 U	12	< 1 U	< 1 U	< 1 U	0.7 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	13-Dec-04	Groundwater	1	µg/L	< 1 U	9	< 1 U	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	18-Jan-05	Groundwater	1	µg/L	< 1 U	17	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	22-Feb-05	Groundwater		µg/L	< 1 U	18	< 1 U	< 1 U	< 1 U	1 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	18-Apr-05	Groundwater		µg/L	< 1 U	18	< 1 U	< 1 U	< 1 U	1 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	10-Jul-05	Groundwater	1	µg/L	< 1 U	15	< 1 U	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	11-Oct-05	Groundwater	1	µg/L	< 1 U	15	< 1 U	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-27	EN-417A	08-Feb-06	Groundwater		µg/L	< 1 U	**6.9**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	24-Aug-04	Groundwater		µg/L	< 1 U	14	0.9 J	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	09-Sep-04	Groundwater		µg/L	< 1 U	19	1	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	05-Nov-04	Groundwater		µg/L	< 1 U	19	1	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	21-Nov-04	Groundwater	1	µg/L	< 1 U	19	1.2	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	1.7
EN04-19	EN-426	13-Dec-04	Groundwater	1	µg/L	< 1 U	21	1	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

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EN04-19	EN-426	17-Jan-05	Groundwater	1	µg/L	< 1 U	20	1.3	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	22-Feb-05	Groundwater		µg/L	< 1 U	21	0.9 J	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	19-Apr-05	Groundwater		µg/L	< 1 U	16	0.7 J	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	12-May-05	Groundwater	1	µg/L	< 1 U	13	0.79 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	13-Jul-05	Groundwater	1	µg/L	< 1 U	17	0.8 J	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	11-Oct-05	Groundwater	1	µg/L	< 1 U	16	1 J	< 1 U	< 1 U	0.7 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	07-Nov-05	Groundwater		µg/L	< 1 U	**13.9**	**1.01**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-19	EN-426	06-Feb-06	Groundwater		µg/L	< 1 U	**16.2**	**0.82 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-8	EN-430	24-Aug-04	Groundwater		µg/L	5	190	120	0.4 J	< 1 U	60	5	270	0.7 J	0.2 J	2
EN04-8	EN-430	08-Sep-04	Groundwater		µg/L	6	220	150	0.5 J	< 1 U	67	7	350	1	0.3 J	2
EN04-8	EN-430	05-Nov-04	Groundwater		µg/L	5	180	150	0.4 J	< 1 U	50	4	200	< 1 U	< 1 U	2
EN04-8	EN-430	23-Nov-04	Groundwater	1	µg/L	5.4	190	120	0.4 J	< 1 U	42	5.3	130	< 1 U	< 1 U	1.5
EN04-8	EN-430	13-Dec-04	Groundwater	1	µg/L	3	110	38	< 1 U	0.5 J	17	1	39	< 1 U	< 1 U	< 1 U
EN04-8	EN-430	17-Jan-05	Groundwater	1	µg/L	3.4	120	88	< 1 U	< 1 U	24	1.7	70	< 1 U	< 1 U	0.4 J
EN04-8	EN-430	23-Feb-05	Groundwater		µg/L	3	130	51	< 1 U	< 1 U	23	2	61	< 1 U	< 1 U	0.6 J
EN04-8	EN-430	18-Apr-05	Groundwater		µg/L	3	100	43	1	< 1 U	24	1	57	< 1 U	< 1 U	0.8 J
EN04-8	EN-430	09-May-05	Groundwater	1	µg/L	2.3	110	75	< 1 U	< 1 U	28	2.3	61	< 1 U	< 1 U	0.91 J
EN04-8	EN-430	12-Jul-05	Groundwater	1	µg/L	2	70	43	< 1 U	< 1 U	15	0.8 J	32	< 1 U	< 1 U	< 1 U
EN04-8	EN-430	12-Oct-05	Groundwater	2	µg/L	1 J	51	25	< 2 U	< 2 U	10	< 2 U	20	< 2 U	< 2 U	< 2 U
EN04-8	EN-430	06-Nov-05	Groundwater		µg/L	**1.44 J**	**71.9**	**44.9**	< 2 U	< 2 U	**12.4**	< 2 U	**27.5**	< 2 U	< 2 U	< 2 U
EN04-8	EN-430	05-Feb-06	Groundwater		µg/L	**1.49**	**88.8**	**48.3**	< 1 U	< 1 U	**17.6**	**0.76 J**	**27.9**	< 1 U	< 1 U	**0.78 J**
EN04-29	EN-437	25-Aug-04	Groundwater		µg/L	0.6 J	100	5	< 1 U	< 1 U	7	0.7 J	0.7 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	09-Sep-04	Groundwater		µg/L	0.4 J	110	5	< 1 U	< 1 U	8	1 J	0.9 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	04-Nov-04	Groundwater		µg/L	< 1 U	85	4	< 1 U	< 1 U	6	0.4 J	0.8 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	21-Nov-04	Groundwater	1	µg/L	< 1 U	95	3.8	< 1 U	< 1 U	6.1	1.1	1	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	14-Dec-04	Groundwater	1	µg/L	< 1 U	90	3	< 1 U	< 1 U	5	1	0.9 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	18-Jan-05	Groundwater	1	µg/L	< 1 U	79	3.2	< 1 U	< 1 U	4.6	0.5 J	0.8 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	22-Feb-05	Groundwater		µg/L	< 1 U	74	3	< 1 U	< 1 U	5	0.6 J	0.8 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	19-Apr-05	Groundwater		µg/L	< 1 U	74	3	< 1 U	< 1 U	5	0.6 J	0.9 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	08-May-05	Groundwater	1	µg/L	< 1 U	72	2.5	< 1 U	< 1 U	3.5	< 1 U	0.31 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	13-Jul-05	Groundwater	1	µg/L	< 1 U	67	3	< 1 U	< 1 U	5	0.8 J	1 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	16-Aug-05	Groundwater	1	µg/L	< 1 U	69 J	2.6	< 1 U	< 1 U	3.4	0.51 J	0.73 J	< 1 U	< 1 U	< 1 U
EN04-29	EN-437	12-Oct-05	Groundwater	2	µg/L	< 2 U	60	3	< 2 U	< 2 U	4	0.8 J	1 J	< 2 U	< 2 U	< 2 U
EN04-29	EN-437	6-Nov-05	Groundwater		µg/L	< 2 U	**56.2**	**3**	< 2 U	< 2 U	**3**	< 2 U	**0.8 J**	< 2 U	< 2 U	**2.89**
EN04-29	EN-437	5-Feb-06	Groundwater		µg/L	< 2 U	**53**	**2 J**	< 2 U	< 2 U	**3**	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-30	EN-438	24-Aug-04	Groundwater		µg/L	19	240	260	0.2 J	< 1 U	44	6	58	< 1 U	< 1 U	< 1 U
EN04-30	EN-438	13-Sep-04	Groundwater		µg/L	19	270	250	0.4 J	< 1 U	47	6	49	< 1 U	< 1 U	3
EN04-30	EN-438	05-Nov-04	Groundwater		µg/L	15	180	140	< 1 U	< 1 U	33	5	32	< 1 U	< 1 U	2
EN04-30	EN-438	21-Nov-04	Groundwater	1	µg/L	16	190	170	0.5 J	< 1 U	40	9.8	40	< 1 U	< 1 U	3.1
EN04-30	EN-438	13-Dec-04	Groundwater	1	µg/L	18	220	170	0.5 J	0.5 J	37	11	38	< 1 U	< 1 U	4
EN04-30	EN-438	17-Jan-05	Groundwater	1	µg/L	18	250	240	0.4 J	< 1 U	48	8.6	42	< 1 U	< 1 U	4.3
EN04-30	EN-438	21-Feb-05	Groundwater		µg/L	14	260	92	0.3 J	< 1 U	31	6	21	< 1 U	< 1 U	3
EN04-30	EN-438	19-Apr-05	Groundwater		µg/L	12	210	22	< 1 U	< 1 U	13	3	4	< 1 U	< 1 U	1

Table B.2
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SV Mon Point Designation	Sampling Point Designation	Sampling Date	Sample Type	Dilution Factor	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	EN-438	11-May-05	Groundwater	1	µg/L	8.6	200	14	< 1 U	< 1 U	7.3	1.2	1.6	< 1 U	< 1 U	0.69 J
EN04-30	EN-438	13-Jul-05	Groundwater	1	µg/L	13	190	11	< 1 U	< 1 U	10	1	2	< 1 U	< 1 U	1 J
EN04-30	EN-438	17-Aug-05	Groundwater	1	µg/L	11	173	13	< 1 U	< 1 U	8.2	1.2	1.8	< 1 U	< 1 U	0.76 J
EN04-30	EN-438	2-Sep-05	Groundwater	1	µg/L	16	246	23	< 1 U	< 1 U	15.3	1.7	3.2	< 1 U	< 1 U	1.33
EN04-30	EN-438	12-Oct-05	Groundwater	1	µg/L	25	350	39	< 1 U	< 1 U	27	3	4	< 1 U	< 1 U	3
EN04-30	EN-438	8-Nov-05	Groundwater		µg/L	**24 J**	**354**	**31 J**	**0.41 J**	< 1 U	**19 J**	**3 J**	**4 J**	< 1 U	< 1 U	**2.99 J**
EN04-30	EN-438	7-Dec-05	Groundwater		µg/L	**25**	**314 J**	**72 J**	< 1 U	< 1 U	**31.6**	**5**	**10**	< 1 U	< 1 U	**3.58**
EN04-30	EN-438	12-Jan-06	Groundwater		µg/L	**24**	**305**	**65**	< 10 U	< 10 U	**23.9**	**2 J**	**6 J**	< 10 U	< 10 U	< 10 U
EN04-30	EN-438	7-Feb-06	Groundwater		µg/L	**33**	**484**	**137**	< 1 U	< 1 U	**52.7**	**10**	**23**	< 1 U	< 1 U	**6.9**
EN04-13	EN-449	24-Aug-04	Groundwater		µg/L	< 1 U	180	2	< 1 U	< 1 U	9	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	09-Sep-04	Groundwater		µg/L	< 1 U	210	2	< 1 U	< 1 U	9	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	05-Nov-04	Groundwater		µg/L	< 1 U	190	2	< 1 U	< 1 U	8	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	23-Nov-04	Groundwater	1	µg/L	< 1 U	210	2.5	< 1 U	< 1 U	9.9	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	14-Dec-04	Groundwater	1	µg/L	< 1 U	220	2	< 1 U	< 1 U	8	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	17-Jan-05	Groundwater	1	µg/L	< 1 U	210	2.1	< 1 U	< 1 U	8	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	21-Feb-05	Groundwater		µg/L	< 1 U	240	2	< 1 U	< 1 U	9	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	19-Apr-05	Groundwater		µg/L	< 1 U	190	2	< 1 U	< 1 U	7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	12-May-05	Groundwater	10	µg/L	< 10 U	140	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
EN04-13	EN-449	13-Jul-05	Groundwater	1	µg/L	< 1 U	170	1	< 1 U	< 1 U	8	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	16-Aug-05	Groundwater	1	µg/L	< 1 U	189	1.6	< 1 U	< 1 U	6.1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	12-Oct-05	Groundwater	1	µg/L	< 1 U	160	1	< 1 U	< 1 U	6	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	12-Oct-05	Groundwater	1	µg/L	< 1 U	150	1	< 1 U	< 1 U	6	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	8-Nov-05	Groundwater		µg/L	< 1 U	**145**	**0.7 J**	< 1 U	< 1 U	**5**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	11-Jan-06	Groundwater		µg/L	< 1 U	**162**	**1.36**	< 1 U	< 1 U	**7**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-13	EN-449	8-Feb-06	Groundwater		µg/L	< 1 U	**156**	**0.62 J**	< 1 U	< 1 U	**5**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-2	EN-450	24-Aug-04	Groundwater		µg/L	12	96	37	< 1 U	< 1 U	13	1	7	< 1 U	< 1 U	2
EN04-2	EN-450	09-Sep-04	Groundwater		µg/L	10	120	40	< 1 U	< 1 U	11	1	6	< 1 U	< 1 U	1 J
EN04-2	EN-450	05-Nov-04	Groundwater		µg/L	19	170	83	0.2 J	< 1 U	18	2	12	< 1 U	< 1 U	2
EN04-2	EN-450	23-Nov-04	Groundwater	1	µg/L	8.8	96	30	< 1 U	< 1 U	10	1.2	4	< 1 U	< 1 U	1.1
EN04-2	EN-450	14-Dec-04	Groundwater	1	µg/L	12	120	39	0.2 J	< 1 U	12	2	6	< 1 U	< 1 U	1
EN04-2	EN-450	18-Jan-05	Groundwater	1	µg/L	12	100	37	< 1 U	< 1 U	12	1.3	6.2	< 1 U	< 1 U	1.4
EN04-2	EN-450	23-Feb-05	Groundwater		µg/L	< 1 U	26	0.7 J	< 1 U	< 1 U	3	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-2	EN-450	19-Apr-05	Groundwater		µg/L	10	100	26	0.7 J	< 1 U	10	1 J	4	< 1 U	< 1 U	1
EN04-2	EN-450	08-May-05	Groundwater	1	µg/L	8.5	100	21	< 1 U	< 1 U	6.6	0.67 J	2.3	< 1 U	< 1 U	0.73 J
EN04-2	EN-450	12-Jul-05	Groundwater	1	µg/L	11	75	11	< 1 U	< 1 U	7	0.5 J	2	< 1 U	< 1 U	0.8 J
EN04-2	EN-450	17-Aug-05	Groundwater	1	µg/L	13	119	21	< 1 U	< 1 U	8.5	0.66 J	2.5	< 1 U	< 1 U	0.96 J
EN04-2	EN-450	2-Sep-05	Groundwater	1	µg/L	13	123	21	< 1 U	< 1 U	9.3	0.61 J	2.4	< 1 U	< 1 U	0.8 J
EN04-2	EN-450	12-Oct-05	Groundwater	1	µg/L	19	130	36	< 1 U	< 1 U	16	2	7	< 1 U	< 1 U	2
EN04-2	EN-450	10-Nov-05	Groundwater		µg/L	**9**	**77.6 J**	**18**	< 1 U	< 1 U	**5**	< 1 U	**2**	< 1 U	< 1 U	< 1 U
EN04-2	EN-450	7-Dec-05	Groundwater		µg/L	**11**	**99.8 J**	**34**	< 1 U	< 1 U	**9**	**1.14**	**5**	< 1 U	< 1 U	1.04
EN04-2	EN-450	11-Jan-06	Groundwater		µg/L	**15**	**126**	**51**	< 1 U	< 1 U	**15**	**2.5**	**9**	< 1 U	< 1 U	**2.14**
EN04-2	EN-450	9-Feb-06	Groundwater		µg/L	**13**	**99.1**	**39**	< 1 U	< 1 U	**13**	**1.51**	**7**	< 1 U	< 1 U	**1.94**
EN04-31	EN-453	25-Aug-04	Groundwater		µg/L	< 1 U	15	0.5 J	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

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EN04-31	EN-453	08-Sep-04	Groundwater		µg/L	< 1 U	18	0.7 J	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	05-Nov-04	Groundwater		µg/L	< 1 U	19	0.9 J	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	23-Nov-04	Groundwater	1	µg/L	< 1 U	19	0.8 J	< 1 U	< 1 U	1.1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	14-Dec-04	Groundwater	1	µg/L	< 1 U	22	0.8 J	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	18-Jan-05	Groundwater	1	µg/L	1 J	23	1 J	< 1 U	< 1 U	16	0.5 J	0.3 J	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	22-Feb-05	Groundwater		µg/L	10	92	27	< 1 U	< 1 U	11	1	4	< 1 U	< 1 U	1
EN04-31	EN-453	19-Apr-05	Groundwater		µg/L	< 1 U	21	0.5 J	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	08-May-05	Groundwater	1	µg/L	< 1 U	22	< 1 U	< 1 U	< 1 U	0.94 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	12-Jul-05	Groundwater	1	µg/L	< 1 U	16	< 1 U	< 1 U	< 1 U	1 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	17-Aug-05	Groundwater	1	µg/L	< 1 U	15	< 1 U	< 1 U	< 1 U	0.75 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	12-Oct-05	Groundwater	1	µg/L	< 1 U	21	0.5 J	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	9-Nov-05	Groundwater		µg/L	< 1 U	**19.6**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	11-Jan-06	Groundwater		µg/L	< 1 U	**22.5**	**0.4** J	< 1 U	< 1 U	**0.99** J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-31	EN-453	8-Feb-06	Groundwater		µg/L	< 1 U	**18.9**	< 1 U	< 1 U	< 1 U	**0.6** J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	23-Aug-04	Groundwater		µg/L	< 1 U	24	< 1 U	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	07-Sep-04	Groundwater		µg/L	< 1 U	17	< 1 U	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	23-Nov-04	Groundwater	1	µg/L	< 1 U	20	< 1 U	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	14-Dec-04	Groundwater	1	µg/L	< 1 U	17	< 1 U	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	17-Jan-05	Groundwater	1	µg/L	< 1 U	14	< 1 U	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	21-Feb-05	Groundwater		µg/L	< 1 U	15	< 1 U	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	19-Apr-05	Groundwater		µg/L	< 1 U	16	< 1 U	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	12-May-05	Groundwater	1	µg/L	< 1 U	18	< 1 U	< 1 U	< 1 U	0.65 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	14-Jul-05	Groundwater	1	µg/L	< 1 U	11	< 1 U	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	16-Aug-05	Groundwater	1	µg/L	< 1 U	13	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	12-Oct-05	Groundwater	1	µg/L	< 1 U	16	< 1 U	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	7-Nov-05	Groundwater		µg/L	< 1 U	**11** J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	10-Jan-06	Groundwater		µg/L	< 1 U	**11**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-32	EN-457A	8-Feb-06	Groundwater		µg/L	< 1 U	**12**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	18-Aug-04	Groundwater		µg/L	< 1 U	7	0.4 J	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	07-Sep-04	Groundwater		µg/L	< 1 U	5	< 1 U	< 1 U	< 1 U	0.9 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	05-Nov-04	Groundwater		µg/L	< 1 U	6	< 1 U	< 1 U	< 1 U	0.7 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	23-Nov-04	Groundwater	1	µg/L	< 1 U	4	< 1 U	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	14-Dec-04	Groundwater	1	µg/L	< 1 U	19	0.3 J	< 1 U	< 1 U	0.8 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	17-Jan-05	Groundwater	1	µg/L	< 1 U	16	< 1 U	< 1 U	< 1 U	0.7 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	21-Feb-05	Groundwater		µg/L	< 1 U	5	< 1 U	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	19-Apr-05	Groundwater		µg/L	< 1 U	9	< 1 U	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	10-May-05	Groundwater	1	µg/L	< 1 U	5.4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	12-Jul-05	Groundwater	1	µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	0.3 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	11-Oct-05	Groundwater	1	µg/L	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	07-Nov-05	Groundwater		µg/L	< 1 U	**7.3**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-5	EN-459A	07-Feb-06	Groundwater		µg/L	< 1 U	**8.9**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-14	EN-462	24-Aug-04	Groundwater		µg/L	< 1 U	57	0.6 J	< 1 U	< 1 U	3	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-14	EN-462	08-Sep-04	Groundwater		µg/L	< 1 U	60	0.6 J	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

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EN04-14	EN-462	05-Nov-04	Groundwater		µg/L	< 1 U	58	0.6 J	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-14	EN-462	22-Nov-04	Groundwater	1	µg/L	< 1 U	58	0.7 J	< 1 U	< 1 U	2.8	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-14	EN-462	14-Dec-04	Groundwater	1	µg/L	< 1 U	62	0.5 J	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-14	EN-462	17-Jan-05	Groundwater	1	µg/L	< 1 U	54	0.5 J	< 1 U	< 1 U	2.3	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-14	EN-462	21-Feb-05	Groundwater		µg/L	< 2 U	61	< 2 U	< 2 U	< 2 U	2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-14	EN-462	19-Apr-05	Groundwater		µg/L	< 2 U	40	< 2 U	< 2 U	< 2 U	1 J	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-14	EN-462	10-May-05	Groundwater	2	µg/L	< 2 U	57	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-14	EN-462	10-Jul-05	Groundwater	1	µg/L	< 1 U	50	0.5 J	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-14	EN-462	11-Oct-05	Groundwater	2	µg/L	< 2 U	59	0.5 J	< 2 U	< 2 U	2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-14	EN-462	07-Nov-05	Groundwater		µg/L	< 2 U	**41.1**	< 2 U	< 2 U	< 2 U	**1.27** J	< 1 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-14	EN-462	07-Feb-06	Groundwater		µg/L	< 2 U	**43.5**	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
EN04-21	EN-468	21-Oct-04	Groundwater	1	µg/L	< 1 U	13	0.8 J	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	03-Nov-04	Groundwater		µg/L	0.4 J	15	1 J	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	3
EN04-21	EN-468	23-Nov-04	Groundwater	1	µg/L	< 1 U	16	1 J	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	01-Dec-04	Groundwater	1	µg/L	< 1 U	15	1 J	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	14-Dec-04	Groundwater	1	µg/L	< 1 U	18	0.9 J	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	22-Feb-05	Groundwater		µg/L	< 1 U	17	0.8 J	< 1 U	< 1 U	0.5 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	19-Apr-05	Groundwater		µg/L	< 1 U	8	0.2 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	08-May-05	Groundwater	1	µg/L	< 1 U	14	0.74 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	10-May-05	Groundwater	1	µg/L	< 1 U	12	0.71 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	12-Jul-05	Groundwater	1	µg/L	< 1 U	13	0.6 J	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	15-Aug-05	Groundwater	1	µg/L	< 1 U	9.4	0.87 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	11-Oct-05	Groundwater	1	µg/L	< 1 U	12	0.7 J	< 1 U	< 1 U	0.4 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	7-Nov-05	Groundwater		µg/L	< 1 U	**8.9**	**0.48 J**	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U
EN04-21	EN-468	6-Feb-06	Groundwater		µg/L	< 1 U	**9.7**	**0.28** J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
	EQ Blank	12-Jun-02	Groundwater	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	EQ Blank	13-Jun-02	Groundwater	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	EQ Blank	10-Jul-02	Groundwater	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trip Blank	12-Jun-02	Groundwater	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trip Blank	13-Jun-02	Groundwater	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trip Blank	10-Jul-02	Groundwater	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trip Blank	11-Nov-02	Groundwater	1	µg/L	0.12 U	0.090 U	0.090 U	0.090 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	Trip Blank	12-Nov-02	Groundwater	1	µg/L	0.12 U	0.090 U	0.090 U	0.090 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U
	Trip Blank	14-Nov-02	Groundwater	1	µg/L	0.12 U	0.090 U	0.090 U	0.090 U	0.17 U	0.10 U	0.12 U	0.12 U	0.26 U	0.10 U	0.13 U

Notes:

1. This table provides groundwater quality data for samples collected during the Groundwater Vapor Project time frame. The groundwater monitoring data were obtained by SHA through transfer of electronic files from Groundwater Sciences Corporation (GSC) of Harrisburg, Pennsylvania. We understand that the sampling was conducted either by GSC or IBM on the dates noted using State-approved techniques. The samples were analyzed at the IBM Hudson Valley Environmental Laboratory. Values are reported in µg/L.

2. Rows highlighted in green indicate data for recent months of sampling. The data reported from the laboratory are subject to the following flags: U - compound or analyte not detected above the practical quantitation limit posted in the table. J- denotes an estimated value below the practical quantitation limit.

APPENDIX B.2

FIELD SAMPLING RECORDS

Print Date: Thursday, March 30, 2006 10:43:50 AM

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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Micro FID J/S Pine 04212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-32S	EN04-32S	EN04-32D	EN04-4S	EN04-4D
Sample ID	EN0432S121205	DU9332121205	EN0432D121205	EN044S121205	EN044D121205
Duplicate Designation	DU9332121205	EN0432S121205			
Sample Date	12/12/2005	12/12/2005	12/12/2005	12/12/2005	12/12/2005
Sample Collection Depth (ft bgs)	8	8	18	8	17
Ambient Air Temp (F)	25	25	25	23	23
Weather Conditions	Bright, breezy	Bright, breezy	Bright, breezy	Bright, breezy	Bright, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	180	80	170
Canister Serial No.	9488	9332	34138	34665	34639
Flow Controller No.					
Start Time	14:47	14:47	14:52	15:09	15:11
Start Pressure (inches Hg)	29.0	29.0	29.0	29.0	29.0
Stop Time	16:27	16:27	16:01	16:12	16:25
Stop Pressure (inches Hg)	8.0	6.0	6.0	5.0	5.5
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 (%)	20.1	20.1	20.1	19.9	19.5
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.5	0.5	0.7	0.7	1.3
PID Reading (ppmv)	2.4	2.4	2.7	2.3	2.4
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:43:50 AM

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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Micro FID J/S Pine 04212

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-30S	EN04-30D	EN04-2S	EN04-2D	
Sample ID	EN0430S121205	EN0430D121205	EN042S121205	EN042D121205	
Duplicate Designation					
Sample Date	12/12/2005	12/12/2005	12/12/2005	12/12/2005	
Sample Collection Depth (ft bgs)	9	20	8	20	
Ambient Air Temp (F)	30	30	32	32	
Weather Conditions	Partly cloudy,still	Partly cloudy,still	Light snow	Light snow	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	90	200	80	200	
Canister Serial No.	34167	34604	14530	31779	
Flow Controller No.					
Start Time	9:56	9:56	11:54	11:57	
Start Pressure (inches Hg)	30.0	28.5	29.5	29.5	
Stop Time	10:56	10:54	12:59	13:06	
Stop Pressure (inches Hg)	6.0	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 (%)	20.1	20.2	20.4	20.4	
CH_4 Reading (%)	0.0	0.0	0.1	0.1	
CO_2 Reading (%)	0.1	0.4	0.1	0.1	
PID Reading (ppmv)	1.5	1.7	0.6	0.8	
FID Reading (ppmv)	0.0	0.0	16.7	19.0	
Comment No.	2	2	1, 2	1, 2	

COMMENTS:

1. Well box threads stripped.

Print Date: Thursday, March 30, 2006 10:43:50 AM

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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Pine 04214

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-6S	EN04-6D	EN04-26S	EN04-26S	EN04-26D
Sample ID	EN046S121305	EN046D121305	EN0426S121305	DUSC87121305	EN0426D121305
Duplicate Designation			DUSC87121305	EN0462S121305	
Sample Date	12/13/2005	12/13/2005	12/13/2005	12/13/2005	12/13/2005
Sample Collection Depth (ft bgs)	8	27	8	8	14
Ambient Air Temp (F)	17	17	23	23	23
Weather Conditions	Clear	Clear	Clear	Clear	Clear
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	270	80	80	140
Canister Serial No.	9347	94902	SC50	SC87	9504
Flow Controller No.					
Start Time	14:05	14:05	16:36	16:36	16:38
Start Pressure (inches Hg)	29.5	29.5	28.0	28.0	28.5
Stop Time	15:08	15:13	18:00	18:00	17:17
Stop Pressure (inches Hg)	5.5	6.5	5.5	10.0	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 (%)	20.2	19.8	19.9	19.9	19.9
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.3	1.1	0.6	0.6	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	1	1

COMMENTS:

1. Well box threads stripped.

Print Date: Thursday, March 30, 2006 10:43:50 AM

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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Pine 04214

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-12S	EN04-12D	EN04-14S	EN04-14D	
Sample ID	EN0412S121305	EN0412D121305	EN0414S121305	EN0414D121305	
Duplicate Designation					
Sample Date	12/13/2005	12/13/2005	12/13/2005	12/13/2005	
Sample Collection Depth (ft bgs)	8	19	8	34	
Ambient Air Temp (F)	4	4	7	7	
Weather Conditions	Clear	Clear	Clear	Clear	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	190	80	340	
Canister Serial No.	34607	30826	34091	12284	
Flow Controller No.					
Start Time	8:55	8:55	11:06	11:58	
Start Pressure (inches Hg)	30.0	30.0	29.5	29.5	
Stop Time	10:10	10:06	12:10	13:34	
Stop Pressure (inches Hg)	6.0	5.5	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 (%)	18.6	18.5	19.4	19.9	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	2.6	1.8	1.2	0.5	
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. Needs new road boxes - threads stripped.

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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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Pine 04214

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-23S	EN04-23I	EN04-23D		
Sample ID	EN0423S121405	EN0423I121405	EN0423D121405		
Duplicate Designation					
Sample Date	12/14/2005	12/14/2005	12/14/2005		
Sample Collection Depth (ft bgs)	8	15	23		
Ambient Air Temp (F)	12	12	12		
Weather Conditions	Clear, still	Clear, still	Clear, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	150	230		
Canister Serial No.	2173	34120	2165		
Flow Controller No.					
Start Time	15:08	15:08	15:08		
Start Pressure (inches Hg)	29.5	29.5	29.5		
Stop Time	16:28	16:32	16:25		
Stop Pressure (inches Hg)	6.5	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 (%)	19.2	17.8	19.4		
CH_4 Reading (%)	0.0	0.0	0.1		
CO_2 Reading (%)	2.1	3.8	1.6		
PID Reading (ppmv)	0.0	0.0	0.1		
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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Pine 04214

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-18S	EN04-18S	EN04-18D	EN04-16S	EN04-16D
Sample ID	EN0418S121405	DU2204121405	EN0418D121405	EN0416S121405	EN0416D121405
Duplicate Designation	DU2204121405	EN0418S121405			
Sample Date	12/14/2005	12/14/2005	12/14/2005	12/14/2005	12/14/2005
Sample Collection Depth (ft bgs)	8	8	31	8	34
Ambient Air Temp (F)	1	1	1	10	10
Weather Conditions	Clear, still	Clear, still	Clear, still	Clear, still	Clear, still
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	310	80	340
Canister Serial No.	13385	2204	23834	34135	12357
Flow Controller No.					
Start Time	9:29	9:29	9:26	10:26	10:02
Start Pressure (inches Hg)	30.0	29.5	28.0	29.5	29.5
Stop Time	11:39	11:39	11:00	11:29	11:18
Stop Pressure (inches Hg)	6.0	9.0	7.0	7.0	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 (%)	20.4	20.4	19.7	20.6	19.6
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.2	0.2	1.1	0.4	1.4
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.9
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.				2	1

COMMENTS:

1. Road box threads stripped.

2. Threads on top of implant difficult to get nut onto.

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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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Pine 04214

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-20S	EN04-20I	EN04-20D		
Sample ID	EN0420S121405	EN0420I121405	EN0420D121405		
Duplicate Designation					
Sample Date	12/14/2005	12/14/2005	12/14/2005		
Sample Collection Depth (ft bgs)	8	24	36		
Ambient Air Temp (F)	17	17	17		
Weather Conditions	Clear, still	Clear, still	Clear, still		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	240	360		
Canister Serial No.	9485	9480	93100		
Flow Controller No.					
Start Time	12:56	12:56	12:56		
Start Pressure (inches Hg)	30.0	29.5	29.0		
Stop Time	14:07	14:02	13:58		
Stop Pressure (inches Hg)	5.0	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 (%)	20.4	20.8	20.6		
CH_4 Reading (%)	0.2	0.2	0.2		
CO_2 Reading (%)	1.3	0.6	0.5		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.	1				

COMMENTS:

1. One bolt missing from road box.

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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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Pine 04214

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-24S	EN04-24D	EN04-25S	EN04-25D	
Sample ID	EN0424S121505	EN0424D121505	EN0425S121505	EN0425D121505	
Duplicate Designation					
Sample Date	12/15/2005	12/15/2005	12/15/2005	12/15/2005	
Sample Collection Depth (ft bgs)	8	19	8	17.5	
Ambient Air Temp (F)	12	12	14	14	
Weather Conditions	Overcast	Overcast	Overcast	Overcast	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	190	80	175	
Canister Serial No.	24396	12038	3391	12030	
Flow Controller No.					
Start Time	12:33	12:33	12:56	12:56	
Start Pressure (inches Hg)	29.5	29.5	30.0	29.5	
Stop Time	13:54	13:58	14:03	14:13	
Stop Pressure (inches Hg)	6.5	6.5	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 (%)	20.9	18.9	18.5	17.4	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.7	1.6	1.6	2.7	
PID Reading (ppmv)	4.6	5.7	4.5	4.3	
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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Pine 04214

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-8D	EN04-8D	EN04-9S	EN04-9D	
Sample ID	EN048D121505	DU31761121505	EN049S121505	EN049D121505	
Duplicate Designation	DU31761121505	EN048D121505			
Sample Date	12/15/2005	12/15/2005	12/15/2005	12/15/2005	
Sample Collection Depth (ft bgs)	12	12	8	20	
Ambient Air Temp (F)	7	7	7	7	
Weather Conditions	Clear, still	Clear, still	Clear, still	Clear, still	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	120	120	80	200	
Canister Serial No.	20779	31761	14529	11434	
Flow Controller No.					
Start Time	8:58	8:58	9:15	9:18	
Start Pressure (inches Hg)	29.0	29.0	29.0	29.0	
Stop Time	10:57	10:57	10:18	10:21	
Stop Pressure (inches Hg)	5.5	8.0	6.0	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 (%)	16.7	16.7	20.2	17.6	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	2.1	2.1	0.6	1.7	
PID Reading (ppmv)	5.5	5.5	3.1	10.4	
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:	GEM 2000 Pine 03350	**Collectors:**	CJM
PID Meter Used:	SH-12	**FID Meter Used:**	Pine 04214

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-10S	EN04-10D			
Sample ID	EN0410S121505	EN0410D121505			
Duplicate Designation					
Sample Date	12/15/2005	12/15/2005			
Sample Collection Depth (ft bgs)	8	20			
Ambient Air Temp (F)	7	7			
Weather Conditions	Overcast, still	Overcast, still			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	200			
Canister Serial No.	34082	34098			
Flow Controller No.					
Start Time	9:48	9:51			
Start Pressure (inches Hg)	29.5	29.5			
Stop Time	11:06	11:09			
Stop Pressure (inches Hg)	5.5	5.5			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	16.3	15.6			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	2.7	4.3			
PID Reading (ppmv)	8.0	19.1			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Form Number: 317

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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 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-27S	EN04-15S	EN04-15D		
Sample ID	EN0427S121505	EN0415S121505	EN0415D121505		
Duplicate Designation					
Sample Date	12/15/2005	12/15/2005	12/15/2005		
Sample Collection Depth (ft bgs)	8	8	30		
Ambient Air Temp (F)	20	17	17		
Weather Conditions	Overcast, calm	Overcast, calm	Overcast, calm		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	300		
Canister Serial No.	12391	11628	12027		
Flow Controller No.					
Start Time	12:30	10:45	10:45		
Start Pressure (inches Hg)	28.0	30.0	27.0		
Stop Time	13:50	11:55	11:55		
Stop Pressure (inches Hg)	6.5	7.0	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	20.0	20.0		
CH_4 Reading (%)	0.0	0.1	0.1		
CO_2 Reading (%)	1.9	0.9	0.4		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.					

COMMENTS:

Form Number: 318

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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 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-22S	EN04-22D	EN05-34S	EN05-34I	EN05-34D
Sample ID	EN0422S121505	EN0422D121505	EN0534S121505	EN0534I121505	EN0534D121505
Duplicate Designation					
Sample Date	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005
Sample Collection Depth (ft bgs)	8	16	8	11	13.5
Ambient Air Temp (F)	10	10	20	20	20
Weather Conditions	Partly sunny, calm	Partly sunny, calm	Overcast, breezy	Overcast, breezy	Overcast, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	160	80	110	135
Canister Serial No.	1360	10:38	94921	2077	9446
Flow Controller No.					
Start Time	8:40	8:40	13:00	13:00	13:00
Start Pressure (inches Hg)	29.0	28.0	30.0	30.0	30.0
Stop Time	9:50	9:40	14:02	14:10	14:02
Stop Pressure (inches Hg)	6.5	7.0	5.0	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 (%)	16.9	15.4	20.2	20.2	20.0
CH_4 Reading (%)	0.0	0.0	0.1	0.0	0.1
CO_2 Reading (%)	2.6	3.8	0.3	0.6	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:	Pine Rental 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-5S	EN04-5D			
Sample ID	EN045S121305	EN045D121305			
Duplicate Designation					
Sample Date	12/13/2005	12/13/2005			
Sample Collection Depth (ft bgs)	8	34			
Ambient Air Temp (F)	24	24			
Weather Conditions	Sunny, calm	Sunny, calm			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340			
Canister Serial No.	2218	34147			
Flow Controller No.					
Start Time	16:05	16:05			
Start Pressure (inches Hg)	27.0	30.0			
Stop Time	17:15	16:45			
Stop Pressure (inches Hg)	6.0	4.5			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	19.7	20.0			
CH_4 Reading (%)	0.0	0.1			
CO_2 Reading (%)	1.1	0.1			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Form Number: 320

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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 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-29S	EN05-29I	EN04-29D	EN04-11S	EN04-11D
Sample ID	EN0529S121305	EN0529I121305	EN0429D121305	EN0411S121305	EN0411D121305
Duplicate Designation					
Sample Date	12/13/2005	12/13/2005	12/13/2005	12/13/2005	12/13/2005
Sample Collection Depth (ft bgs)	8	12.5	20	8	21
Ambient Air Temp (F)	5	5	5	14	14
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	125	200	80	210
Canister Serial No.	2120	2099	33406	33399	34605
Flow Controller No.					
Start Time	8:45	8:45	8:45	10:55	10:55
Start Pressure (inches Hg)	30.0	28.0	28.0	27.5	28.5
Stop Time	10:05	10:17	10:20	12:00	12:05
Stop Pressure (inches Hg)	6.5	5.0	5.5	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 (%)	19.7	19.5	18.8	20.3	20.5
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.9	1.1	2.0	0.2	0.3
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:	Pine Rental 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-13S	EN04-13D	EN04-7S	EN04-7D	EN04-7D
Sample ID	EN0413S121305	EN0413D121305	EN047S121305	EN047D121305	DU2064121305
Duplicate Designation				DU2064121305	EN047D121305
Sample Date	12/13/2005	12/13/2005	12/13/2005	12/13/2005	12/13/2005
Sample Collection Depth (ft bgs)	8	30	8	34	34
Ambient Air Temp (F)	24	24	24	24	24
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	300	80	340	340
Canister Serial No.	34100	34626	11826	2138	2064
Flow Controller No.					
Start Time	13:00	13:00	15:10	15:05	15:05
Start Pressure (inches Hg)	30.0	30.0	27.0	28.0	26.5
Stop Time	14:15	14:20	17:05	17:30	17:30
Stop Pressure (inches Hg)	6.0	5.5	8.0	9.5	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 (%)	17.7	20.4	20.4	19.4	19.4
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	2.7	0.4	0.5	1.7	1.7
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.					

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 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-3S	EN04-3S	EN04-3D		
Sample ID	EN043S121205	DU34641121205	EN043D121205		
Duplicate Designation	DU34641121205	EN043S121205			
Sample Date	12/12/2005	12/12/2005	12/12/2005		
Sample Collection Depth (ft bgs)	8	8	19		
Ambient Air Temp (F)	32	32	32		
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	190		
Canister Serial No.	21028	34641	20772		
Flow Controller No.					
Start Time	14:20	14:20	14:25		
Start Pressure (inches Hg)	27.0	30.0	28.0		
Stop Time	16:35	16:35	16:25		
Stop Pressure (inches Hg)	5.0	9.0	6.5		
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	20.0		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	0.1	0.1	0.1		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.					

COMMENTS:

Form Number: 323

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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 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-1S	EN04-1D	EN04-31S	EN04-31D	
Sample ID	EN041S121205	EN041D121205	EN0431S121205	EN0431D121205	
Duplicate Designation					
Sample Date	12/12/2005	12/12/2005	12/12/2005	12/12/2005	
Sample Collection Depth (ft bgs)	8	23	10	19	
Ambient Air Temp (F)	26	26	30	30	
Weather Conditions	Overcast, calm	Overcast, calm	Partly sunny, calm	Partly sunny, calm	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	230	100	190	
Canister Serial No.	34105	2205	25208	12032	
Flow Controller No.					
Start Time	9:40	9:40	11:50	11:50	
Start Pressure (inches Hg)	29.0	27.0	27.5	29.0	
Stop Time	10:41	10:50	13:20	12:58	
Stop Pressure (inches Hg)	7.0	6.0	6.0	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 (%)	20.4	20.4	20.9	20.4	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.1	0.0	0.0	0.1	
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 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-17S	EN04-17D	EN04-21S	EN04-21S	EN04-21D
Sample ID	EN0417S121405	EN0417D121405	EN0421S121405	DU2137121405	EN0421D121405
Duplicate Designation			DU2137121405	EN0421S121405	
Sample Date	12/14/2005	12/14/2005	12/14/2005	12/14/2005	12/14/2005
Sample Collection Depth (ft bgs)	8	28	7.5	7.5	23
Ambient Air Temp (F)	4	4	6	6	6
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	280	75	75	230
Canister Serial No.	2209	33732	2186	2137	24388
Flow Controller No.					
Start Time	9:20	9:20	11:25	11:25	11:25
Start Pressure (inches Hg)	29.0	30.0	30.0	30.0	26.5
Stop Time	10:25	10:30	14:10	14:10	12:50
Stop Pressure (inches Hg)	6.5	6.0	8.0	7.0	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 (%)	20.5	20.3	19.4	19.4	19.9
CH_4 Reading (%)	0.1	0.1	0.1	0.1	0.0
CO_2 Reading (%)	0.3	0.5	0.9	0.9	1.2
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.					

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 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-19S	EN04-19D			
Sample ID	EN0419S121405	EN0419D121405			
Duplicate Designation					
Sample Date	12/14/2005	12/14/2005			
Sample Collection Depth (ft bgs)	8	29.5			
Ambient Air Temp (F)	15	15			
Weather Conditions	Sunny, calm	Sunny, calm			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	295			
Canister Serial No.	9376	12369			
Flow Controller No.					
Start Time	12:45	12:45			
Start Pressure (inches Hg)	27.0	29.0			
Stop Time	13:45	13:50			
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 (%)	20.1	19.7			
CH_4 Reading (%)	0.1	0.1			
CO_2 Reading (%)	0.3	1.1			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.	1	1			

COMMENTS:

1. Certified cans and controllers 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 07231	**Collectors:**	MTS
PID Meter Used:	Pine Rental 01366	**FID Meter Used:**	Pine Rental 03305

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-33S	EN05-33I21	EN05-33I29	EN05-33D	
Sample ID	EN0533S121405	EN0533I21121405	EN0533I29121405	EN0533D121405	
Duplicate Designation					
Sample Date	12/14/2005	12/14/2005	12/14/2005	12/14/2005	
Sample Collection Depth (ft bgs)	7.5	21.5	29	32	
Ambient Air Temp (F)	20	20	20	20	
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	75	215	290	320	
Canister Serial No.	33727	2118	2211	2214	
Flow Controller No.					
Start Time	15:00	15:00	15:00	15:00	
Start Pressure (inches Hg)	30.0	30.0	27.0	29.0	
Stop Time	16:05	16:05	16:05	16:05	
Stop Pressure (inches Hg)	7.0	7.0	5.0	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 (%)	19.8	19.4	19.4	19.2	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.3	1.0	1.0	1.1	
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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-2S	EN04-2D	EN04-4S	EN04-4S	EN04-4D
Sample ID	EN042S021406	EN042D021406	EN044S021406	DU34624021406	EN044D021406
Duplicate Designation			DU34624021406	EN044S021406	
Sample Date	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006
Sample Collection Depth (ft bgs)	8	20	8	8	17
Ambient Air Temp (F)	30	30	30	30	30
Weather Conditions	Overcast	Overcast	Overcast	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	200	80	80	170
Canister Serial No.	2058	24391	30823	34624	33719
Flow Controller No.					
Start Time	9:15	9:15	11:04	11:04	11:04
Start Pressure (inches Hg)	29.0	29.5	27.0	27.0	30.0
Stop Time	10:27	10:31	13:16	13:16	12:11
Stop Pressure (inches Hg)	6.5	7.0	7.0	5.0	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 (%)	21.1	21.1	20.5	20.5	20.5
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.0	0.1	0.6	0.6	1.0
PID Reading (ppmv)	0.0	0.2	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					1

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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-32S	EN04-32D	EN04-32D	EN04-30S	EN04-30D
Sample ID	EN0432S021406	EN0432D021406	DU2109021406	EN0430S021406	EN0430D021406
Duplicate Designation		DU2109021406	EN0432D021406		
Sample Date	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006
Sample Collection Depth (ft bgs)	8	18	18	9	20
Ambient Air Temp (F)	30	30	30	30	30
Weather Conditions	Overcast	Overcast	Overcast	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	180	180	90	200
Canister Serial No.	34093	34615	2109	34669	2073
Flow Controller No.					
Start Time	11:26	11:26	11:26	14:41	14:41
Start Pressure (inches Hg)	30.0	29.5	30.0	28.5	29.0
Stop Time	12:36	13:50	13:50	15:47	15:47
Stop Pressure (inches Hg)	7.0	7.0	7.0	7.0	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 (%)	20.7	20.7	20.7	20.8	20.6
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.4	0.4	0.4	0.0	0.3
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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-14S	EN04-14D	EN04-22S	EN04-22D	EN04-16S
Sample ID	EN0414S021406	EN0414D021406	EN0422S021506	EN0422D021506	EN0416S021506
Duplicate Designation					DU9372021506
Sample Date	2/14/2006	2/14/2006	2/15/2006	2/15/2006	2/15/2006
Sample Collection Depth (ft bgs)	8	34	8	16	8
Ambient Air Temp (F)	30	30	30	30	35
Weather Conditions	Cloudy	Cloudy	Clear	Clear	Sunny
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340	80	160	80
Canister Serial No.	2052	25203	2053	34620	9359
Flow Controller No.					
Start Time	16:18	16:18	7:33	7:33	9:28
Start Pressure (inches Hg)	28.0	29.0	28.0	28.0	28.0
Stop Time	17:26	17:35	8:46	8:42	11:35
Stop Pressure (inches Hg)	7.0	7.0	7.0	7.0	5.5
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 (%)	20.3	20.5	17.7	16.8	20.8
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.9	0.5	2.0	2.8	0.4
PID Reading (ppmv)	0.0	0.0	0.5	2.1	0.4
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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-16S	EN04-16D	EN04-16D	EN04-18S	EN04-18D
Sample ID	DU9372021506	EN0416D021506	DU9302021506	EN0418S021506	EN0418D021506
Duplicate Designation	EN0416S021506	DU9302021506	EN0416D021506		DU31775021506
Sample Date	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006
Sample Collection Depth (ft bgs)	8	34	34	8	31
Ambient Air Temp (F)	35	35	35	35	35
Weather Conditions	Sunny	Sunny	Sunny	Sunny	Sunny
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340	340	80	310
Canister Serial No.	9372	9370	9302	30854	33415
Flow Controller No.					
Start Time	9:28	9:33	9:33	9:58	9:57
Start Pressure (inches Hg)	29.5	28.5	28.5	27.5	30.0
Stop Time	11:35	11:36	11:36	11:02	12:23
Stop Pressure (inches Hg)	7.0	6.0	6.5	7.0	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 (%)	20.8	20.6	20.6	20.9	20.5
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.4	1.0	1.0	0.2	0.9
PID Reading (ppmv)	0.4	1.6	1.6	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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-18D	EN04-20S	EN04-20I	EN04-20D	EN04-12S
Sample ID	DU31775021506	EN0420S021506	EN0420I021506	EN0420D021506	EN0412S021506
Duplicate Designation	EN0418D021506				.
Sample Date	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006
Sample Collection Depth (ft bgs)	31	8	24	36	8
Ambient Air Temp (F)	35	35	35	35	35
Weather Conditions	Sunny	Sunny	Sunny	Sunny	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	310	80	240	360	80
Canister Serial No.	31775	2100	12356	34140	34090
Flow Controller No.					
Start Time	9:57	13:22	13:22	13:22	14:58
Start Pressure (inches Hg)	30.0	26.0	30.0	28.0	29.0
Stop Time	12:23	14:22	14:35	14:13	16:09
Stop Pressure (inches Hg)	7.0	5.5	6.5	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 (%)	20.5	20.4	21.0	20.8	19.7
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.9	1.0	0.4	0.4	1.3
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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-12D	EN04-15S	EN04-15D	EN04-8D	EN04-9S
Sample ID	EN0412D021506	EN0415S021506	EN0415D021506	EN048D021606	EN049S021606
Duplicate Designation	.	.	.	.	
Sample Date	2/15/2006	2/15/2006	2/15/2006	2/16/2006	2/16/2006
Sample Collection Depth (ft bgs)	19	8	30	12	8
Ambient Air Temp (F)	35	35	35	30	30
Weather Conditions	Overcast	Overcast	Overcast	Sunny	Sunny
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	190	80	300	120	80
Canister Serial No.	33711	2131	12379	SC-64	9459
Flow Controller No.					
Start Time	14:58	16:38	16:38	7:45	8:09
Start Pressure (inches Hg)	30.0	26.5	28.0	28.5	30.0
Stop Time	16:15	17:36	17:48	8:51	9:09
Stop Pressure (inches Hg)	7.0	6.0	7.0	7.0	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 (%)	19.7	20.9	21.1	18.8	20.2
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	1.7	0.3	0.1	0.9	0.1
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. Can certification tag says #9495, but can is marked as #9459.

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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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-9D	EN04-10S	EN04-10D	EN04-25S	EN04-25D
Sample ID	EN049D021606	EN0410S021606	EN0410D021606	EN0425S021606	EN0425D021606
Duplicate Designation	.				
Sample Date	2/16/2006	2/16/2006	2/16/2006	2/16/2006	2/16/2006
Sample Collection Depth (ft bgs)	20	8	20	8	17.5
Ambient Air Temp (F)	30	30	30	40	40
Weather Conditions	Sunny	Sunny	Sunny	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	80	200	80	175
Canister Serial No.	94936	9536	9312	9368	9348
Flow Controller No.					
Start Time	8:12	8:29	8:35	10:06	10:06
Start Pressure (inches Hg)	28.5	29.0	30.0	30.0	27.0
Stop Time	9:13	9:28	9:30	11:06	10:57
Stop Pressure (inches Hg)	4.5	6.0	6.5	6.0	5.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	18.8	17.1	16.6	19.2	18.0
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.9	2.5	3.7	1.3	2.3
PID Reading (ppmv)	3.1	4.2	13.8	0.0	0.7
FID Reading (ppmv)	34.6	6.2	18.7	0.0	0.0
Comment No.	1				

COMMENTS:

1. Pressure measured with digital gauge.

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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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-24S	EN04-24D	EN04-27S	EN05-34S	EN05-34I
Sample ID	EN0424S021606		EN0427S021606	EN0534S021606	EN0534I021606
Duplicate Designation					
Sample Date	2/16/2006	2/16/2006	2/16/2006	2/16/2006	2/16/2006
Sample Collection Depth (ft bgs)	8	19	8	8	11
Ambient Air Temp (F)	40	48	45	45	45
Weather Conditions	Overcast	Overcast	Overcast	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80		80	80	110
Canister Serial No.	9514		2092	9519	34629
Flow Controller No.					
Start Time	10:22		12:05	12:23	12:23
Start Pressure (inches Hg)	28.0		27.5	28.0	30.0
Stop Time	11:15		13:14	13:21	13:43
Stop Pressure (inches Hg)	7.0		6.5	6.5	6.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200		200	200	200
Tracer Gas Applied?	No	No	No	No	No
O_2 Reading (%)	20.4		20.2	21.1	21.0
CH_4 Reading (%)	0.0		0.0	0.0	0.0
CO_2 Reading (%)	0.6		1.0	0.1	0.3
PID Reading (ppmv)	0.0		0.0	0.0	0.0
FID Reading (ppmv)	0.0		0.0	0.0	0.0
Comment No.	2	1			

COMMENTS:

1. While purging line, water was sucked up in tube. Air sample could not be collected.

2. Final pressure measured with digital gauge . Controller gauge read 5.5 at stop time, but check with digital gauge showed pressure to be at 7.0.

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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:	GEM	**Collectors:**	LJK
PID Meter Used:	Photovac Pine Rental	**FID Meter Used:**	SH-1 (Micro FID) photovac

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-34D				
Sample ID	EN0534D021606				
Duplicate Designation					
Sample Date	2/16/2006				
Sample Collection Depth (ft bgs)	13.5				
Ambient Air Temp (F)	45				
Weather Conditions	Overcast				
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	135				
Canister Serial No.	14530				
Flow Controller No.					
Start Time	12:23				
Start Pressure (inches Hg)	30.0				
Stop Time	13:43				
Stop Pressure (inches Hg)	6.5				
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200				
Tracer Gas Applied?	No				
O_2 Reading (%)	21.0				
CH_4 Reading (%)	0.0				
CO_2 Reading (%)	0.4				
PID Reading (ppmv)	0.0				
FID Reading (ppmv)	0.0				
Comment No.					

COMMENTS:

Form Number: 346

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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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-3S	EN04-3S	EN04-3D	EN05-29I	EN04-29S
Sample ID	EN043S021406	DU9476021406	EN043D021406	EN0529I021406	EN0429S021406
Duplicate Designation	DU9476021406	EN043S021406			
Sample Date	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006
Sample Collection Depth (ft bgs)	8	8	19	12.5	8
Ambient Air Temp (F)	32	32	32	32	32
Weather Conditions	Overcast, breezy	Overcast, breezy	Overcast, breezy	Overcast, breezy	Overcast, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	190	125	80
Canister Serial No.	9353	9476	9537	9374	94903
Flow Controller No.					
Start Time	11:25	11:25	11:25	14:15	14:15
Start Pressure (inches Hg)	30.0	30.0	28.0	27.0	29.0
Stop Time	13:25	13:25	12:25	15:00	15:15
Stop Pressure (inches Hg)	6.0	7.0	7.0	5.0	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 (%)	19.7	19.7	19.6	19.4	19.4
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.0	0.0	0.0	0.0	0.1
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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-29D				
Sample ID	EN0429D021406				
Duplicate Designation					
Sample Date	2/14/2006				
Sample Collection Depth (ft bgs)	20				
Ambient Air Temp (F)	32				
Weather Conditions	Overcast, breezy				
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200				
Canister Serial No.	94105				
Flow Controller No.					
Start Time	14:15				
Start Pressure (inches Hg)	28.0				
Stop Time	15:15				
Stop Pressure (inches Hg)	6.0				
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200				
Tracer Gas Applied?	No				
O_2 Reading (%)	19.5				
CH_4 Reading (%)	0.0				
CO_2 Reading (%)	0.2				
PID Reading (ppmv)	0.0				
FID Reading (ppmv)	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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-31S	EN04-31D			
Sample ID	EN0431S021406	EN0431D021406			
Duplicate Designation					
Sample Date	2/14/2006	2/14/2006			
Sample Collection Depth (ft bgs)	10	19			
Ambient Air Temp (F)	32	32			
Weather Conditions	Overcast, breezy	Overcast, breezy			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	100	190			
Canister Serial No.	9326	34112			
Flow Controller No.					
Start Time	15:55	15:55			
Start Pressure (inches Hg)	28.0	28.0			
Stop Time	16:58	17:05			
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 (%)	19.6	19.5			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.0	0.0			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Form Number: 349

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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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-1S	EN04-1D	EN04-11S	EN04-11D	
Sample ID	EN041S021406	EN041D021406	EN0411S021406	EN0411D021406	
Duplicate Designation					
Sample Date	2/14/2006	2/14/2006	2/14/2006	2/14/2006	
Sample Collection Depth (ft bgs)	8	23	8	21	
Ambient Air Temp (F)	30	30	30	30	
Weather Conditions	Overcast, calm	Overcast, calm	Sunny, breezy	Sunny, breezy	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	230	80	210	
Canister Serial No.	9336	SC85	9345	9445	
Flow Controller No.					
Start Time	8:30	8:30	9:50	9:50	
Start Pressure (inches Hg)	28.0	30.0	28.0	28.0	
Stop Time	9:30	9:35	10:46	10:50	
Stop Pressure (inches Hg)	7.0	8.0	5.0	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 (%)	19.9	19.9	19.9	20.1	
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:

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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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-35S	EN06-35I16	EN06-35I24	EN06-35D	
Sample ID	EN0635S021506	EN0635I16021506	EN0635I24021506	EN0635D021506	
Duplicate Designation					
Sample Date	2/15/2006	2/15/2006	2/15/2006	2/15/2006	
Sample Collection Depth (ft bgs)	8	16	24	34	
Ambient Air Temp (F)	40	40	40	40	
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	160	240	340	
Canister Serial No.	12377	13384	31768	34103	
Flow Controller No.					
Start Time	11:30	11:30	11:30	11:30	
Start Pressure (inches Hg)	30.0	28.0	30.0	30.0	
Stop Time	13:10	12:50	13:00	12:50	
Stop Pressure (inches Hg)	8.0	6.0	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 (%)	20.4	20.2	20.1	20.1	
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.	2		1		

COMMENTS:

1. Certified can and controller used.

2. After 40 minutes, vacuum dropped from -30" Hg to -28" Hg. Put new controller on at 12:10 PM.

Print Date: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN05-33S	EN05-33I21	EN05-33I29	EN05-33D	
Sample ID	EN0533S021606	EN0533I21021606	EN0533I29021606	EN0533D021606	
Duplicate Designation					
Sample Date	2/16/2006	2/16/2006	2/16/2006	2/16/2006	
Sample Collection Depth (ft bgs)	7.5	21.5	29	32	
Ambient Air Temp (F)	40	40	40	40	
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	75	215	290	320	
Canister Serial No.	34606	34131	12392	34153	
Flow Controller No.					
Start Time	8:00	8:00	8:00	8:00	
Start Pressure (inches Hg)	30.0	30.0	30.0	30.0	
Stop Time	9:15	9:15	9:20	9:15	
Stop Pressure (inches Hg)	6.5	7.0	6.5	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 (%)	19.7	19.7	19.7	19.7	
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: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-21S	EN04-21D	EN04-19S	EN04-19D	
Sample ID	EN0421S021606	EN0421D021606	EN0419S021606	EN0419D021606	
Duplicate Designation					
Sample Date	2/16/2006	2/16/2006	2/16/2006	2/16/2006	
Sample Collection Depth (ft bgs)	7.5	23	8	29.5	
Ambient Air Temp (F)	45	45	45	45	
Weather Conditions	Overcast, calm	Overcast, calm	Overcast, calm	Overcast, calm	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	75	230	80	295	
Canister Serial No.	33720	34164	2222	1737	
Flow Controller No.					
Start Time	9:50	9:50	9:45	9:45	
Start Pressure (inches Hg)	28.0	29.0	27.0	28.0	
Stop Time	11:05	11:05	10:51	10:55	
Stop Pressure (inches Hg)	5.0	6.0	5.0	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 (%)	19.2	19.4	19.4	19.5	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.1	0.1	0.0	0.0	
PID Reading (ppmv)	5	5	0.0	0.0	
FID Reading (ppmv)	0.0	0.0	0.0	0.0	
Comment No.					

COMMENTS:

Form Number: 353

Print Date: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-23S	EN04-23I	EN04-23D		
Sample ID	EN0423S021606	EN0423I021606	EN0423D021606		
Duplicate Designation					
Sample Date	2/16/2006	2/16/2006	2/16/2006		
Sample Collection Depth (ft bgs)	8	15	23		
Ambient Air Temp (F)	50	50	50		
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	150	230		
Canister Serial No.	34634	33726	2195		
Flow Controller No.					
Start Time	11:35	11:35	11:35		
Start Pressure (inches Hg)	28.0	28.0	28.0		
Stop Time	12:45	12:45	12:45		
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 (%)	20.0	19.5	19.8		
CH_4 Reading (%)	0.0	0.0	0.0		
CO_2 Reading (%)	0.0	0.7	0.2		
PID Reading (ppmv)	0.0	0.0	0.0		
FID Reading (ppmv)	0.0	0.0	0.0		
Comment No.					

COMMENTS:

Form Number: 354

Print Date: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-7S	EN04-7D	EN04-7D	EN04-5S	EN04-5D
Sample ID	EN047S021506	EN047D021506	DU2035021506	EN045S021506	EN045D021506
Duplicate Designation		DU2035021506	EN047D021506		
Sample Date	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006
Sample Collection Depth (ft bgs)	8	34	34	8	34
Ambient Air Temp (F)	35	35	35	40	40
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	340	340	80	340
Canister Serial No.	12040	24384	2035	9503	31772
Flow Controller No.					
Start Time	7:45	7:40	7:40	8:20	8:20
Start Pressure (inches Hg)	29.0	29.0	28.0	30.0	30.0
Stop Time	9:00	10:00	10:00	9:30	9:40
Stop Pressure (inches Hg)	7.0	6.0	8.0	7.0	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 (%)	19.9	20.5	20.5	19.6	19.7
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.0	0.1	0.1	0.0	0.3
PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
FID Reading (ppmv)	0.0	0.0	0.0	5.7	0.0
Comment No.				1	1

COMMENTS:

1. Certified can and controller used.

Print Date: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-36S	EN06-36I12	EN06-36I22	EN06-36D	
Sample ID	EN0636S021506	EN0636I12021506	EN0636I22021506	EN0636D021506	
Duplicate Designation					
Sample Date	2/15/2006	2/15/2006	2/15/2006	2/15/2006	
Sample Collection Depth (ft bgs)	8	12	22	34	
Ambient Air Temp (F)	40	40	40	40	
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	120	22	340	
Canister Serial No.	2074	20775	34165	14513	
Flow Controller No.					
Start Time	8:40	8:40	8:40	8:40	
Start Pressure (inches Hg)	30.0	29.0	30.0	28.0	
Stop Time	10:10	10:10	10:10	10:10	
Stop Pressure (inches Hg)	6.0	5.0	4.0	4.0	
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	
Tracer Gas Applied?	No	No	No	No	
O_2 Reading (%)	20.7	20.8	20.9	20.7	
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.	1	1	1	1	

COMMENTS:

1. Certified can and controller used.

Print Date: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-6S	EN04-6S	EN04-6D	EN04-6D	
Sample ID	EN046S021506	DU34648021506	EN046D021506	DU11893021506	
Duplicate Designation	DU34648021506	EN046S021506	DU11893021506	EN046D021506	
Sample Date	2/15/2006	2/15/2006	2/15/2006	2/15/2006	
Sample Collection Depth (ft bgs)	8	8	27	27	
Ambient Air Temp (F)	40	40	40	40	
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	80	270	270	
Canister Serial No.	2219	34648	34650	11893	
Flow Controller No.					
Start Time	11:10	11:10	11:10	11:10	
Start Pressure (inches Hg)	30.0	28.0	30.0	30.0	
Stop Time	13:30	13:30	13:35	13:35	
Stop Pressure (inches Hg)	9.0	9.0	9.0	9.0	
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	20.0	20.0	
CH_4 Reading (%)	0.0	0.0	0.0	0.0	
CO_2 Reading (%)	0.0	0.0	0.5	0.5	
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. Certified can and controller for duplicate sample only.

Print Date: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-13S	EN04-13D			
Sample ID	EN0413S021506	EN0413D021506			
Duplicate Designation					
Sample Date	2/15/2006	2/15/2006			
Sample Collection Depth (ft bgs)	8	30			
Ambient Air Temp (F)	40	40			
Weather Conditions	Overcast, calm	Overcast, calm			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	300			
Canister Serial No.	31755	34587			
Flow Controller No.					
Start Time	14:00	14:00			
Start Pressure (inches Hg)	28.0	27.0			
Stop Time	15:00	15:00			
Stop Pressure (inches Hg)	6.0	7.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	17.7	19.3			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	2.2	0.6			
PID Reading (ppmv)	0.0	0.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Form Number: 358

Print Date: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-17S	EN04-17D			
Sample ID	EN0417S021506	EN0417D021506			
Duplicate Designation					
Sample Date	2/15/2006	2/15/2006			
Sample Collection Depth (ft bgs)	8	28			
Ambient Air Temp (F)	45	45			
Weather Conditions	Sunny, calm	Sunny, calm			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	280			
Canister Serial No.	34661	12355			
Flow Controller No.					
Start Time	15:25	15:25			
Start Pressure (inches Hg)	30.0	28.0			
Stop Time	16:50	16:30			
Stop Pressure (inches Hg)	6.0	8.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	No	No			
O_2 Reading (%)	20.0	19.9			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.0	0.3			
PID Reading (ppmv)	0.0	1.0			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Form Number: 359

Print Date: Thursday, March 30, 2006 10:44:57 AM

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:**	MTS
PID Meter Used:	Pine 04081	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN06-37S	EN06-37I	EN06-37D	EN04-26S	EN04-26D
Sample ID	EN0637S021606	EN0637I021606	EN0637D021606	EN0426S021606	EN0426D021606
Duplicate Designation					
Sample Date	2/16/2006	2/16/2006	2/16/2006	2/16/2006	2/16/2006
Sample Collection Depth (ft bgs)	8	12	21	8	14
Ambient Air Temp (F)	50	50	50	50	50
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Cloudy, breezy	Cloudy, breezy
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	120	210	80	140
Canister Serial No.	31774	33707	34613	2119	2112
Flow Controller No.					
Start Time	11:45	11:45	11:45	14:00	14:00
Start Pressure (inches Hg)	28.0	30.0	30.0	30.0	30.0
Stop Time	13:05	13:05	13:05	15:10	15:10
Stop Pressure (inches Hg)	6.0	7.0	7.0	7.0	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 (%)	20.2	19.2	19.7	20.0	19.2
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.					

COMMENTS:

APPENDIX B.3

TIME SERIES PLOTS
Figures B.1 through B.37

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

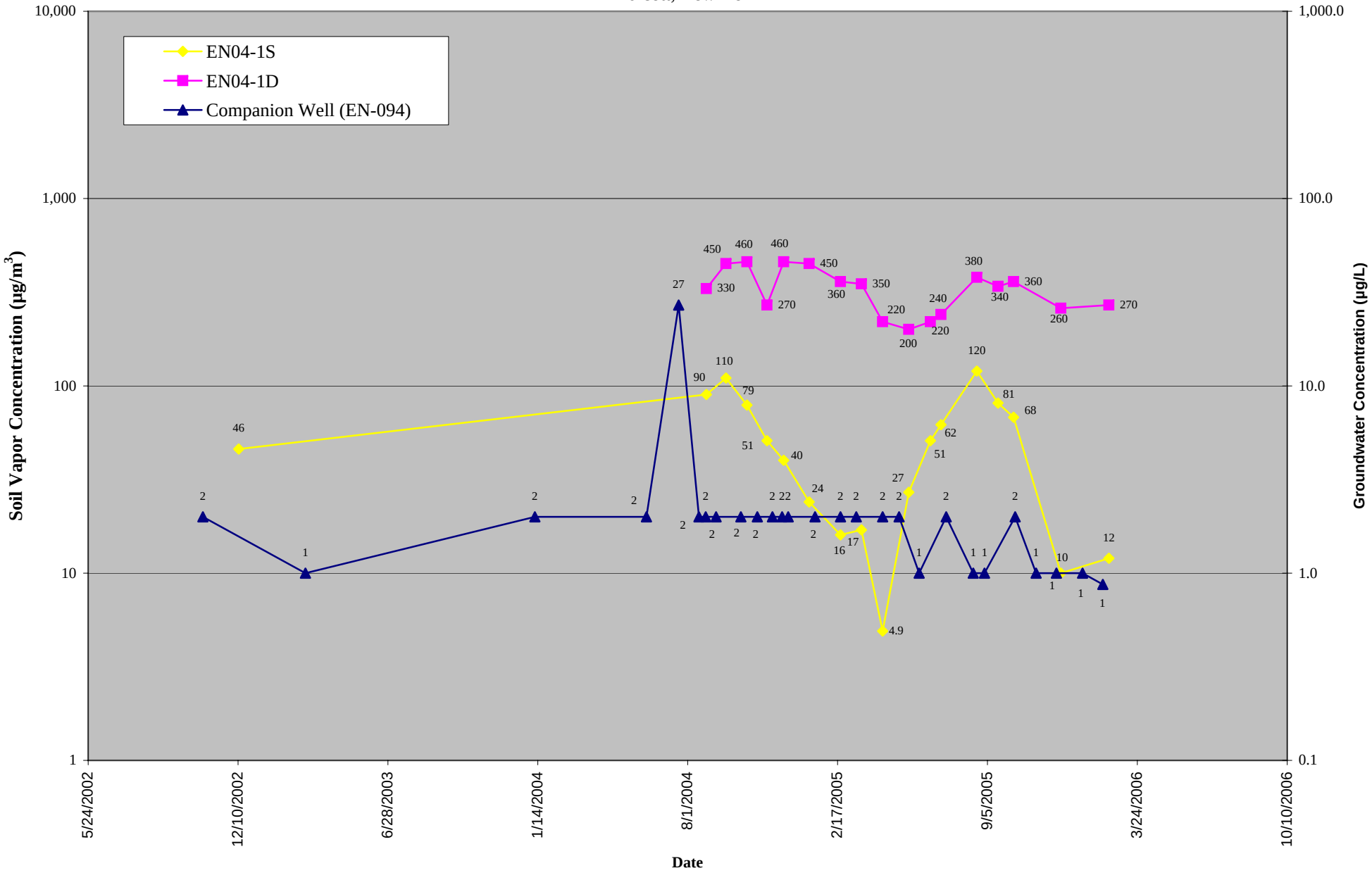

Figure B.2
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

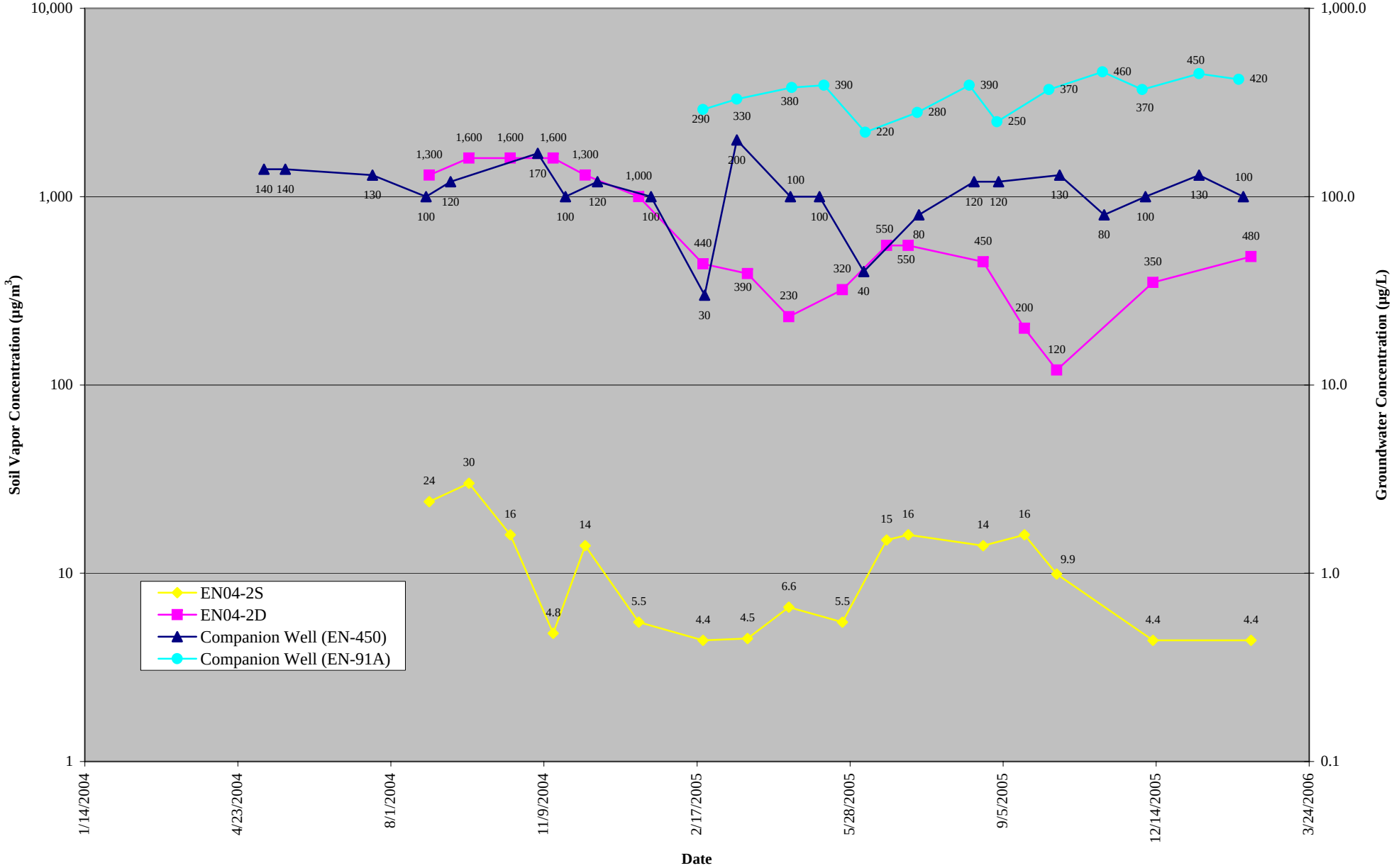

Figure B.3
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

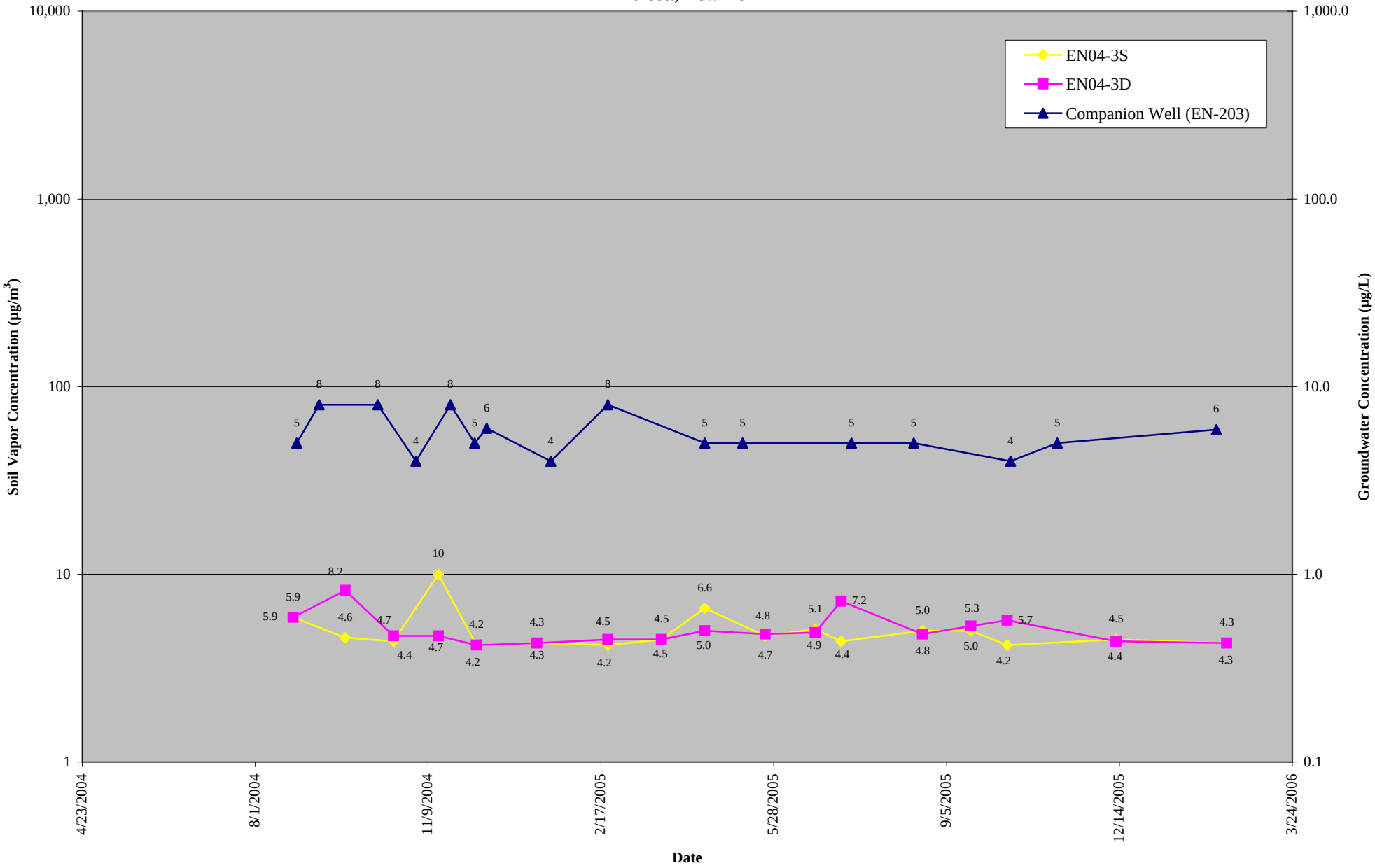

Figure B.4
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

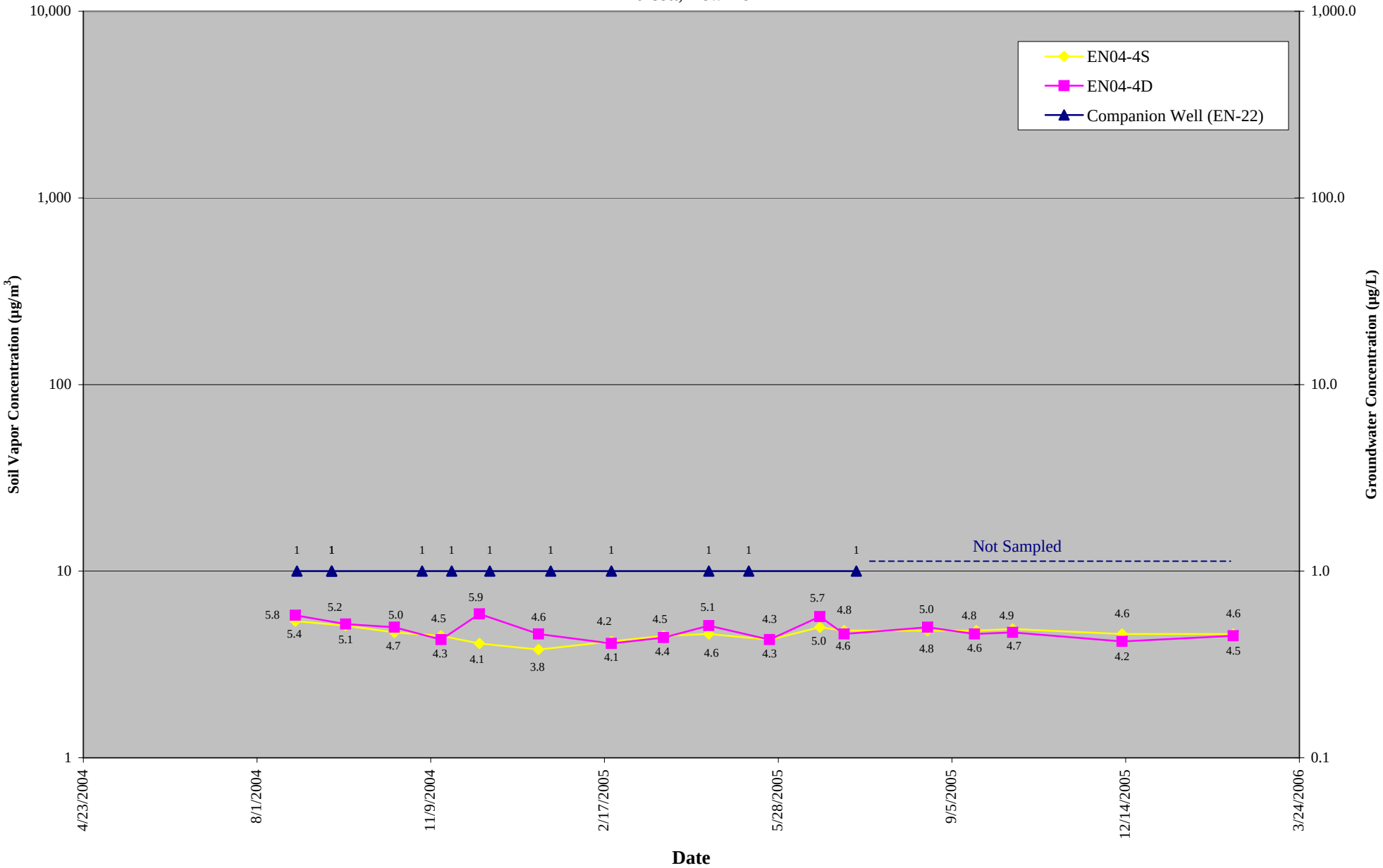

Figure B.5
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

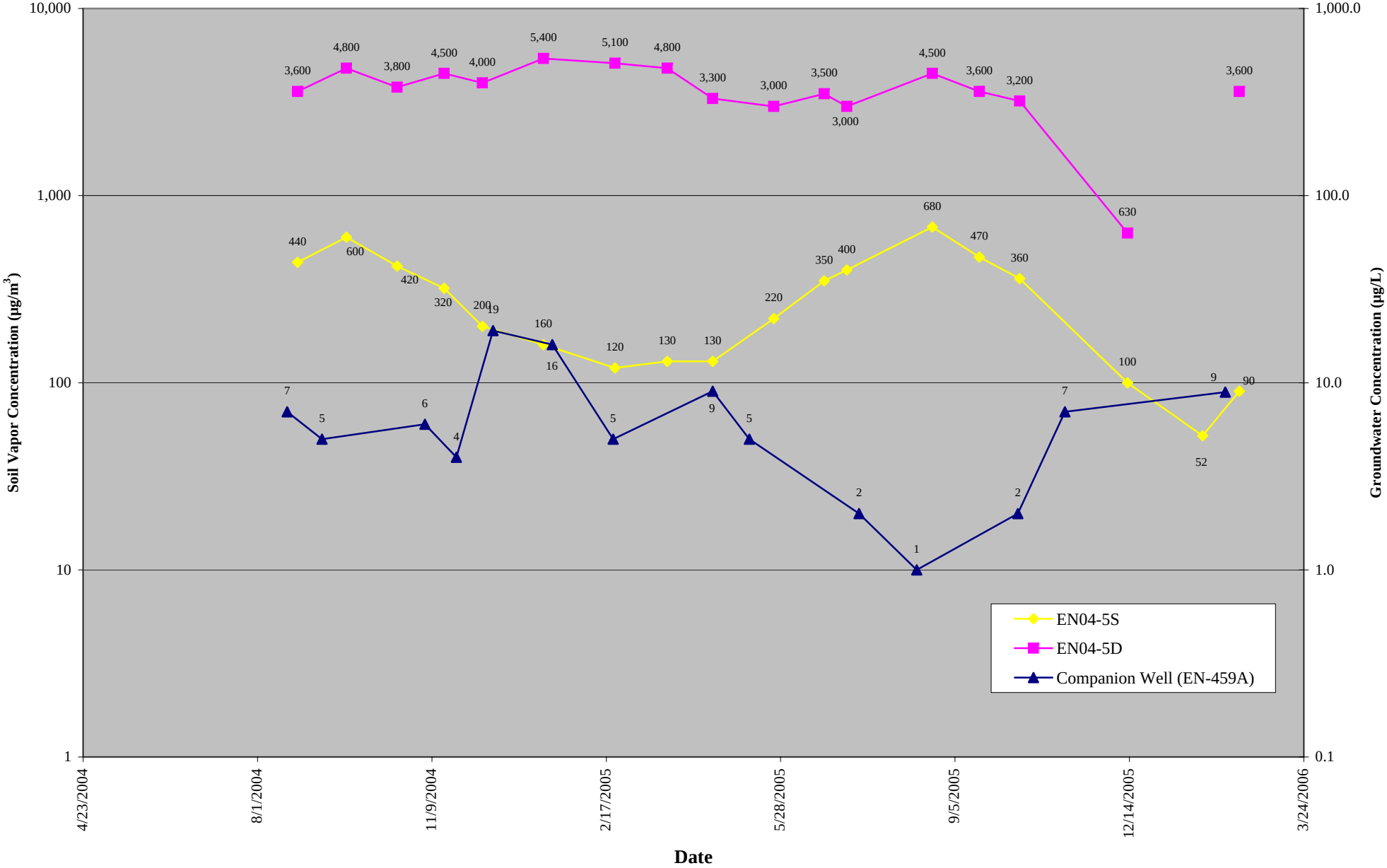

Figure B.6
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

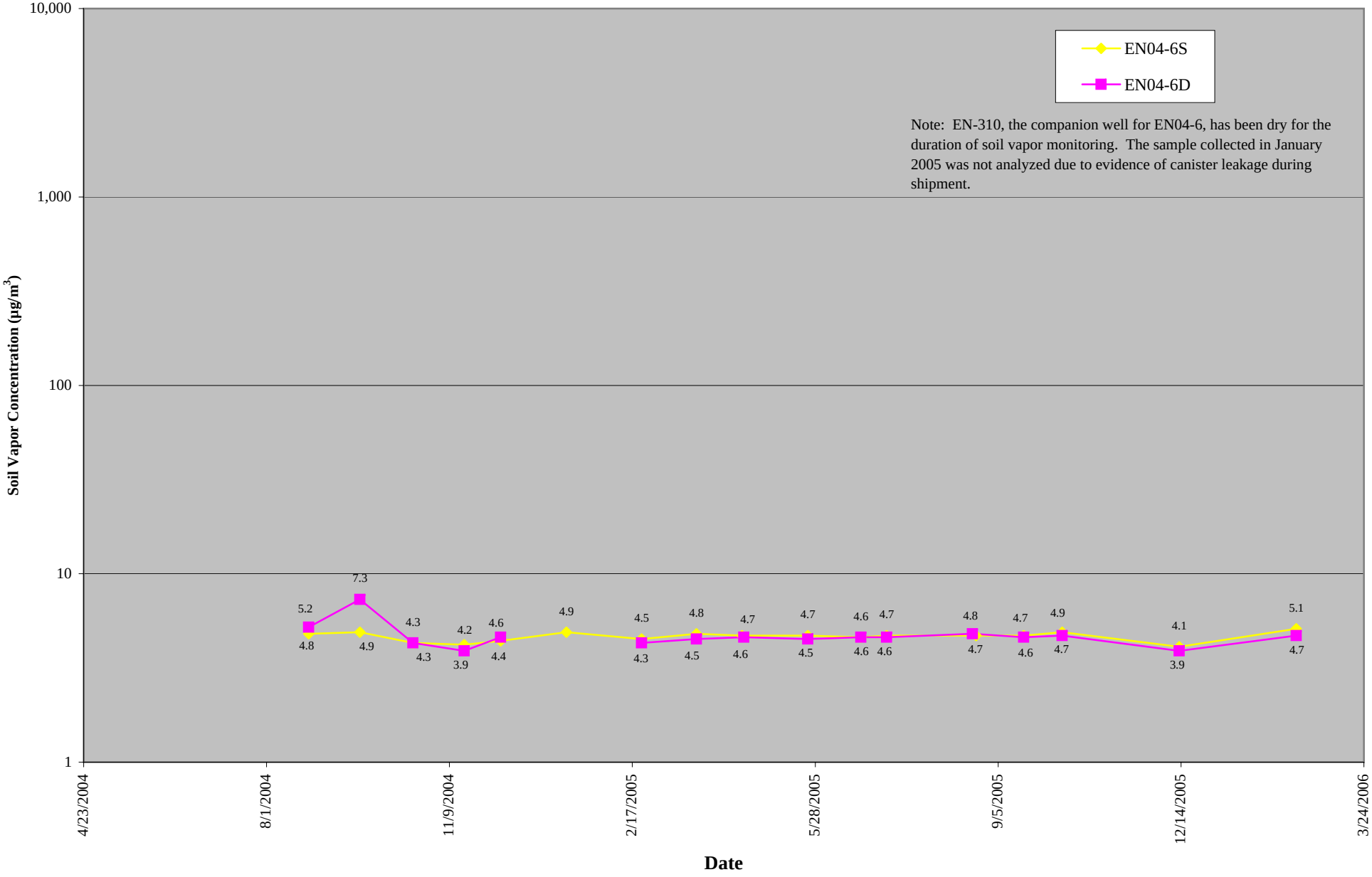

Figure B.7
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

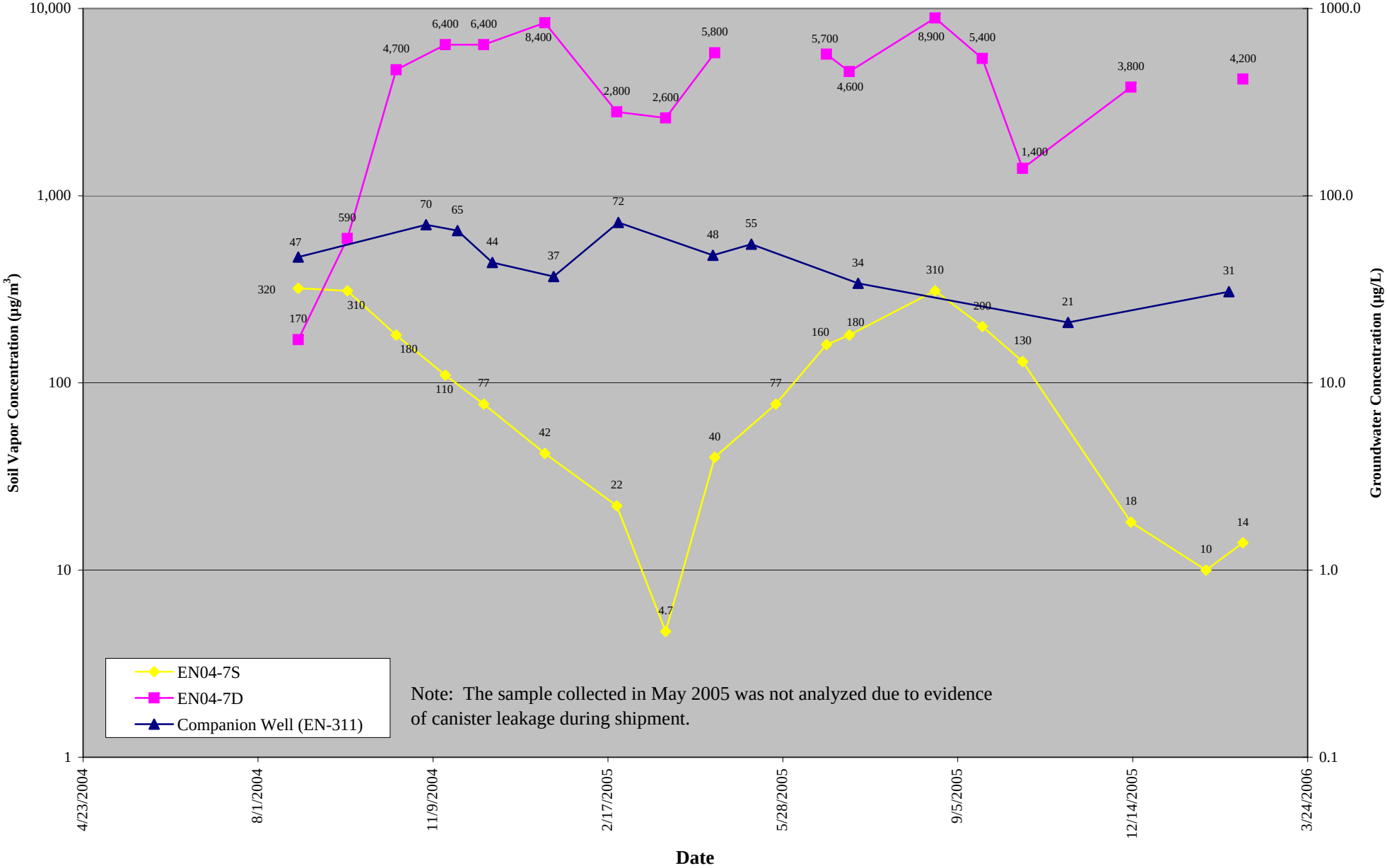

Figure B.8
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

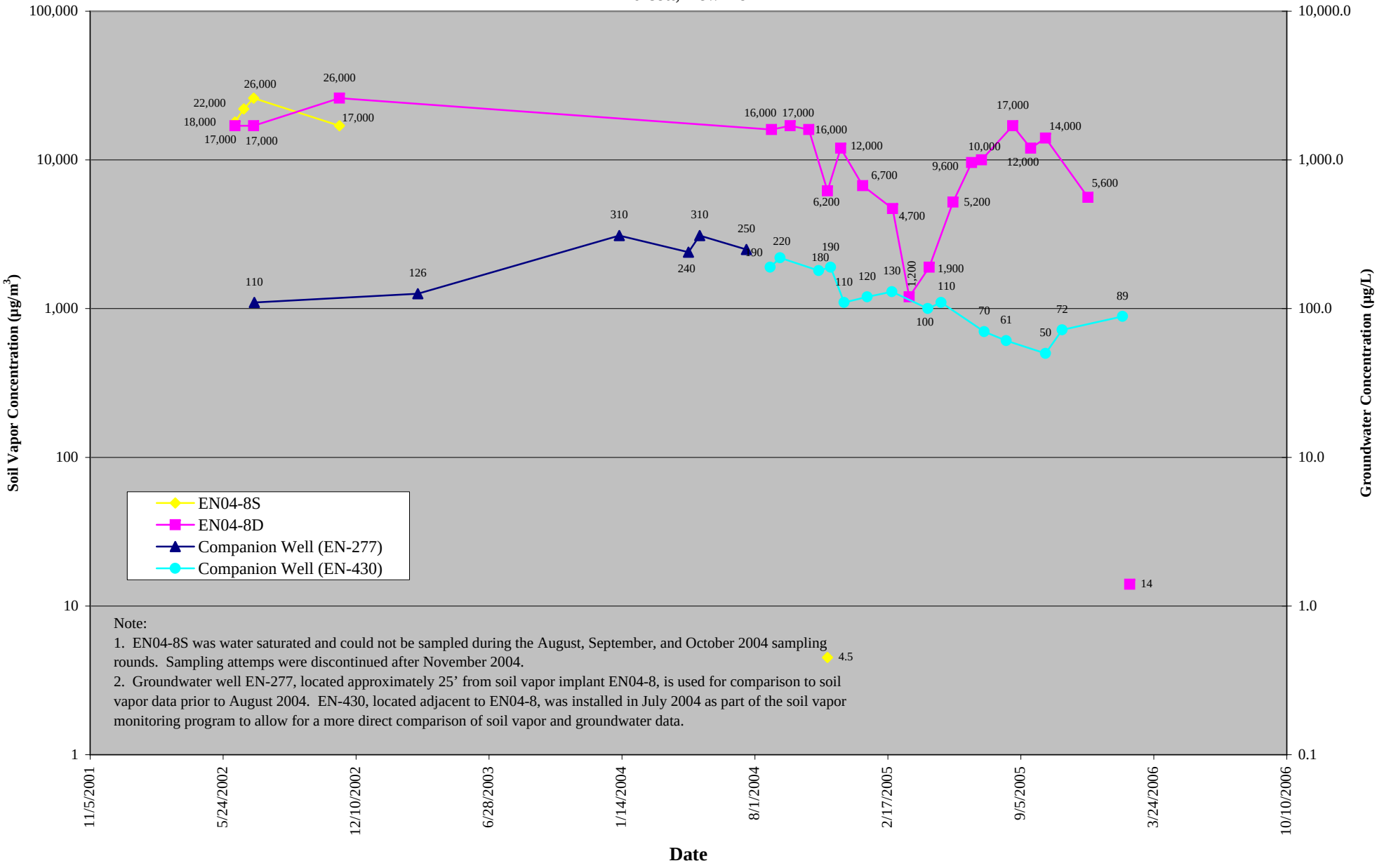

Figure B.9
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

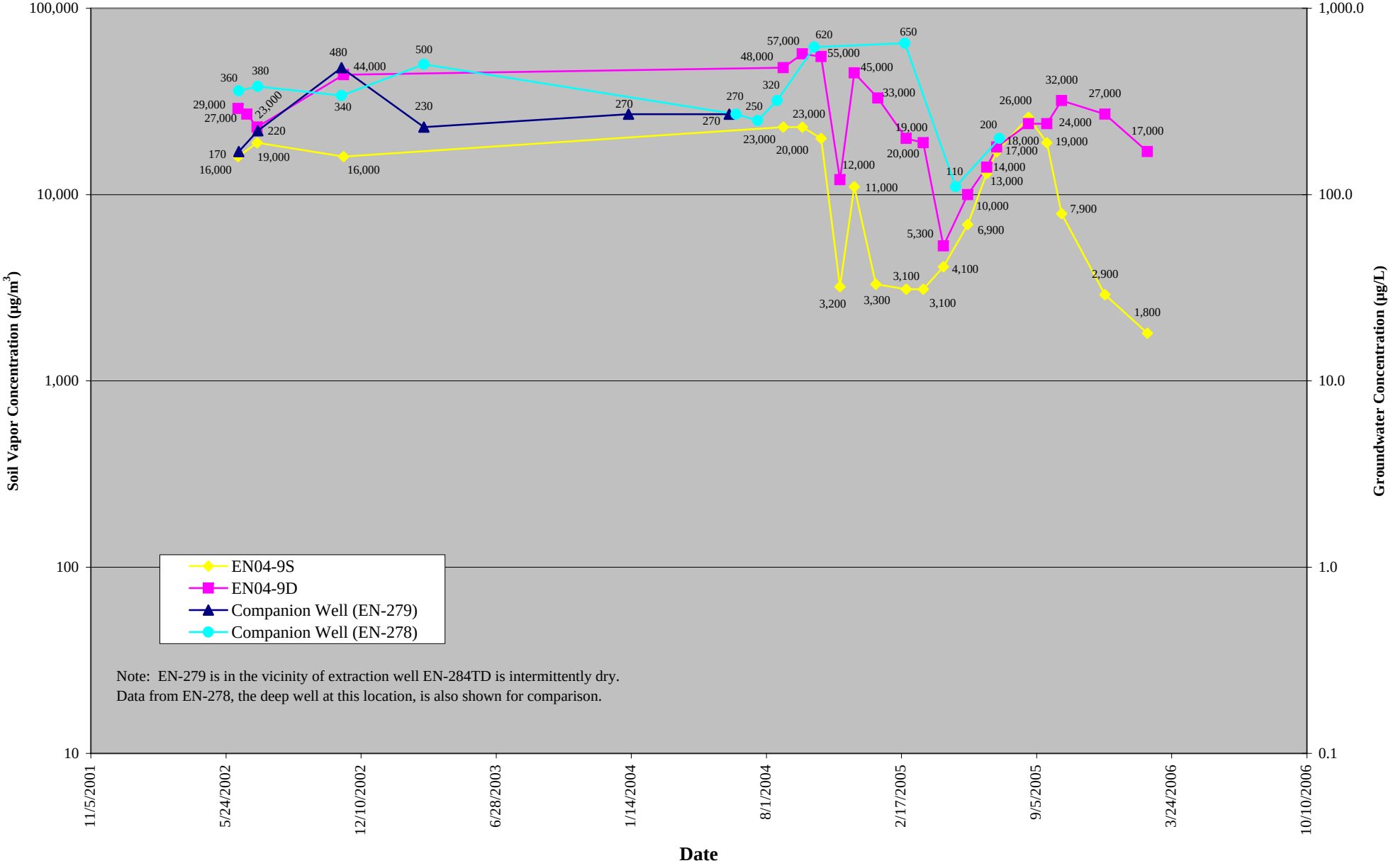

Figure B.10
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

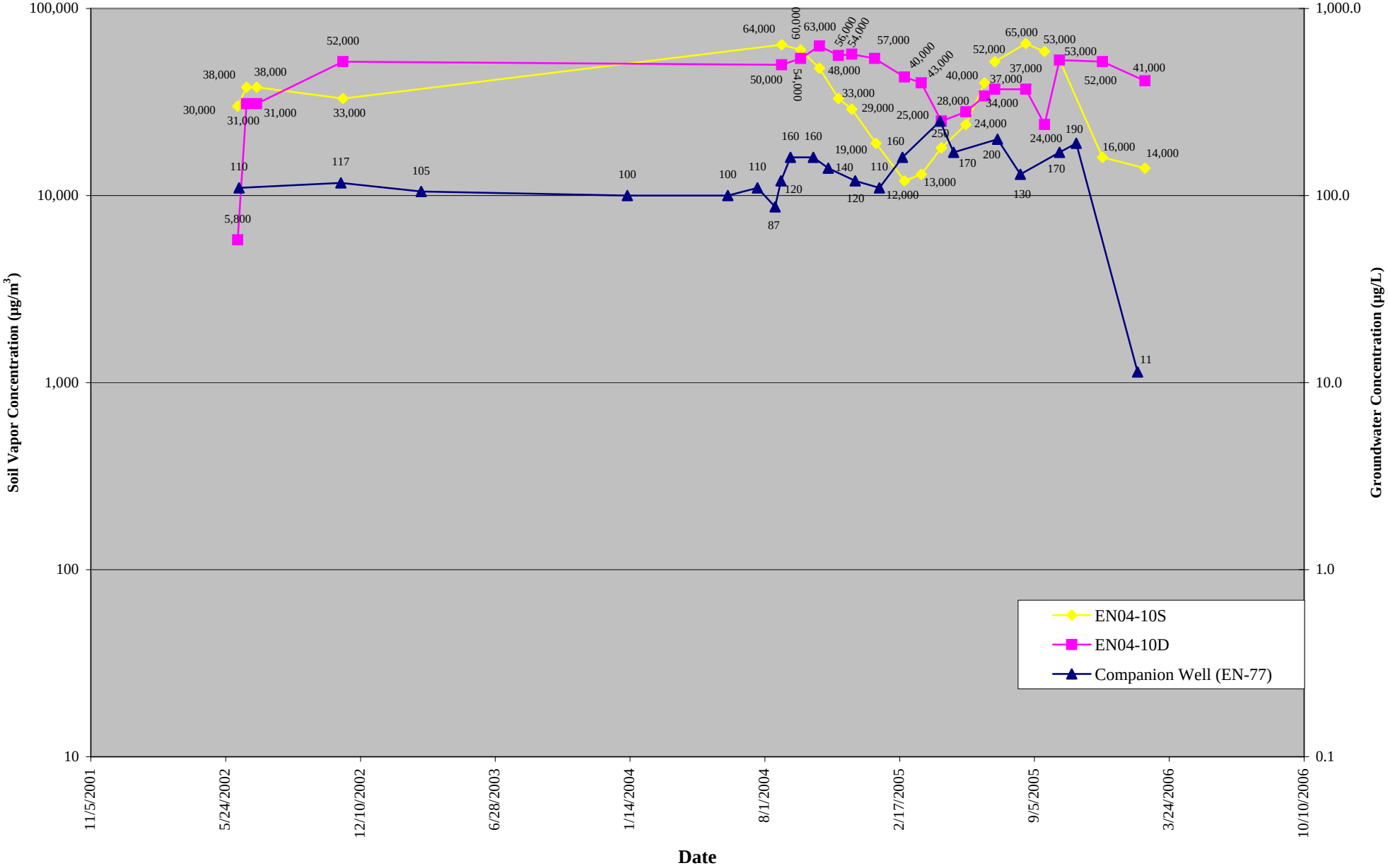

Figure B.11
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

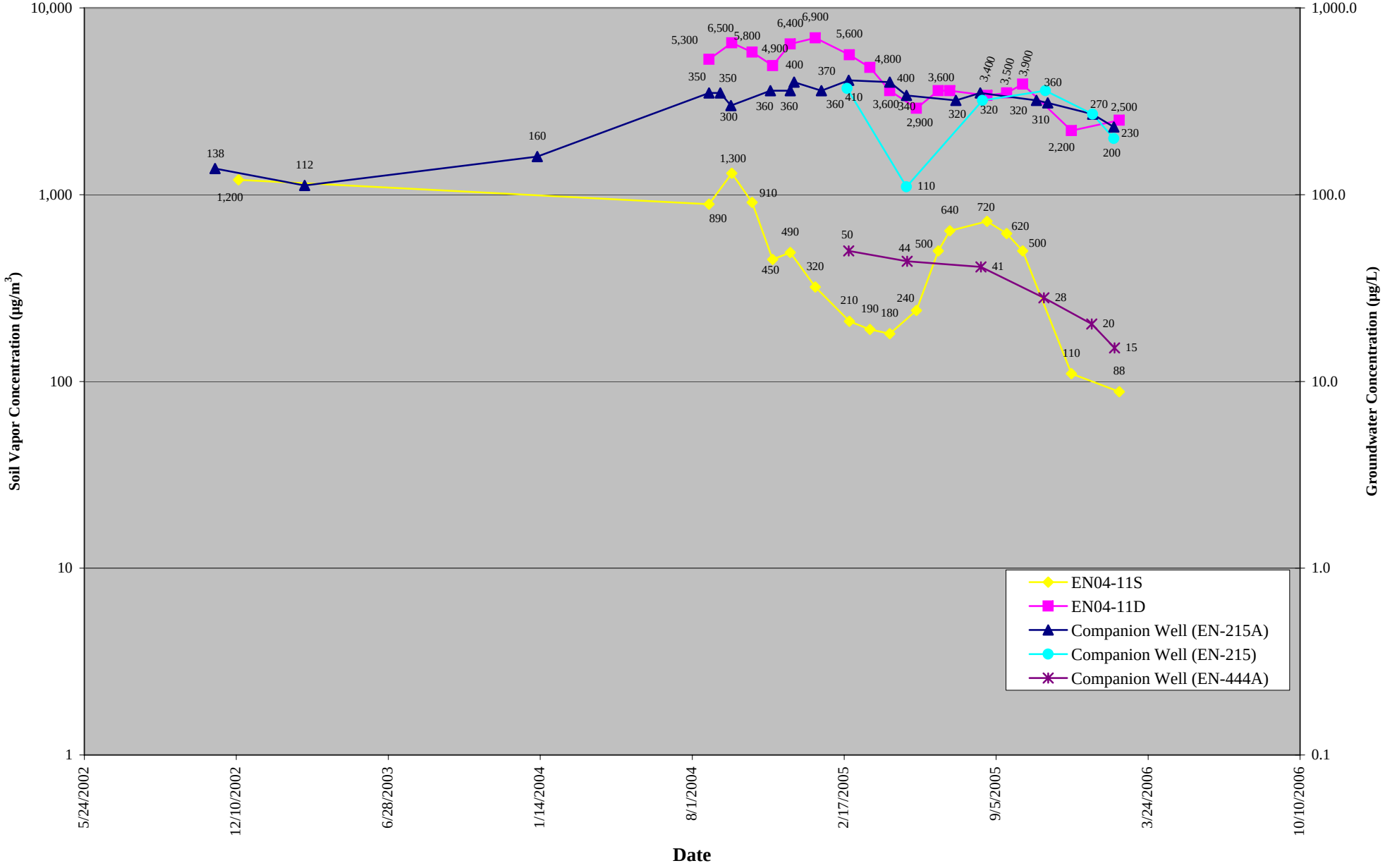

Figure B.12
TCE in Soil Vapor and Groundwater
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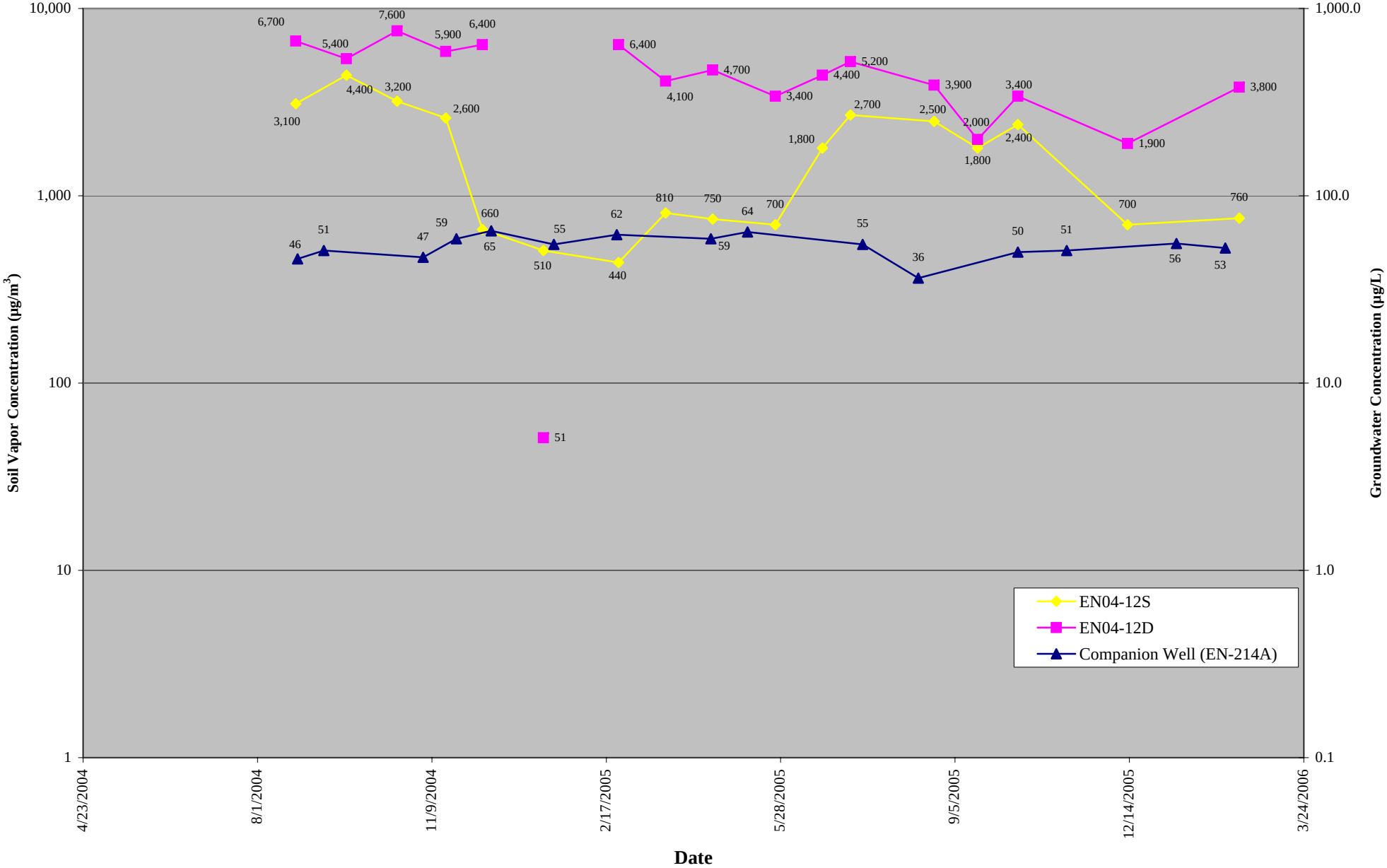
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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TCE in Soil Vapor and Groundwater
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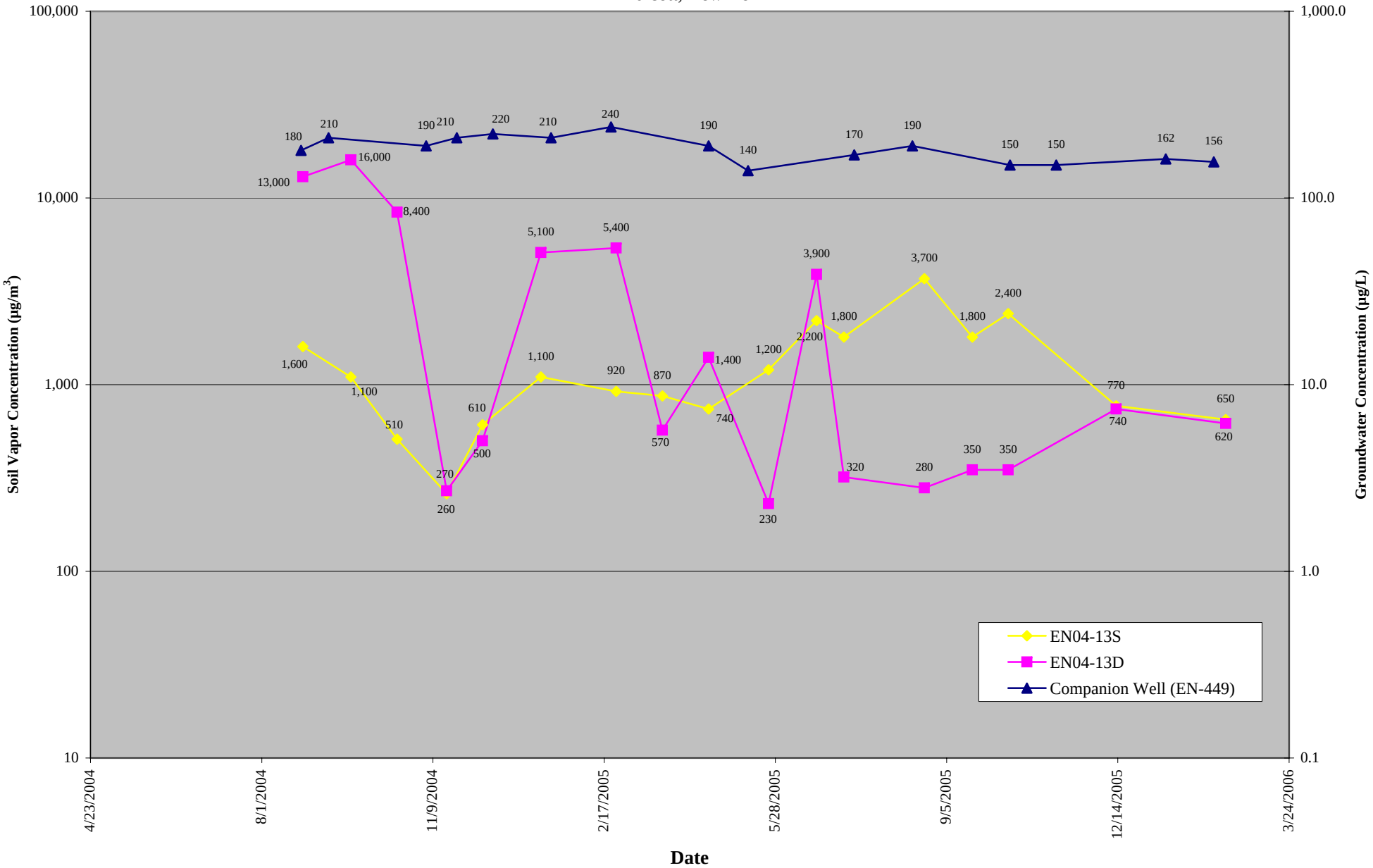
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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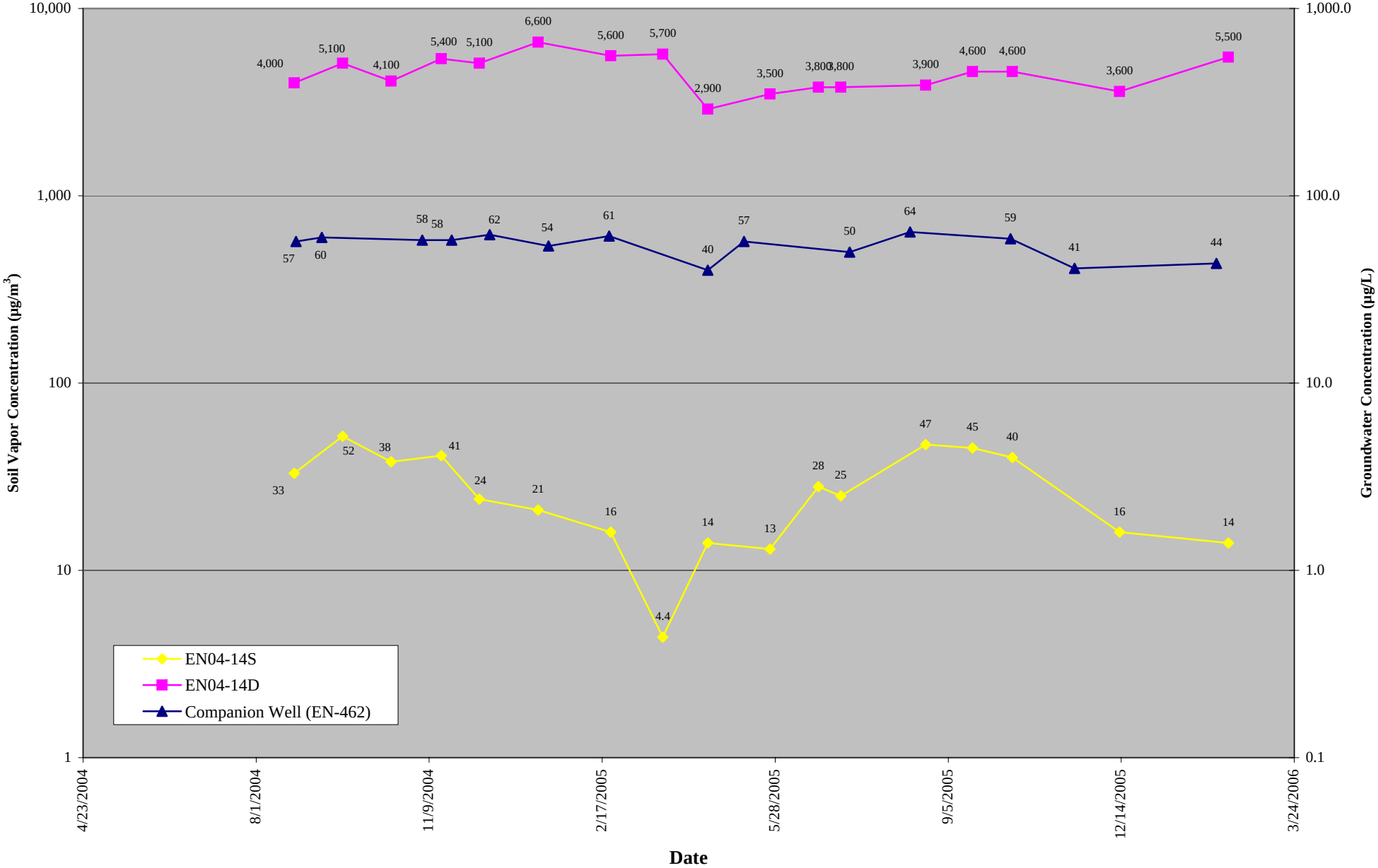
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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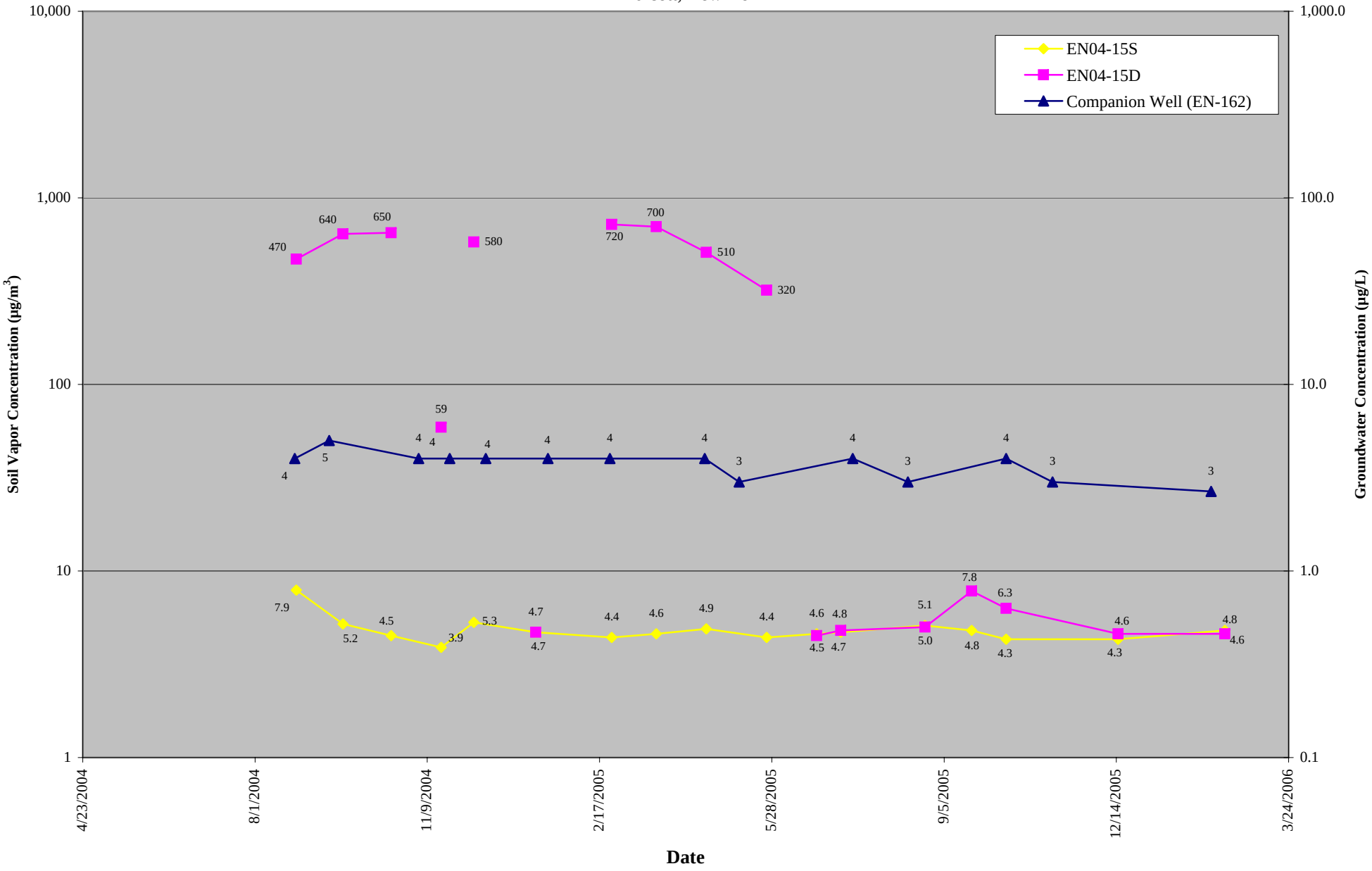
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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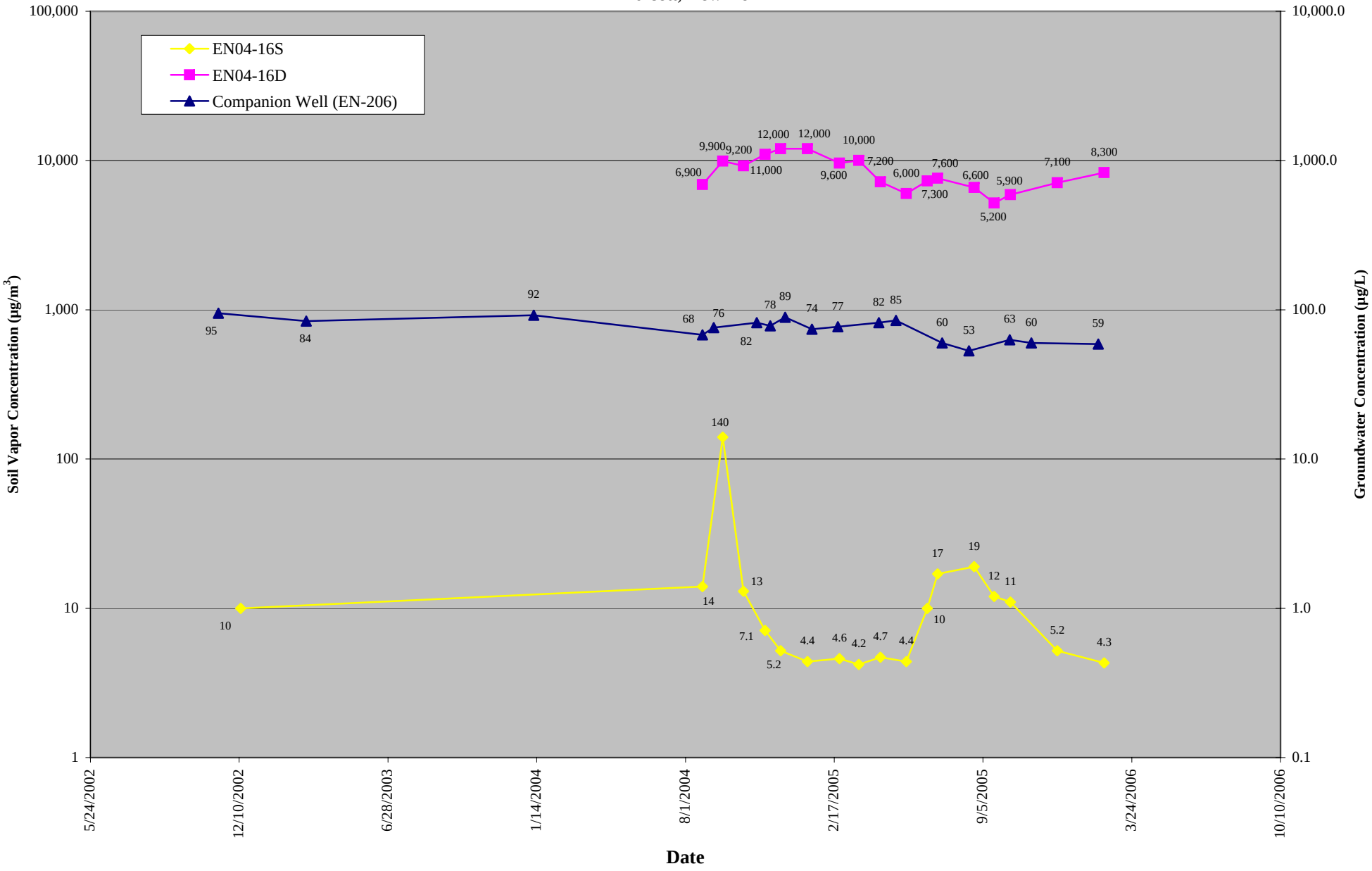
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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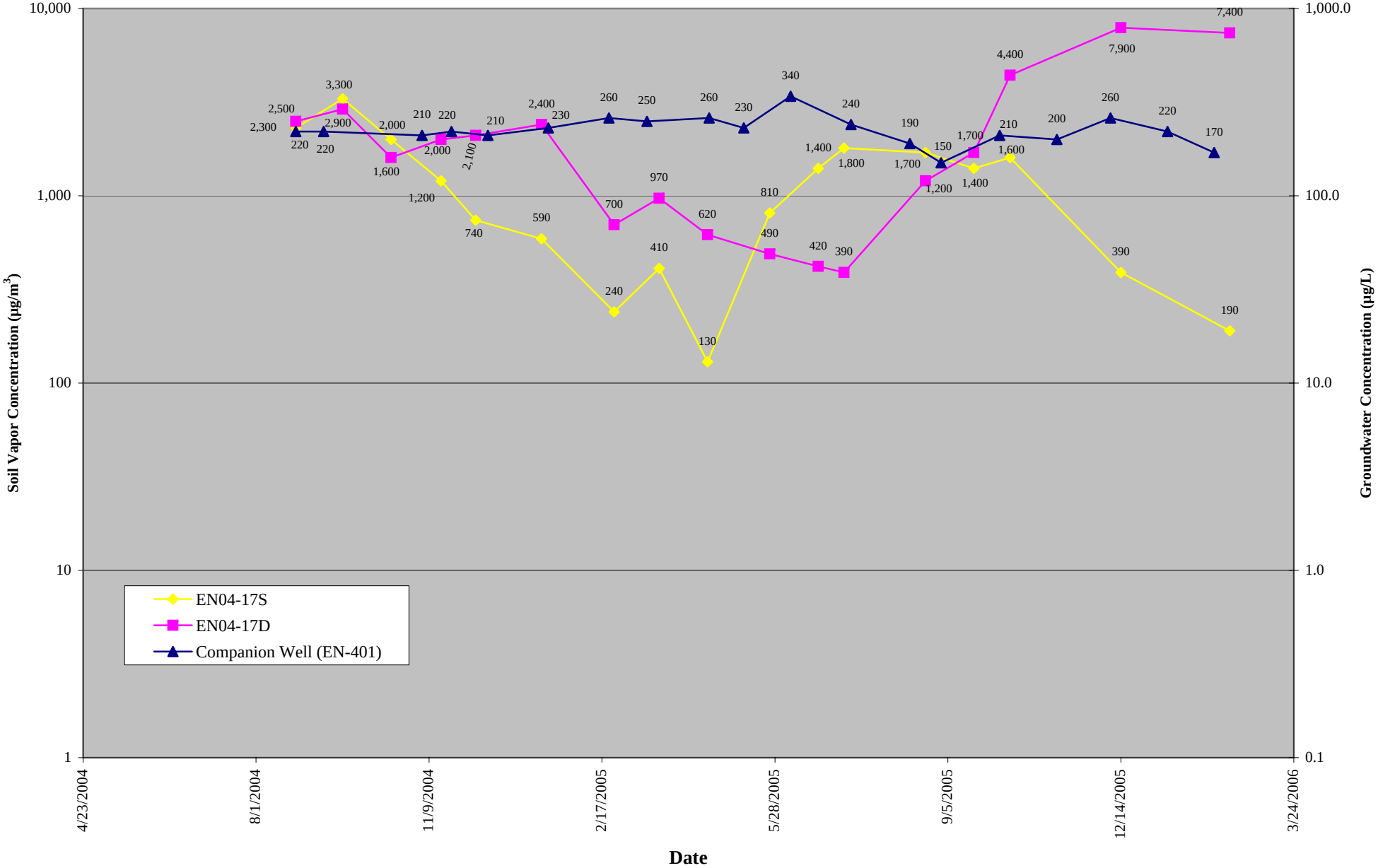
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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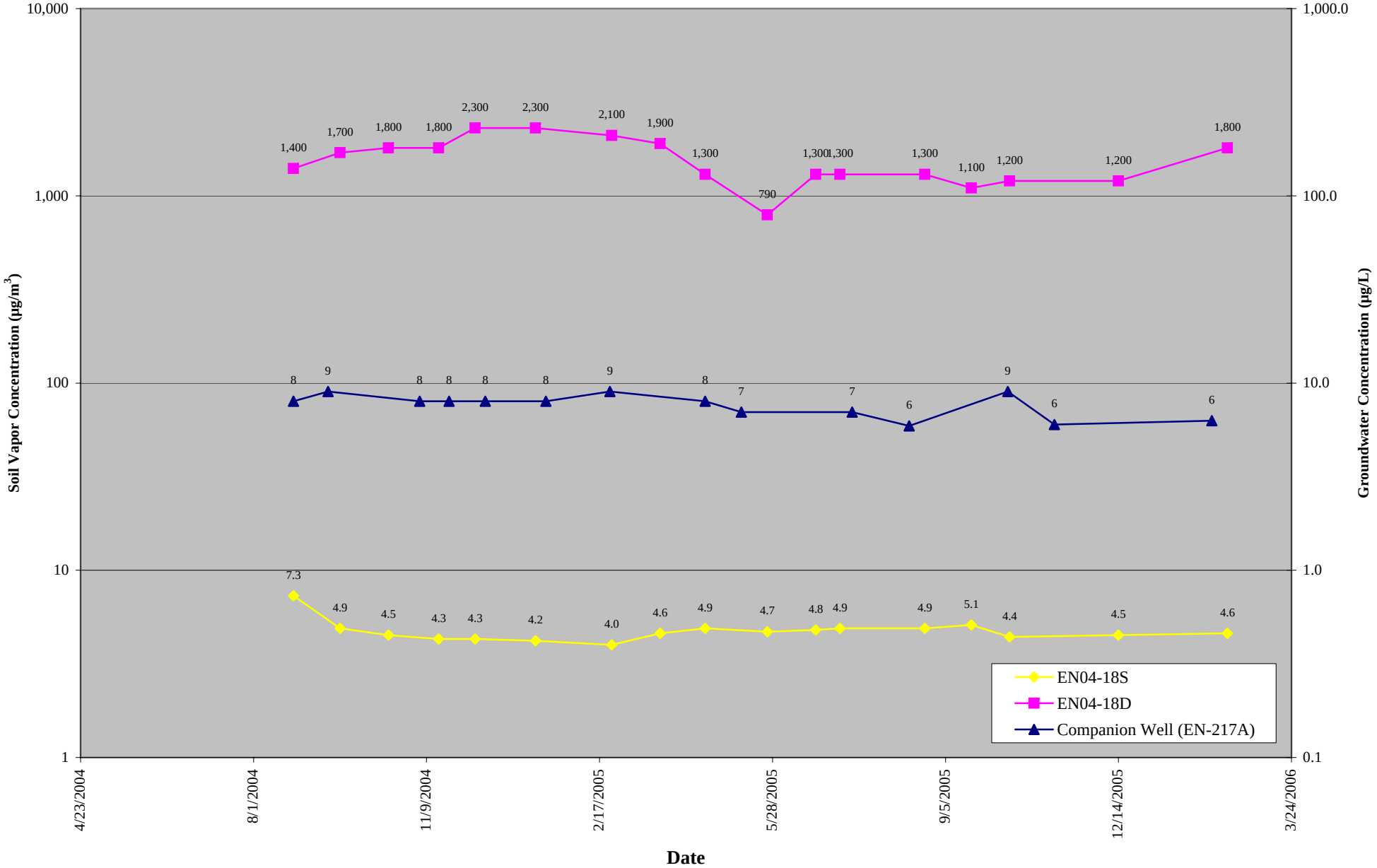
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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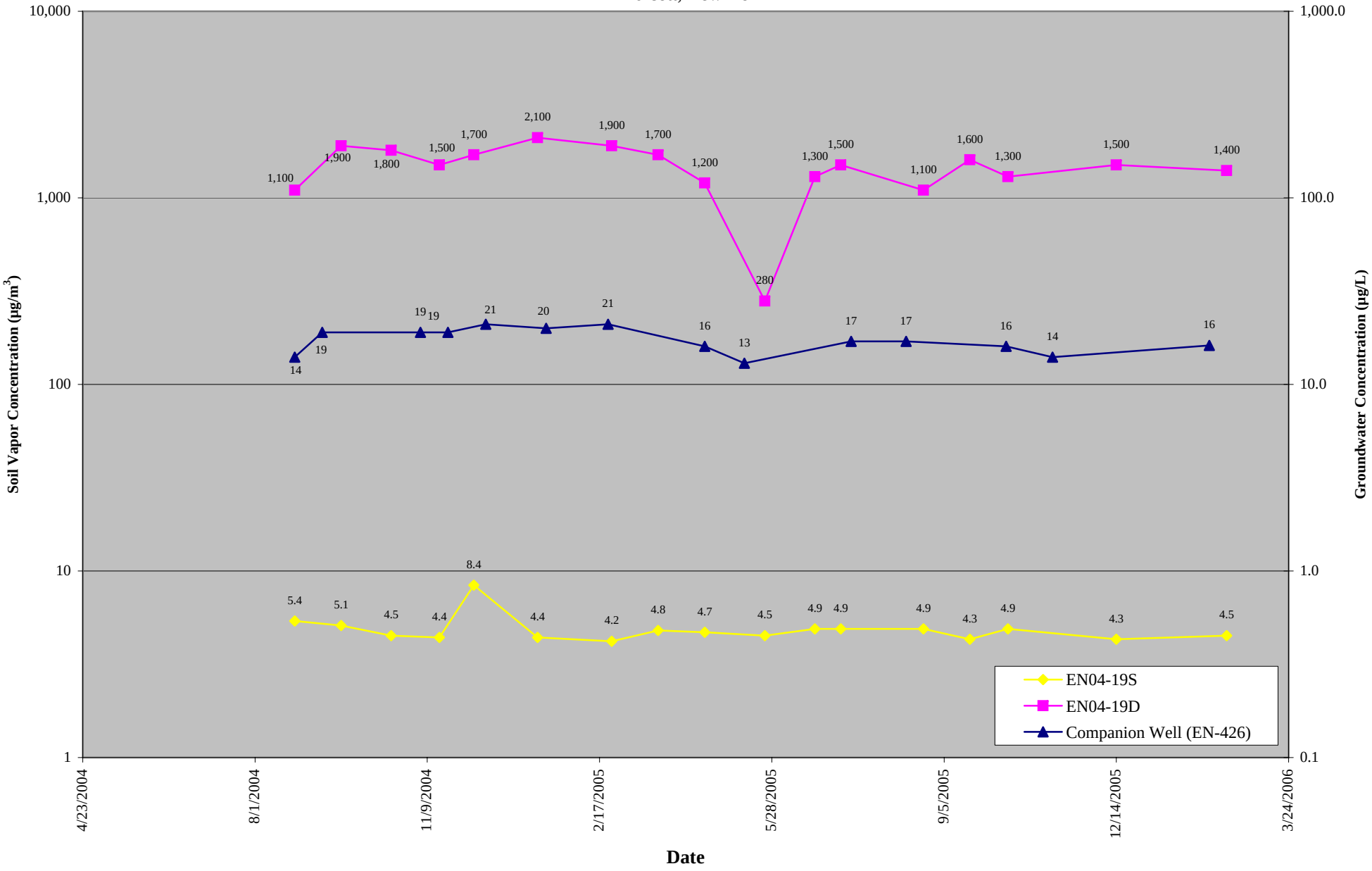
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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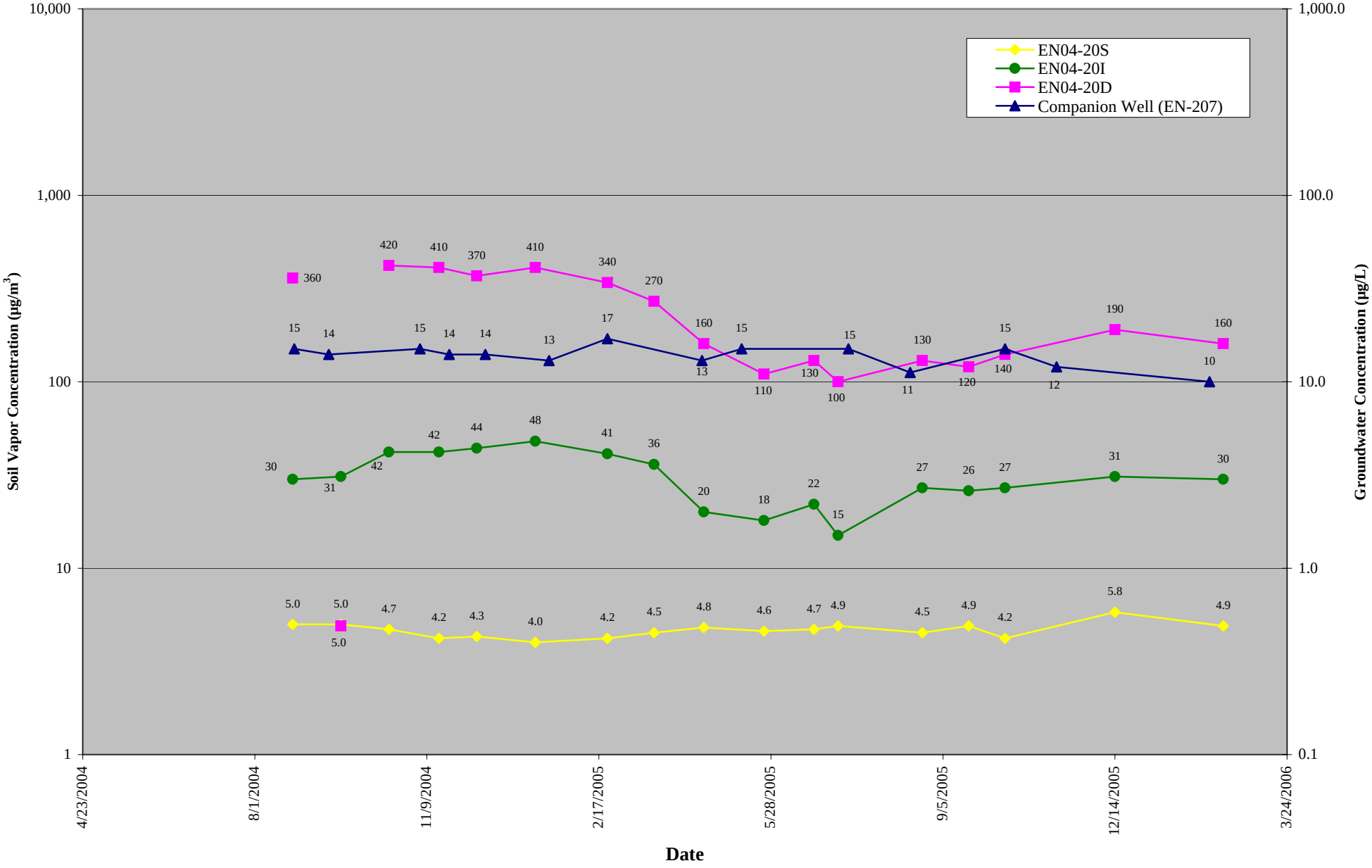
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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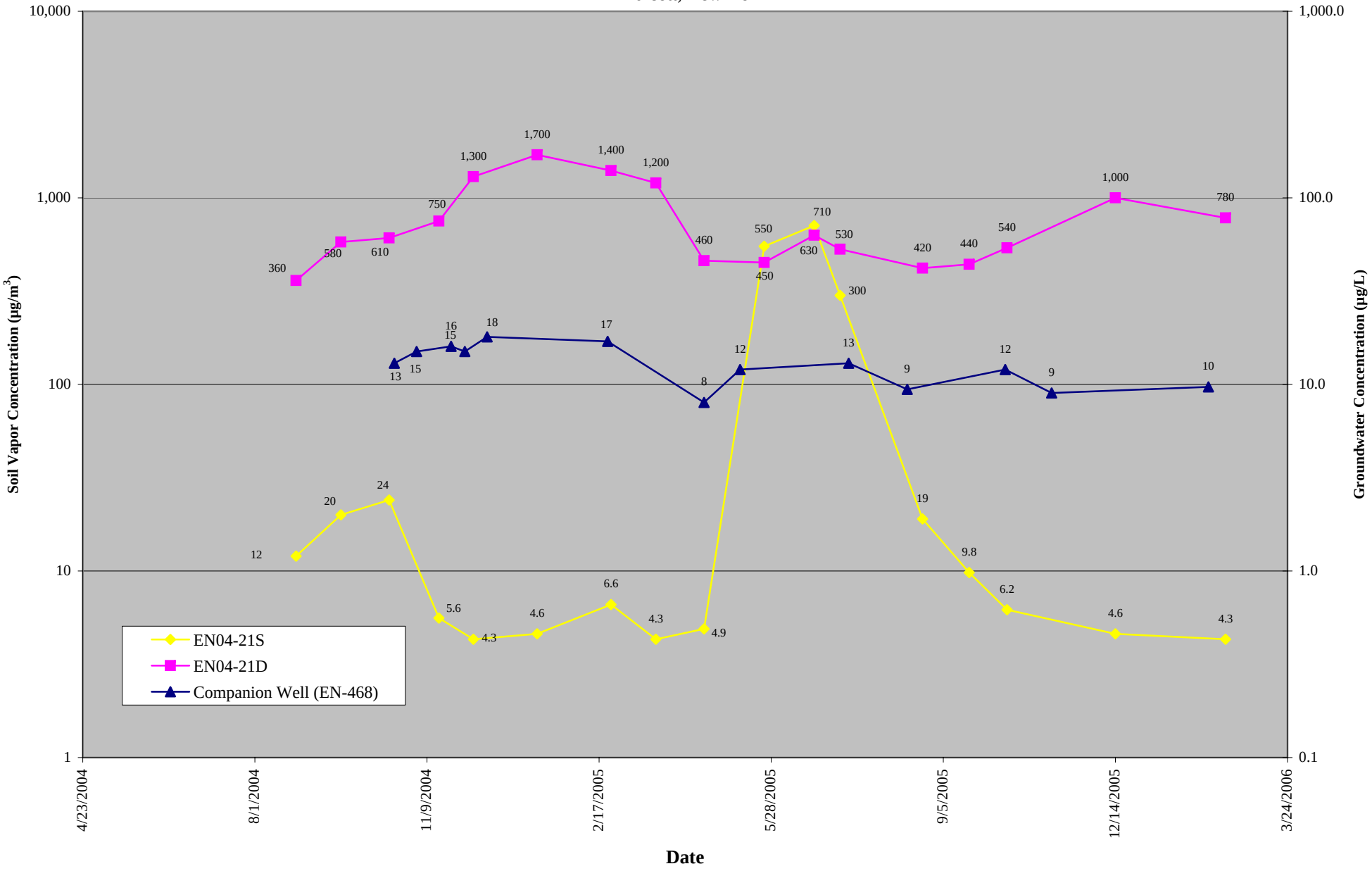
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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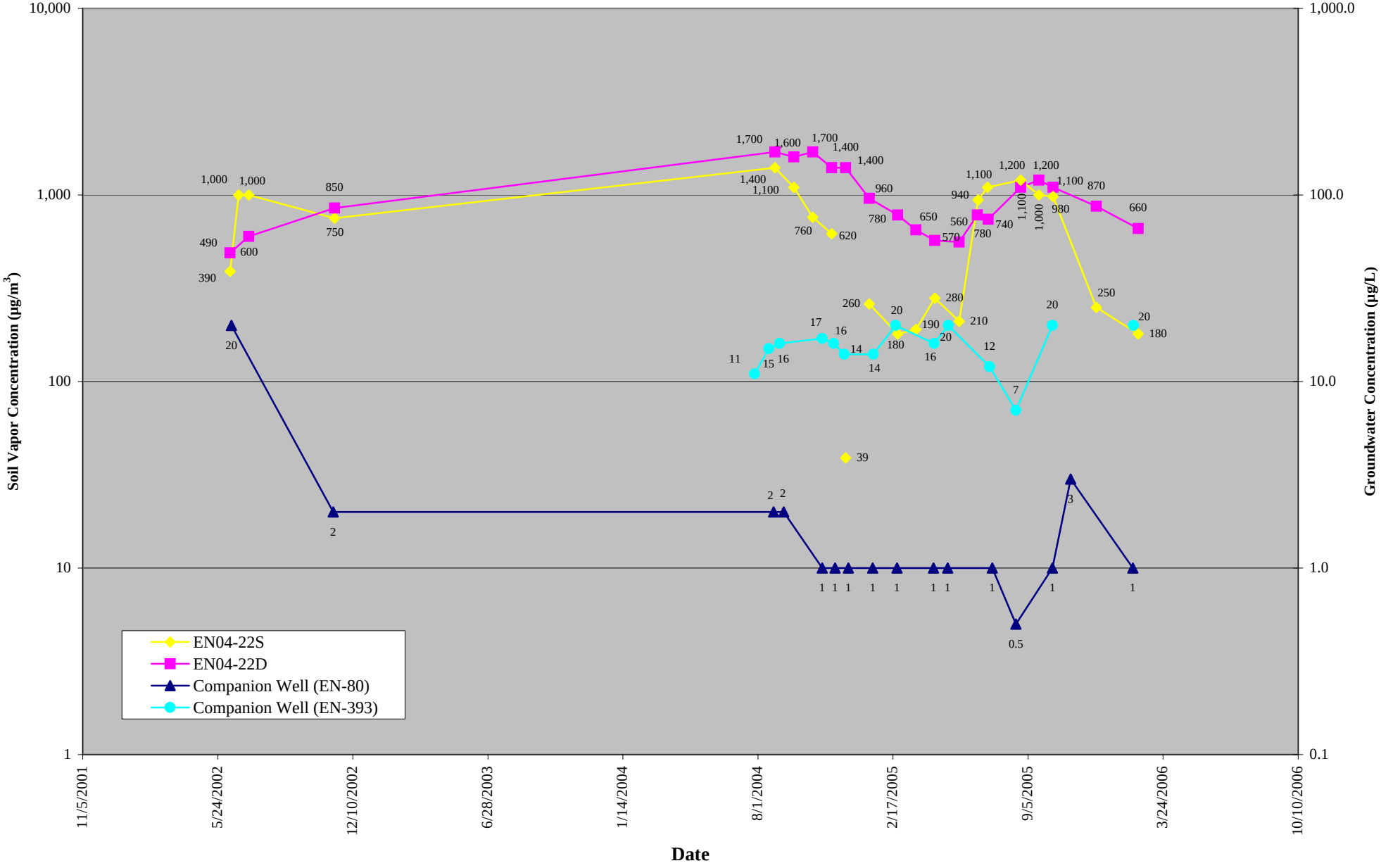
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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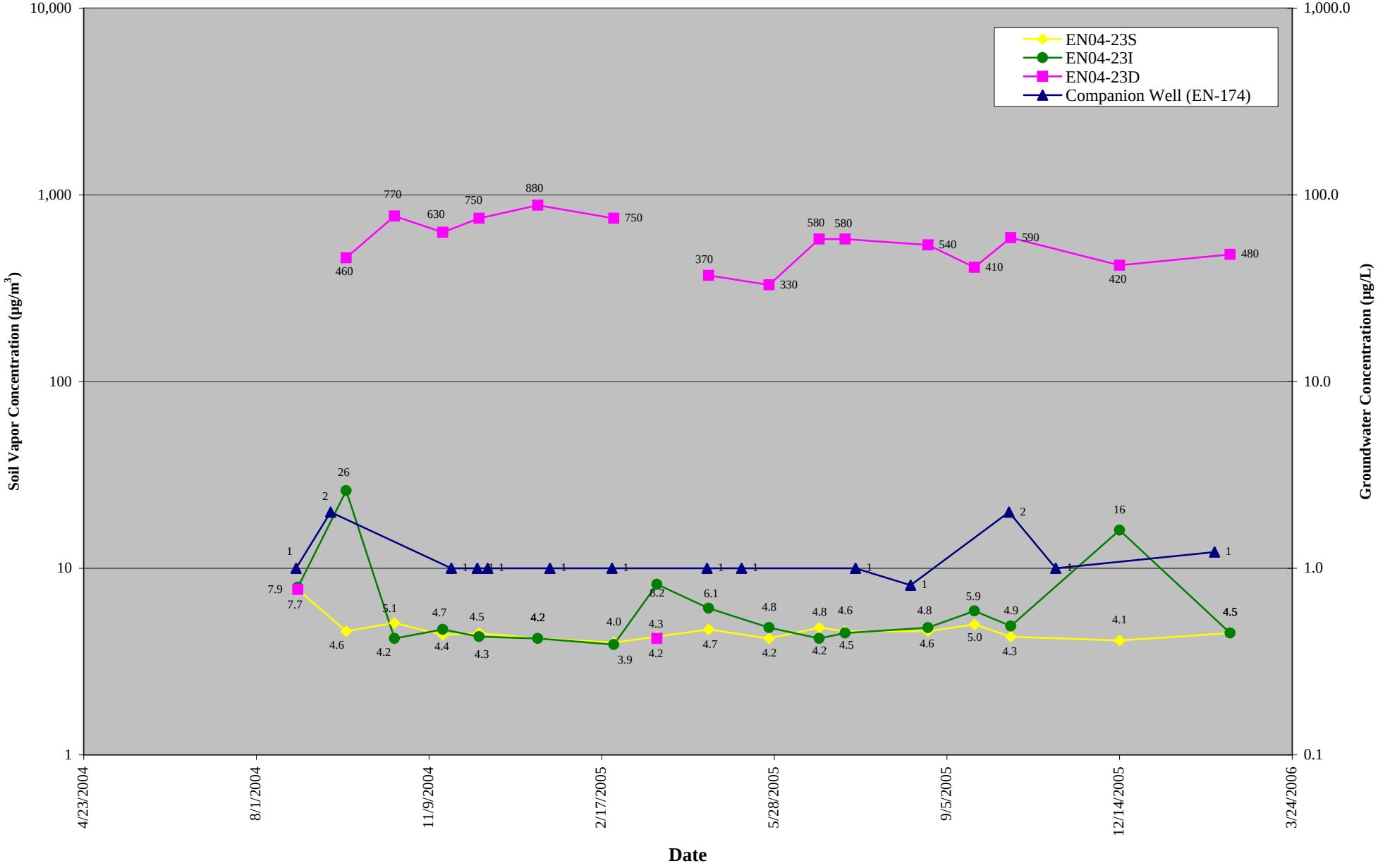
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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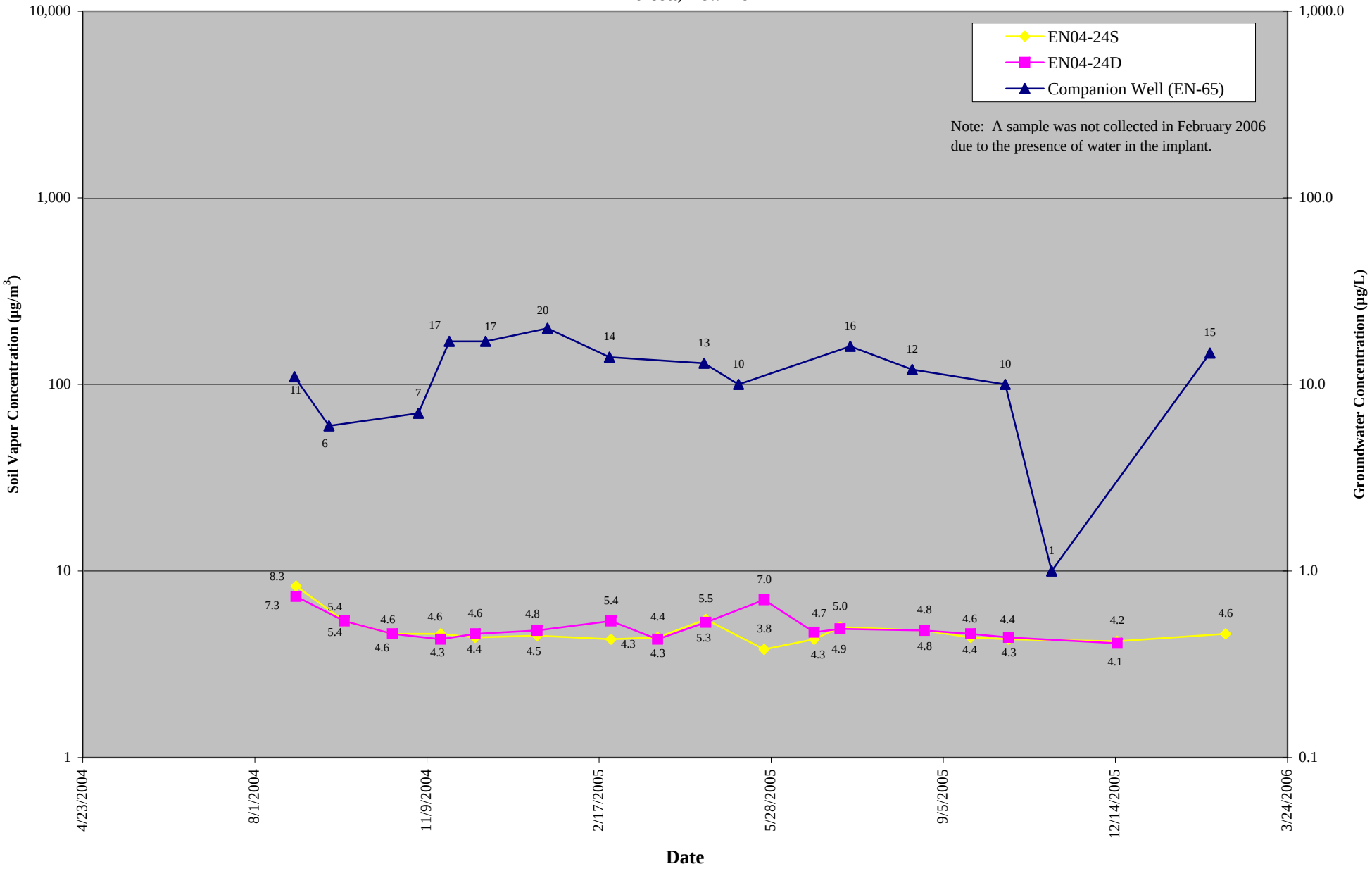
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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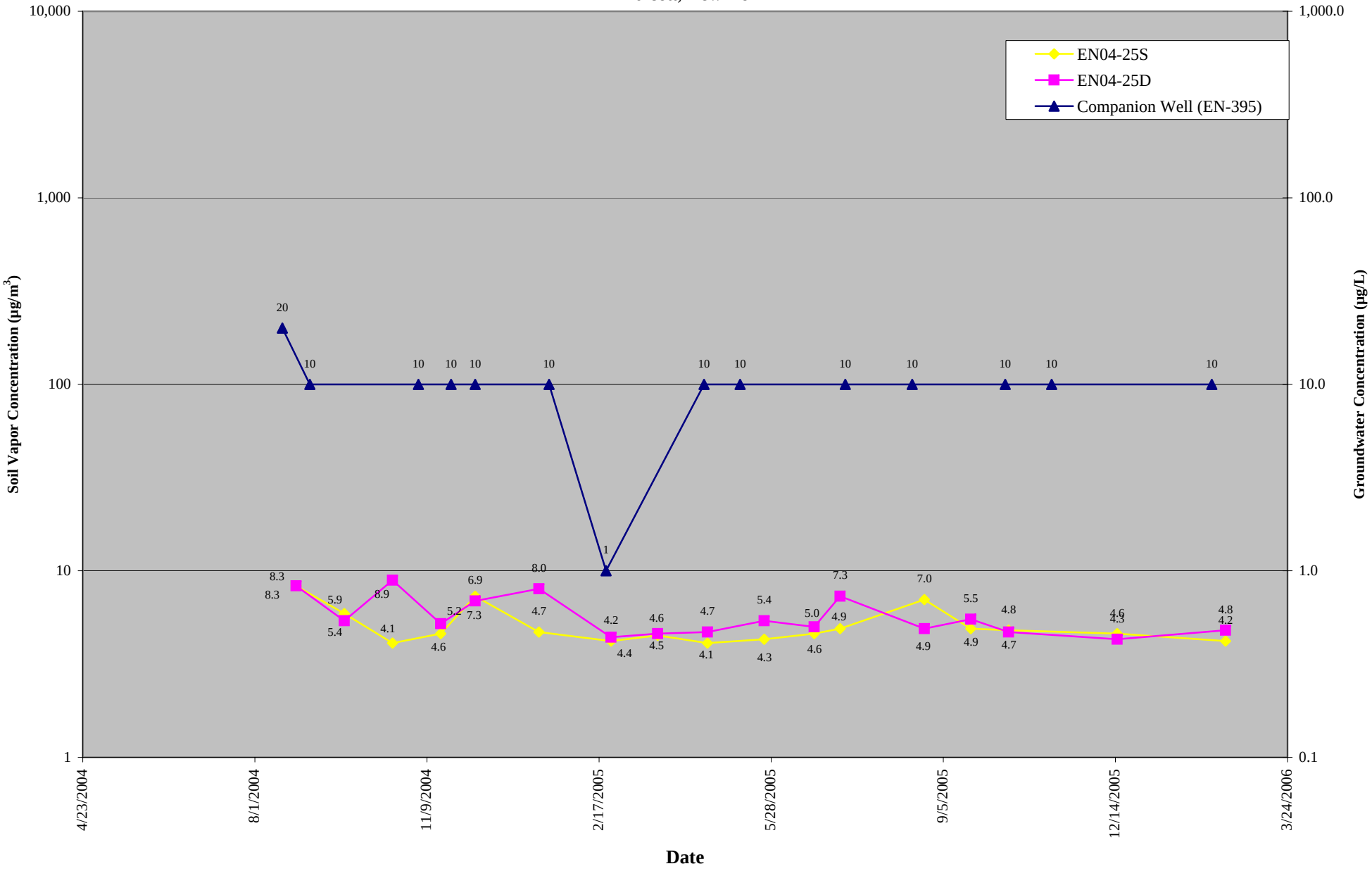
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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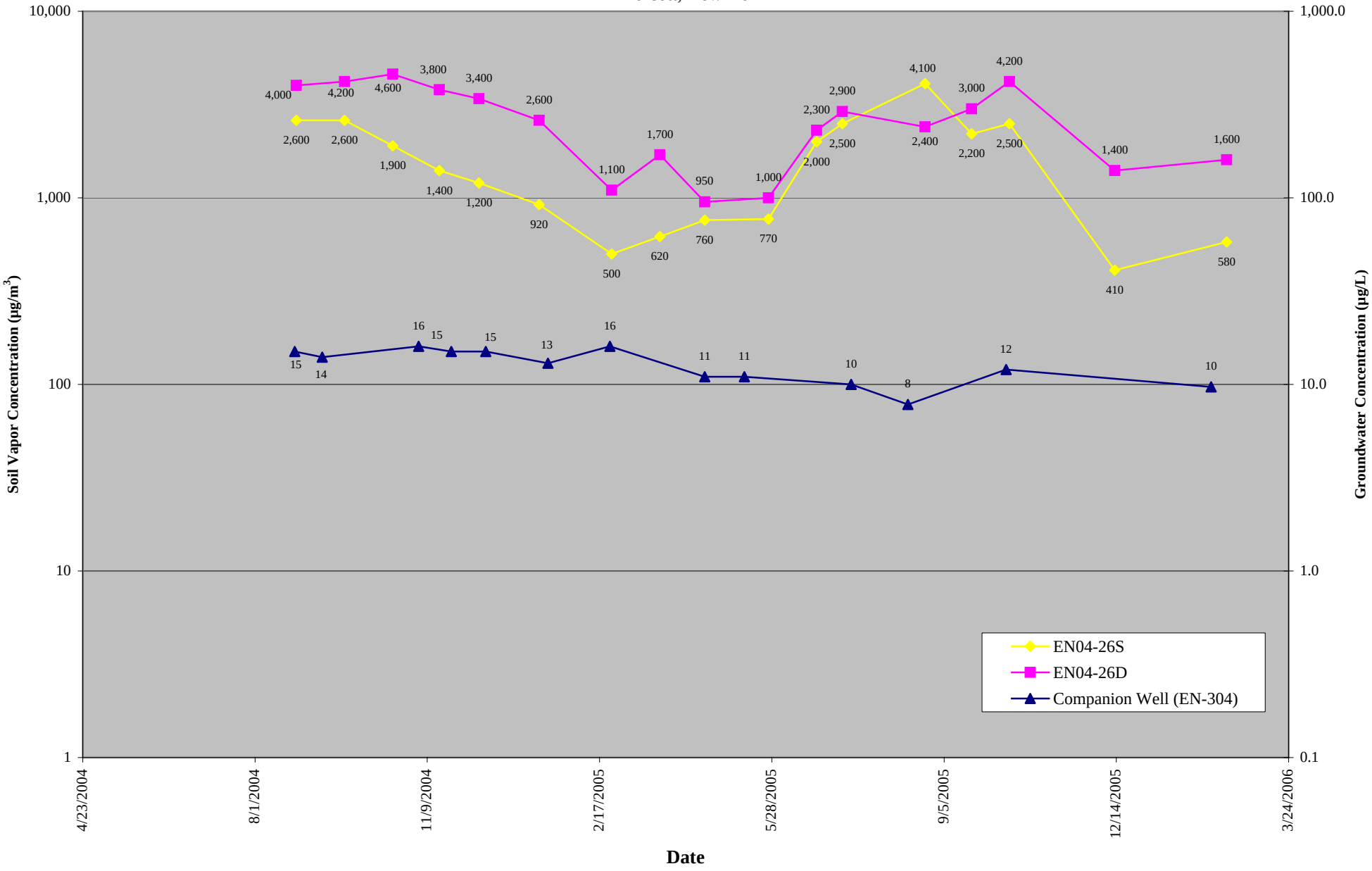
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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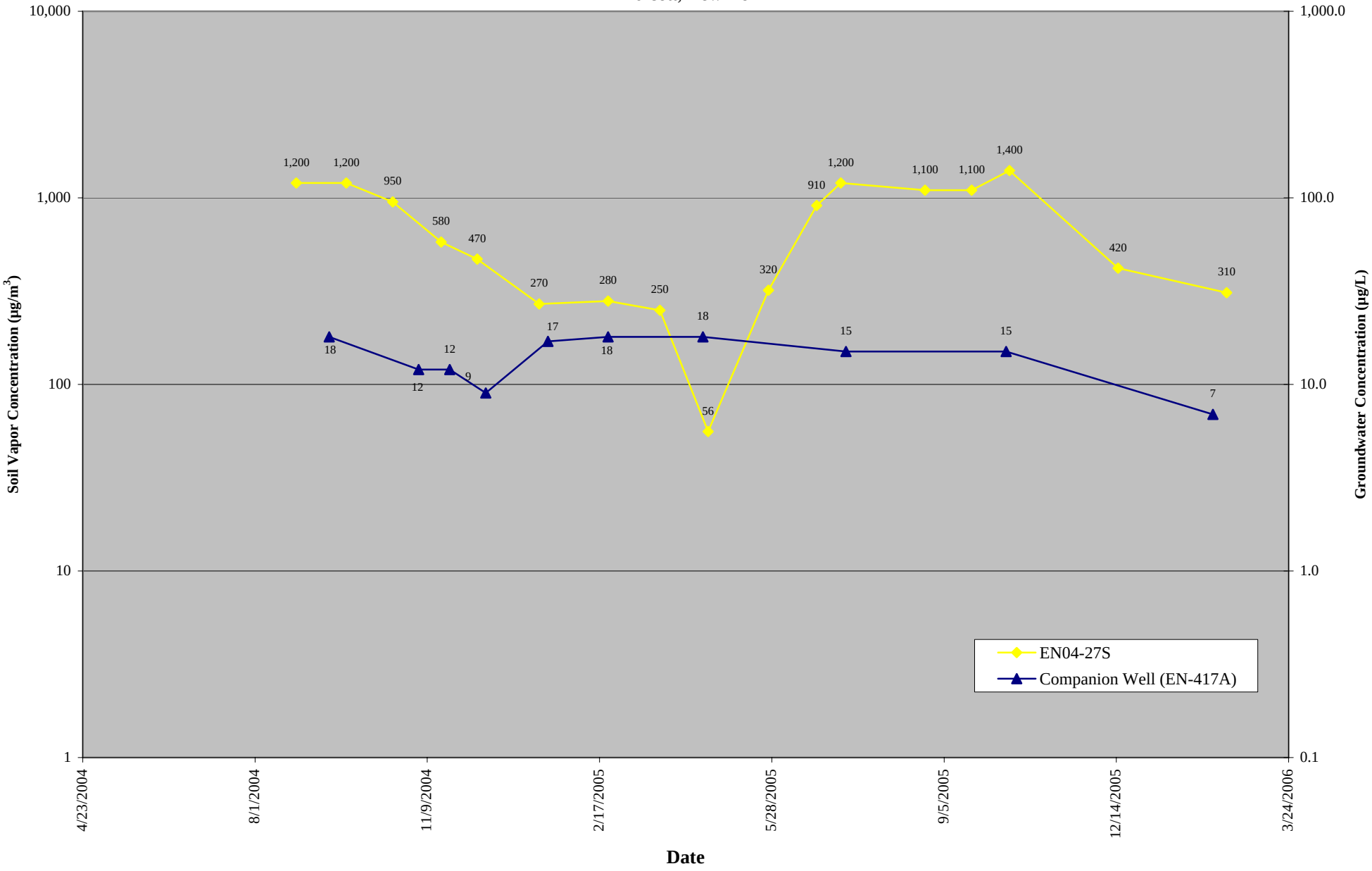
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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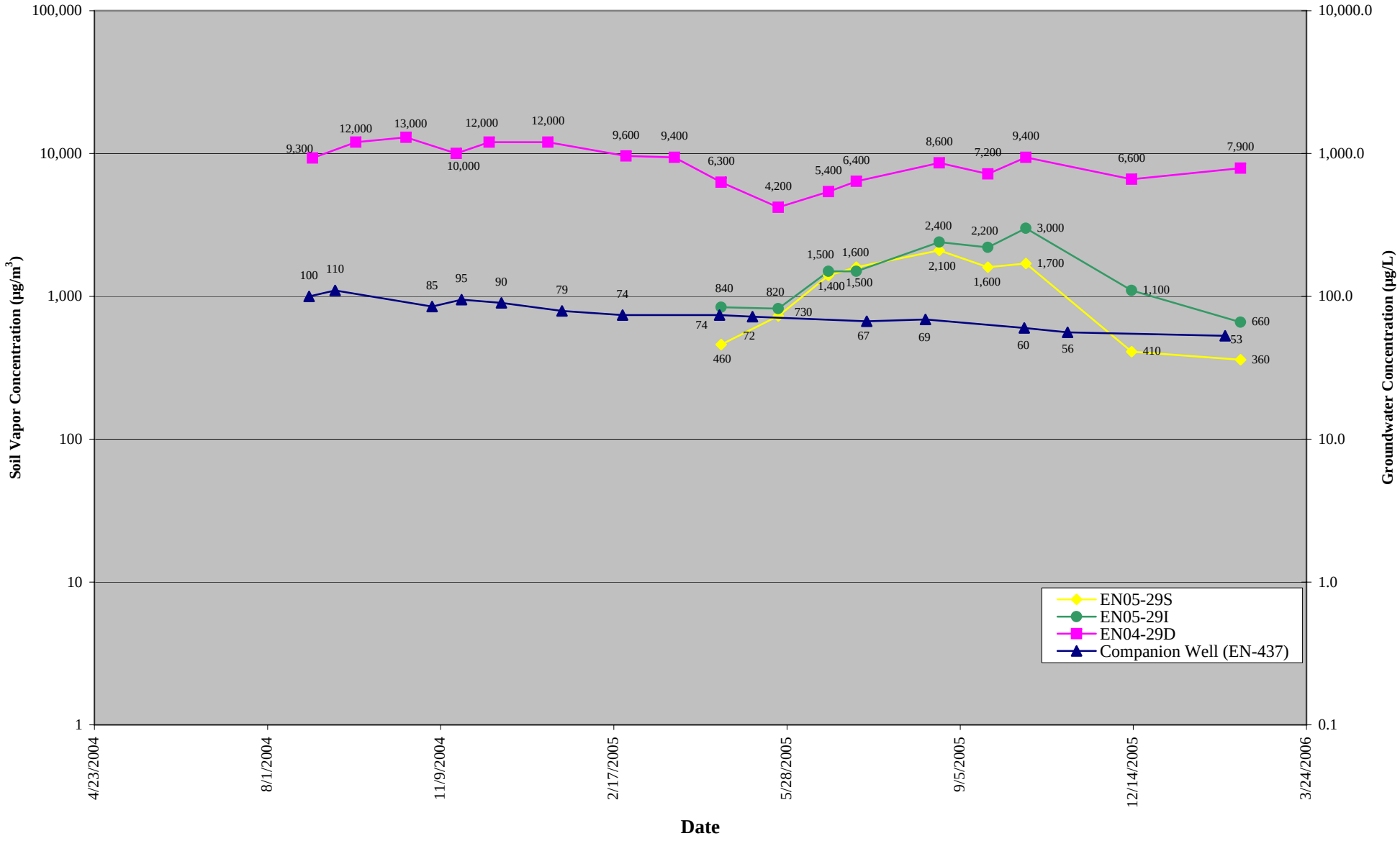
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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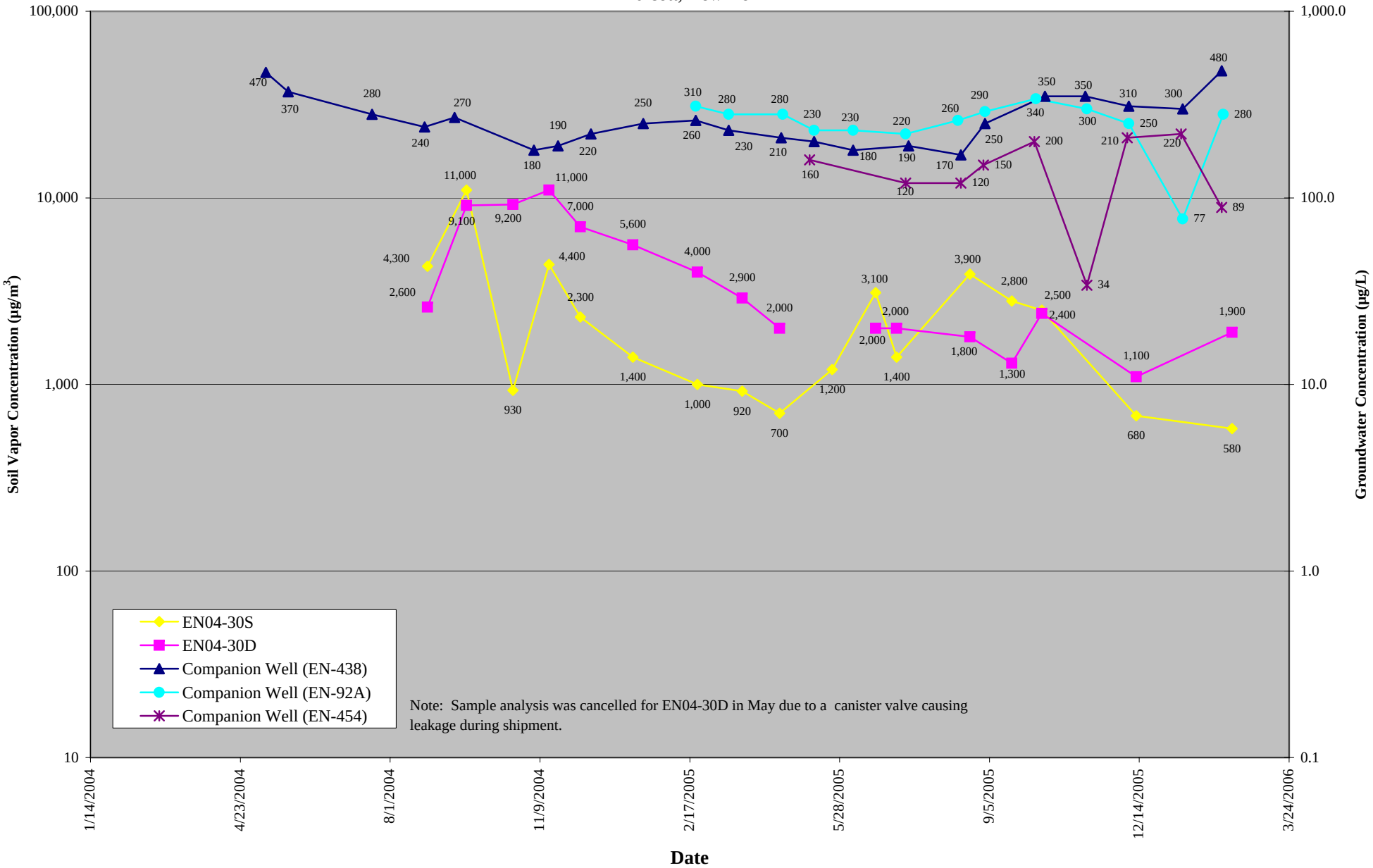
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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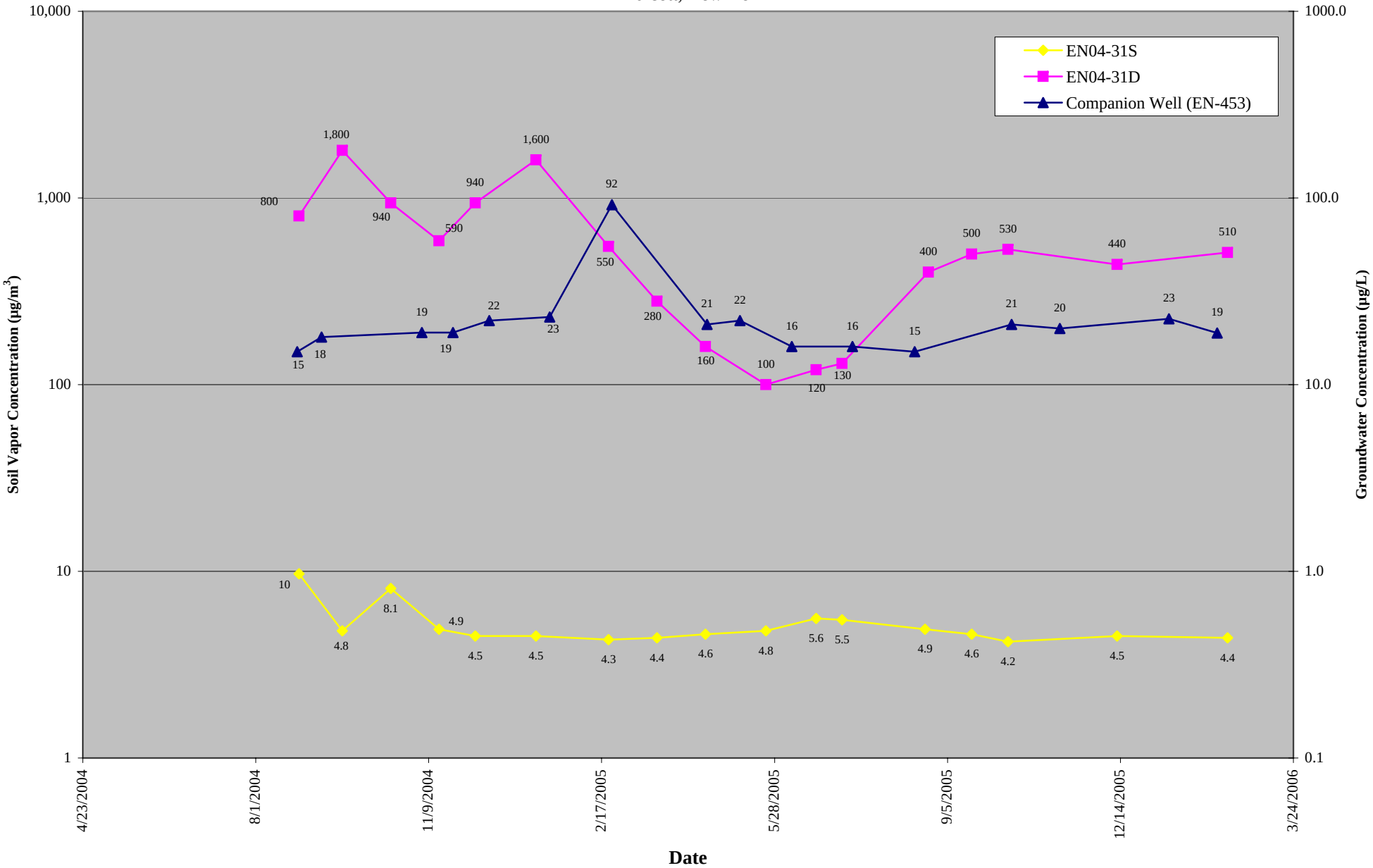
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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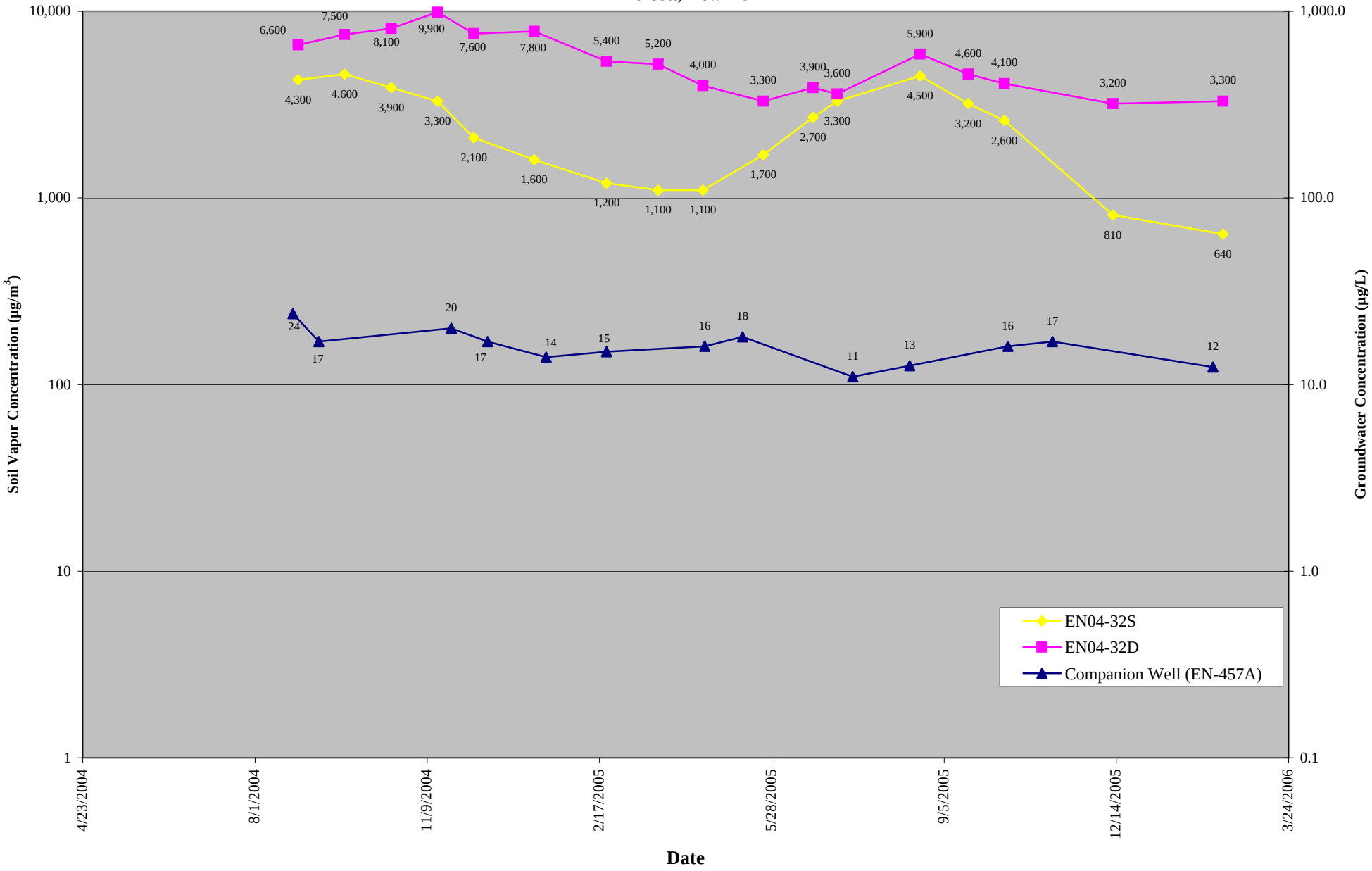
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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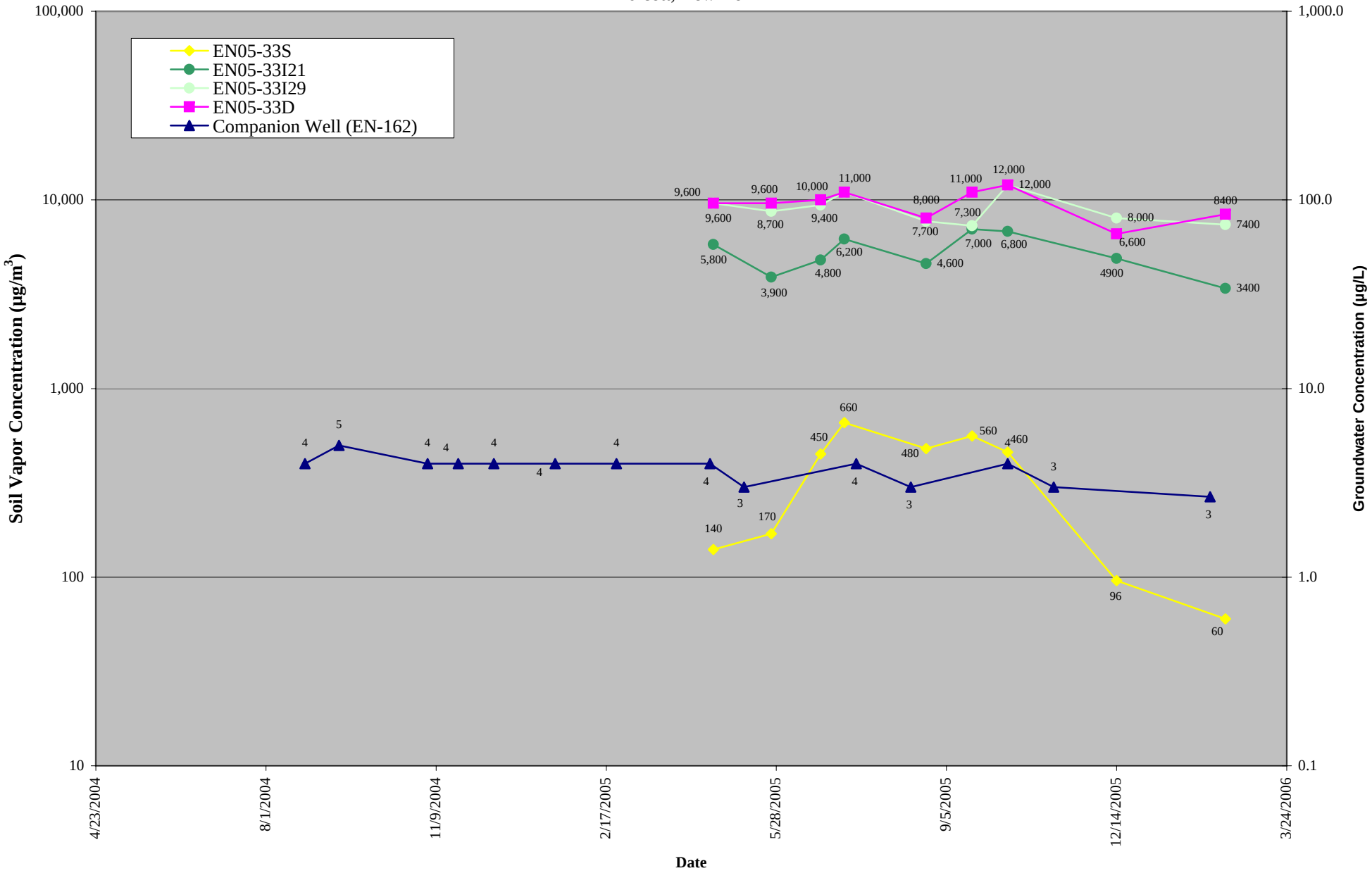
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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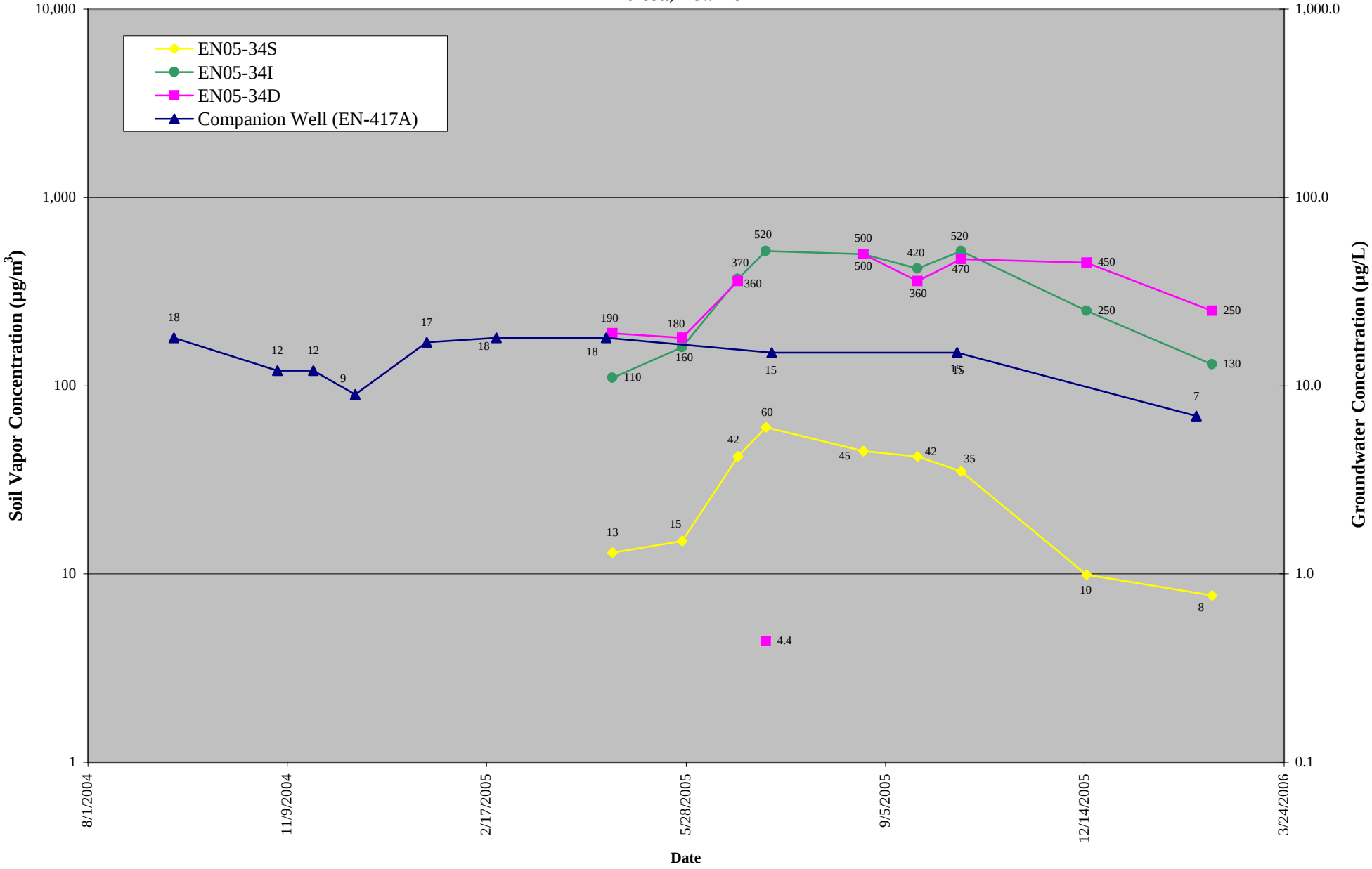
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



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TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

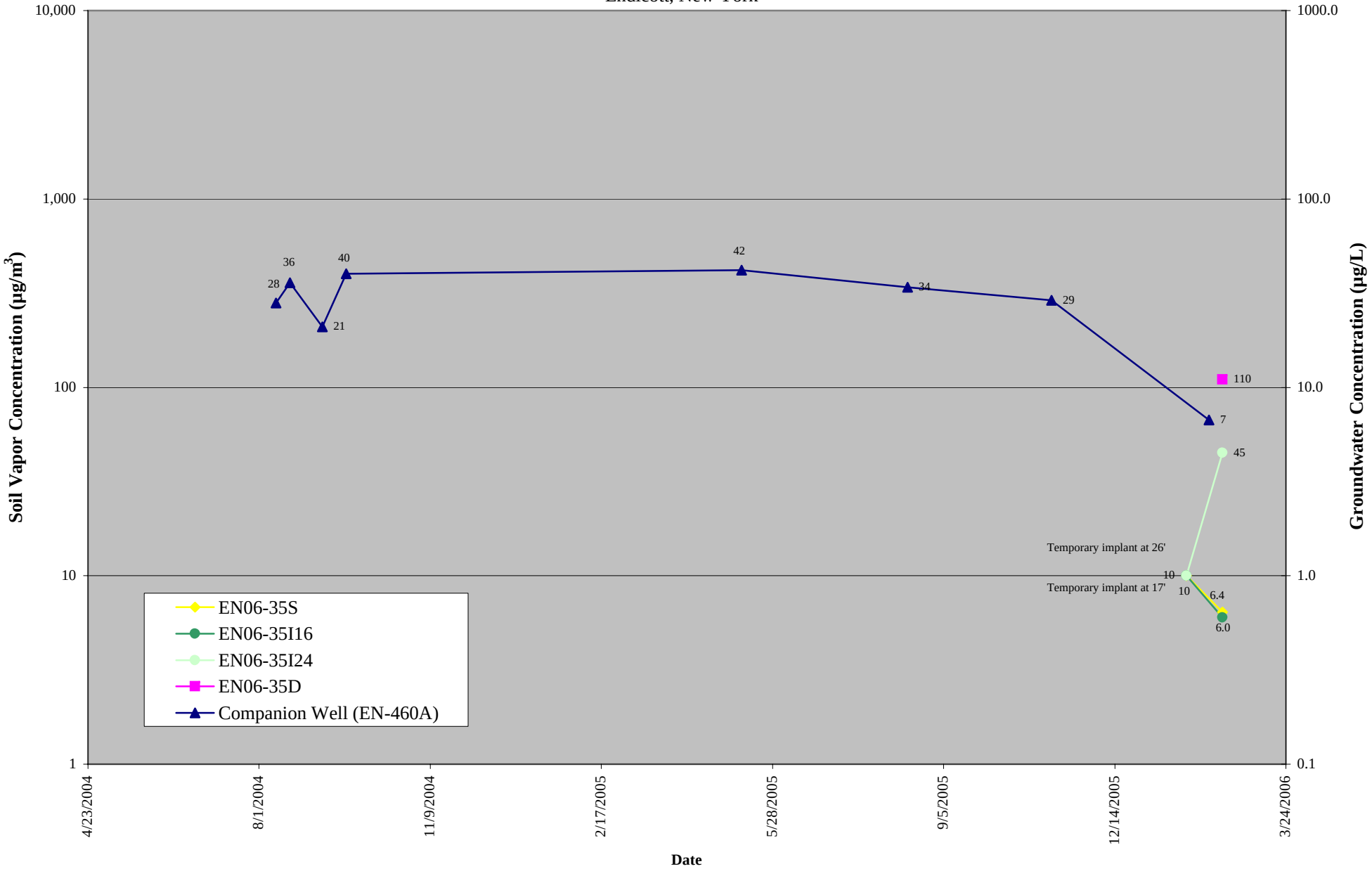


Figure B.36
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

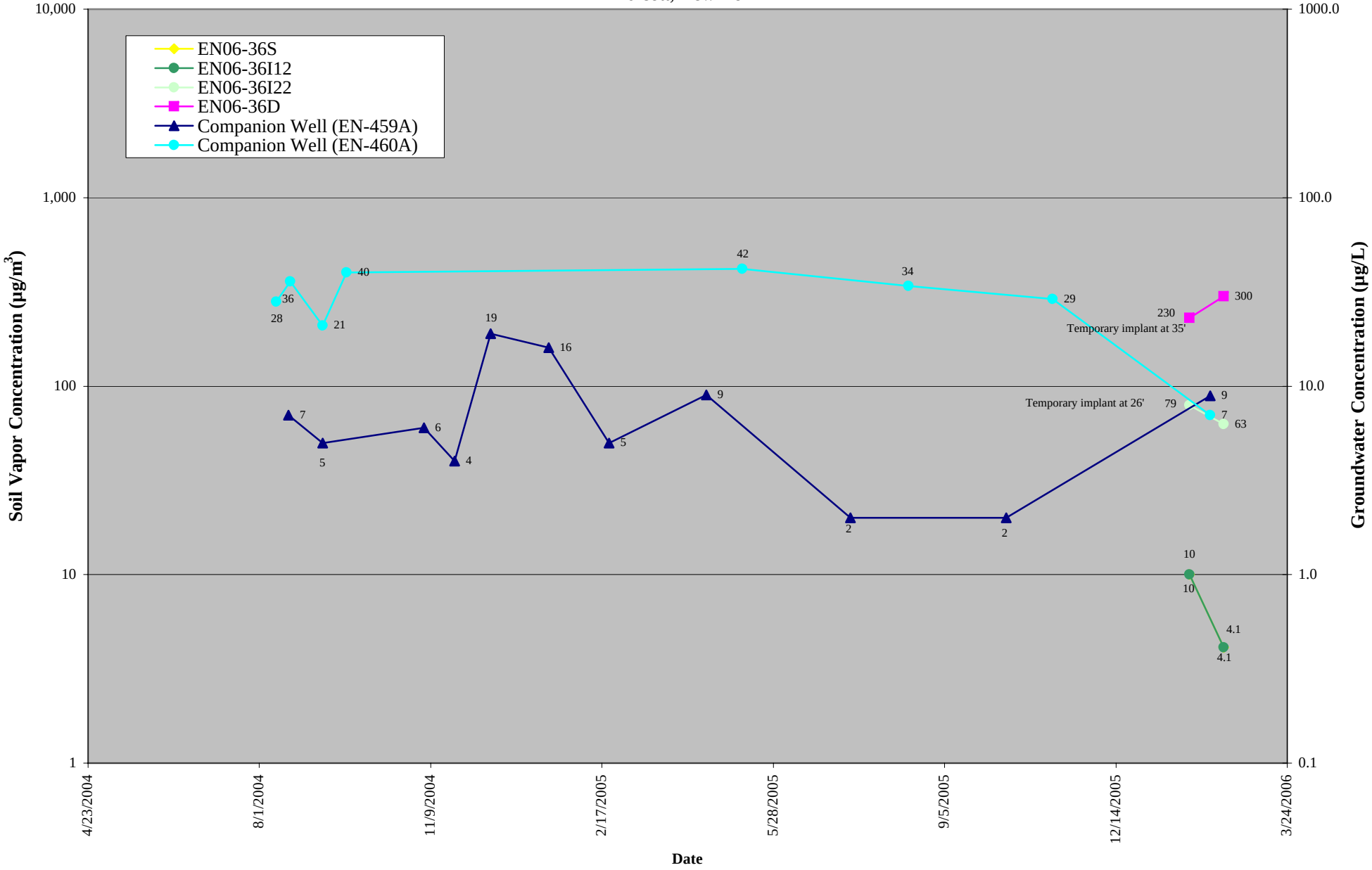
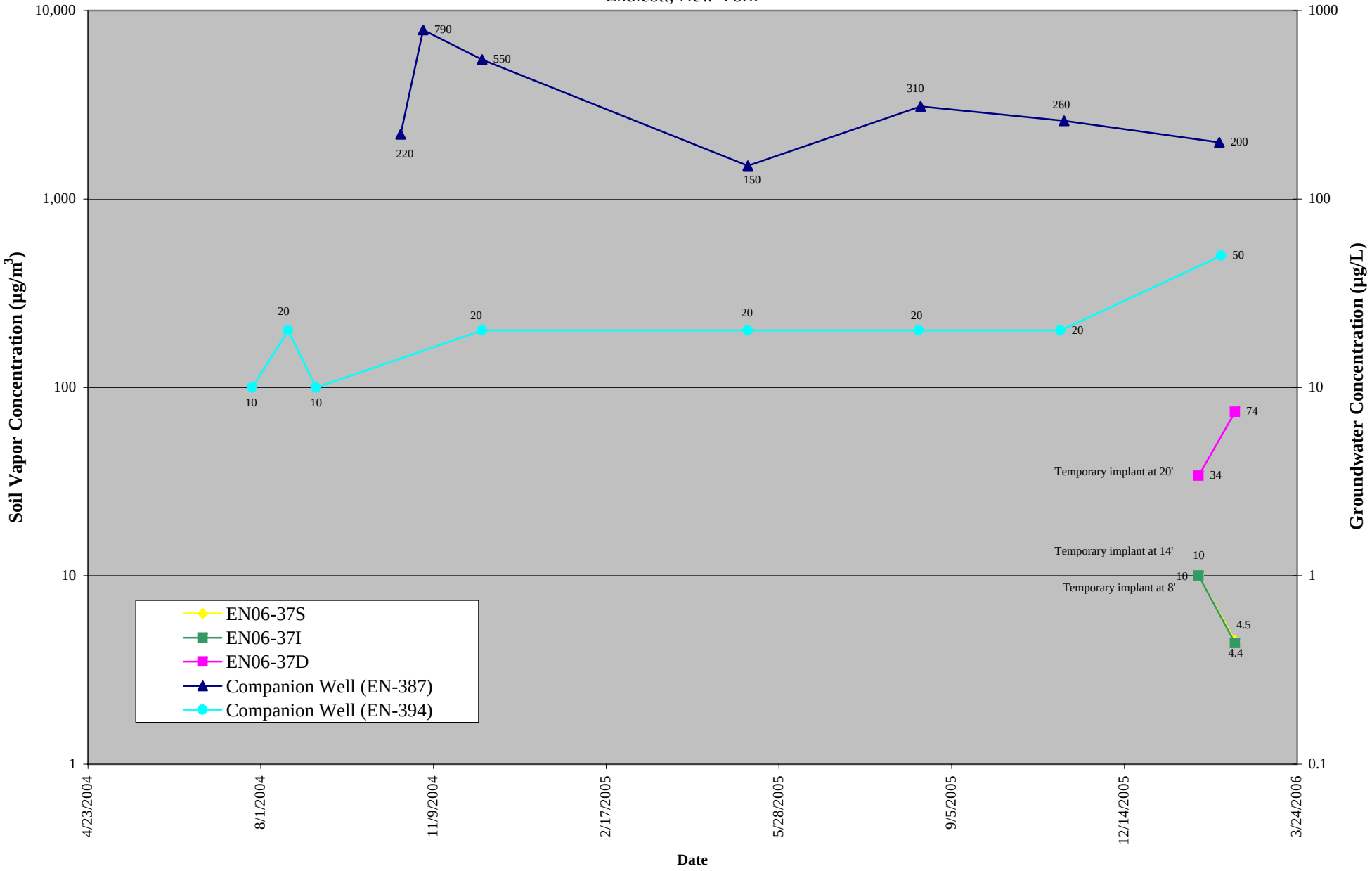


Figure B.37
TCE in Soil Vapor and Groundwater
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



APPENDIX B.4

ANALYTICAL LABORATORY REPORTS
Air Toxics Ltd.
CDs of Analytical Data
(Select Copies Only)

APPENDIX B.5

CLIMATOLOGIC DATA

Figure B.5.1
Summary of Daily Precipitation and Barometric Pressure - GBA
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York

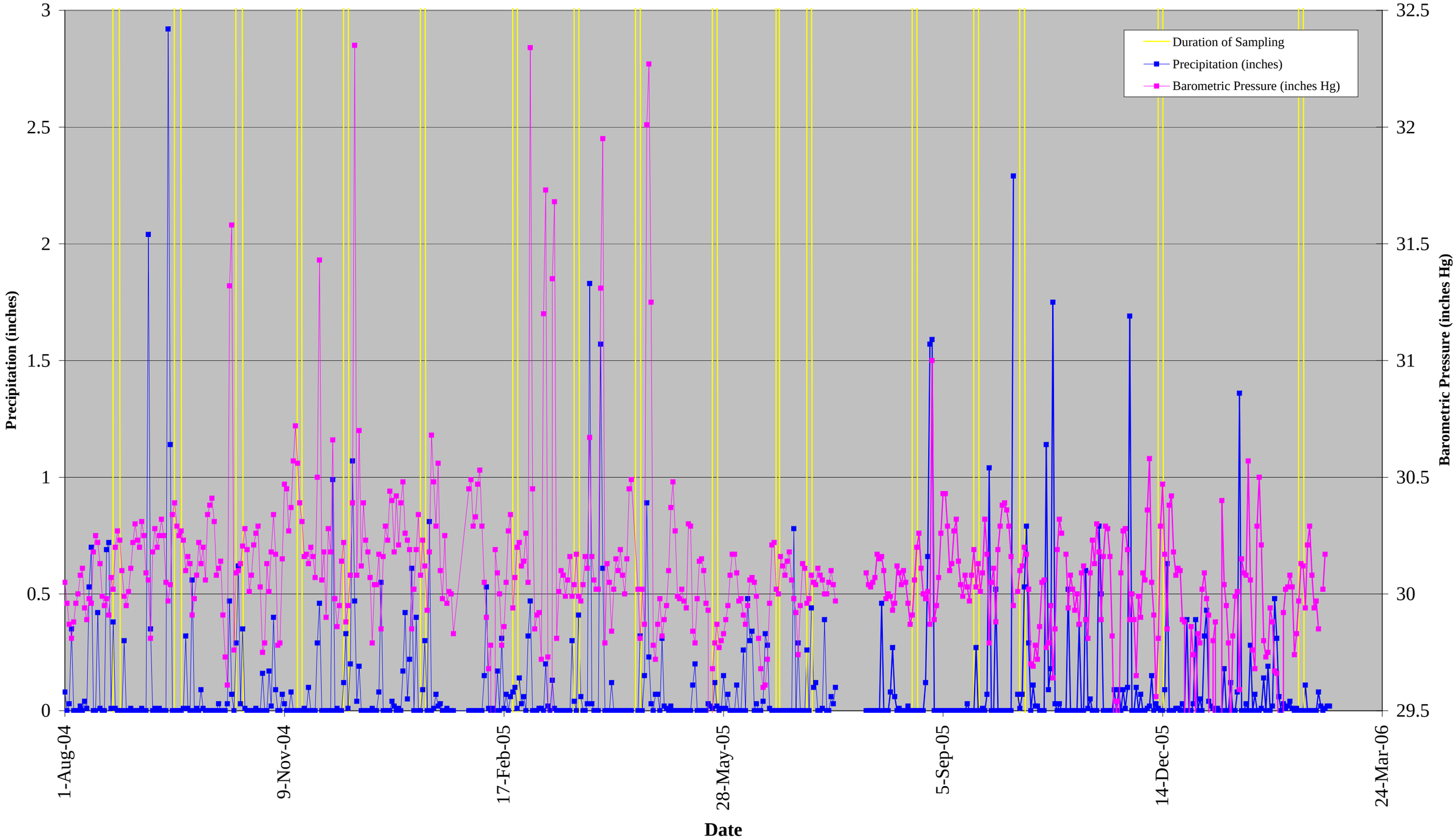
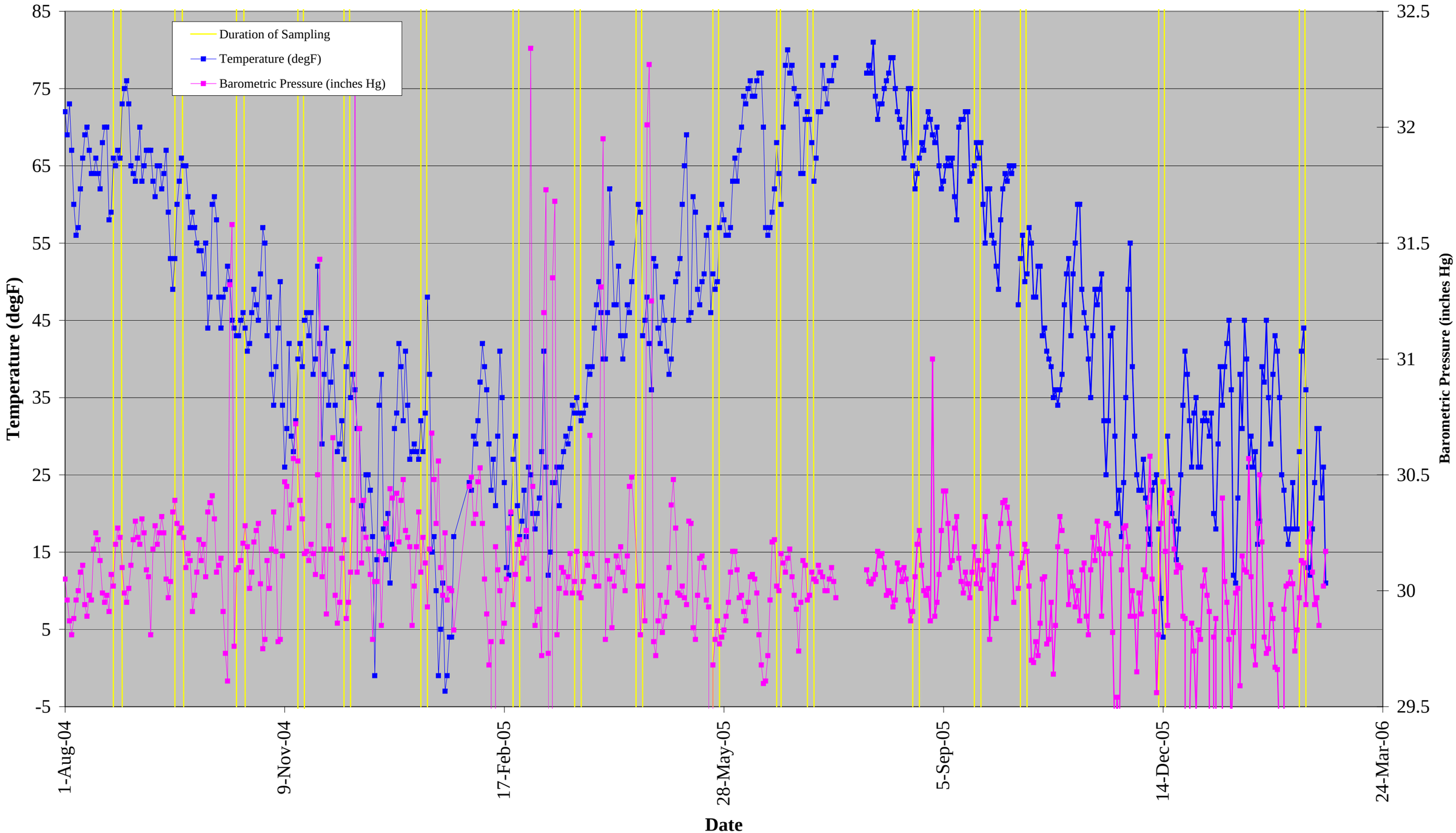


Figure B.5.2
Summary of Daily Barometric Pressure and Temperature - GBA
Semi Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, & Monitoring Program
Endicott, New York



APPENDIX C

SITING AND INSTALLATION OF NEW SOIL VAPOR IMPLANTS

APPENDIX C.1

SUMMARY OF SCOPE OF WORK

APPENDIX C.1

SITING AND INSTALLATION OF NEW SOIL VAPOR IMPLANTS

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

C.1.1 Introduction

Sanborn, Head & Associates, Inc. (SHA) completed additional soil vapor investigation activities on behalf of IBM in Endicott, New York. The investigation included Geoprobe soil sampling, installation sampling and removal of temporary soil vapor implants, rotosonic drilling and soil sampling, and installation of three permanent multi-depth implants. The temporary implants and sampling was completed from January 23 to 26, 2006 with mobile laboratory analysis to select locations for the permanent implants. The permanent implants were installed from January 30 to February 1, 2006. The permanent implants were sampled as part of the routine soil vapor monitoring program that is documented in Appendix B.

The direct–push borings, soil vapor sampling, temporary and some permanent vapor implant installations, and mobile laboratory analyses was performed by ESN North Atlantic (ESN) of Scarborough, Maine. Additional permanent implant installations were performed by Boart Longyear – DL Maher Division of North Reading, Massachusetts.

C.1.2 Direct Push Borings and Temporary Vapor Implant Installations

Temporary soil vapor probes and one permanent implant (EN06-37) were installed using a track-mounted hydraulically–driven direct-push boring machine. The borings were advanced using Geoprobe® 2.0-inch outer diameter (O.D.) Macrocore sampler or 1-inch O.D. steel rods. The soil cores were classified by a field geologist and samples were retained for gradation and moisture testing. After the soil column was sampled to depth, a 6-inch long stainless steel screen attached to Teflon®-lined polyethylene tubing was threaded into a dedicated steel drive point at the base of the rods. The steel rods were removed and the annulus between the probe implant and the borehole was backfilled with 100 mesh glass beads to approximately one foot above the depth of the implant. The remaining borehole annulus was backfilled with a bentonite seal. A Swagelok® fitting was used to cap the probe tubing and the bentonite was hydrated using potable water. The steel rods and sampler were rinsed with potable water and steam-cleaned between uses, using distilled water.

Upon completion of sampling, the Teflon®-lined polyethylene tubing and temporary caps were removed and the probe holes were sealed with bentonite and covered with topsoil. Boring logs for the temporary and permanent implants are included in Appendix C.2. Analytical laboratory reports for soils analysis of grain size distribution and moisture content performed by GeoTesting Express of Boxborough, Massachusetts are provided in Appendix C.6.

C.1.3 Sampling and Analysis of Temporary Implants

As indicated in the report, the investigation was completed in two general areas, the Interchange Area and the Arthur Avenue Area. Temporary soil vapor sampling locations are depicted on the Location Plans included as Figures C.1 and C.2. Forty-two soil vapor samples including 4 duplicates and one replicate were collected from thirty-seven temporary vapor implants at twenty-nine locations, including:

- Three multi-level implant cluster locations designated 06-12, 06-18, and 06-27, where implants were installed at depths noted below;

Location	Depth (ft bgs)	Designation
06-12	8	06-12S
	17	06-12I17
	26	06-12A26
	35	06-12AD
06-18	8	06-18S
	17	06-18I17
	26	06-18I26
	35	06-18D
06-27	8	06-27S
	13	06-27I
	17	06-27D

- Twenty-three locations where implants were installed at a depth of about 8 feet (06-1 through 06-27); and

- One location where the implant was installed to a depth of about 6 feet due to shallow refusal.

The sampling methodologies employed for the January 2006 soil vapor survey were similar to those used in the July 2003 soil vapor survey and are summarized below.

- Sampling of the temporary vapor implants was performed at least one day after installation to allow sufficient time for the near surface bentonite seal to hydrate and to limit possible impacts to the soil vapor column resulting from probe advancement and vapor implant installation.

- Samples were collected from each temporary location in Tedlar bags for on-site laboratory analysis.

- Implants were purged of about 200 cubic centimeters of soil vapor with a peristaltic pump prior to sampling. After purging, soil vapor samples were collected into 3-liter Tedlar bags at a rate of about 200 milliliters (mL) per minute using a peristaltic pump.

- Sulfur hexafluoride (SF_6) gas was released in a small enclosure around the probe completion at the ground surface during collection of every sample.

- Tedlar sample bags were analyzed in ESN's mobile laboratory of the eleven target VOCs and SF_6.

- SUMMA® canister samples collected to supplement the mobile laboratory data were obtained using 1-hour flow controllers at eight locations, and were analyzed by Air Toxics Ltd. (ATL) of Folsom, California. Comparisons of the Tedlar bag sample and Summa canister sample are included in Table C.1.

In aggregate, the mobile laboratory analyzed forty-two soil gas samples, inclusive of four duplicates and one replicate. Results of ESN's mobile laboratory analyses and ATL's SUMMA® canister analyses are summarized in Table C.1. Summaries of the scope of the field-sampling program are provided along with field screening data in Appendix C.3. ESN's analytical laboratory report, and ATL's analytical laboratory reports for this work are provided as Appendices C.4 and C.5, respectively.

C.1.4 Permanent Vapor Implant Installations

Based on mobile analytical laboratory data and available water quality data, additional permanent vapor implants were installed in one location using direct-push techniques, and in two locations in the Interchange area with a truck-mounted mini-sonic drill rig. The implants installed using direct-push methods (EN06-37) were placed at three depths in individual boreholes. The implants completed in a Rotosonic borehole (EN06-35 and EN06-36) were installed at discrete depths in a single borehole. In all cases, the vapor implants consisted of a 6-inch stainless steel mesh screen attached to a ¼ -inch O.D. stainless steel tubing riser.

The sonic borings were advanced by vibrating 6-inch O.D. casing with an internal core barrel into the ground using harmonic wave energy. The borehole was drilled by first advancing a core barrel to obtain a soil samples, then advancing casing over the core barrel to stabilize the borehole. The inner core was retrieved and the core sample extruded into polyethylene bags. Soil samples were submitted for laboratory analysis of grain size distribution and moisture content. Laboratory reports are provided in Appendix C.6.

Nested soil vapor implants were installed in the single 6-inch borehole at four discrete depths in each location. Implant screens were attached to one-inch PVC, which acted as a stabilizer, at depths indicated in Table 1. The stainless steel risers were wire-wrapped to the PVC and the entire implant construction was lowered into the borehole. The annular space surrounding the implant was backfilled with filter sand to a depth of approximately one foot above the depth of the implant, and the intervals between the discrete sampling depths were sealed with bentonite chips.

C.1.5 Quality Assurance/Quality Control

The field program included use of 100% sulfur hexafluoride (SF_6) gas as a tracer to assess for leakage of ambient air into the temporary soil vapor implant. During collection of the Tedlar® bag soil vapor samples from vapor implants, SF_6 gas was released in a small enclosure around the probe. A bentonite slurry and polyethylene sheeting were also used to seal the ground surface surrounding the implant. Sulfur hexafluoride was not detected in any of the samples.

Quality assurance samples included submittal of duplicate samples, and replicate samples, and submittal of one SUMMA® canister equipment blank for TO-15 analysis. Tedlar® bag soil vapor sample duplicates, prepared by filling two 1-liter Tedlar® bags in succession, were collected at a frequency of about 11 percent. One replicate, repeated samplings at a given implant location at a different time, was collected. The mobile laboratory analysis calibration included an initial three-point calibration followed by daily beginning and end of day analysis of calibration check standards. The mobile laboratory also completed method blanks at the beginning of each day. A surrogate was added to each sample prior to analysis.

As part of this report preparation, field and laboratory data were reduced and tabulated. SUMMA® canister data underwent independent data usability assessment and validation to assess the data against project data quality objectives for acceptable accuracy, precision, sensitivity, and technical usability. The data usability assessment was performed by New Environmental Horizons, Inc. (NEH) of Skillman, New Jersey. The data were generally found to meet the project data quality objectives and to be usable. Results of NEH's usability assessment of the SUMMA® canister data are attached as Appendix D. Overall, none of the eight SUMMA® canister field samples collected as part of the soil vapor survey were rejected based on independent data validation/usability review.

Field screening of soil gas samples for O_2, CO_2, and CH_4 was performed as an additional QA/QC check of the samples. Samples were screened for percent O_2, CO_2, and CH_4 using a CES-LANDTEC GEM 2000 four-gas meter, and screened for volatile compounds using a Photovac Model 2020 photo-ionization detector (PID) equipped with a 10.6 eV lamp and Photovac Micro FID portable Flame Ionization Detector (FID). Samples for field screening were collected at a rate of 200 mL per minute in 1-liter Tedlar® bags connected to the same tubing used to collect the Tedlar® bag sample for mobile laboratory analysis. The 1-liter field screening bags were reused after flushing the bag with ambient air with a peristaltic pump.

TABLE C.1
Comparison of Soil Vapor Data
Semi-Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, and Monitoring Program
Endicott, New York

Sampling Point Designation	Nominal Sampling Depth	Sampling Date	Field Sample ID	Sample Type	Dilution Factor	Units	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene (cis-1,2-DCE)	trans-1,2-Dichloroethene (trans-1,2-DCE)	Vinyl Chloride (VC)	1,1,1-Trichloroethane (1,1,1-TCA)	1,1-Dichloroethene (1,1-DCE)	1,1-Dichloroethane (1,1-DCA)	Chloroethane (Cane)	Freon 113	Methylene Chloride (MeCL)
06-2	8	1/24/2006	06-2	Bag	1	µg/m^3	<10	**46**	<10	<10	<20	<10	<10	<10	<20	<20	NA
		1/24/2006	062012406	Summa	1.71	µg/m^3	<5.8	**67**	<3.4	<3.4	<2.2	**6.2**	<3.4	<3.5	<2.2	<6.6	**8.6**
06-11	8	1/25/2006	06-11	Bag	1	µg/m^3	<10	**670**	<10	<10	<20	<10	<10	<10	<20	<20	NA
		1/26/2006	0611012606	Summa	2.48	µg/m^3	<8.4	**1600**	<4.9	<4.9	<3.2	<6.8	<4.9	<5.0	<3.3	<9.5	<4.3
06-12S	8	1/25/2006	06-12S	Bag	1	µg/m^3	<10	<10	<10	<10	<20	<10	<10	<10	<20	<20	NA
		1/26/2006	0612S012606	Summa	1.64	µg/m^3	<5.6	<4.4	<3.2	<3.2	<2.1	<4.5	<3.2	<3.3	<2.2	<6.3	**3.8**
06-12AD	35	1/26/2006	06-12A	Bag	1	µg/m^3	<10	**230**	**14**	<10	<20	**370**	<10	<10	<20	<20	NA
		1/26/2006	0612AD012606	Summa	1.55	µg/m^3	<5.2	**490**	**18**	<3.1	<2.0	**600**	**5.2**	**7.1**	<2.0	<5.9	<2.7
06-14	8	1/25/06	06-14	Bag	1	µg/m^3	<10	<10	<10	<10	<20	<10	<10	<10	<20	<20	NA
		1/24/06	0614012406	Summa		µg/m^3	**12**	**4.8**	<3.2	<3.2	<2.0	**5.2**	<3.2	<3.2	<2.1	<6.2	<2.8
06-21A	8	1/26/2006	06-21A	Bag	1	µg/m^3	<10	<10	<10	<10	<20	<10	<10	<10	<20	<20	NA
		1/26/2006	0621A012606	Summa	1.68	µg/m^3	<5.7	<4.5	<3.3	<3.3	<2.1	<4.6	<3.3	<3.4	<2.2	<6.4	<2.9
06-27I	12	1/26/2006	06-27I	Bag	1	µg/m^3	<10	<10	**43**	<10	<20	<10	<10	<10	<20	<20	NA
		1/26/2006	0627I012606	Summa	1.64	µg/m^3	<5.6	**12**	**57**	<3.2	<2.1	<4.5	<3.2	<3.3	<2.2	<6.3	<2.8
06-27D	21	1/26/2006	06-27D	Bag	1	µg/m^3	<10	**34**	**600**	**24**	**140**	<10	<10	<10	<20	<20	NA
		1/26/2006	0627D012606	Summa	1.55	µg/m^3	**25**	**76**	**780**	**11**	**26**	<4.2	<3.1	<3.1	<2.0	<5.9	<2.7

TABLE C.1
Comparison of Soil Vapor Data
Semi-Annual Report - Soil Vapor Monitoring
Comprehensive Operations, Maintenance, and Monitoring Program
Endicott, New York

Sampling Point Designation	Nominal Sampling Depth	Sampling Date	Field Sample ID	Sample Type	Dilution Factor	Units	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene (cis-1,2-DCE)	trans-1,2-Dichloroethene (trans-1,2-DCE)	Vinyl Chloride (VC)	1,1,1-Trichloroethane (1,1,1-TCA)	1,1-Dichloroethene (1,1-DCE)	1,1-Dichloroethane (1,1-DCA)	Chloroethane (Cane)	Freon 113	Methylene Chloride (MeCL)
EQUIPMENT BLANK SAMPLES																	
EQUIPMENT BLANK		1/26/2006	EB9487012606	Summa	1.61	$\mu g/m^3$	<5.5	<4.3	<3.2	<3.2	<2.0	<4.4	<3.2	<3.2	<2.1	<6.2	<2.8

NOTES:

1. This table summarizes results of soil vapor sampling performed by SHA personnel between January 24 and 26, 2006. The soil vapor samples were collected from depths as noted in column #2. The samples were collected into 3-liter Tedlar® bags (Bag) using a peristaltic pump or into SUMMA® canisters (Summa) via a 1- hour integrated flow controller.

2. Bold values indicate concentrations greater than the laboratory reporting limit. "<" = denotes that the compound was not detected. The sample and compound-specific laboratory reporting limits reflecting the amount of dilution are posted for comparison among samples. All analytical results are presented in units of micrograms per cubic meter (µg/m3).

3. Soil vapor samples collected into Tedlar® bags were analyzed in the field using a modified USEPA Method SW-846 #8021B by ESN North Atlantic of Scarborough, Maine. SUMMA® canisters were collected over a 1-hour period and were submitted to Air Toxics, Ltd of Folsom, California for TO-15 analysis.

4. All data from samples collected in Summa canisters were submitted for data validation & usability assessment to New Environmental Horizons, Inc. (NEH) of Skillman New Jersey. The assessment was performed in accordance with the requirements of the December 30, 2002 Action Plan to assess the data against project data quality objectives for acceptable accuracy, precision, sensitivity, and technical usability. The findings were submitted in data usability assessment reports dated August 31, 2003, added to the electronic data deliverable from the laboratory, and are reflected in this table. "J" data qualifiers generally reflect imprecision for field duplicate samples (field duplicate imprecision), or duplicates reflecting greater than the Action Plan goal of relative percent difference values < 30% which reflects an indeterminate bias. "EB"

APPENDIX C.2

BORING AND IMPLANT COMPLETION LOGS

APPENDIX C.2.1

TEMPORARY SOIL VAPOR IMPLANT BORINGS

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

Log of Boring 06-1

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/27	ND		-----0'-----	C-1: Brown, fine to medium SAND, some Silt, trace Gravel, trace Roots. Moist. 1" Gravel seam at 1'.	
2									
4	C-2 S-2A	4 - 8		48/25	ND		SAND	S-2A: Brown, fine to medium SAND, some Silt, little Gravel, trace Roots. Moist. 1/2" clayey silt seam at 6.5'.	
6	S-2B	6.5 - 6.5			ND			S-2B: Dark brown, fine to medium SAND, trace Silt. Moist.	
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-2

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/16	ND		-----0'-----	C-1: Brown, fine to medium SAND & GRAVEL, some Silt, trace Roots. Moist.	
2							SAND & GRAVEL		
4	C-2	4 - 8		48/22	ND		-----4'-----	C-2: Brown, fine to medium SAND, some Silt, trace Gravel. Moist. 2" Gravel seam at 4'.	
6							SAND		
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-3

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/14	ND		-----0'-----	C-1: Brown, fine to medium SAND, some Gravel, little Silt, trace Roots. Moist.	
2									
4	C-2	4 - 8		48/22	ND		SAND	C-2: Dark brown, fine to medium SAND, some Silt, trace Gravel. Moist. 1" Gravel seam at 4'. 2" Gravel seam at 8'. Wet in bottom 2".	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

LOG OF BORING SANBORN HEAD AND ASSOC - FID.GPJ 031506 SHA.GDT S:\PORDATA\GINT\031406 SHA.GLB 03/30/06

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

Log of Boring 06-4

Ground Elevation:

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished: 01/23/06**
Logged By: LJK/EMB **Checked By: DBC**

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/20	ND		-----0'----- SAND & GRAVEL	C-1: Brown, fine to medium SAND & GRAVEL, some Silt. Moist.	
2									
4	C-2, S-2A	4 - 8, 4 - 7.5		48/23	ND		-----4'----- SAND	S-2A: Dark brown, fine to medium SAND, some Silt, trace Gravel. Moist. 2" Gravel seam at 4'.	
6									
	S-2B	7.5 - 8			ND		-----7.5'----- SAND & GRAVEL -----8'-----	S-2B: Brown, fine to medium SAND & GRAVEL, little Silt. Moist.	
8								Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

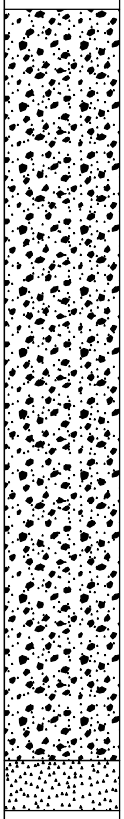
Log of Boring 06-5

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/17	ND		-----0'-----	C-1: Brown, fine to medium SAND & GRAVEL, some Silt. Moist.	
2									
4	C-2 S-2A	4 - 8 4 - 7.5		48/15	ND		SAND & GRAVEL	S-2A: Brown, fine to medium SAND & GRAVEL, some Silt. Moist.	
6									
	S-2B	7.5 - 8			ND		-----7.5'----- SAND -----8'-----	S-2B: Dark brown, fine to medium SAND, some Silt. Moist. Bottom 1" is wet.	
8								Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-6

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/9	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, some Silt, trace Roots. Moist.	
2							SAND & GRAVEL		
4	C-2	4 - 6		24/12	ND			C-2: Brown, GRAVEL, little fine to coarse Sand, little Silt.	
6							-----6'-----	Boring terminated at 6 feet	
8									
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-7

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished: 01/23/06**
Logged By: LJK/EMB **Checked By: DBC**

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time
01/23/06				1"	Max pressure/vacuum

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/26	ND		-----0'-----	C-1: Brown, fine to coarse SAND, some Silt. Wet from 0 - 1'.	
2							SAND		
4	C-2 S-2A	4 - 8 4 - 4.5		48/27	ND			S-2A: Brown, fine to coarse SAND, some Silt, little Gravel. Gravel seam at 4.2'.	
	S-2B	4.5 - 8			ND		-----4.5'-----	S-2B: Brown, fine to coarse SAND, little Gravel, trace Silt.	
6							SAND & GRAVEL		
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-8

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/27	ND		-----0'-----	C-1: Brown, fine to medium SAND, some Silt, trace Gravel. Moist.	
2									
4	C-2	4 - 8		48/27	ND		SAND	C-2: Brown, fine to medium SAND, some Silt, little Gravel. Moist. Grading to no Gravel in bottom 1.5'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-9

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/27	ND		-----0'-----	C-1: Brown, fine to medium SAND, some Silt, trace Gravel. Moist.	
2									
4	C-2	4 - 8		48/27	ND		SAND	C-2: Same as C-1.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-10

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1 S-1A	0 - 4 0 - 2		48/9	ND		-----0'-----	S-1A: Brown, fine SAND and SILT. Moist.	
2	S-1B	2 - 4			ND			S-1B: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist.	
4	C-2	4 - 8		48/36	ND		SAND	C-2: Similar to S-1B. Siltier seams at 5' and 8'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. TA temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-11

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/24	ND		-----0'-----	C-1: Brown to dark brown, fine to medium SAND, little Silt, little Gravel, trace Roots. Moist.	
2									
4	C-2	4 - 8		48/29	ND		SAND	C-2: Dark brown, fine to medium SAND, trace Silt, trace Gravel, with Roots. Moist. Silty seams at 7', 7.5', 7.7', and 8'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-11A

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/25/06 **Date Finished:** 01/25/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/28	ND		-----0'-----	C-1: Brown to dark brown, fine to medium SAND, little Silt, trace Gravel. Moist.	
2									
4	C-2	4 - 8		48/29	ND		SAND	C-2: Dark brown, fine to medium SAND, trace Silt. Moist. Silty seams at 6.3', 6.8', and 7'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-12S

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/31	ND		-----0'-----	C-1: Dark brown, fine to medium SAND, little Silt, trace Gravel, trace Roots. Moist. Silty seams at 1.5' and 2'.	
2									
4	C-2	4 - 8		48/30	ND		SAND	C-2: Dark brown to brown, fine to medium SAND, trace Silt. Moist. Silty seams at 7' and 8'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-12I

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished:** 01/24/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/29	ND		-----0'-----	C-1: Brown to dark brown, fine to medium SAND, little Silt. Moist. Silty seams (~1" thick) at 3' and 3.5'.	
2									
4	C-2	4 - 8		48/29	ND			C-2: Dark brown, fine to medium SAND, little Silt, trace Gravel, trace Roots. Moist.	
6							SAND		
8	C-3	8 - 12		48/26	ND			C-3: Similar to S-2. Siltier seam (~1/2" thick) at 10'. Gravel seam (~1" thick) at 12'.	
10									
12	C-4	12 - 16		48/24	ND		-----12'-----	C-4: Brown, SAND & GRAVEL, little Silt. Moist. Silty seam at 15' (~1/4" thick).	
14							SAND & GRAVEL		

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Log of Boring 06-12I

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished: 01/24/06**
Logged By: LJK/EMB **Checked By: DBC**

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
16	C-5 S-5A	16 - 20 16 - 19.2		48/27	ND		SAND & GRAVEL	S-5A: Similar to S-4.	
18									
	S-5B	19.2 - 20			ND		-----19.2'----- SAND -----20'-----	S-5B: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist.	
20								Boring terminated at 12 feet	
22									
24									
26									
28									
30									

NOTES:
1. When tried to sample from 20 - 24, hit an obstruction at 21.5'. Pulled casing and installed 06-12J17 at location

2. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

3. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-12AD

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished:** 01/24/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/29	ND		-----0'-----	C-1: Brown to dark brown, fine to medium SAND, little Silt, trace Gravel. Moist. Silty seams at 2.7', 3.3', and 3.7'.	
2									
4	C-2	4 - 8		48/26	ND			C-2: Dark brown, fine to medium SAND, little Silt. Moist. Silty seam at 7.5'.	
6							SAND		
8	C-3	8 - 12		48/30	ND			C-3: Similar to C-2.	
10									
12	C-4 S-4A	12 - 16 12 - 14.2		48/28	ND			S-4A: Similar to C-2.	
14	S-4B	14.2 - 16					-----14.2'----- SAND & GRAVEL	S-4B: Brown, fine to coarse SAND & GRAVEL, little Silt. Moist.	

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Log of Boring 06-12AD

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished:** 01/24/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
16	C-5 S-5A	16 - 20 16 - 19.3		48/24	ND		SAND & GRAVEL	S-5A: Similar to S-4B.	
18									
	S-5B	19.3 - 20			ND		-----19.3'-----	S-5B: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist. 1" gravel seam at 19.6'.	
20	C-6	20 - 24		48/25	ND			C-6: Similar to S-5B. Gravel seam ~1" thick at 22.5'.	
22									
24	C-7	24 - 28		48/30	ND		SAND	C-7: Similar to S-5B.	
26									
28	C-8	28 - 32		48/29	ND			C-8: Similar to S-5B. 1 1/2" Gravel seams at 31.2 and 37.7'. Fine sand seam from 31.2 to 31.7'.	
30									

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Log of Boring 06-12AD

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished:** 01/24/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
30							SAND		
32	C-9 S-9A	32 - 36 32 - 34.2		36/17	0.8		-----32'-----	S-9A: Brown, fine to coarse SAND & GRAVEL, little Silt. Moist.	
							SAND & GRAVEL		
34	S-9B	34.2 - 36			0.1		-----34.2'-----	S-9B: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist. Boring terminated at 34.2 feet	
36									
38									
40									
42									
44									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-13

Ground Elevation:

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished: 01/23/06**
Logged By: LJK/EMB **Checked By: DBC**

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/27	ND		-----0'-----	C-1: Dark brown, fine to coarse SAND, little Silt, trace Gravel. Moist. Gravel seams at 0.5' and 1.5'. Silty Clay seat at 1'.	
2									
4	C-2	4 - 8		48/28	ND		SAND	C-2: Similar to C-1. Silty seams at 6' and 7.5'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-14

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/22	ND		-----0'-----	C-1: Brown to dark brown, fine to medium SAND, little Silt, trace Gravel. Moist.	
2									
4	C-2	4 - 8		48/39	ND		SAND	C-2: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-15

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/22	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, some Silt. Very Moist. 2" seam of dark brown, fine to medium SAND, trace Silt at 4 ft.	
2							SAND & GRAVEL		
4	C-2	4 - 8		48/26	ND		-----4'-----	C-2: Dark brown, fine to medium SAND, trace Silt, trace Gravel. 1" Silty Clay seam at 6'.	
6							SAND		
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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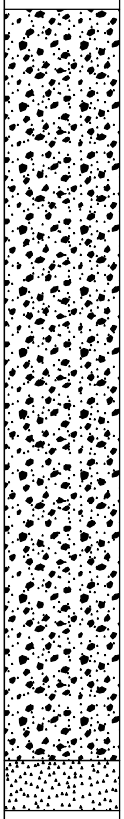
Log of Boring 06-16

Ground Elevation:

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished: 01/23/06**
Logged By: LJK/EMB **Checked By: DBC**

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/18	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, some Silt. Very Moist. Silty Clay seam at 1'.	
2									
4	C-2 S-2A	4 - 8 4 - 7.5		NR	ND		SAND & GRAVEL	S-2A: Similar to C-1.	
6									
	S-2B	7.5 - 8			ND		-----7.5'----- SAND -----8'-----	S-2B: Dark brown, fine to medium SAND, trace Silt, trace Gravel. Moist.	
8								Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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Log of Boring 06-17

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/20	ND		-----0'-----	C-1: Brown, fine to coarse SAND, some Silt, little Gravel. Very Moist.	
2							SAND		
4	C-2 S-2A	4 - 8 4 - 7		48/22	ND			S-2A: Similar to S-1.	
6									
	S-2B	7 - 8			ND		-----7'-----	S-2B: Brown, fine to coarse SAND and GRAVEL, little Silt. Moist.	
							SAND & GRAVEL		
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-18S

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/25	ND		-----0'-----	C-1: Brown, fine to medium SAND & GRAVEL, some Silt. Very Moist.	
2									
4	C-2	4 - 8		48/16	ND		SAND & GRAVEL	C-2: Brown, fine to medium SAND & GRAVEL, some Silt. Wet.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

LOG OF BORING SANBORN HEAD AND ASSOC - FID.GPJ 031506 SHA.GDT S:\PORDATA\GINT\031406 SHA.GLB 03/30/06

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

Log of Boring 06-18D

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished:** 01/24/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/16	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, little Silt, trace Roots. Very Moist.	
2									
4	C-2	4 - 8		48/13	ND			C-2: Brown, fine to coarse SAND & GRAVEL, little Silt. Wet.	
							SAND & GRAVEL		
6									
8	C-3 S-3A	8 - 11		48/15	ND			S-3A: Similar to C-2.	
10									
	S-3B	11 - 12			ND		-----11'-----	S-3B: Brown to dark brown, fine SAND and SILT, trace Roots. Moist.	
12	C-4 S-4A	12 - 16 12 - 15		48/20	ND			S-4A: Brown, fine to medium SAND, little Silt, trace Roots. Moist.	
							SAND		
14									

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Log of Boring 06-18D

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished:** 01/24/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
	S-4B	15 - 16			ND		-----15'-----	S-4B: Brown, fine to coarse SAND & GRAVEL, little Silt. Very Moist. Wet at interchange between 4A and 4B.	
16	C-5	16 - 20		48/15	ND			C-5: Same as 4B. Very Moist.	
18							SAND & GRAVEL		
20	C-6	20 - 24		48/26	ND		-----20'-----	C-6: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist.	
22									
24	C-7	24 - 28		48/27	ND			C-7: Similar to C-6.	
							SAND		
26									
28	C-8	28 - 32		48/30	ND			C-8: Similar to C-6.	
30									

Sanborn, Head & Associates, Inc.
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Log of Boring 06-18D

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished:** 01/24/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
30									
32	C-9	32 - 35		36/30	ND		SAND	C-9: Similar to C-6. Clay seam (~1" thick) at 34'. Gravel seam (~1" thick) at 33.5'. Wet at Gravel seam.	
34									
							-----35'-----	Boring terminated at 35 feet	
36									
38									
40									
42									
44									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-19

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/23/06 **Date Finished:** 01/23/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/21	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, little Silt, trace Roots. Moist.	
2							SAND & GRAVEL		
4	C-2 S-2A	4 - 8 4 - 7		48/18	ND			S-2A: Brown, fine to coarse SAND & GRAVEL, little Silt, trace Roots. Moist.	
6									
	S-2B	7 - 8			ND		-----7'-----	S-2B: Dark brown, fine to medium SAND, some Silt, little Gravel. Moist.	
							SAND		
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

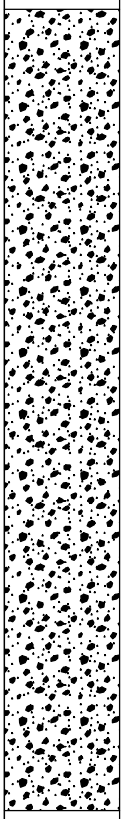
Log of Boring 06-20

Ground Elevation:

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished: 01/24/06**
Logged By: LJK/EMB **Checked By: DBC**

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/20	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, little Silt. Moist.	
2									
4	C-2	4 - 8		48/29	ND		SAND & GRAVEL	C-2: Black, fine to coarse SAND, some Gravel, little Silt. Moist. Silty seam at 7'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

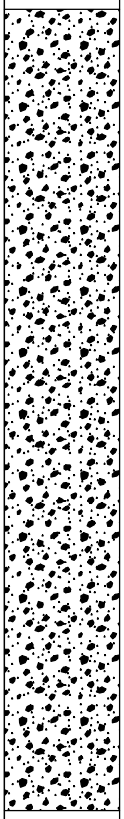
Log of Boring 06-21

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished:** 01/24/06
Logged By: LJK/EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/23	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, little Silt, trace Gravel. Very Moist..	
2									
4	C-2	4 - 8		48/27	ND		SAND & GRAVEL	C-2: Brown, fine to coarse SAND & GRAVEL, little Silt. Very Moist. Silty seam at 7'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-21A

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/25/06 **Date Finished:** 01/25/06
Logged By: LJK **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/17	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, little Silt, trace Roots. Very Moist..	
2									
4	C-2	4 - 8		48/22	ND		SAND & GRAVEL	C-2: Similar to S-1. Wet at 5.5'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

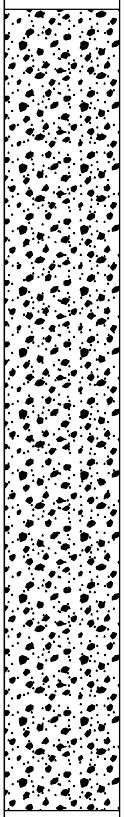
Log of Boring 06-22

Ground Elevation:

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/24/06 **Date Finished: 01/24/06**
Logged By: LJK/EMB **Checked By: DBC**

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/22	ND		-----0'-----	C-1: Brown, fine to coarse SAND & GRAVEL, little Silt, trace Roots. Moist.	
2									
4	C-2	4 - 8		48/23	ND		SAND & GRAVEL	C-2: Brown, fine to coarse SAND & GRAVEL, little Silt. Moist. Silty seam (~1/4" thick) at 7'.	
6									
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-23

Ground Elevation:

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/25/06 **Date Finished: 01/25/06**
Logged By: LJK **Checked By: DBC**

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1 S-1A	0 - 4 0 - 3		48/24	ND		-----0'-----	S-1A: Brown, fine to coarse SAND & GRAVEL, little Silt. Very Moist.	
2							SAND & GRAVEL		
	S-1B	3 - 4			ND		-----3'-----	S-1B: Brown to dark brown, fine to medium SAND, little Silt, trace Gravel. Moist.	
4	C-2	4 - 8		48/29	ND			C-2: Similar to S-1B. S-2B: 2 1/2" Silty seams at 7.1', 7.6', and 8' comprised of fine Sand, some Silt. Wet.	
6							SAND		
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-24

Ground Elevation:

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/25/06 **Date Finished: 01/25/06**
Logged By: LJK **Checked By: DBC**

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1 S-1A	0 - 4 0 - 2.9		48/27	ND		-----0'----- SAND & GRAVEL	S-1A: Brown, fine to coarse SAND & GRAVEL, little Silt. Very Moist.	
2									
	S-1B	2.9 - 4			ND		-----2.9'-----	S-1B: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist. 1/2" Silty seam at 3.6'.	
4	C-2 S-2A	4 - 8 4 - 7.6		48/28	ND		SAND	S-2A: Similar to S-1B. Gravel seam at 6' (~1" thick).	
6									
	S-2B	7.6 - 8			ND		-----8'-----	S-2B: Brown, fine to medium SAND, some Silt, trace Gravel. Wet.	
8								Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-25

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/25/06 **Date Finished:** 01/25/06
Logged By: LJK **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1 S-1A	0 - 4 0 - 3		48/26	ND		-----0'----- SAND & GRAVEL	S-1A: Brown, fine to coarse SAND & GRAVEL, little Silt. Very Moist.	
2									
	S-1B	3 - 4			ND		-----3'-----	S-1B: Brown to dark brown, fine to medium SAND, little Silt, trace Gravel. Moist. 1" thick silty seam at 3.3'.	
4	C-2 S-2A	4 - 8 4 - 7.6		48/28	ND		SAND	S-2A: Similar to S-1B.	
6									
	S-2B	7.6 - 8			ND		-----8'-----	S-2B: Brown, fine to medium SAND, some Silt, trace Gravel. Wet.	
8								Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

LOG OF BORING SANBORN HEAD AND ASSOC - FID.GPJ 031506 SHA.GDT S:\PORDATA\GINT\031406 SHA.GLB 03/30/06

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

Log of Boring 06-26

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/25/06 **Date Finished: 01/25/06**
Logged By: LJK **Checked By: DBC**

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/26	ND		-----0'-----	C-1: Brown to dark brown, fine to medium SAND, little Silt, trace Gravel. Moist. 1/2" siltier seams at 3.1' and 3.7'. Gravel fill seam at 2.8'.	
2									
4	C-2	4 - 8		48/29	ND		SAND	C-2: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist. 1/4" Silty seams at 7.6 and 7.8'.	
6					ND			Brown, fine to medium SAND, some Silt, trace Gravel. Wet from 6.7 to 7.3'. Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist. 1/4" Silty seams at 7.6 and 7.8'.	
8							-----8'-----	Boring terminated at 8 feet	
10									
12									
14									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed at the boring termination depth. The implant consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Boring 06-27D

Ground Elevation:

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/25/06 **Date Finished: 01/25/06**
Logged By: LJK **Checked By: DBC**

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
0	C-1	0 - 4		48/27	ND		-----0'-----	C-1: Brown to dark brown, fine to medium SAND, little Silt, trace Gravel, trace Roots. Moist. Gravel seam (~1" thick) at 2.3'.	
2									
4	C-2 S-2A	4 - 8 4 - 6.4		48/27	ND			S-2A: Dark brown, fine to medium SAND, little Silt, trace Gravel. Moist.	
6	S-2B	6.4 - 8						S-2B: Brown, fine to medium SAND, some Silt. Wet.	
8	C-3	8 - 12		48/30	ND			C-3: Similar to S-2. Silty and more Wet from 9.9 to 10.2'.	
10							SAND		
12	C-4	12 - 16		48/27	ND			C-4: Similar to S-2. Gravel seam from 14.4 - 14.8'.	
14									
16	C-5	16 - 20		48/29	ND			C-5: Similar to S-2. 2" thick gravel seam at 18.6'.	
18									
20									

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

Log of Boring 06-27D

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/25/06 **Date Finished: 01/25/06**
Logged By: LJK **Checked By: DBC**

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Remarks
20	C-6 S-6A	20 - 24 20 - 22.9		48/25	ND		SAND	S-6A: Dark brown, fine to medium SAND, little Silt, little Gravel. Moist.	Temporary soil vapor implant set at 20' after hole backfilled with Sand.
22									Hole collapsed at 21.7'. Backfilled from 21.7' to 20'
	S-6B S-6C	22.9 - 23.5 23.5 - 24			160 35.1		-----22.9'----- SAND & GRAVEL -----24'-----	S-6B: Petroleum stained gray, fine to coarse SAND and GRAVEL, little Silt. Wet. (Saturated with petroleum). S-6C: Yellowish brown, fine to coarse SAND and GRAVEL, some Silt. Wet.	
24									
26									
28								Boring terminated at 27 feet	
30									
32									
34									
36									
38									
40									

NOTES:
1. Soil samples were screened for volatile organic compounds (VOCs) using a Photovac Model 2020 Photoionization detector (PID). The PID was equipped with a 10.6eV lamp calibrated to a 100 ppm isobutylene standard. The typical detection limit is approximately 1 ppm.

2. A temporary soil vapor implant was installed in the soil boring at 21 feet and in adjacent soil borings at 8 and 14 feet below ground surface. The implants consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. Teflon lined polyethylene tubing using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

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

Log of Monitoring Well EN06-35

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Rotosonic
Sampling Method: 4" Rotosonic
Drilling Company: Boart Longyear - DL Maher Division
Foreman: John Groglia
Date Started: 01/31/06 **Date Finished:** 01/31/06
Logged By: EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in.	Pen/Rec (ft)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Well Diagram	Well Description
0	C-1 S-1	0 - 5 0 - 0.9		5/3.7	NR		-----0'-----	S-1: Dark brown, fine to coarse SAND & GRAVEL, little Silt.		18" concrete surface seal with 9" flush-mount roadbox (0 to 1')
	S-2	0.9 - 5			NR			S-2: Brown, GRAVEL, some fine to coarse Sand, trace Silt. Moist. Gravel is rounded to subrounded.		
2										
4										Bentonite Chips (1 to 7.2')
	C-2 S-3	5 - 10 5 - 5.6		5/4	NR		GRAVEL & SAND	S-3: Brown, GRAVEL, some fine to coarse Sand, little Silt. Moist.		
	S-4	5.6 - 10			NR			S-4: Brown, GRAVEL, some fine to medium Sand, some Silt. Moist.		
6										
8										Sand (7.2 to 8') 6" stainless steel mesh screen (7.5 to 8')
10	C-3 S-5	10 - 15 10 - 12.5		5/4	NR		-----10'-----	S-5: Black, fine to coarse SAND, some Silt, little Gravel. Wet.		
12										Bentonite Chips (8.5 to 14.7')
	S-6	12.5 - 15			NR		Gravelly SAND with Silt	S-6: Brown, fine to medium SAND, some Silt, trace Gravel. Moist.		
14										
	C-4 S-7	15 - 20 15 - 16		5/3.5	NR		-----15'-----	S-7: Brown, GRAVEL, some fine to coarse Sand, trace Silt. Very Moist.		60 to 100 mesh glass beads (14.7 to 15.5') 6" stainless steel mesh screen (15.5 to 16')
16	S-8	16 - 20			NR			S-8: Brown, GRAVEL, some fine to coarse Sand & Gravel, trace Silt. Moist.		
							Sandy GRAVEL			
18										
20										Bentonite Chips (16.6 to 22.3')

APPENDIX C.2.2

PERMANENT SOIL VAPOR IMPLANT COMPLETIONS

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

Log of Soil Vapor Implant EN06-35

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Rotosonic
Sampling Method: 4" Rotosonic
Drilling Company: Boart Longyear - DL Maher Division
Foreman: John Groglia
Date Started: 01/31/06 **Date Finished: 01/31/06**
Logged By: EMB **Checked By: DBC**

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (ft)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Well Diagram	Well Description
0	C-1 S-1	0 - 5 0 - 0.9		5/3.7	NR		-----0'-----	S-1: Dark brown, fine to coarse SAND & GRAVEL, little Silt.		18" concrete surface seal with 9" flush-mount roadbox (0 to 1')
	S-2	0.9 - 5			NR			S-2: Brown, GRAVEL, some fine to coarse Sand, trace Silt. Moist. Gravel is rounded to subrounded.		
2										
4										Bentonite Chips (1 to 7.2')
	C-2 S-3	5 - 10 5 - 5.6		5/4	NR		GRAVEL & SAND	S-3: Brown, GRAVEL, some fine to coarse Sand, little Silt. Moist.		
	S-4	5.6 - 10			NR			S-4: Brown, GRAVEL, some fine to medium Sand, some Silt. Moist.		
6										
8										Sand (7.2 to 8') 6" stainless steel mesh screen (7.5 to 8')
10	C-3 S-5	10 - 15 10 - 12.5		5/4	NR		-----10'-----	S-5: Black, fine to coarse SAND, some Silt, little Gravel. Wet.		
12										Bentonite Chips (8.5 to 14.7')
	S-6	12.5 - 15			NR		Gravelly SAND with Silt	S-6: Brown, fine to medium SAND, some Silt, trace Gravel. Moist.		
14										
	C-4 S-7	15 - 20 15 - 16		5/3.5	NR		-----15'-----	S-7: Brown, GRAVEL, some fine to coarse Sand, trace Silt. Very Moist.		60 to 100 mesh glass beads (14.7 to 15.5') 6" stainless steel mesh screen (15.5 to 16')
16	S-8	16 - 20			NR			S-8: Brown, GRAVEL, some fine to coarse Sand & Gravel, trace Silt. Moist.		
							Sandy GRAVEL			
18										
20										Bentonite Chips (16.6 to 22.3')

Sanborn, Head & Associates, Inc.
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Log of Soil Vapor Implant EN06-35

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Rotosonic
Sampling Method: 4" Rotosonic
Drilling Company: Boart Longyear - DL Maher Division
Foreman: John Groglia
Date Started: 01/31/06 **Date Finished: 01/31/06**
Logged By: EMB **Checked By: DBC**

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (ft)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Well Diagram	Well Description
20	C-5 S-9	20 - 25 20 - 21.5		5/43	NR			S-7: Brown, GRAVEL, some fine to coarse Sand, trace Silt. Very Moist. S-9: Brown, GRAVEL & SAND, little Silt.		
22	S-10	21.5 - 23.2			NR		Sandy GRAVEL	S-10: Brown, GRAVEL, some fine to coarse Sand, some Silt. Moist.		
	S-11	23.2 - 25			NR		-----23.2'-----	S-11: Dark brown, fine to medium SAND, some Silt, trace Gravel. Moist.		60 to 100 mesh glass beads (22.3 to 24.3')
24										
	C-6 S-12	25 - 30 25 - 29.5			NR			S-12: Dark brown, fine to medium SAND, little Silt. Moist.		
26							SILTY SAND			
28										Bentonite Chips (24.3 to 33.3')
	S-13	29.5 - 30			NR			S-13: Light brown, SILT, fine to medium Sand, some Silt. Moist.		
30	C-7 S-14	30 - 34.8 30 - 31.3		5/43	NR			S-14: Dark brown, fine to medium SAND, some Silt, little Gravel. Moist.		
	S-15	31.3 - 34.2			NR		-----31.3'-----	S-15: Brown, GRAVEL and fine to coarse Sand, some Silt. Moist. Siltier zones at 31.7', 32.7', and 33.7'.		
32							Silty GRAVEL & SAND			
34	S-16	34.2 - 34.8			NR		-----34.2'----- SAND -----34.8'-----	S-16: Brown, fine to medium SAND and SILT, trace Gravel. Moist.		60 to100 mesh glass beads (33.3 to 34.3') 6" stainless steel mesh screen (33.8 to 34.3') Sand (34.3 to 34.8')
								Boring terminated at 34.8 feet		
36								NOTES: 1. Permanent soil vapor implants were installed at the depths noted. The implants consisted of 6-inch stainless steel mesh screens equipped with drive point anchors, attached to ¼-inch O.D. lab grade stainless steel tubing using gas tight stainless steel Swagelok fittings. All four implants were fixed to 1" schedule 40 PVC riser joined by flush threaded couplings using stainless steel wire and polyethylene wire wraps. The assembly was lowered into the borehole to the completion depths before placement of glass bead filter material and bentonite chip seals.		
38								2. All samples were submitted for grain size and moisture content analysis.		
40										

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

Log of Soil Vapor Implant EN06-36

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Rotosonic
Sampling Method: 4" Rotosonic
Drilling Company: Boart Longyear - DL Maher Division
Foreman: John Groglia
Date Started: 02/01/06 **Date Finished:** 02/01/06
Logged By: EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (ft)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Well Diagram	Well Description
0	C-1 S-1	0 - 5 0 - 0.9		5/3	NR		-----0'-----	S-1: Dark brown, fine to medium SAND, some Gravel, little Silt. Moist. TOPSOIL.		18" Concrete surface seal with 9" flush-mount roadbox (0 to 1')
	S-2	0.9 - 5			NR			S-2: Brown, fine to medium SAND, little Silt, trace Gravel, trace Roots. Moist.		
2										
4										Bentonite Chips (1 to 6.9')
	C-2 S-3	5 - 10		5/3 NR			SAND	S-3: Dark brown, fine to medium SAND, little Silt, trace Gravel, trace Roots. 0.1 to 0.3 feet thick zones at 5.5' to 7.7' bgs of SILT, little fine Sand.		
6										
8	S-3A			NR				S-3A: Dark brown, SILT, little fine Sand, trace Roots. Moist.		Sand (6.9 to 8.6') 6" stainless steel mesh screen (7.5 to 8')
										Bentonite Chips (8.6 to 10.5')
10	C-3 S-4	10 - 15 10 - 11.4		5/4.2 NR				S-4: Dark brown, fine to medium SAND, some Silt, trace Gravel.		
	S-5	11.4 - 12.4		NR			-----11.4'-----	S-5: Grayish brown, GRAVEL, some fine to coarse Sand, trace Silt. Moist. Gravel is subrounded to rounded.		Sand (10.5 to 12.5') 6" stainless steel mesh screen (11.5 to 12')
12	S-5A	12.4 - 13.1		NR				S-5A: Grayish brown, GRAVEL, some fine to coarse Sand, trace Silt. Moist.		
	S-5B	13.1 - 15		NR				S-5B: Similar to S-5.		
14							Sandy GRAVEL			
	C-4 S-6	15 - 20		5/4.8	NR			S-6: Grayish brown, GRAVEL, some fine to coarse Sand, trace Silt. Similar to S-5. Drier than above.		
16								Driller encountered difficulty advancing the casing from about 16' to 18'.		Bentonite Chips (12.5 to 20.9')
18							-----18'-----	S-6A: Grayish brown, fine to medium SAND, some Gravel, little Silt. Moist.		
							SAND & GRAVEL			
20										

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

Log of Soil Vapor Implant EN06-36

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Rotosonic
Sampling Method: 4" Rotosonic
Drilling Company: Boart Longyear - DL Maher Division
Foreman: John Groglia
Date Started: 02/01/06 **Date Finished:** 02/01/06
Logged By: EMB **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (ft)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Well Diagram	Well Description
20	C-5 S-7	20 - 25 20 - 21.3		5/4.2	NR		-----20'----- Sandy GRAVEL	S-7: Brown, GRAVEL, some fine to coarse Sand, trace Silt. Moist.		
	S-8	21.3 - 24			NR		-----21.3'-----	S-8: Brown, fine to medium SAND, little Silt, trace Gravel. Moist.		Sand (20.9 to 22.5') 6" stainless steel mesh screen (21.5 to 22')
22										
24	S-8A	24 - 25			NR			S-8A: Brown, fine to medium SAND, some Silt, trace Gravel. Moist.		
	C-6 S-9	25 - 30 25 - 25.9		5/4.6	NR			S-9: Similar to S-8A.		
26	S-10	25.9 - 27			NR		SAND	S-10: Brown, fine to medium SAND, trace Silt. Moist. Predominantly medium Sand.		
	S-11	27 - 30			NR			S-11: Brown, fine to medium SAND, little Silt, trace Gravel. Moist.		Bentonite Chips (22.5 to 31.8')
28										
30	C-7	30 - 34		4/2.3						
32	S-12	32 - 34			NR		-----32'----- Gravelly SAND	S-12: Dense, brown, fine to coarse SAND, some Gravel, some Silt, partially cemented. Moist.		Sand (31.8 to 33') Stainless Steel Mesh Screen (32.5 to 33') Sand (33 to 34')
34							-----34'-----	Boring terminated at 34 feet		
36										
38										
40										

NOTES:
1. Permanent soil vapor implants were installed at the depths noted. The implants consisted of 6-inch stainless steel mesh screens equipped with drive point anchors, attached to ¼-inch O.D. lab grade stainless steel tubing using gas tight stainless steel Swagelok fittings. All four implants were fixed to 1" schedule 40 PVC riser joined by flush threaded couplings using stainless steel wire and polyethylene wire wraps. The assembly was lowered into the borehole to the completion depths before placement of glass bead filter material and bentonite chip seals.

2. All samples were submitted for grain size and moisture content analysis.

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

Log of Soil Vapor Implant 06-37

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/26/06 **Date Finished:** 01/26/06
Logged By: LJK **Checked By:** DBC

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (ft)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Well Diagram	Well Description
0	C-1	0 - 4		48/27	ND		-----0'-----	C-1: Brown to dark brown, fine to medium SAND, little Silt, trace Gravel, trace Roots. Moist. Gravel seam (~1" thick) at 2.3'.		18" Concrete surface seal with 9" flush-mount roadbox (0 to 1')
2										
4	C-2 S-2A	4 - 8 4 - 6.4		48/27	ND		Silty SAND	S-2A: Dark brown, fine to medium SAND, trace Silt, trace Gravel. Moist.		
6	S-2B	6.4 - 6.8						S-2B: Brown, fine to medium SAND, some Clayey Silt. Wet.		
8	C-3 S-3A	8 - 12 8 - 9.9		48/30	ND			S-3A: Brown, fine SAND, little Silt. Wet.		
10	S-3B	9.9 - 10.2					-----9.9'----- Clayey SILT -----10.2	S-3B: Brown, Clayey SILT, some fine Sand.		Bentonite Chips (1 to 20')
12	C-4	12 - 16		48/27	ND			C-4: Similar to S-2A.		
14							SAND	Gravel seam from 14.4 - 14.8'.		
16	C-5	16 - 20		48/29	ND			C-5: Brown, fine to coarse SAND, little Silt, trace Gravel. 2" thick Gravel seam at 18.6'.		
18										
20										

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

Log of Soil Vapor Implant 06-37

Project: Groundwater Vapor Project
Location: Endicott, NY
SHA Project No.: 2200.00.010
Drilling Method: Direct Push
Sampling Method: 2" Macrocore
Drilling Company: ESN - North Atlantic
Foreman: Dave Dionne
Date Started: 01/26/06 **Date Finished: 01/26/06**
Logged By: LJK **Checked By: DBC**

Ground Elevation:

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Stab. Time

Depth (ft)	Sample Information: Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (ft)	PID/FID Values (ppm)	Stratum: Log	Description	Geologic Description	Well Diagram	Well Description
20	C-6 S-6A	20 - 24 20 - 22.9		48/25	ND		-----20'----- Gravelly SAND	S-6A: Dark brown, fine to coarse SAND, little Silt, little Gravel. Moist.		Sand (20 to 21') 6" stainless steel mesh screen (20.5 to 21')
22										
	S-6B	22.9 - 23.5			160		-----22.9'----- Sandy GRAVEL	S-6B: Petroleum stained gray, GRAVEL, little fine to coarse Sand, trace Silt. Wet. (Saturated with petroleum).		
	S-6C	23.5 - 24			35.1		-----23.5'----- SAND & GRAVEL -----24'-----	S-6C: Yellowish brown, fine to coarse SAND, some Gravel, some Silt. Wet.		
24								Boring terminated at 21 feet		
26										
28										
30										
32										
34										
36										
38										
40										

NOTES:
1. Permanent soil vapor implants EN-06-37S, I, and D were installed at 8, 12, and 21 feet, respectively in separate boreholes. The implants consisted of a 6-inch stainless steel mesh screen attached to a stainless steel drive point anchor suspended from ¼- inch O.D. stainless steel riser using Swagelok ®gas tight fittings. The annulus around and 6-inches above the screen was backfilled with 60 to 100-mesh glass beads. The remaining annular space to the ground surface was filled with bentonite chips. The riser tubing was capped with Swagelok ®gas tight fittings. The temporary implant installations were tested by withdrawing vapor using a variable speed peristaltic pumping system equipped with a vacuum gauge. The tubing was removed following completion of sampling and laboratory analysis.

2. All samples were submitted for grain size and moisture content analysis.

APPENDIX C.3

SAMPLING RECORDS

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-6	06-7	EN04-7S	06-8	06-9
Sample ID	06-6	06-7	EN047S012406	06-8	06-9
Duplicate Designation					
Sample Date	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006
Sample Collection Depth (ft bgs)	6	8	8	8	8
Ambient Air Temp (F)	35	35	35	35	35
Weather Conditions	Clear, Cold	Clear, cold	Clear, cold	Clear, cold	Clear, cold
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	200	200	200	200
Canister Serial No.					
Flow Controller No.					
Start Time					
Start Pressure (inches Hg)	0.0	0.0	0.0	0.0	0.0
Stop Time					
Stop Pressure (inches Hg)	0.0	0.0	0.0	0.0	0.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	Yes	Yes	Yes	Yes	Yes
O_2 Reading (%)	19.5	18.9	19..7	19.3	19.7
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.2	0.9	0.1	0.6	0.2
PID Reading (ppmv)	9.3	1.7	2.2	1.3	2.3
FID Reading (ppmv)	0.0	0.0	1.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	Sh-12	**FID Meter Used:**	SHA-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-1	06-2	06-2	06-3	06-4
Sample ID	06-1	06-2	062012406	06-3	06-4
Duplicate Designation	Dup-1				
Sample Date	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006
Sample Collection Depth (ft bgs)	8	8	8	8	8
Ambient Air Temp (F)	35	35	35	35	35
Weather Conditions	Clear, cold	Clear, cold	Clear, cold	Clear, cold	Clear, cold
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	200	200	200	200
Canister Serial No.			34120		
Flow Controller No.					
Start Time			11:08		
Start Pressure (inches Hg)	0.0	0.0	30.0	0.0	0.0
Stop Time			12:22		
Stop Pressure (inches Hg)	0.0	0.0	8.5	0.0	0.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	Yes	Yes	No	Yes	Yes
O_2 Reading (%)	19.2	19.2	19.2	19.4	19.2
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.4	0.8	0.8	0.4	0.6
PID Reading (ppmv)	3.0	6.1	6.1	10.9	0.0
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Form Number: 329

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SHA-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-5				
Sample ID	06-5				
Duplicate Designation					
Sample Date	1/24/2006				
Sample Collection Depth (ft bgs)	8				
Ambient Air Temp (F)	35				
Weather Conditions	Clear, cold				
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200				
Canister Serial No.					
Flow Controller No.					
Start Time					
Start Pressure (inches Hg)	0.0				
Stop Time					
Stop Pressure (inches Hg)	0.0				
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200				
Tracer Gas Applied?	Yes				
O_2 Reading (%)	19.8				
CH_4 Reading (%)	0.0				
CO_2 Reading (%)	0.0				
PID Reading (ppmv)	0.5				
FID Reading (ppmv)	0.0				
Comment No.					

COMMENTS:

Form Number: 329.1

Sanborn, Head & Associates, Inc.

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SHA-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-15	06-16	06-17	06-18S	06-19
Sample ID	06-15	06-16	06-17	06-18S	06-19
Duplicate Designation	DUP 2				
Sample Date	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006
Sample Collection Depth (ft bgs)	8	8	8	8	8
Ambient Air Temp (F)	40	40	40	40	40
Weather Conditions	Sunny, calm	Sunny, calm	Sunny, calm	Sunny, calm	Clear, calm
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	200	200	200	200
Canister Serial No.					
Flow Controller No.					
Start Time					
Start Pressure (inches Hg)	0.0	0.0	0.0	0.0	0.0
Stop Time					
Stop Pressure (inches Hg)	0.0	0.0	0.0	0.0	0.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	Yes	Yes	Yes	Yes	Yes
O_2 Reading (%)	19.7	19.8	19.6	19.8	19.7
CH_4 Reading (%)	0.0	0.0	0.2	0.0	0.0
CO_2 Reading (%)	0.2	0.0	0.0	0.0	0.0
PID Reading (ppmv)	15.2	6.1	8.1	12.5	10.4
FID Reading (ppmv)	0.0	0.4	0.9	2.1	0.5
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SHA-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-22	06-18I17	06-18I26		
Sample ID	06-22	06-18I17	06-18I26		
Duplicate Designation					
Sample Date	1/25/2006	1/25/2006	1/25/2006		
Sample Collection Depth (ft bgs)	8	17	26		
Ambient Air Temp (F)	35	35	35		
Weather Conditions	Overcast	Overcast	Overcast		
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	200	300		
Canister Serial No.					
Flow Controller No.					
Start Time					
Start Pressure (inches Hg)	0.0	0.0	0.0		
Stop Time					
Stop Pressure (inches Hg)	0.0	0.0	0.0		
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200		
Tracer Gas Applied?	Yes	Yes	Yes		
O_2 Reading (%)	18.9	19.8	20.0		
CH_4 Reading (%)	0.0	0.2	0.0		
CO_2 Reading (%)	1.4	0.0	0.0		
PID Reading (ppmv)	6.9	21.1	15.7		
FID Reading (ppmv)	0.0	25.7	0.0		
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SHA-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-13	06-14	06-14	06-20	06-21
Sample ID	06-13	06-14	0614012506	06-20	06-21
Duplicate Designation				DUP 1	
Sample Date	1/25/2006	1/25/2006	1/25/2006	1/25/2006	1/25/2006
Sample Collection Depth (ft bgs)	8	8	8	8	8
Ambient Air Temp (F)	35	35	30	35	35
Weather Conditions	Overcast	Overcast	Overcast	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	200	200	200	200
Canister Serial No.			34651		
Flow Controller No.					
Start Time			11:14		
Start Pressure (inches Hg)	0.0	0.0	28.5	0.0	0.0
Stop Time			12:14		
Stop Pressure (inches Hg)	0.0	0.0	5.5	0.0	0.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	Yes	Yes	No	Yes	Yes
O_2 Reading (%)	19.9	19.9	20.0	19.7	19.8
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.0	0.1	0.1	0.3	0.4
PID Reading (ppmv)	13.2	15.0	13.1	12.9	15.1
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SHA-2

SOIL VAPOR SAMPLE RECORD

Location No.	EN04-5S	06-10	06-11	06-11	06-12S
Sample ID	EN045S012506	06-10	06-11	0611012606	06-12S
Duplicate Designation					
Sample Date	1/25/2006	1/25/2006	1/25/2006	1/26/2006	1/25/2006
Sample Collection Depth (ft bgs)	8	8	8	8	8
Ambient Air Temp (F)	30	30	30	25	30
Weather Conditions	Overcast	Overcast	Overcast	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	200	200	80	200
Canister Serial No.				34179	
Flow Controller No.					
Start Time				8:26	
Start Pressure (inches Hg)	0.0	0.0	0.0	29.0	0.0
Stop Time				9:40	
Stop Pressure (inches Hg)	0.0	0.0	0.0	6.5	0.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	Yes	Yes	Yes	No	Yes
O_2 Reading (%)	19.6	19.9	19.8	19.8	19.9
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.5	0.3	0.4	0.4	0.
PID Reading (ppmv)	11.5	11.7	14.8	14.8	15.7
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SHA-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-12S	06-12AD	06-12AD	06-12I17	06-12AI26
Sample ID	0612S012606	06-12AD	0612AD012606	06-12I17	06-12AI26
Duplicate Designation					
Sample Date	1/26/2006	1/26/2006	1/26/2006	1/26/2006	1/26/2006
Sample Collection Depth (ft bgs)	8	35	35	26	26
Ambient Air Temp (F)	25	30	25	30	30
Weather Conditions	Overcast	Overcast	Overcast	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	80	200	350	200	300
Canister Serial No.	22005		1732		
Flow Controller No.					
Start Time	8:38		8:58		
Start Pressure (inches Hg)	28.0	0.0	29.5	0.0	0.0
Stop Time	9:43		10:12		
Stop Pressure (inches Hg)	6.5	0.0	6.0	0.0	0.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	No	Yes	No	Yes	Yes
O_2 Reading (%)	19.9	19.2	19.2	19.4	19.2
CH_4 Reading (%)	0.0	00.0	0.0	0.0	0.0
CO_2 Reading (%)	0.2	1.1	1.1	0.5	1.0
PID Reading (ppmv)	15.7	9.4	9.4	8.2	11.3
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SHA-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-21A	06-21A	06-25	06-27I	06-27I
Sample ID	06-21A	0621A012606	06-25	06-27I	0627I012606
Duplicate Designation					
Sample Date	1/26/2006	1/26/2006	1/26/2006	1/26/2006	1/26/2006
Sample Collection Depth (ft bgs)	8	8	8	14	14
Ambient Air Temp (F)	30	25	30	30	25
Weather Conditions	Overcast	Overcast	Overcast	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	80	200	200	140
Canister Serial No.		25204			97107
Flow Controller No.					
Start Time		9:37			13:47
Start Pressure (inches Hg)	0.0	28.5	0.0	0.0	30.0
Stop Time		10:45			14:43
Stop Pressure (inches Hg)	0.0	6.0	0.0	0.0	7.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	Yes	No	Yes	Yes	No
O_2 Reading (%)	19.7	19.7	19.7	19.2	19.2
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.2	0.2	0.0	0.7	0.7
PID Reading (ppmv)	18.2	18.2	9.5	9.7	9.7
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-26	06-27S	06-27D	06-27D	06-24
Sample ID	06-26	06-27S	06-27D	0627D012606	06-24
Duplicate Designation					
Sample Date	1/26/2006	1/26/2006	1/26/2006	1/26/2006	1/26/2006
Sample Collection Depth (ft bgs)	8	8	20	20	8
Ambient Air Temp (F)	30	30	30	25	25
Weather Conditions	Overcast	Overcast	Overcast	Overcast	Overcast
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	200	300	200	200
Canister Serial No.				9390	
Flow Controller No.					
Start Time				13:54	
Start Pressure (inches Hg)	0.0	0.0	0.0	30.0	0.0
Stop Time				14:54	
Stop Pressure (inches Hg)	0.0	0.0	0.0	6.0	0.0
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200	200	200	200
Tracer Gas Applied?	Yes	Yes	Yes	No	Yes
O_2 Reading (%)	19.8	19.6	18.0	18.0	19.2
CH_4 Reading (%)	0.0	0.0	0.0	0.0	0.0
CO_2 Reading (%)	0.0	0.2	1.5	1.5	0.6
PID Reading (ppmv)	15.8	13.2	10.3	10.3	11.2
FID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0
Comment No.					

COMMENTS:

Print Date: Thursday, March 30, 2006 10:13:54 AM

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:	GEM 2000	**Collectors:**	EMB, LJK
PID Meter Used:	SH-12	**FID Meter Used:**	SH-2

SOIL VAPOR SAMPLE RECORD

Location No.	06-23	06-12S			
Sample ID	06-23	06-12SR			
Duplicate Designation	DUP 1				
Sample Date	1/26/2006	1/26/2006			
Sample Collection Depth (ft bgs)	8	8			
Ambient Air Temp (F)	25	25			
Weather Conditions	Overcast	Overcast			
Summa Canister Sampling					
Approx. Purge Volume (cm^3)	200	200			
Canister Serial No.					
Flow Controller No.					
Start Time					
Start Pressure (inches Hg)	0.0	0.0			
Stop Time					
Stop Pressure (inches Hg)	0.0	0.0			
Tedlar Bag Field Screening					
Approx. Purge Rate (cm^3/min)	200	200			
Tracer Gas Applied?	Yes	Yes			
O_2 Reading (%)	19.6	19.8			
CH_4 Reading (%)	0.0	0.0			
CO_2 Reading (%)	0.4	0.3			
PID Reading (ppmv)	11.6	9.8			
FID Reading (ppmv)	0.0	0.0			
Comment No.					

COMMENTS:

Form Number: 337

APPENDIX C.4

MOBILE ANALYTICAL LABORATORY ANALYSES

ESN
North Atlantic
Environmental Services Network
Direct Push Sampling
In-Situ Remediation
Mobile & Fixed Base Chemical Analysis
Integrated Site Characterization

Soil Vapor Sampling & Analysis Project
Endicott, NY

Client: Sanborn Head & Associates
Project Date: January 17, 2006
Report Date: February 6, 2006
Project Name: Endicott January 2006 Field Program

ESN Project Summary:

ESN North Atlantic implanted and analyzed approximately 37 subsurface soil vapor and 4 duplicate samples from areas of the site identified by Sanborn Head & Associates. Each sample collected was analyzed on-site using ESN North Atlantic's mobile laboratory for target compounds. The chemical data generated was transmitted immediately to Sanborn Head & Associates.

Sample Collection Project Summary:

Each soil vapor implant sample location was installed using ESN North Atlantic's direct push system using small diameter (1" dia.) steel rods. The rods were pushed and hammered to approximately the eight foot depth below grade. A disposable point attached to a six inch long stainless steel screen was placed in the ground. The screen and point were attached to ¼" diameter Teflon tubing that exited at the ground surface. The screen and tubing, after retrieval of the rods, was encased with clean glass beads and a bentonite seal. The Teflon tubing had a ¼" diameter stainless steel union placed on the tubing end and capped. The union and tubing were then placed under a PVC cap flush to the ground.

After approximately twenty four hours after installation, the vapor implant discharge tube was connected to a peristaltic pump for sample collection. The pump was calibrated to remove soil vapor at a rate of approximately 200 mL/min. After an initial purge of about two hundred milliliters of vapor the sample was collected in three liter tedlar bags. Immediately following sample collection, additional sample was collected for field parameters and Summa canister samples, when required. In addition to the target compounds, the tracer gas used during sample collection, sulfur hexafluoride (SF^6), was also analyzed.

If SF6 was present above the reporting level (10 ug/m^3) the implant seals may have been compromised and a new implant was to be installed. However, SF^6 was not detected in any of the samples collected.

Chemical Analysis Summary:

Equipment:

Instruments used: HP-GCD Mass Spectrometer, HP 5890 Series II GC with ECD/Photoionization detectors, Tekmar 3000 Purge and Trap System.

Detectors Used: Mass spectrometer, ECD

GC/MS Column: 30 meter, ,25 um capillary column
GC Column: VOCOL 60 meter, 0.53 um capillary column

Sample preparation:

Chemical Analysis for Vapor Samples - A total of 39 vapor samples, collected in 3 liter tedlar bags, were submitted for chemical analysis. A 1000 mL aliquot was withdrawn from each tedlar bag and prepared for analysis using a Tekmar 3000 purge and trap concentration system. The concentrated vapors were then transferred onto the GC column and MS detector for analysis.

Target Compound List: The GC was initially calibrated for USEPA SW-846 Method 8260B compounds with more extensive calibration for the client specified compounds from the following target list:

Benzene
Chlorobenzene
Chloroform
Chloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,1-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethane
trans-1,2-Dichloroethane
Ethylbenzene
MTBE
Naphthalene
Tetrachloroethane
Toluene
1,1,1-Trichlorethane
Trichloroethene
Trichlorofluoromethane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl Chloride
o-xylene
m/p-xylenes

In addition to the 8260B Target compound list, two additional non-target Freon compounds were added to the calibration, 1,1,2-Trichlorofluoroehtane and 1,2-Dichoro-1,1,2-trichloroethane.

Method:

A minor modification of USEPA SW-846 #8260B was used for this project. ESN North Atlantic used a proprietary sample preparation and analysis method that has been developed and refined for trace level analysis.

All of the analyses were performed after an initial three point calibration and method blank were completed. The resulting calibration curves were used in determining the concentration for target compounds detected during analysis. Additional method blanks were analyzed each day and cleaning blanks were analyzed between samples that exhibited significant concentrations of the target or unidentified compounds. At the end of each day and after every ten samples, a continuing calibration was performed to

confirm that the analytical system remained in calibration. The calibration range extended over the anticipated range of target concentrations and within the linear range of the detectors.

Surrogate recovery analysis was completed for each sample to indicate system performance and the potential for matrix interferences.

All calibration and method blank analysis were in compliance with ESN North Atlantic's Standard Operating Procedures, compliant with the guidance from SW-846 method 8260B methodology.

QC Analysis Summary:

A method blank was analyzed daily prior to the samples and was below the reporting limits for the target compounds. A continuing calibration check standard was analyzed daily to confirm the system was operating within acceptable calibration/operating limits.

The vapor reporting limits for this project ranged from 10 – 50 ug/m^3, most of the project specific target compounds were at the 10-20 ug/m^3 level.

The expected reporting limits were achieved for this project.

Surrogate Recovery

Each sample had three surrogate compounds added prior to analysis. The recovery percentage for all samples was in the acceptable range of 30-200% recovery for vapor samples. Surrogate recovery for vapor samples are used as advisory only and out of range data does not compromise the usability of the data.

Analysis Summary:

Approximately 27 of the vapor samples had detectable concentrations of the target compounds present. The concentrations present ranged from 14 to 6700 μg/m^3.

Sulfur Hexaflouride (SF_6) was used as a tracer in the field at the time of sampling. No samples had detectable levels of Sulfur Hexaflouride. Calibration and quantitation for SF_6 was performed, since no detectable levels were found, no concentration data exists for the SF_6 analysis. The reporting level was 10 ug/m^3.

Approximately four field vapor duplicates were collected and analyzed. Three of the four duplicate samples had detectable concentrations of the target compounds, the calculated Relative Per Cent Difference (RPD) for the samples:

- Sample 06-1, 0 % RPD, 2.3% RPD, 44 % RPD, NA.
- Sample 06-15, 34% RPD, 49 %
- Sample 06-20, 28 % RPD

Typical advisory RPD criteria is <30%. Sample 06-23 was non-detect for all compounds. Relative per cent differences greater than 30% does not compromise the usability of the data, rather it reflects to some extent the variance in duplicate sampling procedures and the variability of chemical concentrations in the soil.

ESN North Atlantic — Environmental Services Network

Direct Push Sampling | Mobile & Fixed Base Chemical Analysis
In-Situ Remediation | Integrated Site Characterization

Certificate of Analysis

Sample Identification	**MTH BLK**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	102
Toluene-d8	104
4-Bromofluorobenzene	70

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

15 Holly St., Ste 102
Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-7**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	**90**	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	**55**
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**26**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	**27**	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	122
Toluene-d8	124
4-Bromofluorobenzene	153

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

15 Holly St., Ste 102
Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-8**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	**120**	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**34**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	**25**	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	115
Toluene-d8	121
4-Bromofluorobenzene	161

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-1**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	**130**	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**44**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**33**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	**20**	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	131
Toluene-d8	134
4-Bromofluorobenzene	145

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-1**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

DUPLICATE

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	**130**	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**43**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**21**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	102
Toluene-d8	108
4-Bromofluorobenzene	118

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-9**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	**55**	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	94
Toluene-d8	95
4-Bromofluorobenzene	91

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-2**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**46**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**33**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	118
Toluene-d8	118
4-Bromofluorobenzene	117

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-3**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**22**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	99
Toluene-d8	97
4-Bromofluorobenzene	96

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-4**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	**79**	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**30**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**280**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	98
Toluene-d8	99
4-Bromofluorobenzene	100

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-6**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	**75**	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**410**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**6700**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	**45**	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	**170**	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	**60**	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	103
Toluene-d8	105
4-Bromofluorobenzene	114

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**EN04-7S**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	**90**	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	102
Toluene-d8	103
4-Bromofluorobenzene	103

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-5**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**26**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**240**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	**20**	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	100
Toluene-d8	105
4-Bromofluorobenzene	149

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-18S**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/23/2006
Date Analyzed	1/24/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**75**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**420**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	**28**	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	90
Toluene-d8	93
4-Bromofluorobenzene	113

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	MTH BLK
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	122
Toluene-d8	127
4-Bromofluorobenzene	95

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-16**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**20**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	83
Toluene-d8	86
4-Bromofluorobenzene	128

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-15**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**29**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**78**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	85
Toluene-d8	88
4-Bromofluorobenzene	94

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-15**	DUPLICATE
Depth (ft)	8'	
Sample Matrix	Soil Vapor	
Units:	ug/m3	
% Solid	N/A	
Dilution	1	
Sample Preservation	N/A	
Sample Volume	1000 cc.	
Date Sampled	1/24/2006	
Date Analyzed	1/25/2006	

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results
Chloromethane	20	<
Dichlorodifluoromethane	20	<
Chloroethane	20	<
Vinyl chloride	20	<
Bromomethane	20	<
Trichlorofluoromethane	10	<
Diethyl ether	50	<
Acetonitrile	50	<
Idomethane	50	<
1,1-Dichloroethene	10	<
Carbon Disulfide	20	<
Allyl chloride	50	<
Methylene chloride	50	<
Acrylonitrile	50	<
1,1,2 -Trichlorotrifluoroethane	10	<
trans-1,2-Dichloroethene	10	<
MTBE	20	**110**
Chloroform	10	<
1,1-Dichloroethane	10	<
Chloroprene	20	<
2,2-Dichloropropane	10	<
Methyl acrylate	50	<
cis-1,2,-Dichloroethene	10	<
Tetrahydrofuran	50	<
Methyacrylonitrile	50	<
Isobutyl alcohol	50	<
1,1,1-Trichloroethane	10	<

Compound	RL ug/m3	Results
1,2-Dichloroethane	10	<
1,1-Dichloropropene	10	<
Carbon Tetrachloride	10	<
Benzene	20	<
2-Chloroethanol	50	<
1,2-Dichloropropane	10	<
Trichloroethene	10	<
Bromodichloromethane	10	<
Dibromomethane	10	<
Methyl methacrylate	50	<
1,4-Dioxane	50	<
cis-1,3-Dichloropropene	10	<
trans-1,3-Dichloropropene	10	<
2-Nitropropane	50	<
Toluene	20	**48**
1,1,2-Trichloroethane	10	<
Ethylmethacrylate	50	<
1,3-Dichloropropane	10	<
Dibromochloromethane	10	<
1,2-Dibromomethane	10	<
Tetrachloroethene	10	<
Chlorobenzene	10	<
1,1,1,2-Tetrachloroethane	10	<
Ethylbenzene	20	<
m/p-xylene	20	<
Bromoform	20	<
o-xylene	20	<

Compound	RL ug/m3	Results
Styrene	10	<
trans-1,4-Dichloro-2-butene	10	<
cis-1,4,-Dichloro-2-butene	10	<
1,1,2,2-Tetrachloroethane	10	<
1,2,3-Trichloropropane	10	<
Isopropylbenzene	10	<
Bromobenzene	10	<
2-Chlorotoluene	20	<
4-Chlorotoluene	20	<
n-propylbenzene	10	<
1,3,5-Trimethylbenzene	50	<
Pentachloroethane	10	<
1,2,4-Trimethylbenzene	50	<
tert-butylbenzene	10	<
sec-butylbenzene	10	<
1,3-Dichlorobenzene	500	<
1,4-Dichlorobenzene	500	<
p-iso-Propyltoluene	10	<
1,2-Dichlorobenzene	500	<
n-butylbenzene	10	<
1,2-Bromo-3-chloropropane	10	<
Nitrobenzene	50	<
1,2,4-Trichlorobenzene	10	<
Naphthalene	10000	<
1,2,3-Trichlorobenzene	10	<
Hexachlorobutadiene	10	<
1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	88
Toluene-d8	89
4-Bromofluorobenzene	102

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-17**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**59**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**240**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	99
Toluene-d8	110
4-Bromofluorobenzene	181

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-19**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**64**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	89
Toluene-d8	91
4-Bromofluorobenzene	101

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**EN04-5S**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**52**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	85
Toluene-d8	86
4-Bromofluorobenzene	100

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-10**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**53**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	91
Toluene-d8	94
4-Bromofluorobenzene	106

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-12S**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results
Chloromethane	20	<
Dichlorodifluoromethane	20	<
Chloroethane	20	<
Vinyl chloride	20	<
Bromomethane	20	<
Trichlorofluoromethane	10	<
Diethyl ether	50	<
Acetonitrile	50	<
Idomethane	50	<
1,1-Dichloroethene	10	<
Carbon Disulfide	20	<
Allyl chloride	50	<
Methylene chloride	50	<
Acrylonitrile	50	<
1,1,2 -Trichlorotrifluoroethane	10	<
trans-1,2-Dichloroethene	10	<
MTBE	20	<
Chloroform	10	<
1,1-Dichloroethane	10	<
Chloroprene	20	<
2,2-Dichloropropane	10	<
Methyl acrylate	50	<
cis-1,2,-Dichloroethene	10	<
Tetrahydrofuran	50	<
Methyacrylonitrile	50	<
Isobutyl alcohol	50	<
1,1,1-Trichloroethane	10	<

Compound	RL ug/m3	Results
1,2-Dichloroethane	10	<
1,1-Dichloropropene	10	<
Carbon Tetrachloride	10	<
Benzene	20	<
2-Chloroethanol	50	<
1,2-Dichloropropane	10	<
Trichloroethene	10	<
Bromodichloromethane	10	<
Dibromomethane	10	<
Methyl methacrylate	50	<
1,4-Dioxane	50	<
cis-1,3-Dichloropropene	10	<
trans-1,3-Dichloropropene	10	<
2-Nitropropane	50	<
Toluene	20	27
1,1,2-Trichloroethane	10	<
Ethylmethacrylate	50	<
1,3-Dichloropropane	10	<
Dibromochloromethane	10	<
1,2-Dibromomethane	10	<
Tetrachloroethene	10	<
Chlorobenzene	10	<
1,1,1,2-Tetrachloroethane	10	<
Ethylbenzene	20	<
m/p-xylene	20	<
Bromoform	20	<
o-xylene	20	<

Compound	RL ug/m3	Results
Styrene	10	<
trans-1,4-Dichloro-2-butene	10	<
cis-1,4,-Dichloro-2-butene	10	<
1,1,2,2-Tetrachloroethane	10	<
1,2,3-Trichloropropane	10	<
Isopropylbenzene	10	<
Bromobenzene	10	<
2-Chlorotoluene	20	<
4-Chlorotoluene	20	<
n-propylbenzene	10	<
1,3,5-Trimethylbenzene	50	<
Pentachloroethane	10	<
1,2,4-Trimethylbenzene	50	<
tert-butylbenzene	10	<
sec-butylbenzene	10	<
1,3-Dichlorobenzene	500	<
1,4-Dichlorobenzene	500	<
p-iso-Propyltoluene	10	<
1,2-Dichlorobenzene	500	<
n-butylbenzene	10	<
1,2-Bromo-3-chloropropane	10	<
Nitrobenzene	50	<
1,2,4-Trichlorobenzene	10	<
Naphthalene	10000	<
1,2,3-Trichlorobenzene	10	<
Hexachlorobutadiene	10	<
1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	87
Toluene-d8	90
4-Bromofluorobenzene	96

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-14**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	83
Toluene-d8	80
4-Bromofluorobenzene	97

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

15 Holly St., Ste 102
Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-13**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	79
Toluene-d8	75
4-Bromofluorobenzene	73

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

15 Holly St., Ste 102
Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-11**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**670**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**47**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**78**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	78
Toluene-d8	73
4-Bromofluorobenzene	74

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-20**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results
Chloromethane	20	<
Dichlorodifluoromethane	20	<
Chloroethane	20	<
Vinyl chloride	20	<
Bromomethane	20	<
Trichlorofluoromethane	10	<
Diethyl ether	50	<
Acetonitrile	50	<
Idomethane	50	<
1,1-Dichloroethene	10	<
Carbon Disulfide	20	<
Allyl chloride	50	<
Methylene chloride	50	<
Acrylonitrile	50	<
1,1,2 -Trichlorotrifluoroethane	10	<
trans-1,2-Dichloroethene	10	<
MTBE	20	**21**
Chloroform	10	<
1,1-Dichloroethane	10	<
Chloroprene	20	<
2,2-Dichloropropane	10	<
Methyl acrylate	50	<
cis-1,2,-Dichloroethene	10	<
Tetrahydrofuran	50	<
Methyacrylonitrile	50	<
Isobutyl alcohol	50	<
1,1,1-Trichloroethane	10	<

Compound	RL ug/m3	Results
1,2-Dichloroethane	10	<
1,1-Dichloropropene	10	<
Carbon Tetrachloride	10	<
Benzene	20	<
2-Chloroethanol	50	<
1,2-Dichloropropane	10	<
Trichloroethene	10	<
Bromodichloromethane	10	<
Dibromomethane	10	<
Methyl methacrylate	50	<
1,4-Dioxane	50	<
cis-1,3-Dichloropropene	10	<
trans-1,3-Dichloropropene	10	<
2-Nitropropane	50	<
Toluene	20	<
1,1,2-Trichloroethane	10	<
Ethylmethacrylate	50	<
1,3-Dichloropropane	10	<
Dibromochloromethane	10	<
1,2-Dibromomethane	10	<
Tetrachloroethene	10	<
Chlorobenzene	10	<
1,1,1,2-Tetrachloroethane	10	<
Ethylbenzene	20	<
m/p-xylene	20	<
Bromoform	20	<
o-xylene	20	<

Compound	RL ug/m3	Results
Styrene	10	<
trans-1,4-Dichloro-2-butene	10	<
cis-1,4,-Dichloro-2-butene	10	<
1,1,2,2-Tetrachloroethane	10	<
1,2,3-Trichloropropane	10	<
Isopropylbenzene	10	<
Bromobenzene	10	<
2-Chlorotoluene	20	<
4-Chlorotoluene	20	<
n-propylbenzene	10	<
1,3,5-Trimethylbenzene	50	<
Pentachloroethane	10	<
1,2,4-Trimethylbenzene	50	<
tert-butylbenzene	10	<
sec-butylbenzene	10	<
1,3-Dichlorobenzene	500	<
1,4-Dichlorobenzene	500	<
p-iso-Propyltoluene	10	<
1,2-Dichlorobenzene	500	<
n-butylbenzene	10	<
1,2-Bromo-3-chloropropane	10	<
Nitrobenzene	50	<
1,2,4-Trichlorobenzene	10	<
Naphthalene	10000	<
1,2,3-Trichlorobenzene	10	<
Hexachlorobutadiene	10	<
1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	78
Toluene-d8	74
4-Bromofluorobenzene	71

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-20**	DUPLICATE
Depth (ft)	8'	
Sample Matrix	Soil Vapor	
Units:	ug/m3	
% Solid	N/A	
Dilution	1	
Sample Preservation	N/A	
Sample Volume	1000 cc.	
Date Sampled	1/24/2006	
Date Analyzed	1/25/2006	

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**28**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	77
Toluene-d8	72
4-Bromofluorobenzene	73

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-21**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	77
Toluene-d8	72
4-Bromofluorobenzene	66

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

15 Holly St., Ste 102
Scarborough, ME 04070

800-880-0533
info@esnnorth.com

ESN North Atlantic | Environmental Services Network

Direct Push Sampling | Mobile & Fixed Base Chemical Analysis
In-Situ Remediation | Integrated Site Characterization

Certificate of Analysis

Sample Identification	**06-22**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	81
Toluene-d8	79
4-Bromofluorobenzene	81

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-18I17**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	83
Toluene-d8	77
4-Bromofluorobenzene	75

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-18I26**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/24/2006
Date Analyzed	1/25/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	88
Toluene-d8	83
4-Bromofluorobenzene	88

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**MTH BLK**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/26/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	92
Toluene-d8	97
4-Bromofluorobenzene	92

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-12AD**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**230**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	**14**	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	**370**	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	93
Toluene-d8	97
4-Bromofluorobenzene	140

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-12AI26**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	**120**	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**79**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	**320**	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	87
Toluene-d8	89
4-Bromofluorobenzene	109

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

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Certificate of Analysis

Sample Identification	**06-12I17**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	**150**	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	**24**	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	**110**	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	92
Toluene-d8	93
4-Bromofluorobenzene	109

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

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Scarborough, ME 04070

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Sample Identification	**06-21A**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results
Chloromethane	20	<
Dichlorodifluoromethane	20	<
Chloroethane	20	<
Vinyl chloride	20	<
Bromomethane	20	<
Trichlorofluoromethane	10	<
Diethyl ether	50	<
Acetonitrile	50	<
Idomethane	50	<
1,1-Dichloroethene	10	<
Carbon Disulfide	20	<
Allyl chloride	50	<
Methylene chloride	50	<
Acrylonitrile	50	<
1,1,2 -Trichlorotrifluoroethane	10	<
trans-1,2-Dichloroethene	10	<
MTBE	20	**130**
Chloroform	10	<
1,1-Dichloroethane	10	<
Chloroprene	20	<
2,2-Dichloropropane	10	<
Methyl acrylate	50	<
cis-1,2,-Dichloroethene	10	<
Tetrahydrofuran	50	<
Methyacrylonitrile	50	<
Isobutyl alcohol	50	<
1,1,1-Trichloroethane	10	<

Compound	RL ug/m3	Results
1,2-Dichloroethane	10	<
1,1-Dichloropropene	10	<
Carbon Tetrachloride	10	<
Benzene	20	<
2-Chloroethanol	50	<
1,2-Dichloropropane	10	<
Trichloroethene	10	<
Bromodichloromethane	10	<
Dibromomethane	10	<
Methyl methacrylate	50	<
1,4-Dioxane	50	<
cis-1,3-Dichloropropene	10	<
trans-1,3-Dichloropropene	10	<
2-Nitropropane	50	<
Toluene	20	**37**
1,1,2-Trichloroethane	10	<
Ethylmethacrylate	50	<
1,3-Dichloropropane	10	<
Dibromochloromethane	10	<
1,2-Dibromomethane	10	<
Tetrachloroethene	10	<
Chlorobenzene	10	<
1,1,1,2-Tetrachloroethane	10	<
Ethylbenzene	20	<
m/p-xylene	20	<
Bromoform	20	<
o-xylene	20	<

Compound	RL ug/m3	Results
Styrene	10	<
trans-1,4-Dichloro-2-butene	10	<
cis-1,4,-Dichloro-2-butene	10	<
1,1,2,2-Tetrachloroethane	10	<
1,2,3-Trichloropropane	10	<
Isopropylbenzene	10	<
Bromobenzene	10	<
2-Chlorotoluene	20	<
4-Chlorotoluene	20	<
n-propylbenzene	10	<
1,3,5-Trimethylbenzene	50	<
Pentachloroethane	10	<
1,2,4-Trimethylbenzene	50	<
tert-butylbenzene	10	<
sec-butylbenzene	10	<
1,3-Dichlorobenzene	500	<
1,4-Dichlorobenzene	500	<
p-iso-Propyltoluene	10	<
1,2-Dichlorobenzene	500	<
n-butylbenzene	10	<
1,2-Bromo-3-chloropropane	10	<
Nitrobenzene	50	<
1,2,4-Trichlorobenzene	10	<
Naphthalene	10000	<
1,2,3-Trichlorobenzene	10	<
Hexachlorobutadiene	10	<
1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	95
Toluene-d8	95
4-Bromofluorobenzene	110

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-27S**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	99
Toluene-d8	101
4-Bromofluorobenzene	121

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

15 Holly St., Ste 102
Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-25**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	105
Toluene-d8	106
4-Bromofluorobenzene	129

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-26**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	102
Toluene-d8	104
4-Bromofluorobenzene	126

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-27I**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	**43**	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	97
Toluene-d8	98
4-Bromofluorobenzene	115

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

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Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-27D**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	**140**	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	**34**	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	**24**	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	**600**	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	102
Toluene-d8	104
4-Bromofluorobenzene	126

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912

15 Holly St., Ste 102
Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-24**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	103
Toluene-d8	104
4-Bromofluorobenzene	112

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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15 Holly St., Ste 102
Scarborough, ME 04070

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Certificate of Analysis

Sample Identification	**06-23**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	114
Toluene-d8	117
4-Bromofluorobenzene	155

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Fax: 207-883-1912
15 Holly St., Ste 102
Scarborough, ME 04070
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Certificate of Analysis

Sample Identification	**06-23**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

DUPLICATE

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	108
Toluene-d8	110
4-Bromofluorobenzene	134

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

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Certificate of Analysis

Sample Identification	**06-11A**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	<	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	105
Toluene-d8	108
4-Bromofluorobenzene	126

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

PO Box 6752
Fax: 207-883-1912

15 Holly St., Ste 102
Scarborough, ME 04070

800-880-0533
info@esnnorth.com

ESN North Atlantic | Environmental Services Network
Direct Push Sampling | Mobile & Fixed Base Chemical Analysis
In-Situ Remediation | Integrated Site Characterization

Certificate of Analysis

Sample Identification	**06-12SR**
Depth (ft)	8'
Sample Matrix	Soil Vapor
Units:	ug/m3
% Solid	N/A
Dilution	1
Sample Preservation	N/A
Sample Volume	1000 cc.
Date Sampled	1/25/2006
Date Analyzed	1/26/2006

Client:	**Sanborn Head Associates**
Project	**IBM**
Loc.:	**Endicott, N.Y.**
Project No.:	N/A
Chemist:	DMT/SLD

Analytical Method: USEPA SW-846 8260B
Instrument: Agilent 5890 GCD MS
Detectors: Mass spectrometer
Column: DB-5, 30 meter, .25 um
Conc. System: Tekmar 3000 Purge & Trap System
Trap: Vocarb 3000

Method:
USEPA SW846 METHOD 8260B

Compound	RL ug/m3	Results	Compound	RL ug/m3	Results	Compound	RL ug/m3	Results
Chloromethane	20	<	1,2-Dichloroethane	10	<	Styrene	10	<
Dichlorodifluoromethane	20	<	1,1-Dichloropropene	10	<	trans-1,4-Dichloro-2-butene	10	<
Chloroethane	20	<	Carbon Tetrachloride	10	<	cis-1,4,-Dichloro-2-butene	10	<
Vinyl chloride	20	<	Benzene	20	<	1,1,2,2-Tetrachloroethane	10	<
Bromomethane	20	<	2-Chloroethanol	50	<	1,2,3-Trichloropropane	10	<
Trichlorofluoromethane	10	<	1,2-Dichloropropane	10	<	Isopropylbenzene	10	<
Diethyl ether	50	<	Trichloroethene	10	<	Bromobenzene	10	<
Acetonitrile	50	<	Bromodichloromethane	10	<	2-Chlorotoluene	20	<
Idomethane	50	<	Dibromomethane	10	<	4-Chlorotoluene	20	<
1,1-Dichloroethene	10	<	Methyl methacrylate	50	<	n-propylbenzene	10	<
Carbon Disulfide	20	<	1,4-Dioxane	50	<	1,3,5-Trimethylbenzene	50	<
Allyl chloride	50	<	cis-1,3-Dichloropropene	10	<	Pentachloroethane	10	<
Methylene chloride	50	<	trans-1,3-Dichloropropene	10	<	1,2,4-Trimethylbenzene	50	<
Acrylonitrile	50	<	2-Nitropropane	50	<	tert-butylbenzene	10	<
1,1,2 -Trichlorotrifluoroethane	10	<	Toluene	20	**53**	sec-butylbenzene	10	<
trans-1,2-Dichloroethene	10	<	1,1,2-Trichloroethane	10	<	1,3-Dichlorobenzene	500	<
MTBE	20	<	Ethylmethacrylate	50	<	1,4-Dichlorobenzene	500	<
Chloroform	10	<	1,3-Dichloropropane	10	<	p-iso-Propyltoluene	10	<
1,1-Dichloroethane	10	<	Dibromochloromethane	10	<	1,2-Dichlorobenzene	500	<
Chloroprene	20	<	1,2-Dibromomethane	10	<	n-butylbenzene	10	<
2,2-Dichloropropane	10	<	Tetrachloroethene	10	<	1,2-Bromo-3-chloropropane	10	<
Methyl acrylate	50	<	Chlorobenzene	10	<	Nitrobenzene	50	<
cis-1,2,-Dichloroethene	10	<	1,1,1,2-Tetrachloroethane	10	<	1,2,4-Trichlorobenzene	10	<
Tetrahydrofuran	50	<	Ethylbenzene	20	<	Naphthalene	10000	<
Methyacrylonitrile	50	<	m/p-xylene	20	<	1,2,3-Trichlorobenzene	10	<
Isobutyl alcohol	50	<	Bromoform	20	<	Hexachlorobutadiene	10	<
1,1,1-Trichloroethane	10	<	o-xylene	20	<	1,2-Dichloro-1,1,2-trifluoroethane	20	<

Legend:
< = less than reporting limits
J = less than reporting limit, above detection levels
E = estimated, above calibration range

Surrogate Recovery	%
Dibromofluoromethane	110
Toluene-d8	111
4-Bromofluorobenzene	130

Notes:

Chemist/Reviewer: DMT/RMB

Date: 2/1/06

PO Box 6752
Fax: 207-883-1912
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800-880-0533
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APPENDIX C.5

ANALYTICAL LABORATORY REPORTS

APPENDIX C.5.1

AIR TOXICS LTD.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0601542

Work Order Summary

CLIENT:	Ms. Betsy Tomaswick Sanborn, Head & Associates 20 Foundry Street Concord, NH 03301	**BILL TO:**	Ms. Betsy Tomaswick Sanborn, Head & Associates 20 Foundry Street Concord, NH 03301
PHONE:	603-229-1900	**P.O. #**	BCT2200
FAX:	603-229-1919	**PROJECT #**	2200.00 GVP
DATE RECEIVED:	01/27/2006	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/02/2006		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	0621A012606	Modified TO-15	6.0 "Hg
02A	0611012606	Modified TO-15	4.0 "Hg
02AA	0611012606 Duplicate	Modified TO-15	4.0 "Hg
03A	0612S012606	Modified TO-15	5.5 "Hg
04A	0612AD012606	Modified TO-15	4.0 "Hg
04AA	0612AD012606 Duplicate	Modified TO-15	4.0 "Hg
05A	0627I012606	Modified TO-15	5.5 "Hg
06A	0627D012606	Modified TO-15	4.0 "Hg
07A	062012406	Modified TO-15	6.5 "Hg
08A	EB9487012606	Modified TO-15	5.0 "Hg
09A	0614012506	Modified TO-15	5.0 "Hg
10A	Lab Blank	Modified TO-15	NA
11A	CCV	Modified TO-15	NA
12A	LCS	Modified TO-15	NA
13A	LCSD	Modified TO-15	NA

CERTIFIED Y: Linda J. Freeman DATE: 02/03/06

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Sanborn, Head & Associates
Workorder# 0601542

Nine 1 Liter Summa Canister (100% Certified) samples were received on January 27, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 0621A012606

Lab ID#: 0601542-01A

No Detections Were Found.

Client Sample ID: 0611012606

Lab ID#: 0601542-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	1.2	310	6.7	1600

Client Sample ID: 0611012606 Duplicate

Lab ID#: 0601542-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	1.2	300	6.7	1600

Client Sample ID: 0612S012606

Lab ID#: 0601542-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.82	1.1	2.8	3.8

Client Sample ID: 0612AD012606

Lab ID#: 0601542-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.78	1.3	3.1	5.2
1,1-Dichloroethane	0.78	1.8	3.1	7.1
cis-1,2-Dichloroethene	0.78	4.4	3.1	18
1,1,1-Trichloroethane	0.78	110	4.2	600
Trichloroethene	0.78	91	4.2	490

Client Sample ID: 0612AD012606 Duplicate

Lab ID#: 0601542-04AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.78	1.3	3.1	5.1
1,1-Dichloroethane	0.78	1.7	3.1	6.8
cis-1,2-Dichloroethene	0.78	4.5	3.1	18
1,1,1-Trichloroethane	0.78	110	4.2	590
Trichloroethene	0.78	94	4.2	500

Client Sample ID: 0627I012606

Lab ID#: 0601542-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.82	14	3.2	57
Trichloroethene	0.82	2.3	4.4	12

Client Sample ID: 0627D012606

Lab ID#: 0601542-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.78	10	2.0	26
cis-1,2-Dichloroethene	0.78	200	3.1	780
Trichloroethene	0.78	14	4.2	76
Tetrachloroethene	0.78	3.7	5.2	25
trans-1,2-Dichloroethene	0.78	2.7	3.1	11

Client Sample ID: 062012406

Lab ID#: 0601542-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.86	2.5	3.0	8.6
1,1,1-Trichloroethane	0.86	1.1	4.7	6.2
Trichloroethene	0.86	12	4.6	67

Client Sample ID: EB9487012606

Lab ID#: 0601542-08A

No Detections Were Found.

Client Sample ID: 0614012506

Lab ID#: 0601542-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,1-Trichloroethane	0.80	0.96	4.4	5.2
Trichloroethene	0.80	0.89	4.3	4.8
Tetrachloroethene	0.80	1.8	5.5	12

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Client Sample ID: 0621A012606

Lab ID#: 0601542-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013011	Date of Collection:	1/26/06
Dil. Factor:	1.68	Date of Analysis:	1/30/06 09:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

Client Sample ID: 0611012606

Lab ID#: 0601542-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013012	Date of Collection:	1/26/06
Dil. Factor:	2.48	Date of Analysis:	1/30/06 11:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Chloroethane	1.2	Not Detected	3.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
Methylene Chloride	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Trichloroethene	1.2	310	6.7	1600
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

Client Sample ID: 0611012606 Duplicate

Lab ID#: 0601542-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013013	Date of Collection:	1/26/06
Dil. Factor:	2.48	Date of Analysis:	1/31/06 12:45 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Chloroethane	1.2	Not Detected	3.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
Methylene Chloride	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Trichloroethene	1.2	300	6.7	1600
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

Client Sample ID: 0612S012606

Lab ID#: 0601542-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013014	Date of Collection:	1/26/06
Dil. Factor:	1.64	Date of Analysis:	1/31/06 01:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	1.1	2.8	3.8
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

Client Sample ID: 0612AD012606

Lab ID#: 0601542-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013015	Date of Collection:	1/26/06
Dil. Factor:	1.55	Date of Analysis:	1/31/06 02:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Chloroethane	0.78	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.78	1.3	3.1	5.2
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	0.78	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.78	1.8	3.1	7.1
cis-1,2-Dichloroethene	0.78	4.4	3.1	18
1,1,1-Trichloroethane	0.78	110	4.2	600
Trichloroethene	0.78	91	4.2	490
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

Client Sample ID: 0612AD012606 Duplicate

Lab ID#: 0601542-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013016	Date of Collection:	1/26/06
Dil. Factor:	1.55	Date of Analysis:	1/31/06 02:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Chloroethane	0.78	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.78	1.3	3.1	5.1
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	0.78	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.78	1.7	3.1	6.8
cis-1,2-Dichloroethene	0.78	4.5	3.1	18
1,1,1-Trichloroethane	0.78	110	4.2	590
Trichloroethene	0.78	94	4.2	500
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

Client Sample ID: 0627I012606

Lab ID#: 0601542-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013017	Date of Collection:	1/26/06
Dil. Factor:	1.64	Date of Analysis:	1/31/06 03:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	14	3.2	57
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Trichloroethene	0.82	2.3	4.4	12
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

Client Sample ID: 0627D012606

Lab ID#: 0601542-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013018	Date of Collection:	1/26/06
Dil. Factor:	1.55	Date of Analysis:	1/31/06 04:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.78	10	2.0	26
Chloroethane	0.78	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	0.78	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	200	3.1	780
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Trichloroethene	0.78	14	4.2	76
Tetrachloroethene	0.78	3.7	5.2	25
trans-1,2-Dichloroethene	0.78	2.7	3.1	11

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

Client Sample ID: 062012406

Lab ID#: 0601542-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013019	Date of Collection:	1/24/06
Dil. Factor:	1.71	Date of Analysis:	1/31/06 04:54 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	2.5	3.0	8.6
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
1,1,1-Trichloroethane	0.86	1.1	4.7	6.2
Trichloroethene	0.86	12	4.6	67
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

Client Sample ID: EB9487012606

Lab ID#: 0601542-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013020	Date of Collection:	1/26/06
Dil. Factor:	1.61	Date of Analysis:	1/31/06 05:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

Client Sample ID: 0614012506

Lab ID#: 0601542-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013021	Date of Collection:	1/25/06
Dil. Factor:	1.61	Date of Analysis:	1/31/06 06:26 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.80	0.96	4.4	5.2
Trichloroethene	0.80	0.89	4.3	4.8
Tetrachloroethene	0.80	1.8	5.5	12
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0601542-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013005	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 1/30/06 05:07 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0601542-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013002	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 1/30/06 03:03 PM	

Compound	%Recovery
Vinyl Chloride	87
Chloroethane	93
1,1-Dichloroethene	104
Freon 113	113
Methylene Chloride	94
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	106
1,1,1-Trichloroethane	127
Trichloroethene	110
Tetrachloroethene	111
trans-1,2-Dichloroethene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0601542-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013003	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 1/30/06 03:41 PM	

Compound	%Recovery
Vinyl Chloride	72
Chloroethane	77
1,1-Dichloroethene	89
Freon 113	95
Methylene Chloride	85
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	122
1,1,1-Trichloroethane	102
Trichloroethene	93
Tetrachloroethene	98
trans-1,2-Dichloroethene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0601542-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	i013004	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 1/30/06 04:20 PM	

Compound	%Recovery
Vinyl Chloride	72
Chloroethane	78
1,1-Dichloroethene	90
Freon 113	99
Methylene Chloride	87
1,1-Dichloroethane	91
cis-1,2-Dichloroethene	123
1,1,1-Trichloroethane	104
Trichloroethene	93
Tetrachloroethene	97
trans-1,2-Dichloroethene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

APPENDIX C.5.2

LABORATORY ANALYSIS PETROLEUM – CONTAINING SOIL SAMPLES 06-27D

RECEIVED MAR 3 2006

Katahdin
ANALYTICAL SERVICES

nelac
Cert. No. E87604

February 28, 2006

Mr. Dan Carr
Sanborn, Head & Associates, Inc.
95 High St.
Portland,ME 04101

RE: Katahdin Lab Number: WW0688
Project ID: Endicott, NY
Project Manager: Mrs. Andrea Colby
Sample Receipt Date(s): February 10, 2006

Dear Mr. Carr:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Chromatograms
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Jennifer Obrin
Authorized Signature

02.28.06
Date

340 County Road, No. 5 • P.O. Box 720, Westbrook, ME 04098 • Tel: (207) 874-2400 • Fax: (207) 775-4029 • www.katahdinlab.com

TECHNICAL NARRATIVE

Organics Laboratory

The sample chromatogram of sample WW0688-1 was compared to the standard chromatograms from an initial calibration, as requested by the client. The initial calibration consists of the following petroleum products: Gasoline, JP-A, JP-4, JP-5, JP-8, Kerosene, Mineral Spirits, Fuel Oil #2, Fuel Oil #4, Fuel Oil #6, Coal Tar, and Motor Oil. The chromatography of the sample does not match or resemble the chromatography of any of the petroleum product standards analyzed during the initial calibration. The sample chromatogram does elute within the retention time window of Fuel Oil #2 and Fuel Oil #4.

Many of the petroleum products listed above contain many of the same hydrocarbons. The sample contains some of the same hydrocarbons that are present in both Fuel Oil #2 and Fuel Oil #4. However, all of the highly responsive single chain aliphatic hydrocarbons that are present in both Fuel Oil #2 and Fuel Oil #4 are not present in the sample. The presence of the non-aliphatic hydrocarbons and the overall sample pattern indicate the presence of a petroleum product. However, the overall pattern does not match any of the listed petroleum products.

DATA QUALIFIERS

U	Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
*	Compound recovery outside of quality control limits.
D	Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.
E	Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
J	Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
B	Organics- Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. Metals- Indicates the analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.
N	Presumptive evidence of a compound based on a mass spectral library search.
A	Indicates that a tentatively identified compound is a suspected aldol-condensation product.
P	Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns.
MCL	Maximum Contaminant Level
NL	No limit
NFL	No Free Liquid Present
FLP	Free Liquid Present

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Sanborn, Head & Ass
Project: Endicott, NY
PO No:
Sample Date: 01/25/06
Received Date: 02/10/06
Extraction Date: 02/22/06
Analysis Date: 25-FEB-2006 13:48
Report Date: 02/27/2006
Matrix: SOIL
% Solids: 100

Lab ID: WW0688-1DL
Client ID: 06-27D 22.9-23.5
SDG: WW0688
Extracted by: TR
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015B
Lab Prep Batch: WG25737
Units: mg/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
TPH		3800	100	5.0	250
O-Terphenyl		D			

Page 01 of 01 CWB2129.d

Data File: \\Target_server\GG\chem\gc12.i\GC12WB23B1.b\CWB2129.d
Report Date: 27-Feb-2006 08:50

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc12.i\GC12WB23B1.b\CWB2129.d
Lab Smp Id: WW0688-1DL Client Smp ID: 06-27D 22.9-23.5
Inj Date : 25-FEB-2006 13:48
Operator : SAW Inst ID: gc12.i
Smp Info : TPHB002A.M,GC12WB23B1.B,100,WW0688-1DL
Misc Info : SW846 M8015B
Comment :
Method : \\TARGET_SERVER\GG\chem\gc12.i\GC12WB23B1.B\TPHB002A.m
Meth Date : 27-Feb-2006 08:49 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2005 16:06 Cal File: CVL2019.d
Als bottle: 1
Dil Factor: 100.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Subtraction File: \\Target_server\GG\chem\gc12.i\GC12WB23B1.b\CWB2120.d
Target Version: 4.12
Processing Host: TARGET01

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.03000	Sample Weight (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kg)
S 10 TPH	3.368	-45.132		5104704	1127.34	3760(M)

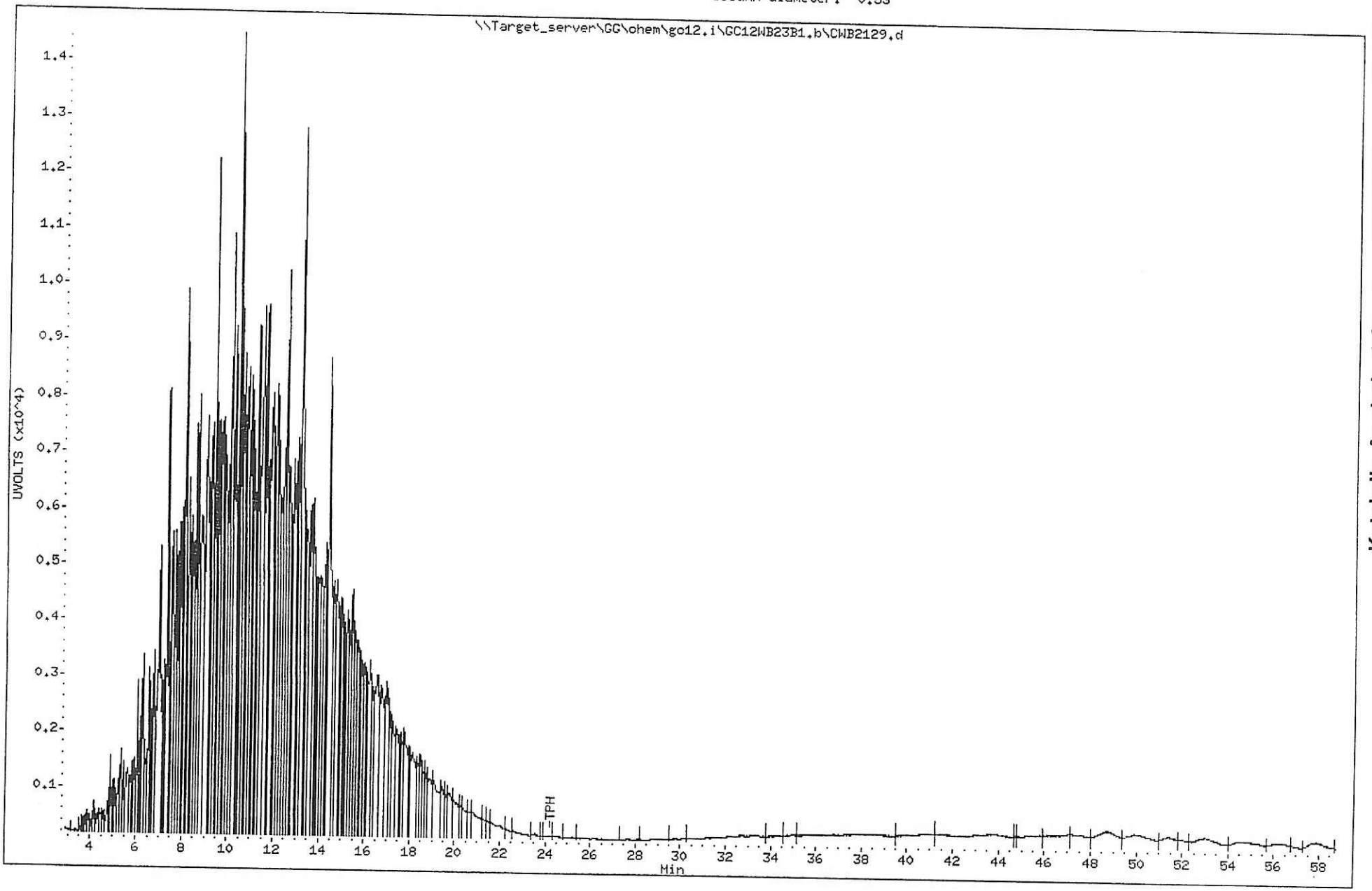
QC Flag Legend

M - Compound response manually integrated.

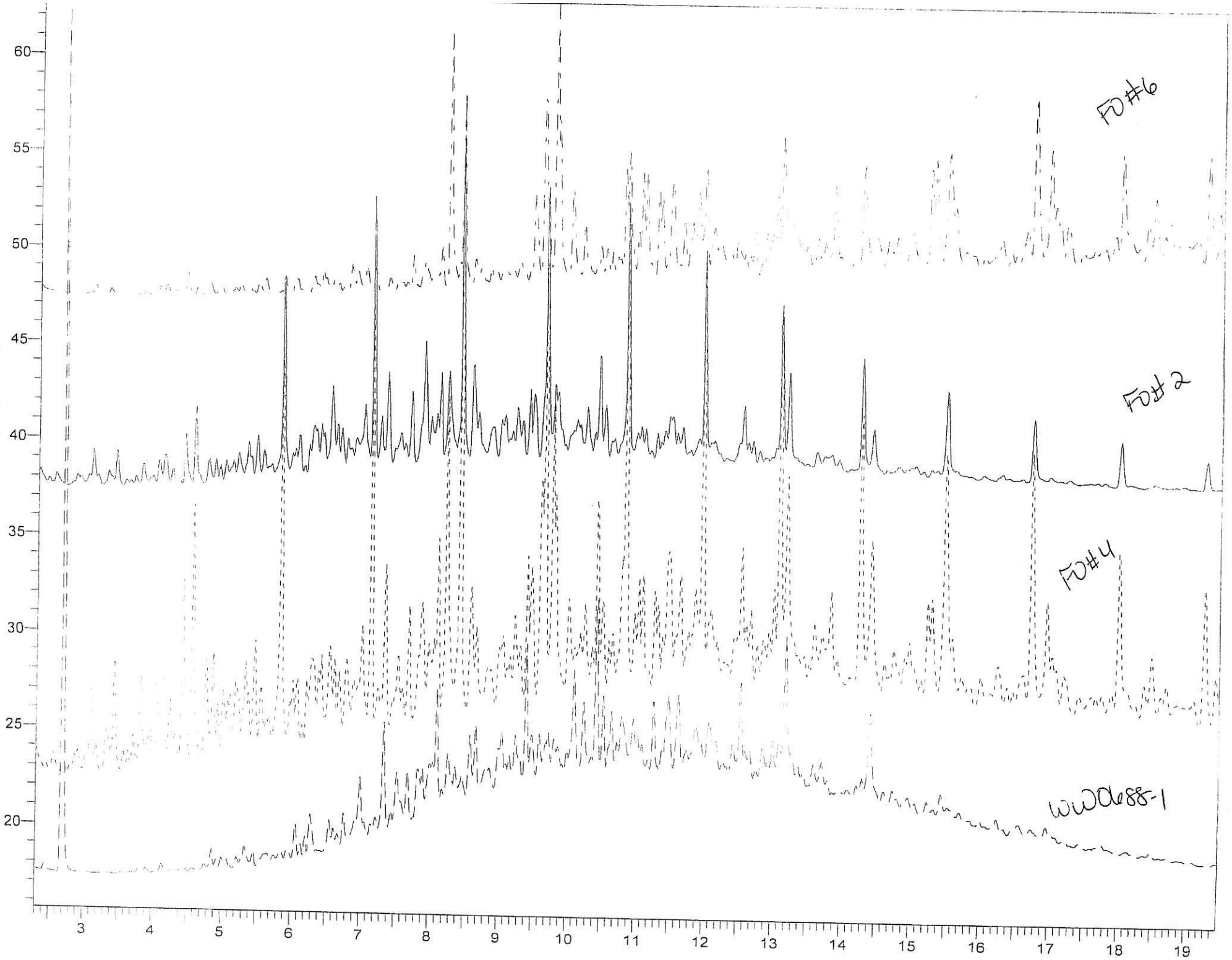
Data File: \\Target_server\GG\ohem\gc12.i\GC12WB23B1.b\CWB2129.d
Date : 25-FEB-2006 13:48
Client ID: 06-27D 22.9-23.5
Sample Info: TPHB002A.M,GC12WB23B1.B,100,WW0688-1DL
Purge Volume: 0.0
Column phase: ZB-1

Instrument: gc12.i

Operator: SAW
Column diameter: 0.53



Plot Title	Start Time	End Time	Scale (mV)	Offset (mV)
CWB2112.RAW	2.29	19.49	99.30	-982.43
Sample Name : TPHB002A.M,GC12WB23B1.B,1,JP-8				
Sample Number :				
Instrument File Name : T:\GC12\METHOD\DRO				
CWB2113.RAW	2.29	19.49	47.28	0.63
Sample Name : TPHB002A.M,GC12WB23B1.B,1,FO #2				
Sample Number :				
Instrument File Name : T:\GC12\METHOD\DRO				
CWB2114.RAW	2.29	19.49	47.28	15.63
Sample Name : TPHB002A.M,GC12WB23B1.B,1,FO #4				
Sample Number :				
Instrument File Name : T:\GC12\METHOD\DRO				
CWB2115.RAW	2.29	19.49	47.28	-9.37
Sample Name : TPHB002A.M,GC12WB23B1.B,1,FO #6				
Sample Number :				
Instrument File Name : T:\GC12\METHOD\DRO				
CWB2129.RAW	2.29	19.49	47.28	20.63
Sample Name : TPHB002A.M,GC12WB23B1.B,100,WW0688-1DL				
Sample Number :				
Instrument File Name : T:\GC12\METHOD\DRO				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14
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17
18
19
FO#6
FO#2
FO#4
WW0688-1

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG25737-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: ENDICOTT, NY SDG No.: WW0688

Lab File ID: CWB2094 Lab Sample ID: WG25737-1

Instrument ID: GC12 Date Extracted: 02/22/06

Matrix: (soil/water) SOIL Date Analyzed: 02/23/06

Level:(low/med) LOW Time Analyzed: 2300

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG25737-LCS	WG25737-2	CWB2095	02/24/06	0007
02	WG25737-LCSD	WG25737-3	CWB2096	02/24/06	0113
03	06-27D 22.9-23.5	WW0688-1DL	CWB2129	02/25/06	1348
04					
05					
06					
07					
08					
09					
10					
11					
12					
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22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV SV

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Endicott, NY
PO No:
Sample Date:
Received Date:
Extraction Date: 02/22/06
Analysis Date: 23-FEB-2006 23:00
Report Date: 02/27/2006
Matrix: SOIL
% Solids: 100

Lab ID: WG25737-1
Client ID: WG25737-Blank
SDG: WW0688
Extracted by: TR
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015B
Lab Prep Batch: WG25737
Units: mg/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
TPH	U	5.0	1.0	5.0	5.0
O-Terphenyl		80%			

Page 01 of 01 CWB2094.d

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Endicott, NY
PO No:
Sample Date:
Received Date:
Extraction Date: 02/22/06
Analysis Date: 02/24/06
Report Date: 02/27/2006
Matrix: SOIL

Lab ID: WG25737-2 & WG25737-3
Client ID: WG25737-LCS & WG25737-LCSD
SDG: WW0688
Extracted by: TR
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015B
Lab Prep Batch: WG25737
Units: mg/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
TPH	17	17	NA	16	11	95	68	33	50	40- 99

FORM III SV-2

CWB2095.d & CWB2096.d

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WW0688

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: Sanborn Head

COC#
SDG#
DATE / TIME RECEIVED: 2/10/06 1515
DELIVERED BY: FAS
RECEIVED BY: N Adams
LIMS ENTRY BY: SM
LIMS REVIEW BY / PM: AJC

PROJECT:

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☒	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☒	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☒	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☒	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☒	☐	☐	TEMP BLANK TEMP (°C)= 6.9	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☒	☐	☐	COOLER TEMP (°C)= 5.8 NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☒		
8. TRIP BLANK PRESENT IN THIS COOLER	☒	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☐	☒	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☐	☒	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☒	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☒	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

[1] Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

Client: Sanborn Head & Associates Inc
Contact: D. Carr
Phone #: (207) 761-9300
Fax #: (207) 761-9339

Address: 95 High Street
City: Portland
State: ME
Zip Code: 04101

Purchase Order #:
Proj. Name / No.: Endicott NY
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Daniel B. Carr / Daniel BC
Copies To:

LAB USE ONLY
WORK ORDER #: WW0688
KATAHDIN PROJECT NUMBER ____

REMARKS: ____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO: ____
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	TPH by SW846 8015 (Filt. ☐Y ☒N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	06-27D 22.9 to 23.5'	1/23/06 / 1700hrs	Soil	3	X									
		/												
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COMMENTS: Screening for approx petroleum concentration and fingerprint. Please provide chromatographs.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Daniel BC	2/10/06 2:53pm	Nick Adams			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Feb. 10, 2006
04:16 PM

Login Number: WW0688

Account: SANBOR001 NoWeb
Sanborn, Head & Associates, Inc.

Project:

Primary Report Address:
Dan Carr
Sanborn, Head & Associates, Inc.
95 High St.

Portland,ME 04101

Primary Invoice Address:
Accounts Payable
Sanborn, Head & Associates, Inc.
95 High St.

Portland,ME 04101

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Limited sample due to large rocks.
CHECK NO.	:	
CLIENT PO#	:	
COOLER TEMPERATURE	:	5.8
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	
MAIL DATE	:	
PM	:	AJC
PROJECT NAME	:	Endicott, NY
QC LEVEL	:	II
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Include fingerprint narrative and sample chromatogram. Report on wet wt basis.
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WW0688-1	06-27D 22.9-23.5	25-JAN-06 00:00	10-FEB-06			23-FEB-06	Extract sample out of HT. Rpt on ~~wet wt basis. Need fi~~ngerprint narrative.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Solid	S	SW8015M-TPH	08-FEB-06	100g Glass	3

Total Samples: *1* ***Total Analyses:*** *1*

ADDENDUM
ORIGINAL CHAIN OF CUSTODY

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

Client: Sanborn Head & Associates Inc
Contact: D. Carr
Phone #: (207) 761-9300
Fax #: (207) 761-9339

Address: 95 High Street
City: Portland
State: ME
Zip Code: 04101

Purchase Order #:
Proj. Name / No.: Endicott NY
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Daniel B. Carr / Daniel BC
Copies To:

LAB USE ONLY
WORK ORDER #: WW0688
KATAHDIN PROJECT NUMBER ____

REMARKS: ____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO: ____
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	TPH by SW8416 8015 (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
06-27D 22.9-40235'	1/23/06 / 1000hrs	Soil	3	X									
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												

COMMENTS: Screening for approx petroleum concentration and fingerprint. Please provide chromatographs.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Daniel BC	2/10/06 2:53pm	Nick Adams			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

APPENDIX C.6

SOILS LABORATORY REPORTS

GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-1	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2B	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	38890		
Test Comment:	---				
Sample Description:	Moist, dark brown sand with silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-1	S-2B	---	Moist, dark brown sand with silt	8

Notes: Temperature of Drying : 110° Celsius

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GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-6	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	38891		
Test Comment:	---				
Sample Description:	Moist, dark brown gravel with silt and sand				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-6	S-2	---	Moist, dark brown gravel with silt and sand	3

Notes: Temperature of Drying : 110° Celsius

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Geotesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-7	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2A	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	38892		
Test Comment:	---				
Sample Description:	Moist, dark brown silty sand with gravel				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-7	S-2A	---	Moist, dark brown silty sand with gravel	11

Notes: Temperature of Drying : 110° Celsius

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GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-11A	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	38893		
Test Comment:	---				
Sample Description:	Moist, dark brown sand				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-11A	S-2	---	Moist, dark brown sand	12

Notes: Temperature of Drying : 110° Celsius

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GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-17	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2B	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	38894		
Test Comment:	---				
Sample Description:	Moist, light olive brown silty gravel with sand				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-17	S-2B	---	Moist, light olive brown silty gravel with sand	7

Notes: Temperature of Drying : 110° Celsius

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GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-24	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2B	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	38895		
Test Comment:	---				
Sample Description:	Moist, dark brown silty sand				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-24	S-2B	---	Moist, dark brown silty sand	25

Notes: Temperature of Drying : 110° Celsius

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Geotesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	---	Sample Type:	---	Tested By:	pcs
Sample ID:	---	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	---		

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-27D	S-2A	---	Moist, dark brown sand with silt	12
06-27D	S-2B	---	Moist, dark brown silty sand	21
06-27D	S-3A	---	Moist, dark brown sand with silt	7
06-27D	S-3B	---	Moist, dark brown silt with sand	25
06-27D	S-5	---	Moist, dark brown silty sand	4
06-27D	S-6A	---	Moist, dark brown silty sand	6
06-27D	S-6C	---	Moist, light olive brown silty sand with gravel	9

Notes: Temperature of Drying : 110° Celsius

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Geotesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	---	Sample Type:	---	Tested By:	pcs
Sample ID:	---	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	---		

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-35	S-2	---	Moist, dark brown gravel with silt and sand	12
06-35	S-3	---	Moist, dark brown gravel with silt and sand	11
06-35	S-4	---	Moist, dark brown silty gravel with sand	16
06-35	S-5	---	Moist, dark brown silty sand with gravel	14
06-35	S-6	---	Moist, dark brown silty sand	12
06-35	S-7	---	Moist, dark yellowish brown gravel with silt and sand	11
06-35	S-8	---	Moist, dark brown gravel with sand	10
06-35	S-9	---	Moist, dark brown silty gravel with sand	11
06-35	S-10	---	Moist, dark brown silty gravel with sand	11

Notes: Temperature of Drying : 110° Celsius

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GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID: ---		Sample Type: ---		Tested By:	pcs
Sample ID:---		Test Date:	03/07/06	Checked By:	n/a
Depth : ---		Sample Id:	---		

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-35	S-11	---	Moist, dark brown silty sand	12
06-35	S-12	---	Moist, dark brown silty sand	10
06-35	S-13	---	Moist, dark brown silty sand	10
06-35	S-14	---	Moist, dark brown silty sand with gravel	11
06-35	S-15	---	Moist, dark brown silty gravel with sand	7
06-35	S-16	---	Moist, dark brown silty sand	8

Notes: Temperature of Drying : 110° Celsius

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GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	---	Sample Type:	---	Tested By:	pcs
Sample ID:	---	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	---		

Moisture Content of Soil - ASTM D 2216

Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-36	S-2	---	Moist, dark brown silty sand	13
06-36	S-3	---	Moist, dark brown sand with silt	6
06-36	S-3A	---	Moist, dark brown silt with sand	21
06-36	S-4	---	Moist, dark brown silty sand	9
06-36	S-5	---	Moist, dark brown gravel with silt and sand	5
06-36	S-5A	---	Moist, dark brown gravel with silt and sand	6
06-36	S-6	---	Moist, dark brown gravel with sand	5
06-36	S-6A	---	Moist, dark brown silty sand with gravel	4
06-36	S-7	---	Moist, dark brown gravel with silt and sand	5

Notes: Temperature of Drying : 110° Celsius

GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	---	Sample Type:	---	Tested By:	pcs
Sample ID:	---	Test Date:	03/07/06	Checked By:	n/a
Depth :	---	Sample Id:	---		

Moisture Content of Soil - ASTM D 2216

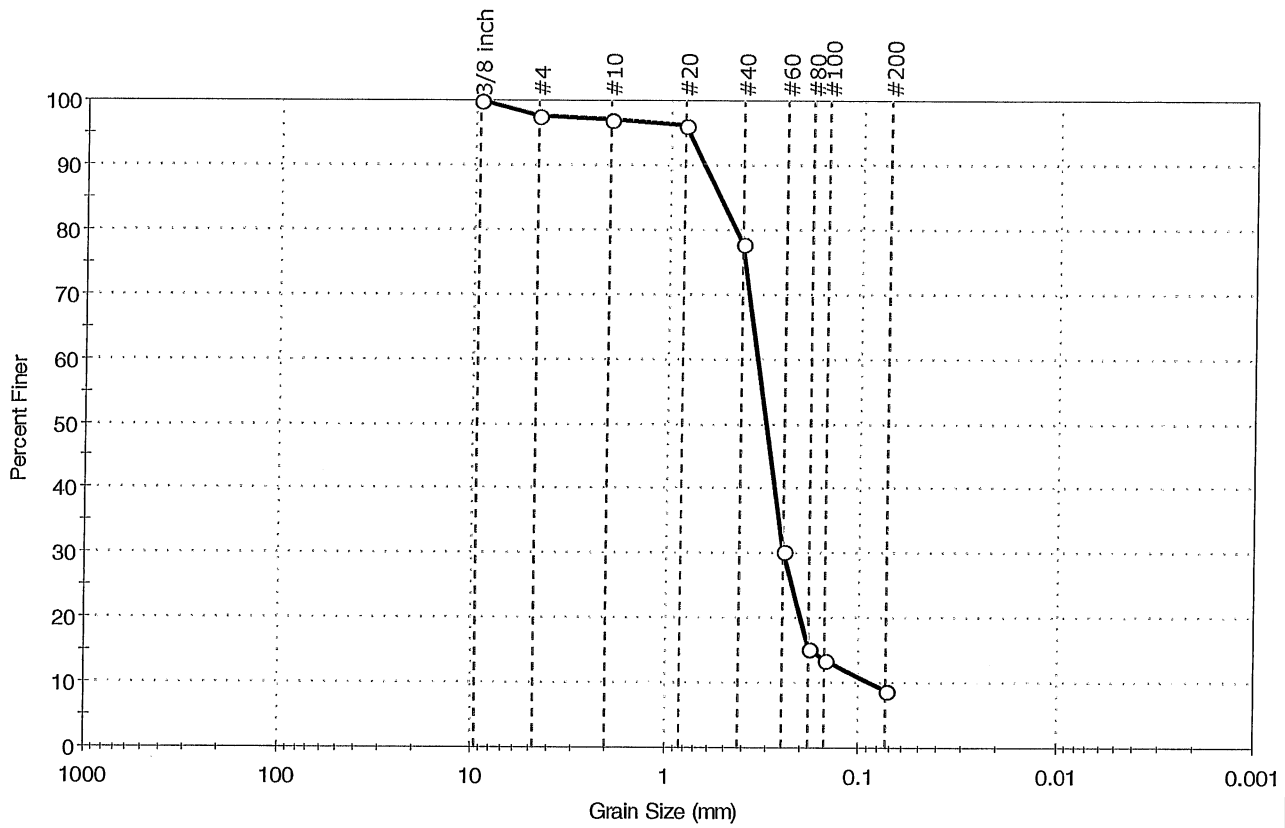
Boring ID	Sample ID	Depth	Description	Moisture Content,%
06-36	S-8	---	Moist, dark brown silty sand	12
06-36	S-8A	---	Moist, dark brown silty sand	7
06-36	S-9	---	Moist, dark brown silty sand	7
06-36	S-10	---	Moist, dark brown sand with silt	6
06-36	S-11	---	Moist, dark brown silty sand	6
06-36	S-12	---	Moist, dark brown silty sand with gravel	7

Notes: Temperature of Drying : 110° Celsius

GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-1	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2B	Test Date:	03/06/06	Checked By:	jdt
Depth :	---	Test Id:	86476		
Test Comment:	Less than 10% fines, Hydrometer not required				
Sample Description:	Moist, dark brown sand with silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	2.5	88.6	8.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.50	100		
#4	4.75	97		
#10	2.00	97		
#20	0.84	96		
#40	0.42	78		
#60	0.25	30		
#80	0.18	15		
#100	0.15	14		
#200	0.074	9		

Coefficients

D_{85} = 0.5488 mm D_{30} = 0.2475 mm
D_{60} = 0.3451 mm D_{15} = 0.1741 mm
D_{50} = 0.3094 mm D_{10} = 0.0871 mm
C_u = 3.962 C_c = 2.038

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED
Sand/Gravel Hardness : HARD
Dispersion Device :
Dispersion Period : 1 minute
Specific Gravity : 2.65

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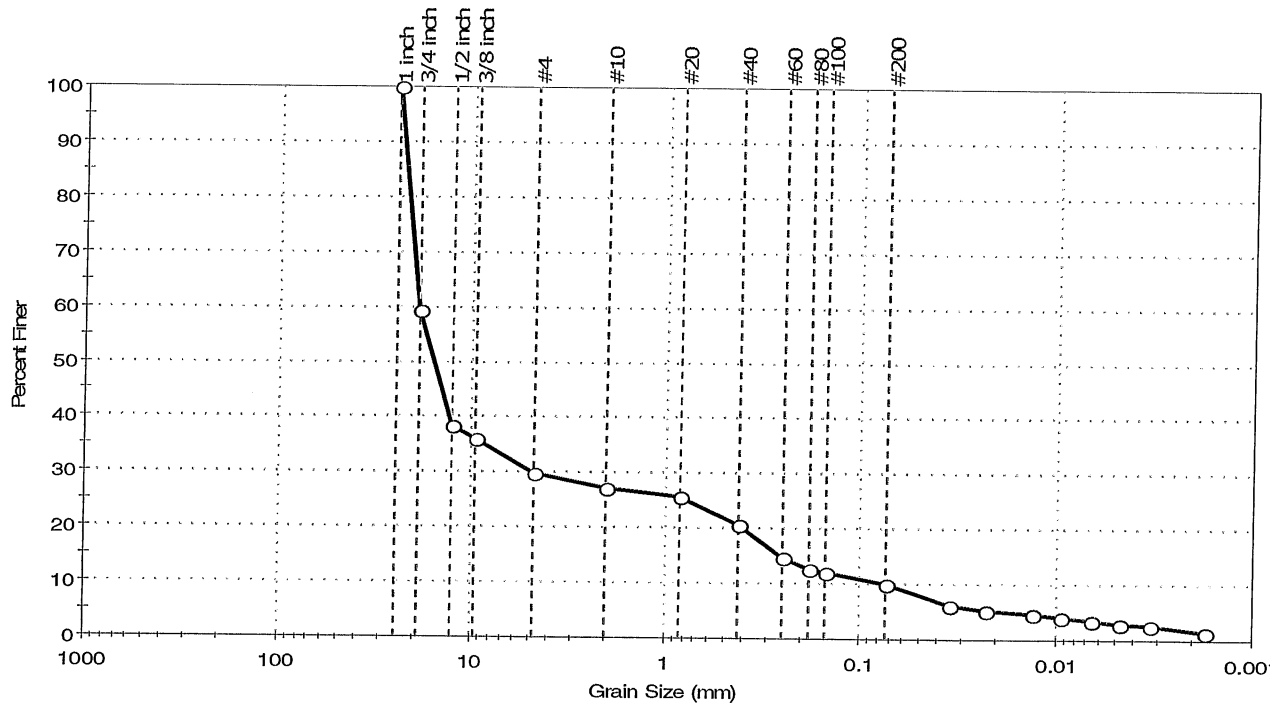
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-6	Sample Type: bag	Tested By:	pcs
Sample ID:S-2	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86477		
Test Comment:	---		
Sample Description:	Moist, dark brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	70.2	19.6	10.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 inch	25.00	100		
3/4 inch	19.00	59		
1/2 inch	12.70	38		
3/8 inch	9.51	36		
#4	4.75	30		
#10	2.00	27		
#20	0.84	26		
#40	0.42	21		
#60	0.25	15		
#80	0.18	13		
#100	0.15	12		
#200	0.074	10		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0349	6		
---	0.0230	5		
---	0.0132	5		
---	0.0093	4		
---	0.0066	4		
---	0.0047	3		
---	0.0033	3		
---	0.0017	1		

Coefficients

D_{85} = 22.5907 mm D_{30} = 4.8957 mm
D_{60} = 19.0800 mm D_{15} = 0.2525 mm
D_{50} = 15.8847 mm D_{10} = 0.0716 mm
C_u = 266.480 C_c = 17.544

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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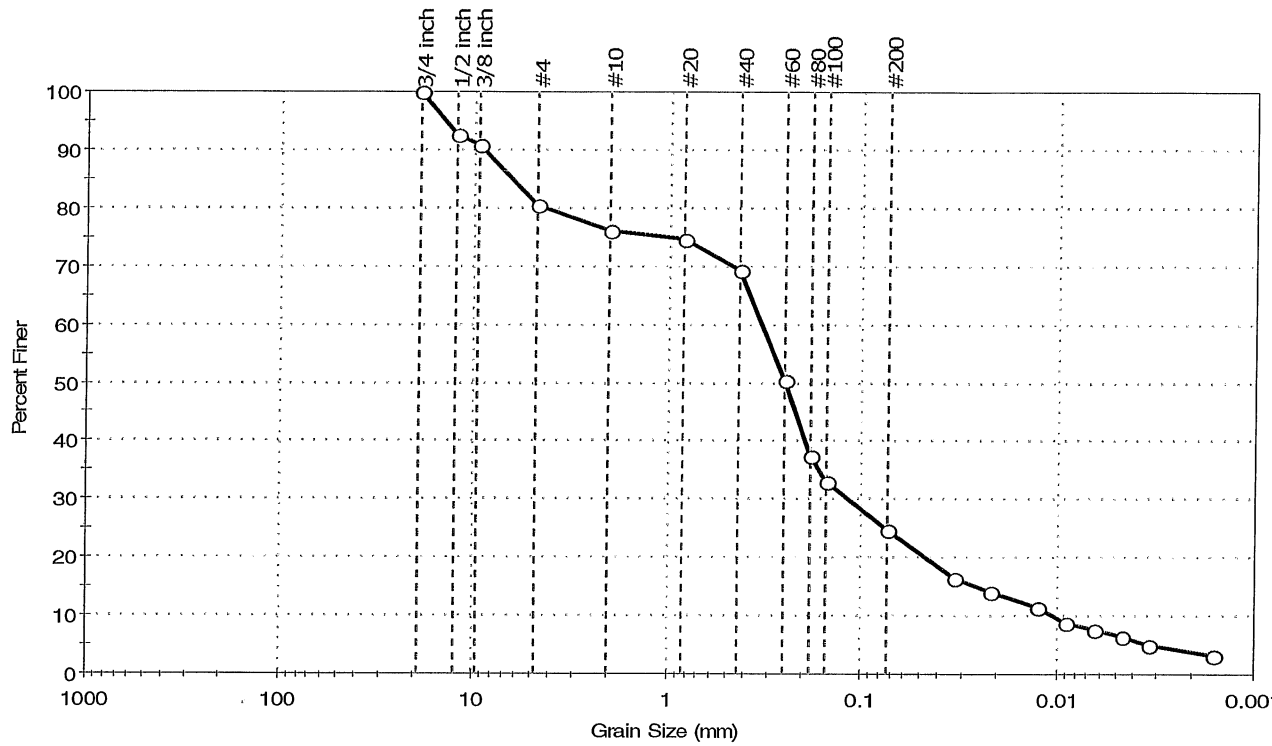
Geotesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-7	Sample Type: bag	Tested By:	pcs
Sample ID:S-2A	Test Date: 03/06/06	Checked By:	jdt
Depth : ---	Test Id: 86478		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	19.6	55.6	24.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 inch	19.00	100		
1/2 inch	12.50	93		
3/8 inch	9.50	91		
#4	4.75	80		
#10	2.00	76		
#20	0.84	75		
#40	0.42	69		
#60	0.25	50		
#80	0.18	38		
#100	0.15	33		
#200	0.074	25		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0332	17		
---	0.0217	14		
---	0.0127	11		
---	0.0090	9		
---	0.0064	8		
---	0.0046	6		
---	0.0033	5		
---	0.0016	3		

Coefficients

D_{85} = 6.4333 mm D_{30} = 0.1159 mm
D_{60} = 0.3270 mm D_{15} = 0.0255 mm
D_{50} = 0.2474 mm D_{10} = 0.0104 mm
C_u = 31.442 C_c = 3.950

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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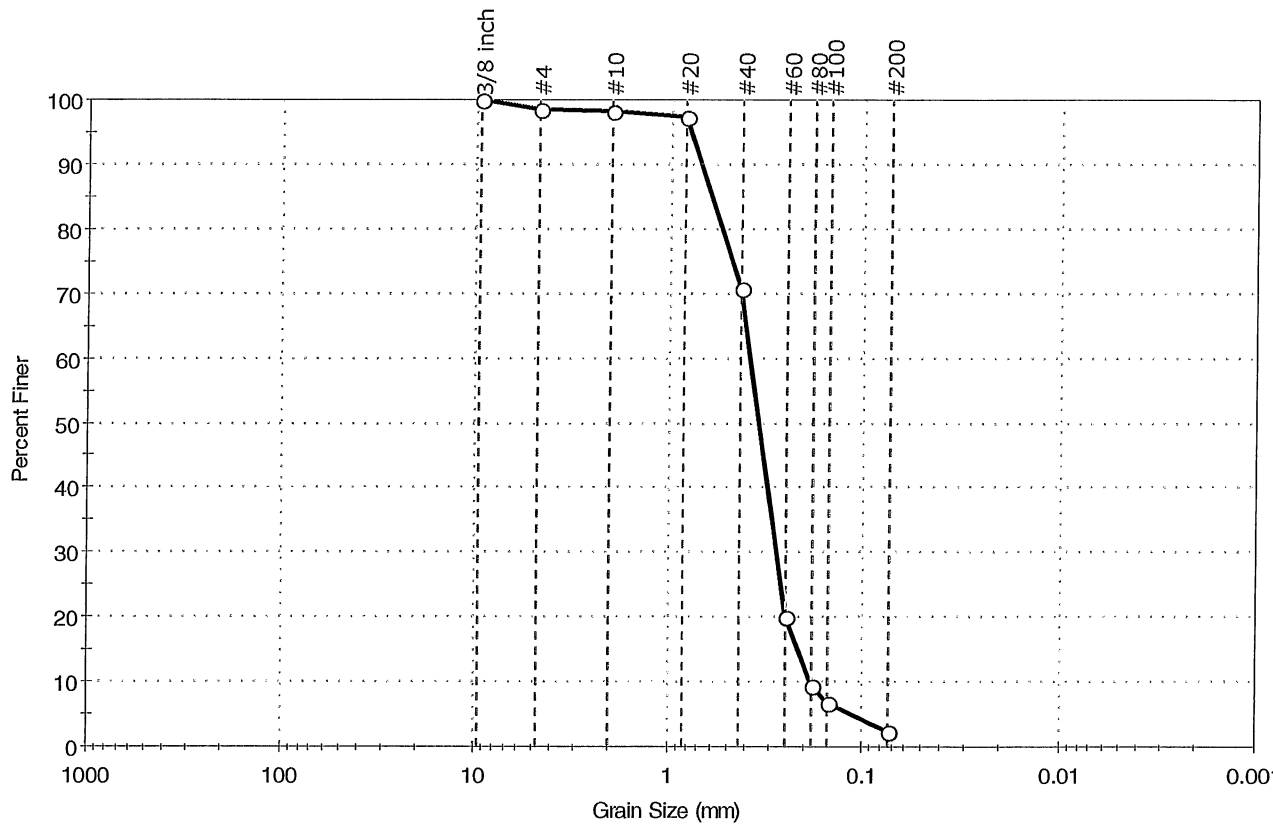
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-11A	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2	Test Date:	03/06/06	Checked By:	jdt
Depth :	---	Test Id:	86479		
Test Comment:	---				
Sample Description:	Moist, dark brown sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	1.6	95.9	2.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 Inch	9.50	100		
#4	4.75	98		
#10	2.00	98		
#20	0.84	97		
#40	0.42	71		
#60	0.25	20		
#80	0.18	9		
#100	0.15	7		
#200	0.074	2		

Coefficients

D_{85} = 0.6123 mm	D_{30} = 0.2774 mm
D_{60} = 0.3798 mm	D_{15} = 0.2137 mm
D_{50} = 0.3420 mm	D_{10} = 0.1831 mm
C_u = 2.074	C_c = 1.107

Classification

ASTM Poorly graded sand (SP)

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

Dispersion Device :

Dispersion Period : 1 minute

Specific Gravity : 2.65

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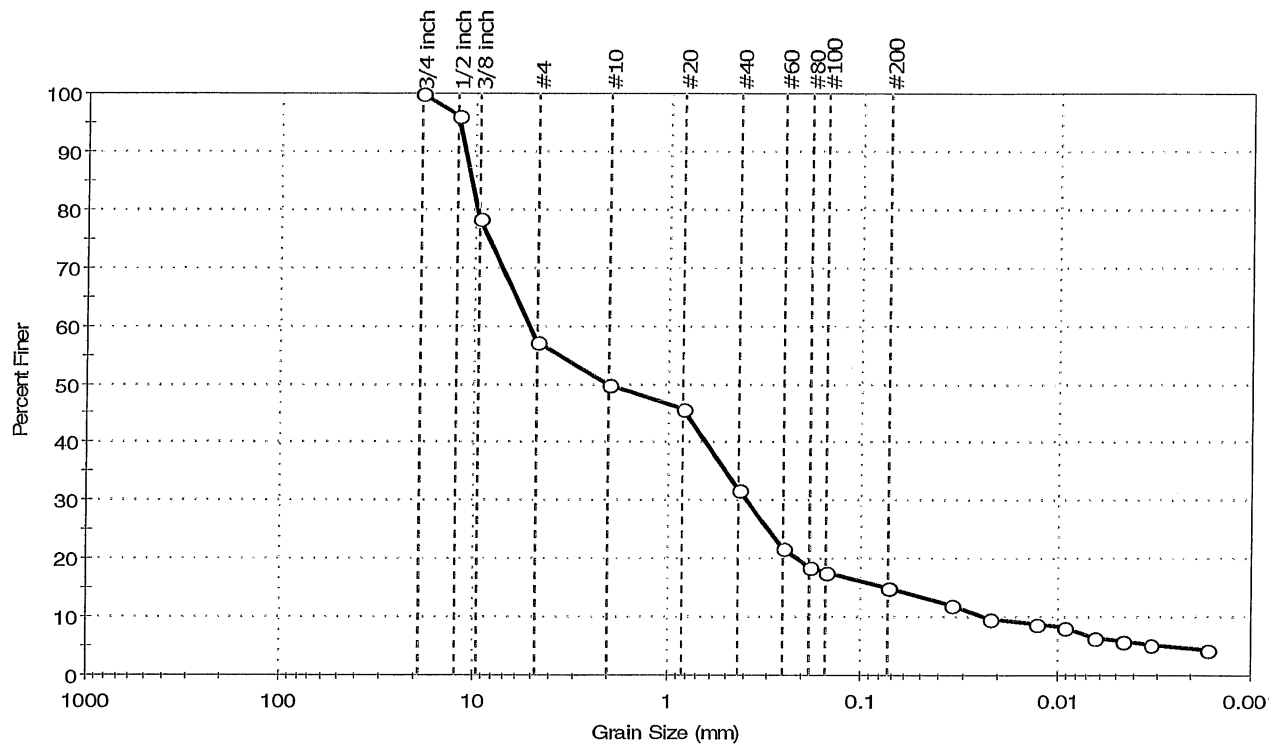
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-17	Sample Type: bag	Tested By:	pcs
Sample ID:S-2B	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86480		
Test Comment:	---		
Sample Description:	Moist, light olive brown silty gravel with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	42.7	42.4	14.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 inch	19.00	100		
1/2 inch	12.50	96		
3/8 inch	9.50	79		
#4	4.75	57		
#10	2.00	50		
#20	0.84	46		
#40	0.42	32		
#60	0.25	22		
#80	0.18	19		
#100	0.15	18		
#200	0.074	15		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0348	12		
---	0.0223	10		
---	0.0129	9		
---	0.0091	8		
---	0.0065	6		
---	0.0046	6		
---	0.0033	5		
---	0.0017	4		

Coefficients

D_{85} = 10.4945 mm D_{30} = 0.3828 mm
D_{60} = 5.1829 mm D_{15} = 0.0759 mm
D_{50} = 2.0566 mm D_{10} = 0.0238 mm
C_u = 217.769 C_c = 1.188

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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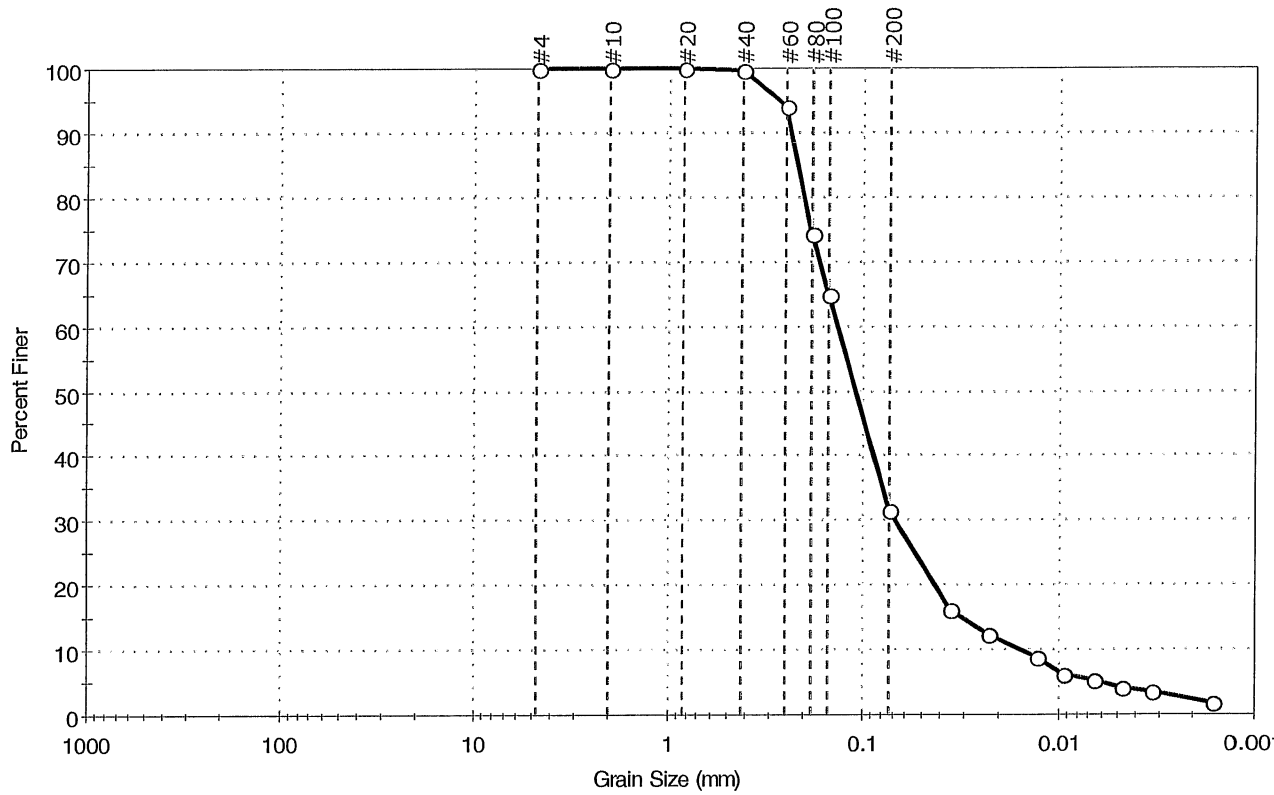
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-24	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-2B	Test Date:	03/07/06	Checked By:	jdt
Depth :	---	Test Id:	86481		
Test Comment:	---				
Sample Description:	Moist, dark brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	--	68.4	31.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	94		
#80	0.18	74		
#100	0.15	65		
#200	0.074	32		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0360	16		
---	0.0228	13		
---	0.0128	9		
---	0.0094	6		
---	0.0066	5		
---	0.0047	4		
---	0.0033	4		
---	0.0016	2		

Coefficients

D_{85} = 0.2148 mm D_{30} = 0.0686 mm
D_{60} = 0.1349 mm D_{15} = 0.0313 mm
D_{50} = 0.1092 mm D_{10} = 0.0152 mm
C_u = 8.875 C_c = 2.295

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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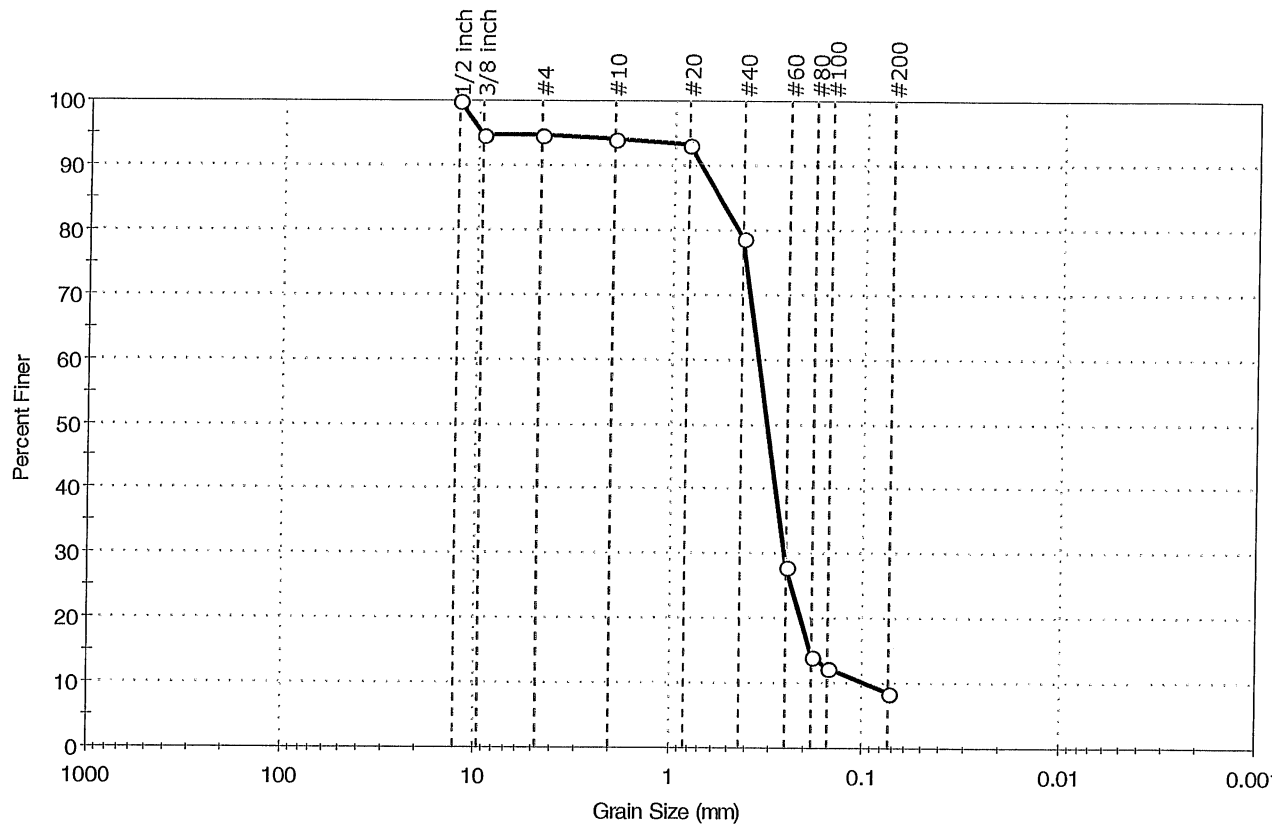
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-27D	Sample Type: bag	Tested By:	pcs
Sample ID:S-2A	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86482		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	5.3	86.0	8.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 inch	12.70	100		
3/8 inch	9.51	95		
#4	4.75	95		
#10	2.00	94		
#20	0.84	93		
#40	0.42	79		
#60	0.25	28		
#80	0.18	14		
#100	0.15	12		
#200	0.074	9		

Coefficients

D_{85} = 0.5735 mm D_{30} = 0.2553 mm
D_{60} = 0.3496 mm D_{15} = 0.1832 mm
D_{50} = 0.3148 mm D_{10} = 0.0953 mm
C_u = 3.668 C_c = 1.956

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD
Dispersion Device :
Dispersion Period : 1 minute
Specific Gravity : 2.65

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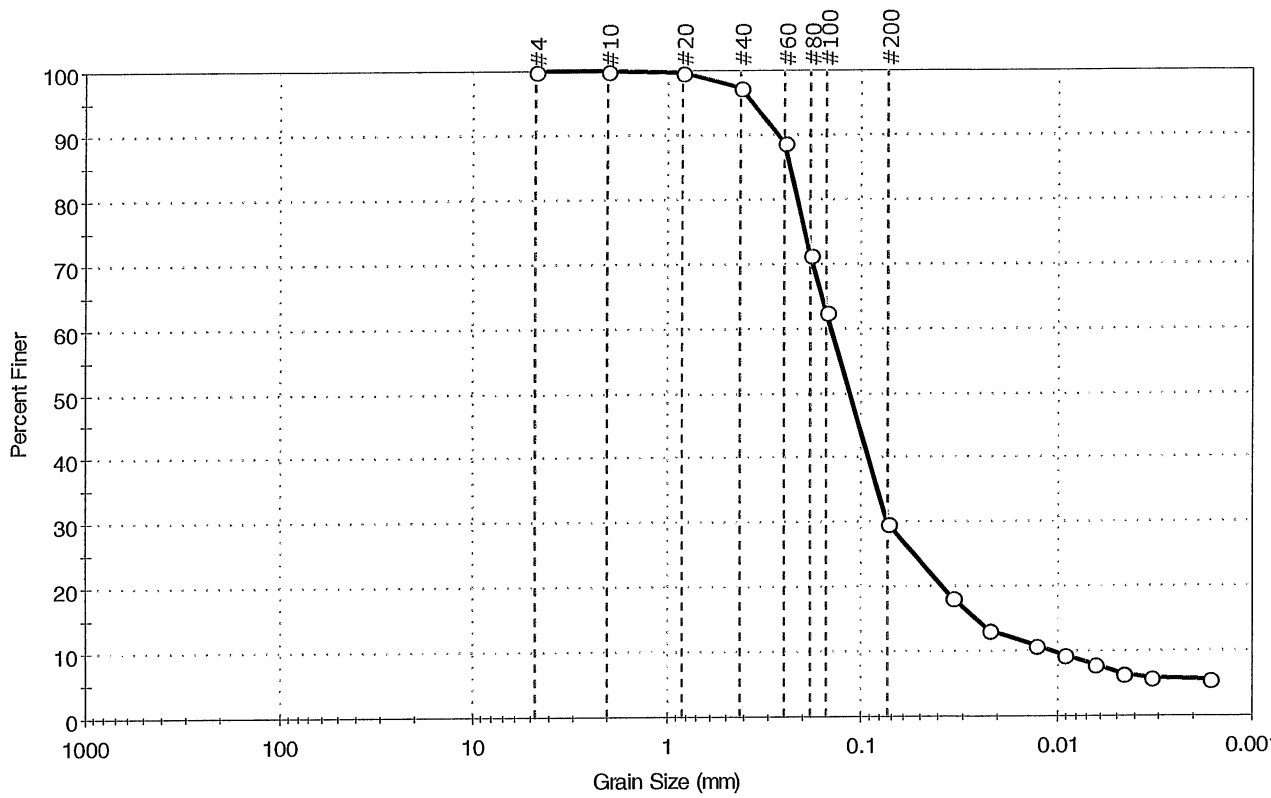
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-27D	Sample Type: bag	Tested By:	pcs
Sample ID:S-2B	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86483		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	---	70.2	29.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	97		
#60	0.25	89		
#80	0.18	71		
#100	0.15	62		
#200	0.074	30		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0342	18		
---	0.0221	13		
---	0.0129	11		
---	0.0091	9		
---	0.0065	8		
---	0.0046	7		
---	0.0033	6		
---	0.0017	5		

Coefficients

D_{85} = 0.2325 mm D_{30} = 0.0744 mm
D_{60} = 0.1413 mm D_{15} = 0.0259 mm
D_{50} = 0.1141 mm D_{10} = 0.0103 mm
C_u = 13.718 C_c = 3.803

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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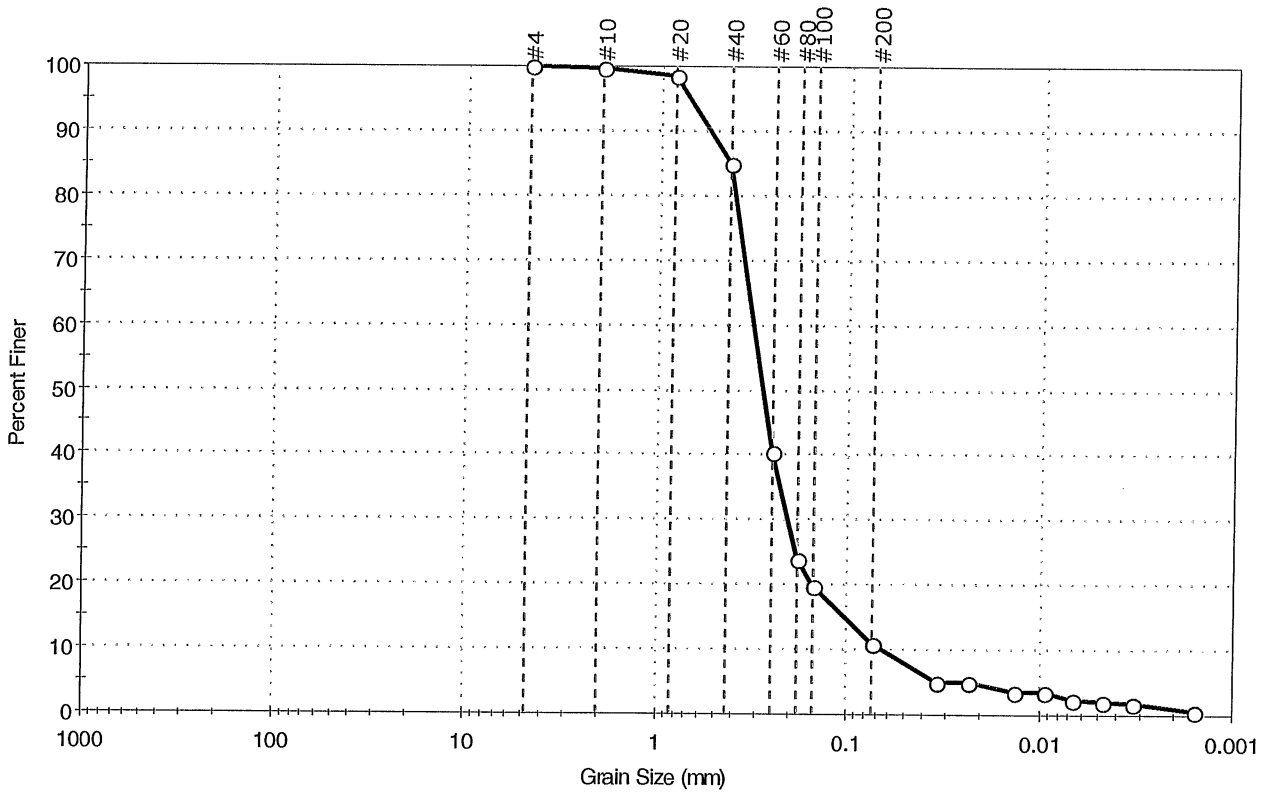
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-27D	Sample Type: bag	Tested By:	pcs
Sample ID:S-3A	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86484		
Test Comment:	---		
Sample Description:	Moist, dark brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	89.1	10.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	85		
#60	0.25	40		
#80	0.18	24		
#100	0.15	20		
#200	0.074	11		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0338	5		
---	0.0232	5		
---	0.0133	4		
---	0.0093	4		
---	0.0067	2		
---	0.0047	2		
---	0.0033	2		
---	0.0016	1		

Coefficients

D_{85} = 0.4276 mm D_{30} = 0.2035 mm
D_{60} = 0.3160 mm D_{15} = 0.1023 mm
D_{50} = 0.2805 mm D_{10} = 0.0655 mm
C_u = 4.824 C_c = 2.001

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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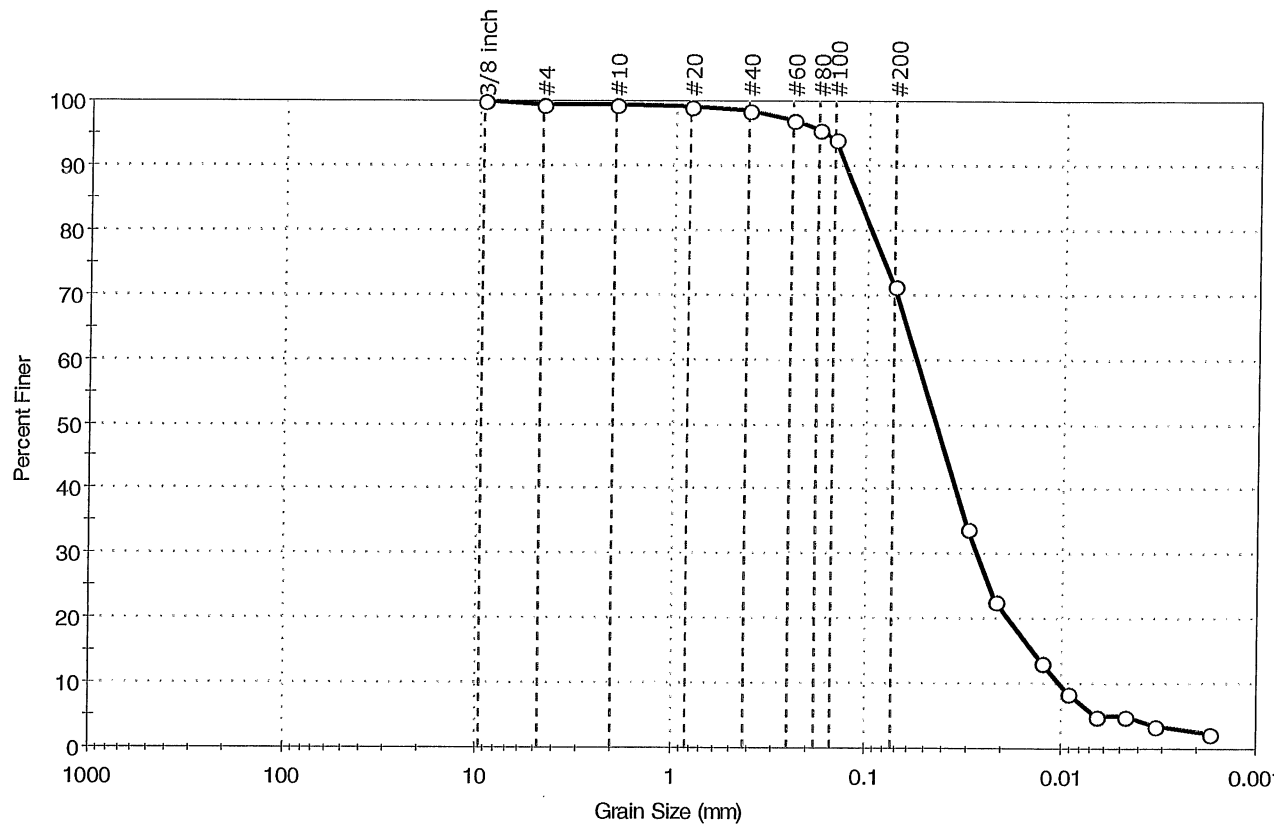
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-27D	Sample Type: bag	Tested By:	pcs
Sample ID:S-3B	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86485		
Test Comment:	---		
Sample Description:	Moist, dark brown silt with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.5	28.2	71.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 Inch	9.51	100		
#4	4.75	100		
#10	2.00	99		
#20	0.84	99		
#40	0.42	98		
#60	0.25	97		
#80	0.18	96		
#100	0.15	94		
#200	0.074	71		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0304	34		
---	0.0215	23		
---	0.0127	13		
---	0.0093	9		
---	0.0065	5		
---	0.0047	5		
---	0.0033	4		
---	0.0017	2		

Coefficients

D_{85} = 0.1129 mm D_{30} = 0.0270 mm
D_{60} = 0.0566 mm D_{15} = 0.0140 mm
D_{50} = 0.0446 mm D_{10} = 0.0101 mm
C_u = 5.604 C_c = 1.275

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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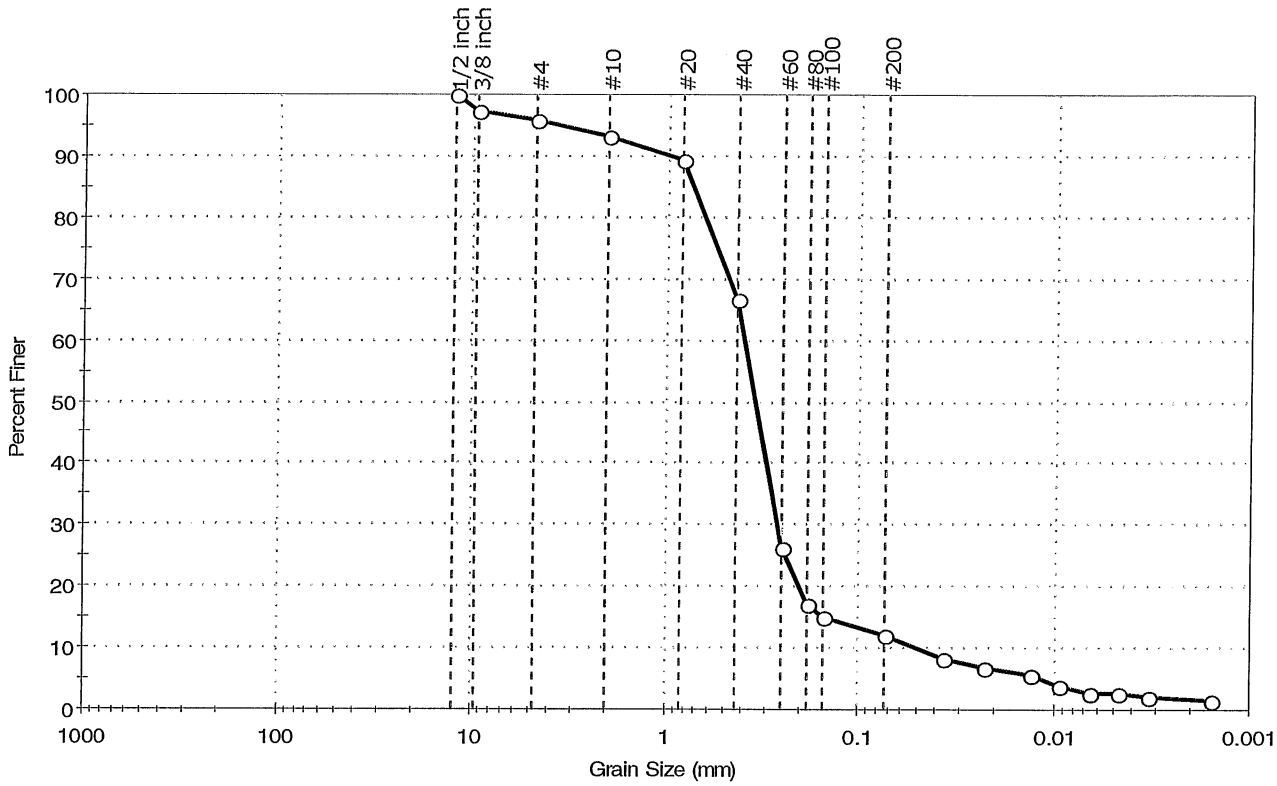
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-27D	Sample Type: bag	Tested By:	pcs
Sample ID:S-5	Test Date: 03/06/06	Checked By:	jdt
Depth : ---	Test Id: 86486		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	4.1	83.9	12.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 Inch	12.50	100		
3/8 Inch	9.50	97		
#4	4.75	96		
#10	2.00	93		
#20	0.84	89		
#40	0.42	67		
#60	0.25	26		
#80	0.18	17		
#100	0.15	15		
#200	0.074	12		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0366	8		
---	0.0225	7		
---	0.0130	5		
---	0.0094	4		
---	0.0066	3		
---	0.0047	3		
---	0.0033	2		
---	0.0016	1		

Coefficients

D_{85} = 0.7396 mm D_{30} = 0.2624 mm
D_{60} = 0.3891 mm D_{15} = 0.1451 mm
D_{50} = 0.3412 mm D_{10} = 0.0509 mm
C_u = 7.644 C_c = 3.477

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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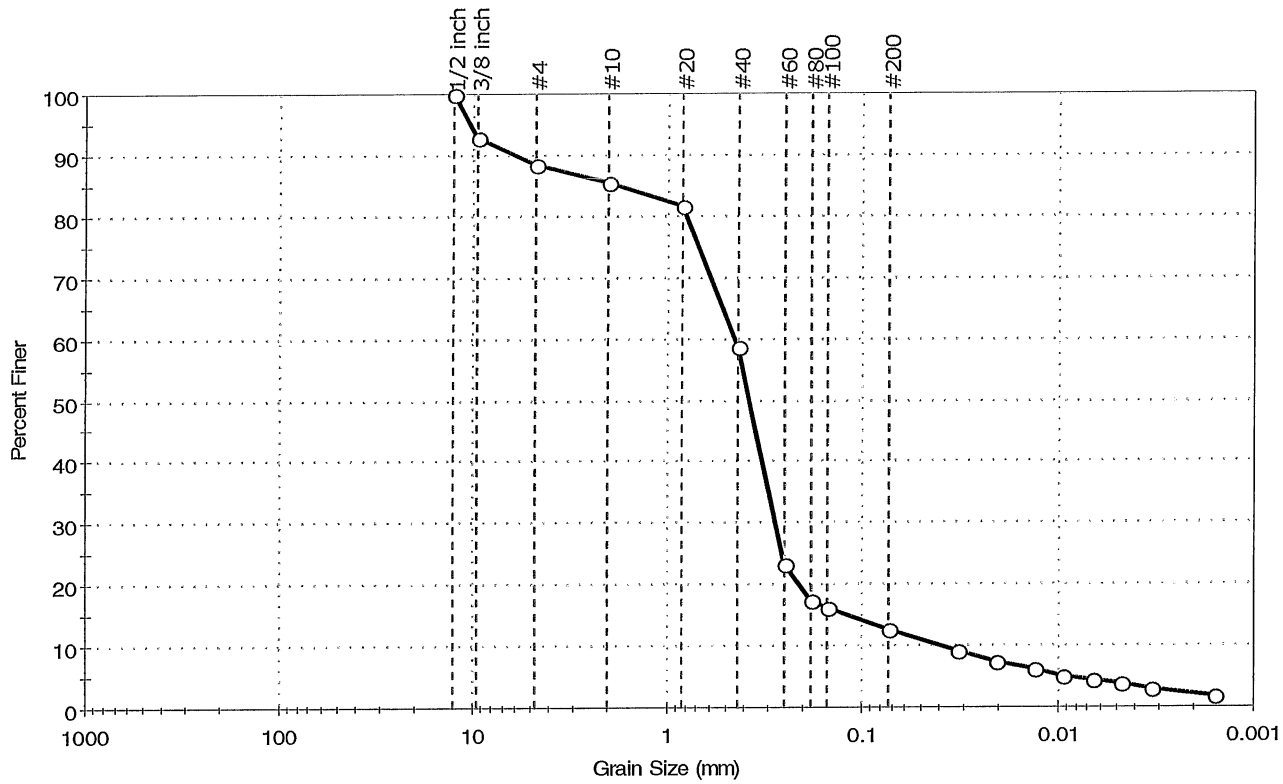
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-27D	Sample Type: bag	Tested By:	pcs
Sample ID:S-6A	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86487		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	11.6	75.7	12.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 Inch	12.70	100		
3/8 Inch	9.51	93		
#4	4.75	88		
#10	2.00	86		
#20	0.84	82		
#40	0.42	59		
#60	0.25	23		
#80	0.18	17		
#100	0.15	16		
#200	0.074	13		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0323	9		
---	0.0209	7		
---	0.0132	6		
---	0.0093	5		
---	0.0066	4		
---	0.0047	4		
---	0.0033	3		
---	0.0016	2		

Coefficients

D_{85} = 1.7827 mm D_{30} = 0.2765 mm
D_{60} = 0.4404 mm D_{15} = 0.1161 mm
D_{50} = 0.3727 mm D_{10} = 0.0384 mm
C_u = 11.469 C_c = 4.521

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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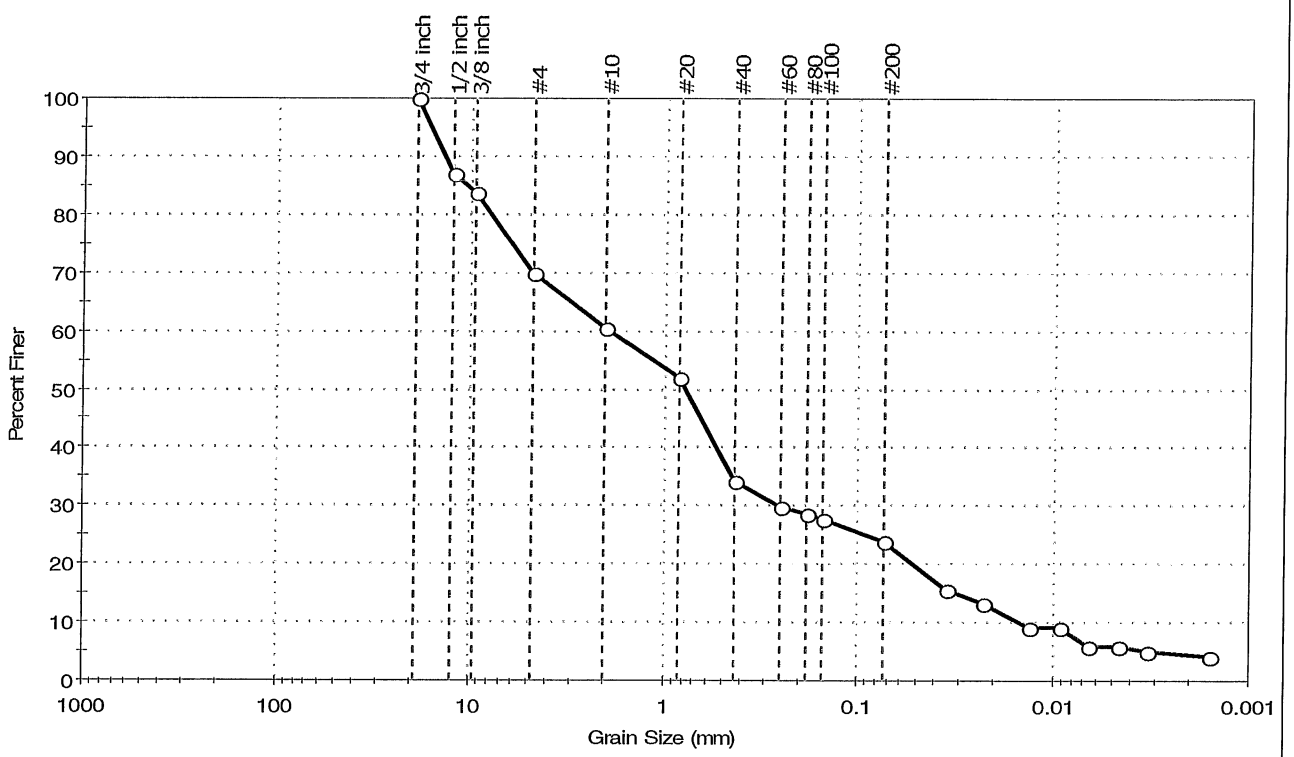
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-27D	Sample Type: bag	Tested By:	pcs
Sample ID:S-6C	Test Date: 03/06/06	Checked By:	jdt
Depth : ---	Test Id: 86488		
Test Comment: ---			
Sample Description:	Moist, light olive brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	29.9	46.2	23.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 inch	19.00	100		
1/2 inch	12.50	87		
3/8 inch	9.50	84		
#4	4.75	70		
#10	2.00	60		
#20	0.84	52		
#40	0.42	34		
#60	0.25	30		
#80	0.18	29		
#100	0.15	28		
#200	0.074	24		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0348	16		
---	0.0225	13		
---	0.0131	9		
---	0.0092	9		
---	0.0066	6		
---	0.0047	6		
---	0.0033	5		
---	0.0016	4		

Coefficients

D_{85} = 10.4735 mm	D_{30} = 0.2535 mm
D_{60} = 1.9201 mm	D_{15} = 0.0311 mm
D_{50} = 0.7835 mm	D_{10} = 0.0148 mm
C_u = 129.736	C_c = 2.261

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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GeoTesting express
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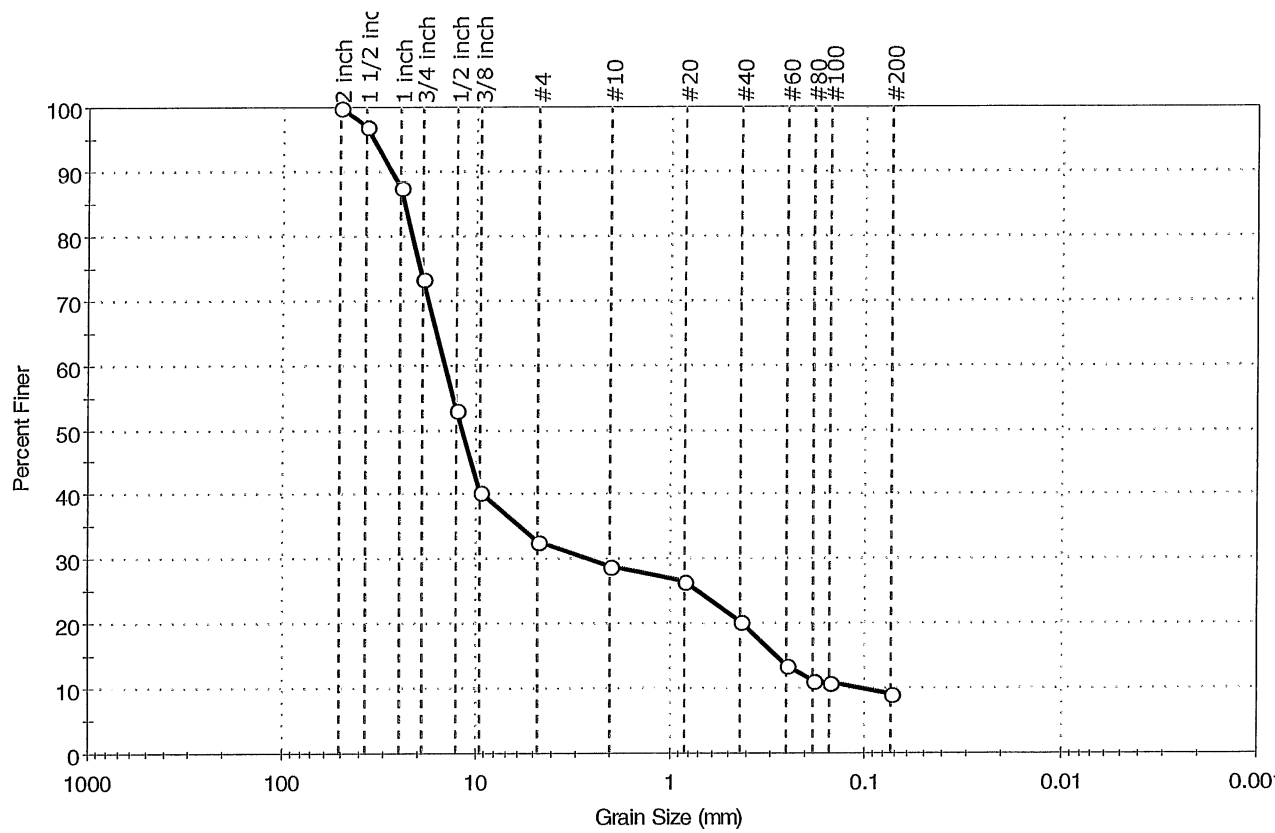
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID: S-2	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86464		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	67.2	23.6	9.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 Inch	50.80	100		
1 1/2 Inch	37.50	97		
1 Inch	25.00	88		
3/4 Inch	19.00	73		
1/2 Inch	12.70	53		
3/8 Inch	9.51	40		
#4	4.75	33		
#10	2.00	29		
#20	0.84	27		
#40	0.42	20		
#60	0.25	13		
#80	0.18	11		
#100	0.15	11		
#200	0.074	9		

Coefficients

D_{85} = 23.8127 mm	D_{30} = 2.5858 mm
D_{60} = 14.5457 mm	D_{15} = 0.2813 mm
D_{50} = 11.8104 mm	D_{10} = 0.1013 mm
C_u = 143.590	C_c = 4.538

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

Dispersion Device :

Dispersion Period : 1 minute

Specific Gravity : 2.65

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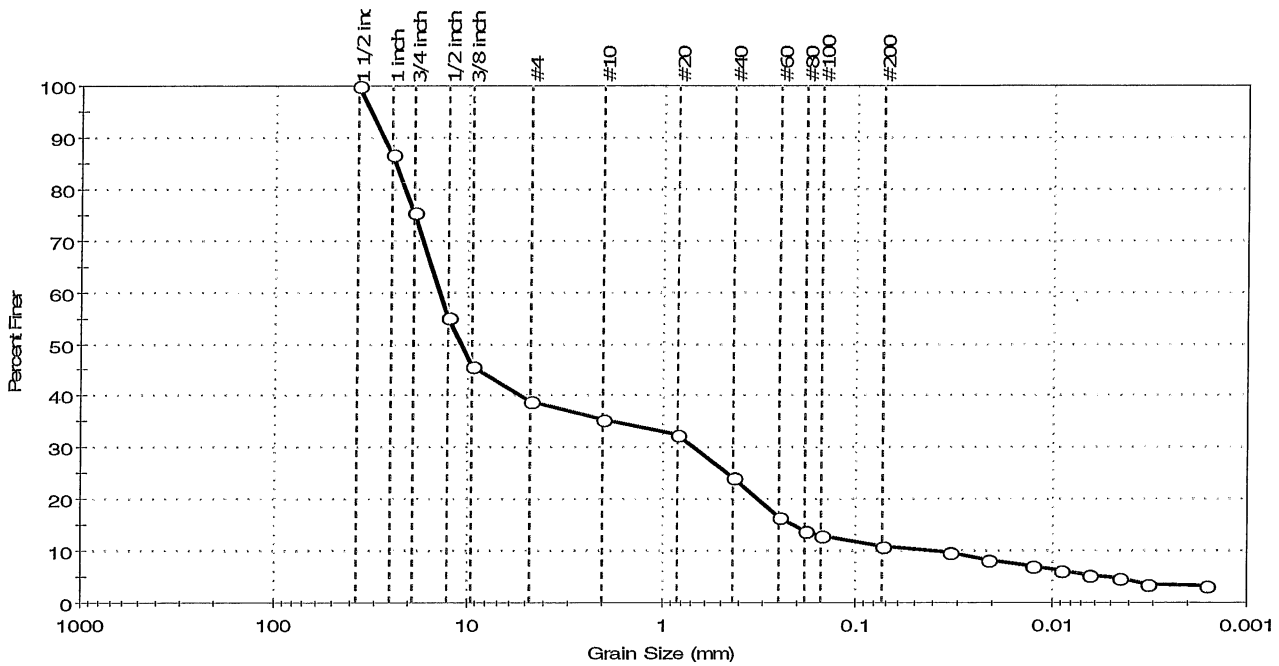
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-3	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86465		
Test Comment:	---		
Sample Description:	Moist, dark brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	61.0	27.9	11.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 1/2 inch	37.50	100		
1 inch	25.00	87		
3/4 inch	19.00	76		
1/2 inch	12.70	55		
3/8 inch	9.51	46		
#4	4.75	39		
#10	2.00	35		
#20	0.84	33		
#40	0.42	24		
#60	0.25	16		
#80	0.18	14		
#100	0.15	13		
#200	0.074	11		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0332	10		
---	0.0213	8		
---	0.0125	7		
---	0.0089	6		
---	0.0064	5		
---	0.0045	5		
---	0.0032	4		
---	0.0016	3		

Coefficients

D_{85} = 24.0262 mm D_{30} = 0.6802 mm
D_{60} = 13.9391 mm D_{15} = 0.2095 mm
D_{50} = 10.8397 mm D_{10} = 0.0408 mm
C_u = 341.645 C_c = 0.814

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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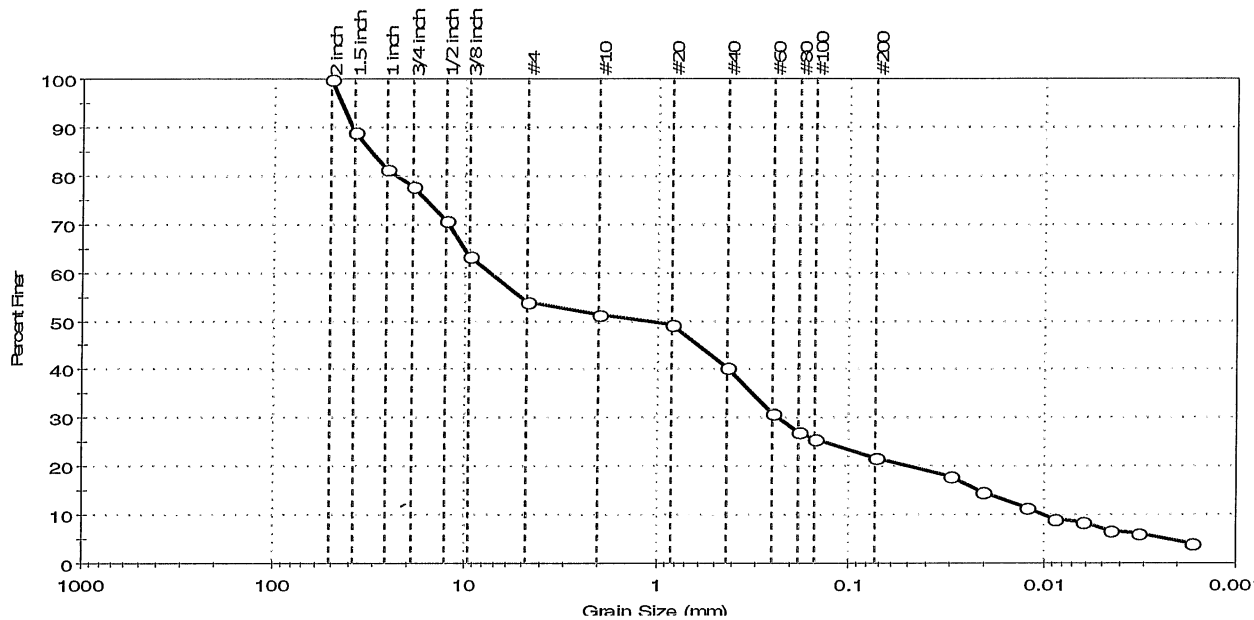
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-4	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86466		
Test Comment:	---		
Sample Description:	Moist, dark brown silty gravel with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	46.0	32.3	21.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 Inch	50.80	100		
1.5 Inch	38.10	89		
1 Inch	25.70	81		
3/4 Inch	19.00	78		
1/2 Inch	12.70	71		
3/8 Inch	9.51	63		
#4	4.75	54		
#10	2.00	51		
#20	0.84	49		
#40	0.42	41		
#60	0.25	31		
#80	0.18	27		
#100	0.15	26		
#200	0.074	22		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0301	18		
---	0.0207	15		
---	0.0124	12		
---	0.0088	9		
---	0.0063	8		
---	0.0045	7		
---	0.0032	6		
---	0.0017	4		

Coefficients

D_{85} = 30.9279 mm	D_{30} = 0.2307 mm
D_{60} = 7.3806 mm	D_{15} = 0.0210 mm
D_{50} = 1.1859 mm	D_{10} = 0.0098 mm
C_u = 753.122	C_c = 0.736

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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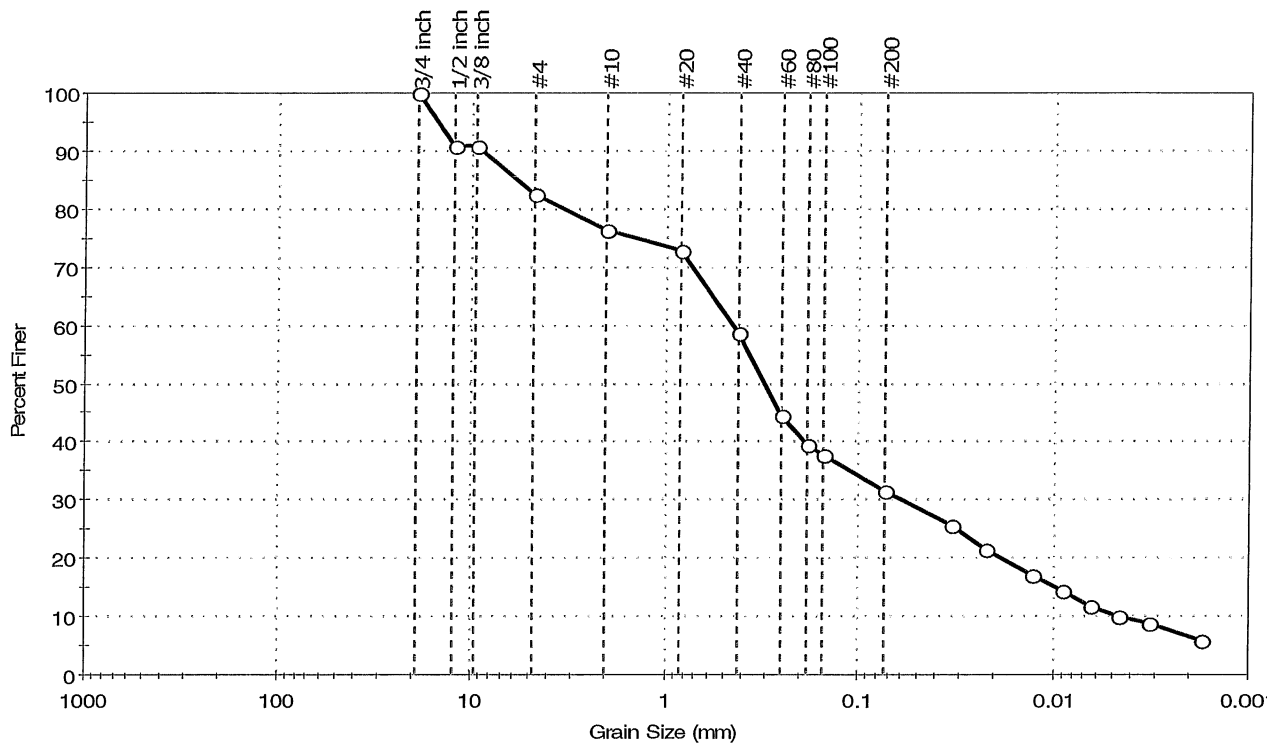
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-5	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86467		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	17.6	50.8	31.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 Inch	19.00	100		
1/2 Inch	12.50	91		
3/8 Inch	9.50	91		
#4	4.75	82		
#10	2.00	76		
#20	0.84	73		
#40	0.42	59		
#60	0.25	44		
#80	0.18	39		
#100	0.15	38		
#200	0.074	32		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0332	26		
---	0.0220	21		
---	0.0128	17		
---	0.0091	14		
---	0.0064	12		
---	0.0046	10		
---	0.0032	9		
---	0.0017	6		

Coefficients

D_{85} = 5.8558 mm D_{30} = 0.0590 mm
D_{60} = 0.4463 mm D_{15} = 0.0098 mm
D_{50} = 0.3056 mm D_{10} = 0.0045 mm
C_u = 99.178 C_c = 1.733

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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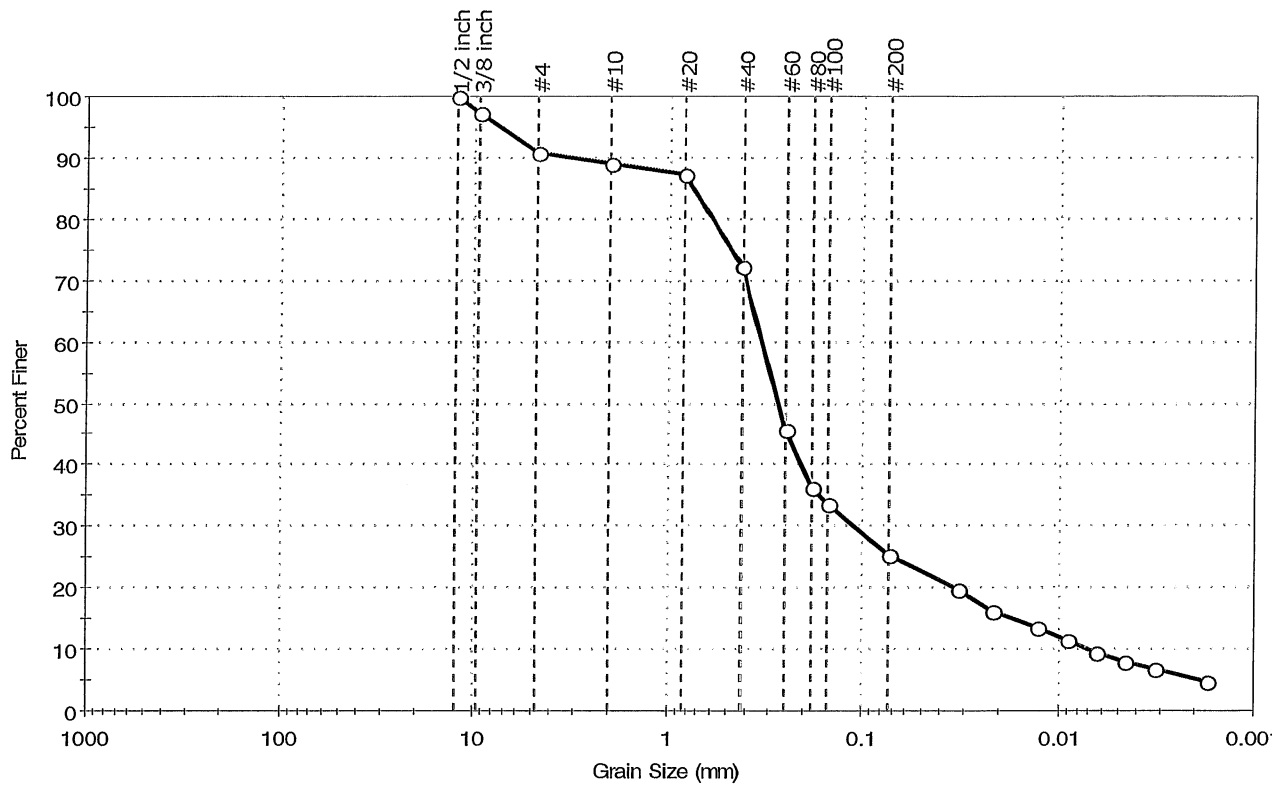
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID: S-6	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86468		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	9.1	65.5	25.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 inch	12.50	100		
3/8 inch	9.51	97		
#4	4.75	91		
#10	2.00	89		
#20	0.84	87		
#40	0.42	72		
#60	0.25	46		
#80	0.18	36		
#100	0.15	34		
#200	0.074	25		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0328	20		
---	0.0217	16		
---	0.0128	13		
---	0.0091	11		
---	0.0065	9		
---	0.0046	8		
---	0.0032	7		
---	0.0017	5		

Coefficients

D_{85} = 0.7590 mm D_{30} = 0.1093 mm
D_{60} = 0.3306 mm D_{15} = 0.0173 mm
D_{50} = 0.2714 mm D_{10} = 0.0073 mm
C_u = 45.288 C_c = 4.950

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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GeoTesting express
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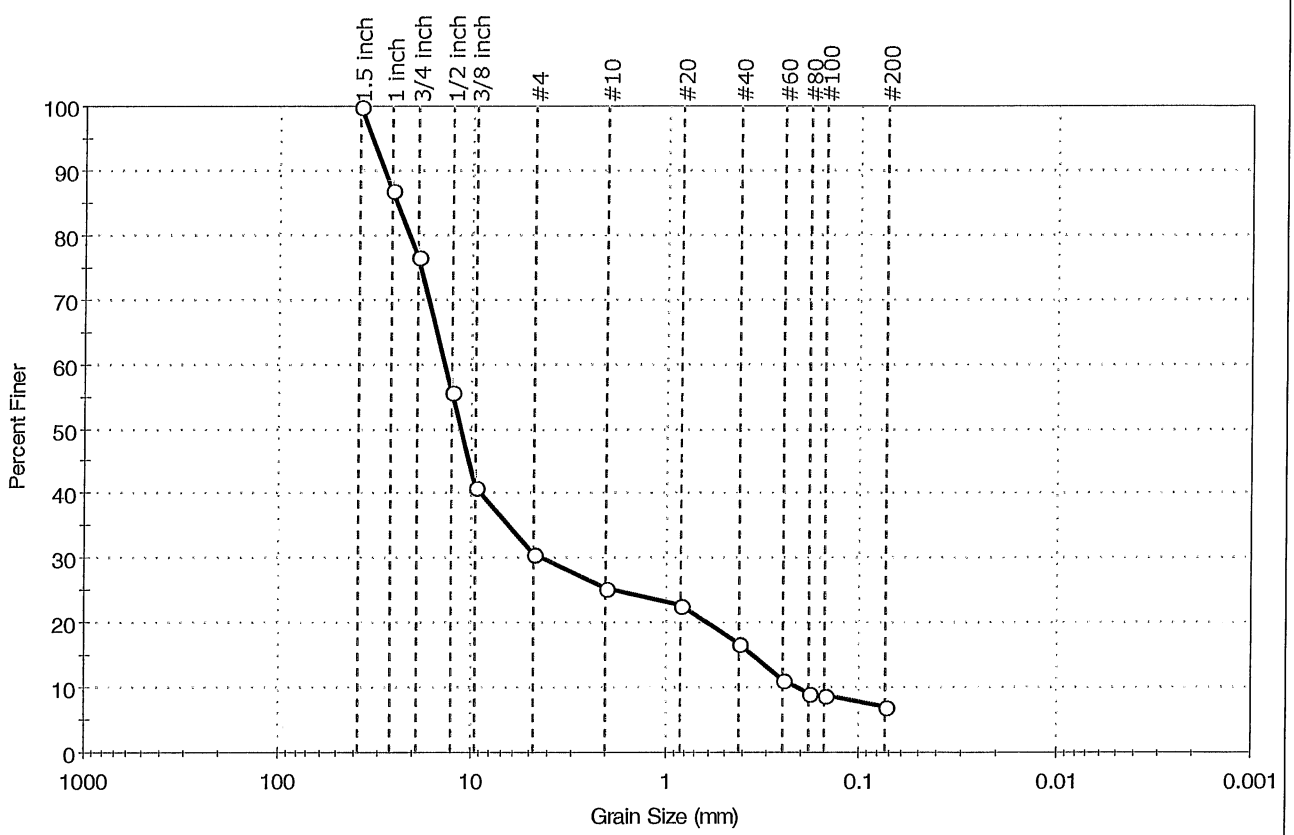
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-7	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86469		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark yellowish brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	69.3	23.5	7.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 inch	38.10	100		
1 inch	25.70	87		
3/4 inch	19.00	77		
1/2 inch	12.70	56		
3/8 inch	9.51	41		
#4	4.75	31		
#10	2.00	25		
#20	0.84	23		
#40	0.42	17		
#60	0.25	11		
#80	0.18	9		
#100	0.15	9		
#200	0.074	7		

Coefficients

D_{85} = 24.2201 mm	D_{30} = 4.2891 mm
D_{60} = 13.7803 mm	D_{15} = 0.3590 mm
D_{50} = 11.3422 mm	D_{10} = 0.2055 mm
C_u = 67.057	C_c = 6.496

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

Dispersion Device :

Dispersion Period : 1 minute

Specific Gravity : 2.65

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Geotesting express
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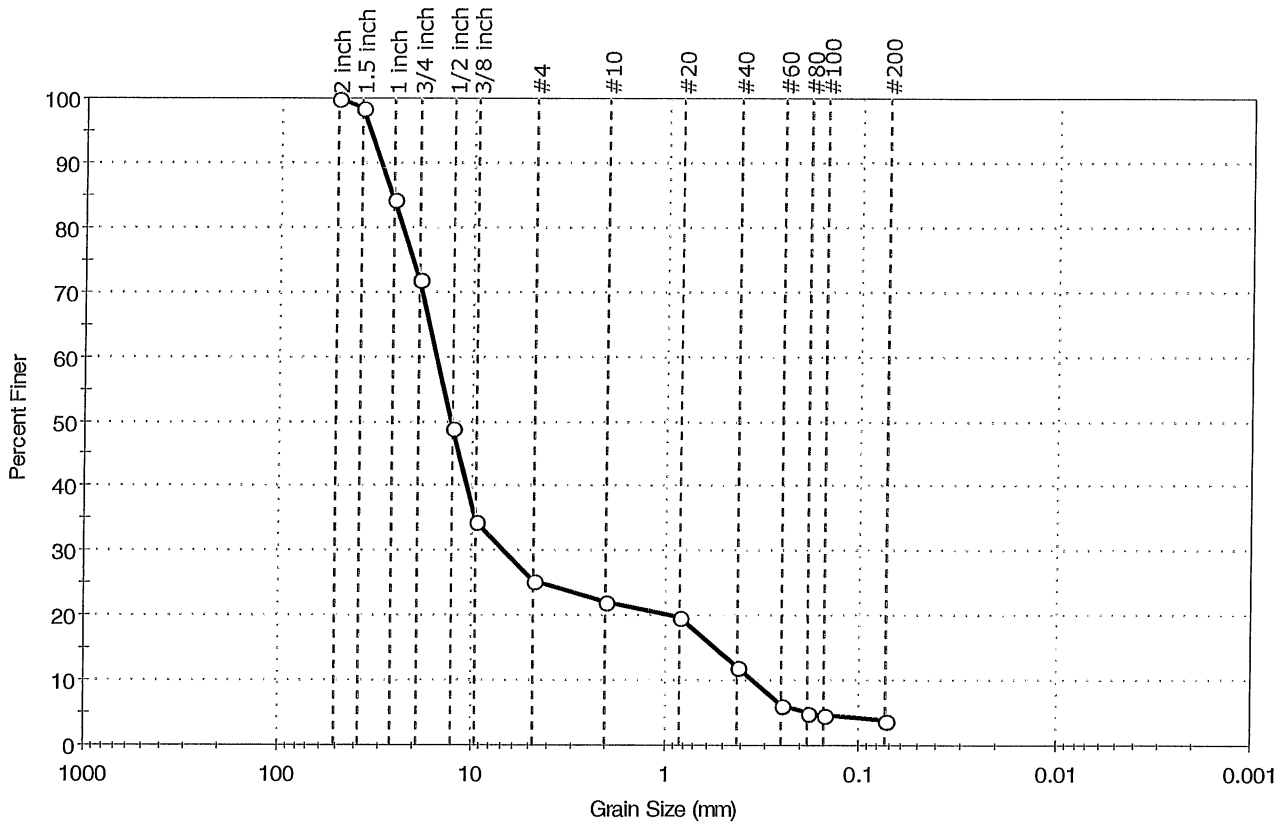
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-8	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86470		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark brown gravel with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



%Cobble	%Gravel	%Sand	%Silt & Clay Size
--	74.6	21.5	3.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 Inch	50.80	100		
1.5 Inch	38.10	99		
1 Inch	25.70	84		
3/4 Inch	19.00	72		
1/2 Inch	12.70	49		
3/8 Inch	9.51	34		
#4	4.75	25		
#10	2.00	22		
#20	0.84	20		
#40	0.42	12		
#60	0.25	6		
#80	0.18	5		
#100	0.15	5		
#200	0.074	4		

Coefficients

D_{85} =26.1942 mm	D_{30} =6.7646 mm
D_{60} =15.3840 mm	D_{15} =0.5463 mm
D_{50} =12.9210 mm	D_{10} =0.3474 mm
C_u =44.283	C_c =8.562

Classification

ASTM Poorly graded gravel with sand (GP)

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

Dispersion Device :

Dispersion Period : 1 minute

Specific Gravity : 2.65

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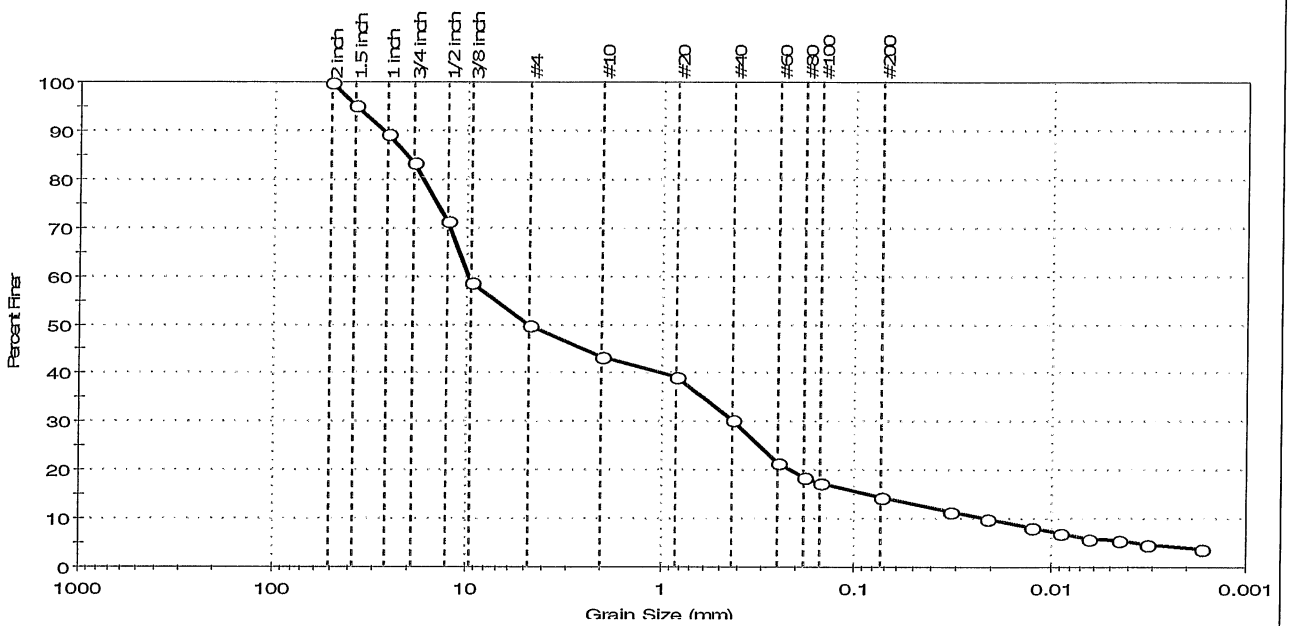
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-9	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86471		
Test Comment:	---		
Sample Description:	Moist, dark brown silty gravel with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	50.2	35.3	14.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 inch	50.80	100		
1.5 inch	38.10	95		
1 inch	25.70	89		
3/4 inch	19.00	83		
1/2 inch	12.70	71		
3/8 inch	9.51	59		
#4	4.75	50		
#10	2.00	43		
#20	0.84	39		
#40	0.42	30		
#60	0.25	22		
#80	0.18	19		
#100	0.15	17		
#200	0.074	15		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0329	11		
---	0.0211	10		
---	0.0127	8		
---	0.0090	7		
---	0.0064	6		
---	0.0045	6		
---	0.0032	5		
---	0.0017	4		

Coefficients

D_{85} = 20.6141 mm D_{30} = 0.4171 mm
D_{60} = 9.7936 mm D_{15} = 0.0833 mm
D_{50} = 4.8218 mm D_{10} = 0.0211 mm
C_u = 464.152 C_c = 0.842

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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GeoTesting express
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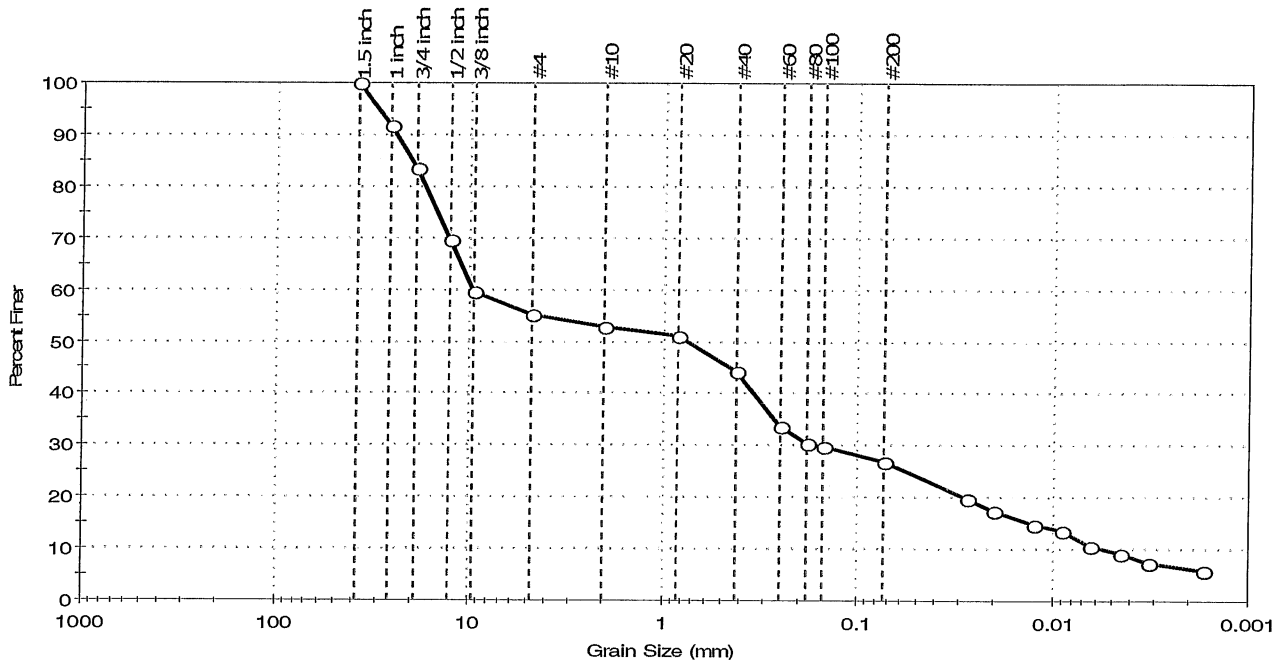
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-10	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86472		
Test Comment:	---		
Sample Description:	Moist, dark brown silty gravel with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	44.7	28.5	26.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 inch	38.10	100		
1 inch	25.70	92		
3/4 inch	19.00	83		
1/2 inch	12.70	70		
3/8 inch	9.51	59		
#4	4.75	55		
#10	2.00	53		
#20	0.84	51		
#40	0.42	44		
#60	0.25	34		
#80	0.18	30		
#100	0.15	30		
#200	0.074	27		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0274	20		
---	0.0200	17		
---	0.0125	15		
---	0.0089	14		
---	0.0064	11		
---	0.0045	9		
---	0.0032	7		
---	0.0017	6		

Coefficients

D_{85} = 20.1456 mm D_{30} = 0.1664 mm
D_{60} = 9.6501 mm D_{15} = 0.0129 mm
D_{50} = 0.7525 mm D_{10} = 0.0055 mm
C_u = 1754.564 C_c = 0.522

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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GeoTesting express
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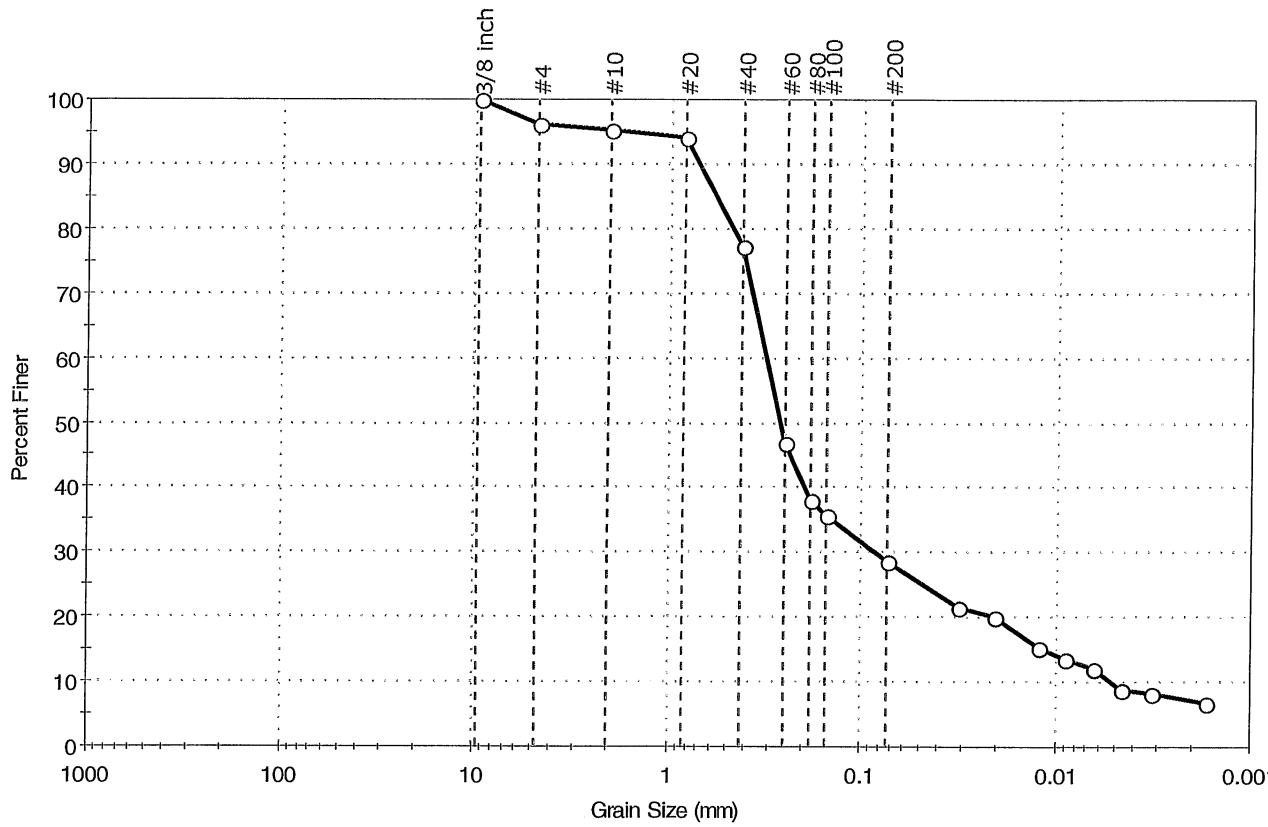
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID: S-11	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86455		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	3.7	67.7	28.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	96		
#10	2.00	95		
#20	0.84	94		
#40	0.42	77		
#60	0.25	47		
#80	0.18	38		
#100	0.15	36		
#200	0.074	29		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0317	22		
---	0.0208	20		
---	0.0124	15		
---	0.0090	14		
---	0.0064	12		
---	0.0046	9		
---	0.0032	8		
---	0.0017	7		

Coefficients

D_{85} = 0.5759 mm D_{30} = 0.0850 mm
D_{60} = 0.3124 mm D_{15} = 0.0119 mm
D_{50} = 0.2636 mm D_{10} = 0.0052 mm
C_u = 60.077 C_c = 4.448

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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GeoTesting express
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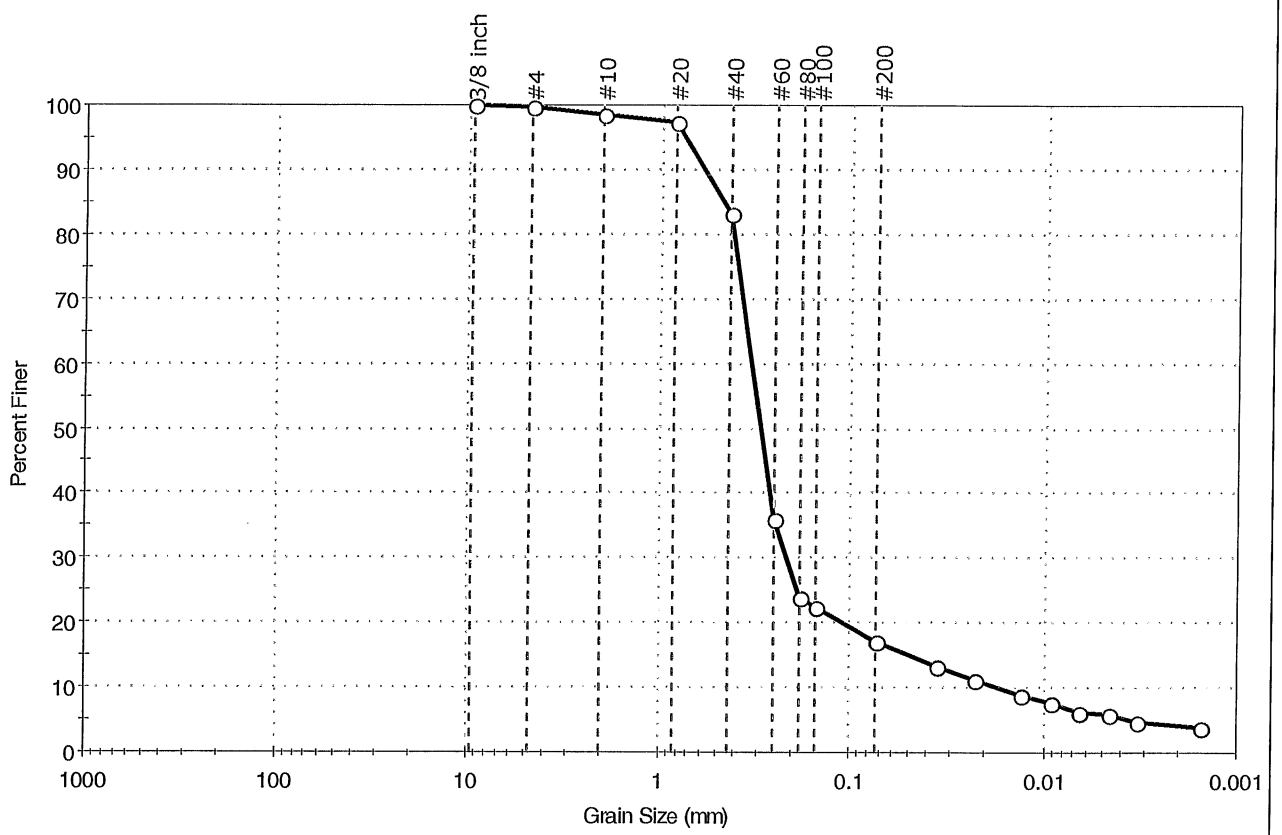
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-12	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86456		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.3	82.5	17.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 Inch	9.51	100		
#4	4.75	100		
#10	2.00	99		
#20	0.84	97		
#40	0.42	83		
#60	0.25	36		
#80	0.18	24		
#100	0.15	22		
#200	0.074	17		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0357	13		
---	0.0226	11		
---	0.0131	9		
---	0.0093	8		
---	0.0066	6		
---	0.0046	6		
---	0.0033	5		
---	0.0015	4		

Coefficients

D_{85} = 0.4643 mm D_{30} = 0.2124 mm
D_{60} = 0.3275 mm D_{15} = 0.0500 mm
D_{50} = 0.2926 mm D_{10} = 0.0171 mm
C_u = 19.152 C_c = 8.056

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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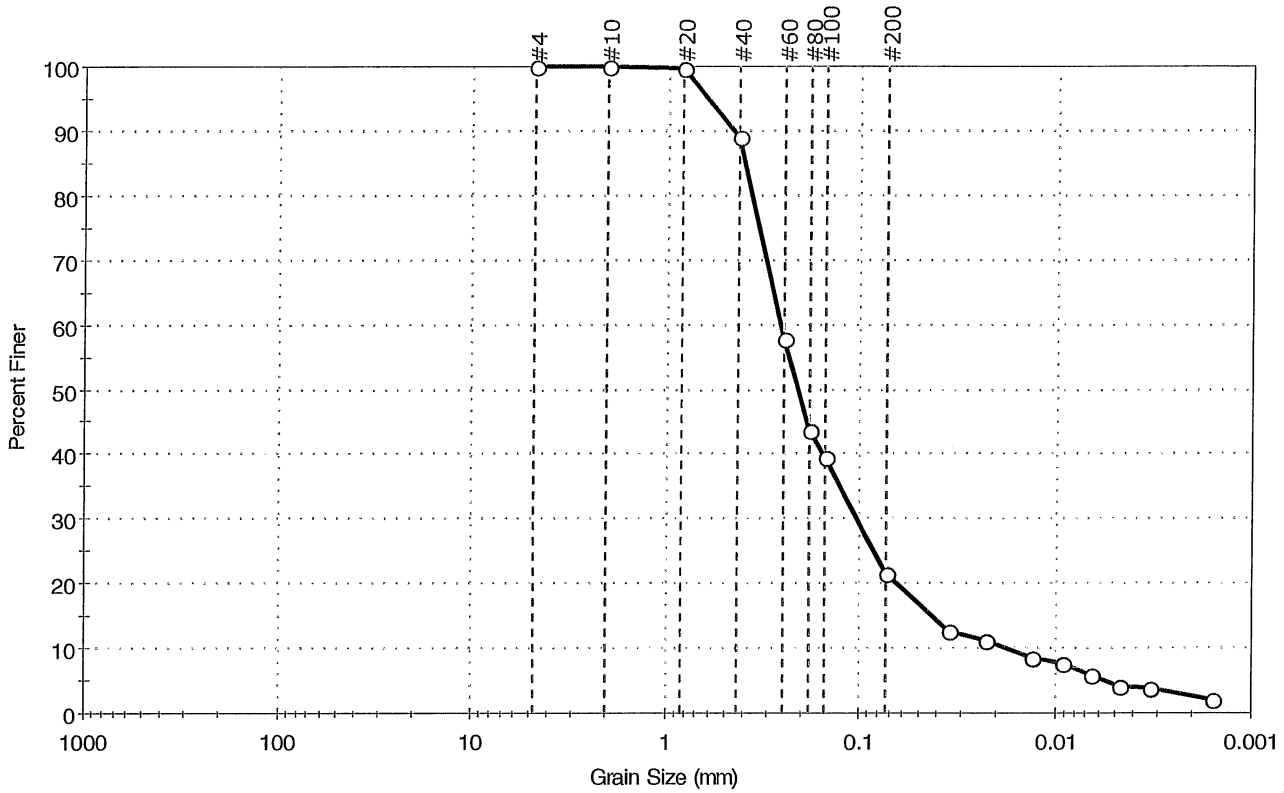
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-2	Test Date: 03/06/06	Checked By:	jdt
Depth : ---	Test Id: 86461		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	78.5	21.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	89		
#60	0.25	58		
#80	0.18	44		
#100	0.15	40		
#200	0.074	22		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0350	13		
---	0.0226	11		
---	0.0131	9		
---	0.0093	8		
---	0.0066	6		
---	0.0047	4		
---	0.0033	4		
---	0.0016	2		

Coefficients

D_{85} = 0.3960 mm D_{30} = 0.1028 mm
D_{60} = 0.2589 mm D_{15} = 0.0422 mm
D_{50} = 0.2085 mm D_{10} = 0.0179 mm
C_u = 14.464 C_c = 2.280

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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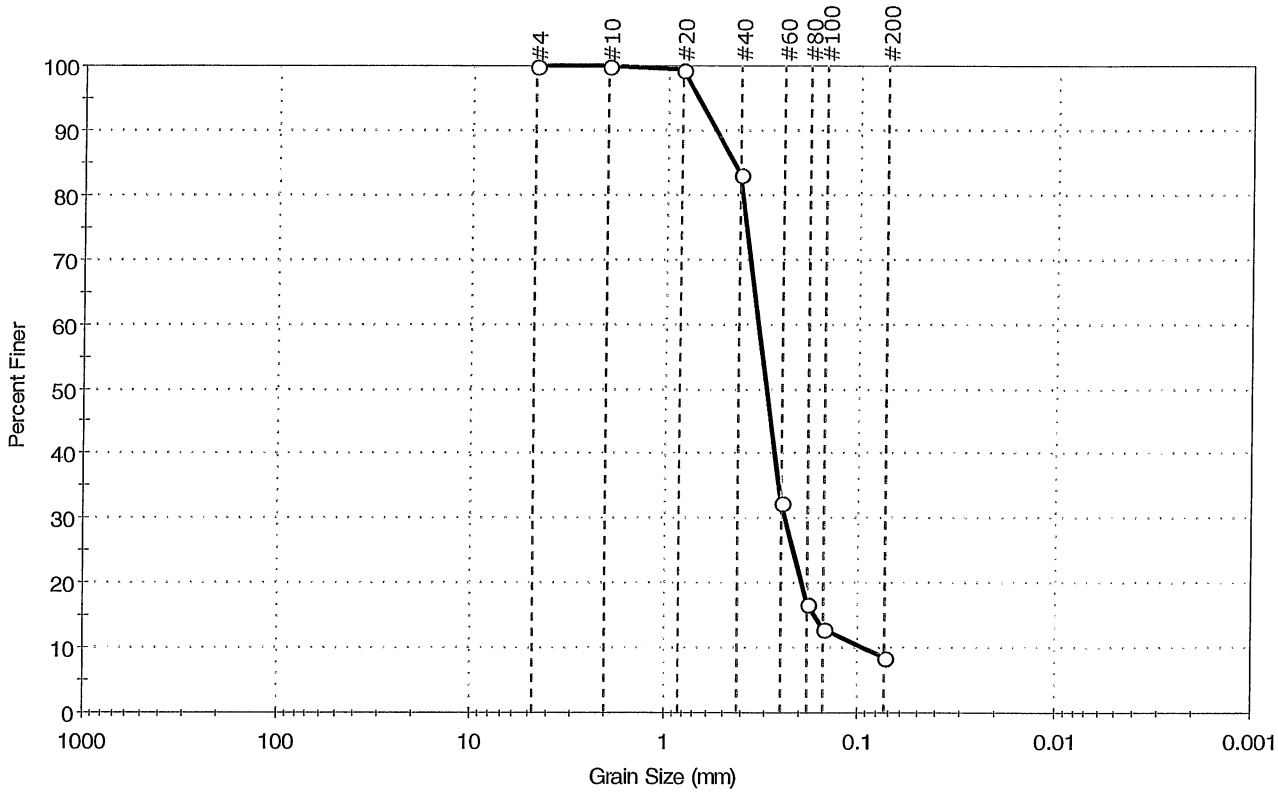
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-3	Test Date: 03/06/06	Checked By:	jdt
Depth : ---	Test Id: 86462		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	91.5	8.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	83		
#60	0.25	32		
#80	0.18	17		
#100	0.15	13		
#200	0.074	9		

Coefficients

D_{85} = 0.4552 mm	D_{30} = 0.2381 mm
D_{60} = 0.3317 mm	D_{15} = 0.1644 mm
D_{50} = 0.2995 mm	D_{10} = 0.0930 mm
C_u = 3.567	C_c = 1.838

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

Dispersion Device :

Dispersion Period : 1 minute

Specific Gravity : 2.65

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GeoTesting express
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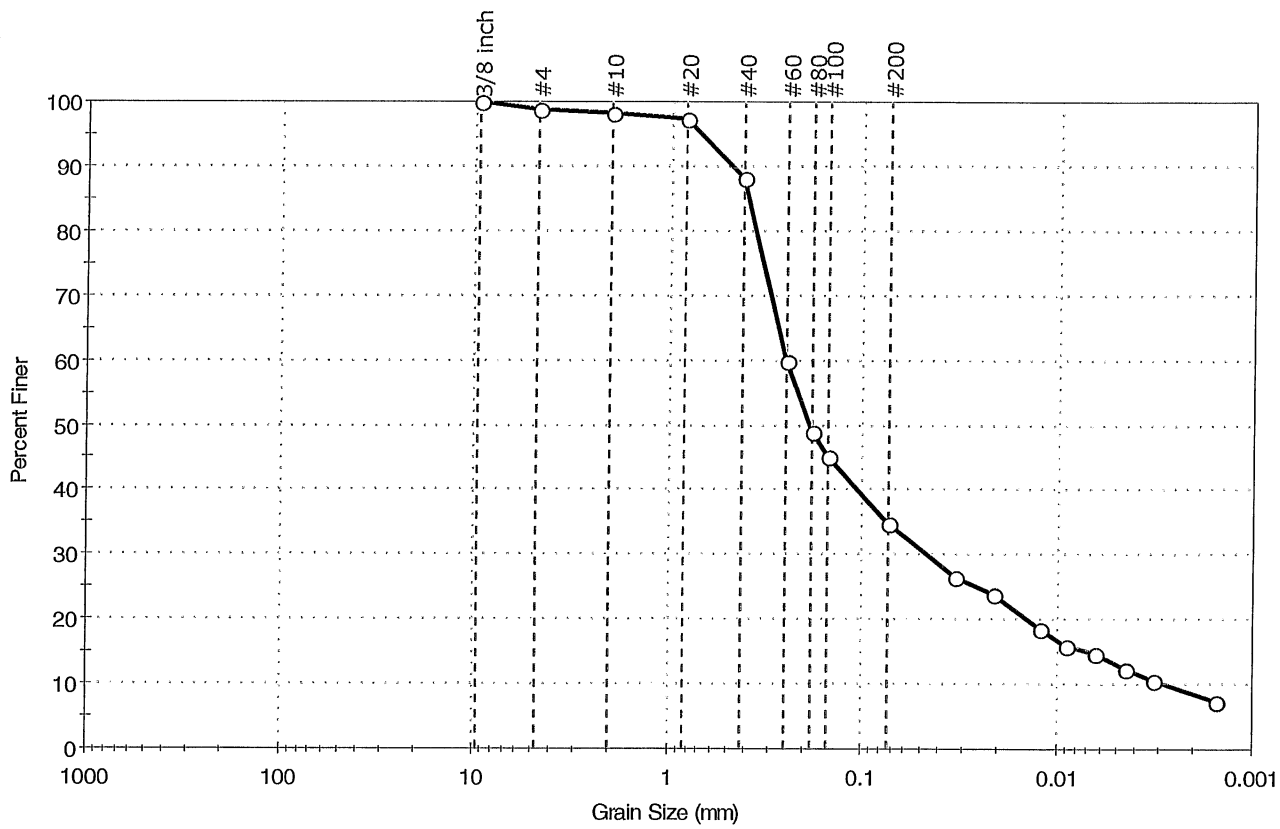
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-16	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86460		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	1.3	64.0	34.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	99		
#10	2.00	98		
#20	0.84	97		
#40	0.42	88		
#60	0.25	60		
#80	0.18	49		
#100	0.15	45		
#200	0.074	35		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0335	27		
---	0.0213	24		
---	0.0122	19		
---	0.0090	16		
---	0.0064	15		
---	0.0045	12		
---	0.0032	11		
---	0.0015	7		

Coefficients

D_{85} = 0.3951 mm D_{30} = 0.0465 mm
D_{60} = 0.2501 mm D_{15} = 0.0069 mm
D_{50} = 0.1860 mm D_{10} = 0.0028 mm
C_u = 89.321 C_c = 3.088

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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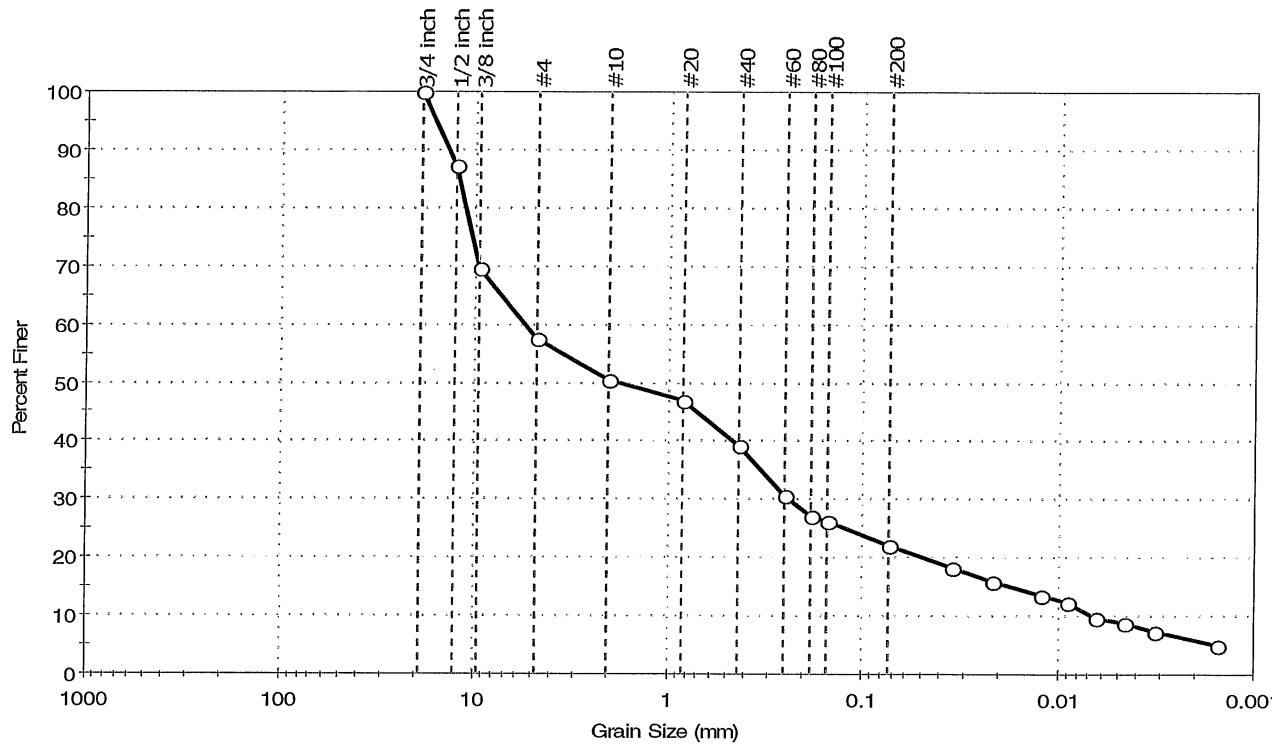
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-15	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86459		
Test Comment:	---		
Sample Description:	Moist, dark brown silty gravel with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	42.4	35.6	22.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 inch	19.00	100		
1/2 inch	12.70	87		
3/8 inch	9.51	70		
#4	4.75	58		
#10	2.00	51		
#20	0.84	47		
#40	0.42	39		
#60	0.25	31		
#80	0.18	27		
#100	0.15	26		
#200	0.074	22		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0353	18		
---	0.0219	16		
---	0.0123	14		
---	0.0090	12		
---	0.0065	10		
---	0.0046	9		
---	0.0032	7		
---	0.0015	5		

Coefficients

D_{85} = 12.2020 mm	D_{30} = 0.2355 mm
D_{60} = 5.4458 mm	D_{15} = 0.0174 mm
D_{50} = 1.7600 mm	D_{10} = 0.0066 mm
C_u = 825.121	C_c = 1.543

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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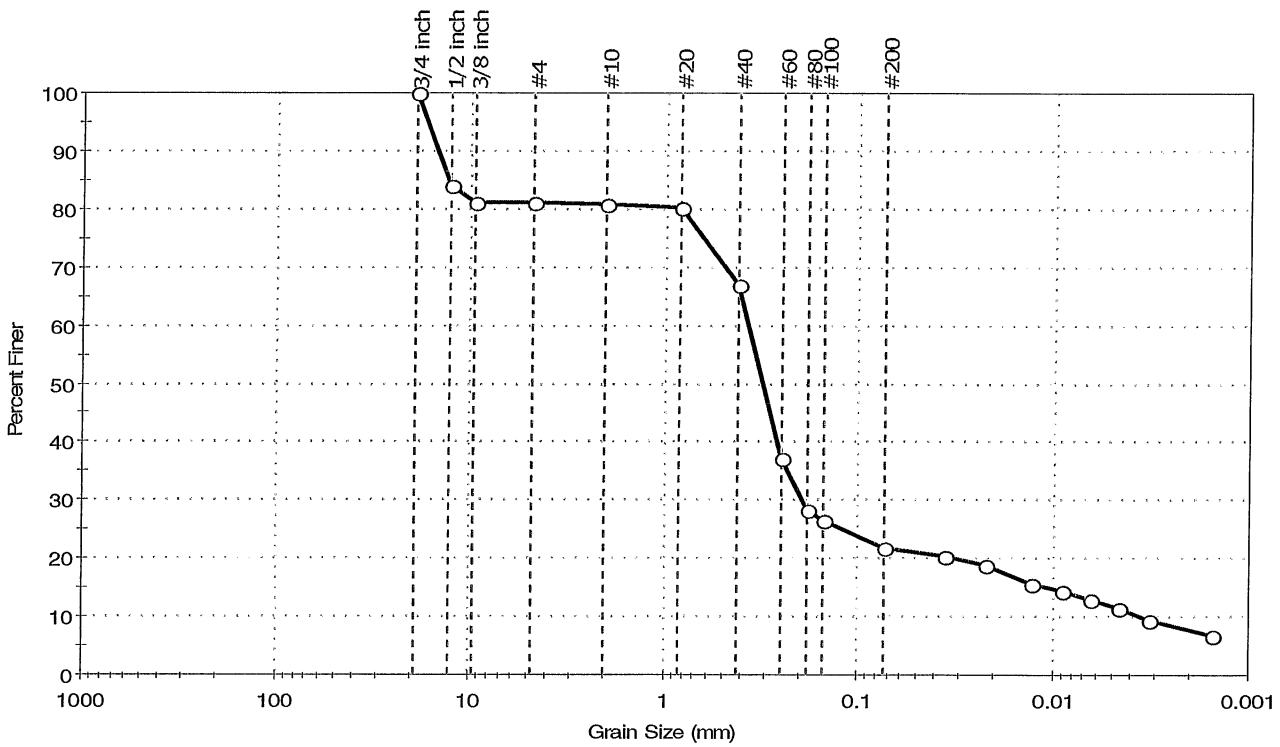
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-14	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86458		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	18.9	59.1	22.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 inch	19.00	100		
1/2 inch	12.70	84		
3/8 inch	9.51	81		
#4	4.75	81		
#10	2.00	81		
#20	0.84	80		
#40	0.42	67		
#60	0.25	37		
#80	0.18	28		
#100	0.15	27		
#200	0.074	22		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0355	20		
---	0.0221	19		
---	0.0128	16		
---	0.0090	15		
---	0.0064	13		
---	0.0046	11		
---	0.0032	9		
---	0.0015	7		

Coefficients

D_{85} = 13.0192 mm D_{30} = 0.1924 mm
D_{60} = 0.3720 mm D_{15} = 0.0103 mm
D_{50} = 0.3127 mm D_{10} = 0.0036 mm
C_u = 103.333 C_c = 27.642

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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GeoTesting express
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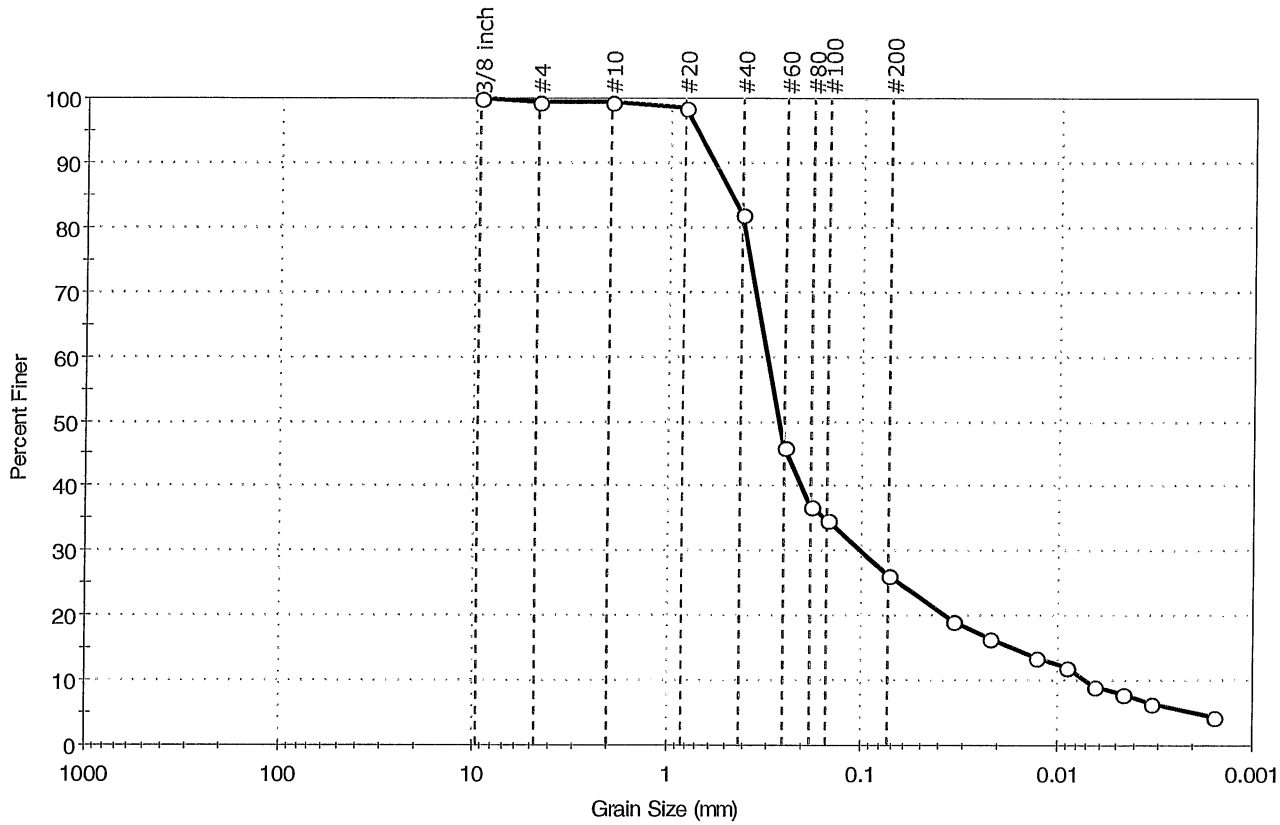
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-35	Sample Type: bag	Tested By:	pcs
Sample ID:S-13	Test Date: 03/06/06	Checked By:	jdt
Depth : ---	Test Id: 86457		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.5	73.1	26.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.50	100		
#4	4.75	99		
#10	2.00	99		
#20	0.84	98		
#40	0.42	82		
#60	0.25	46		
#80	0.18	37		
#100	0.15	35		
#200	0.074	26		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0342	19		
---	0.0221	16		
---	0.0127	14		
---	0.0090	12		
---	0.0065	9		
---	0.0046	8		
---	0.0033	6		
---	0.0016	4		

Coefficients

D_{85} = 0.4768 mm	D_{30} = 0.0997 mm
D_{60} = 0.3062 mm	D_{15} = 0.0167 mm
D_{50} = 0.2652 mm	D_{10} = 0.0070 mm
C_u = 43.743	C_c = 4.638

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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GeoTesting express
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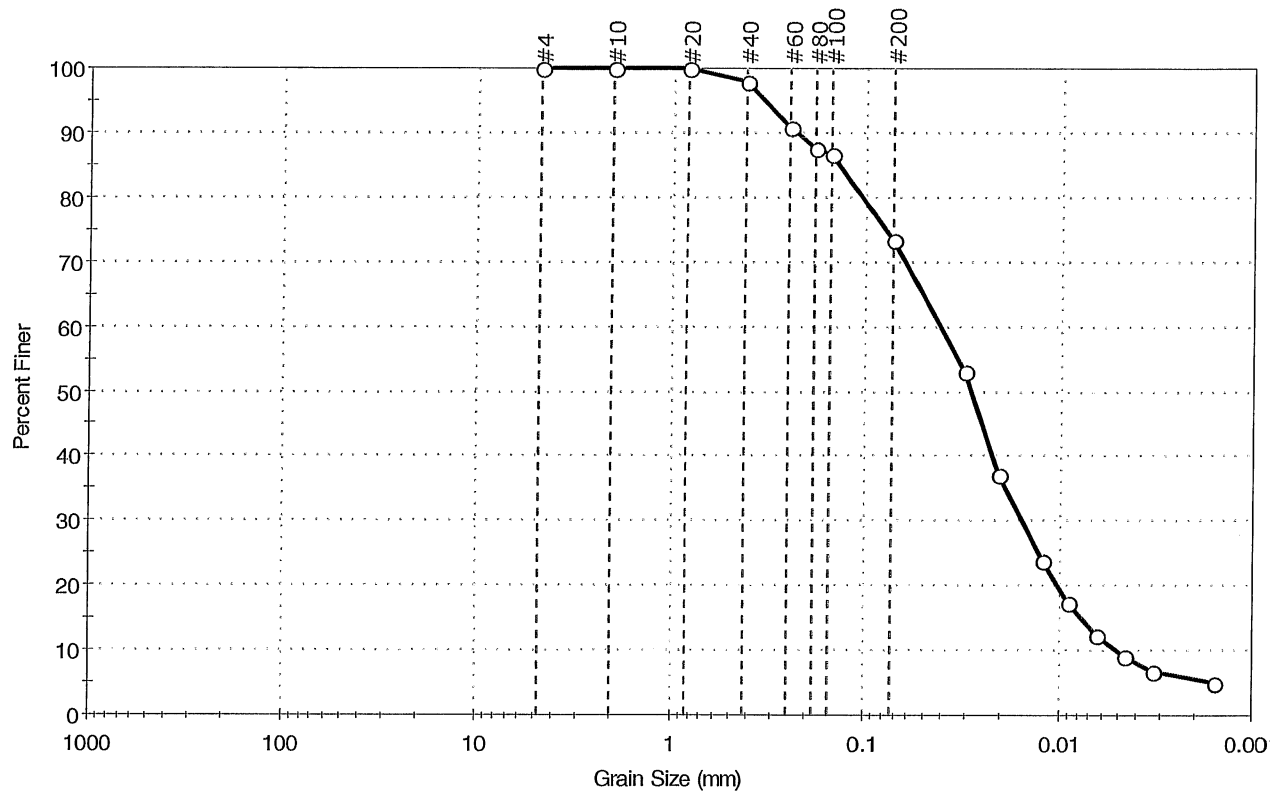
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-3A	Test Date: 03/06/06	Checked By:	jdt
Depth : ---	Test Id: 86463		
Test Comment:	---		
Sample Description:	Moist, dark brown silt with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	26.6	73.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	98		
#60	0.25	91		
#80	0.18	88		
#100	0.15	87		
#200	0.074	73		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0309	53		
---	0.0205	37		
---	0.0124	24		
---	0.0089	17		
---	0.0064	12		
---	0.0046	9		
---	0.0033	7		
---	0.0016	5		

Coefficients

D_{85} = 0.1366 mm D_{30} = 0.0156 mm
D_{60} = 0.0417 mm D_{15} = 0.0076 mm
D_{50} = 0.0286 mm D_{10} = 0.0050 mm
C_u = 8.340 C_c = 1.167

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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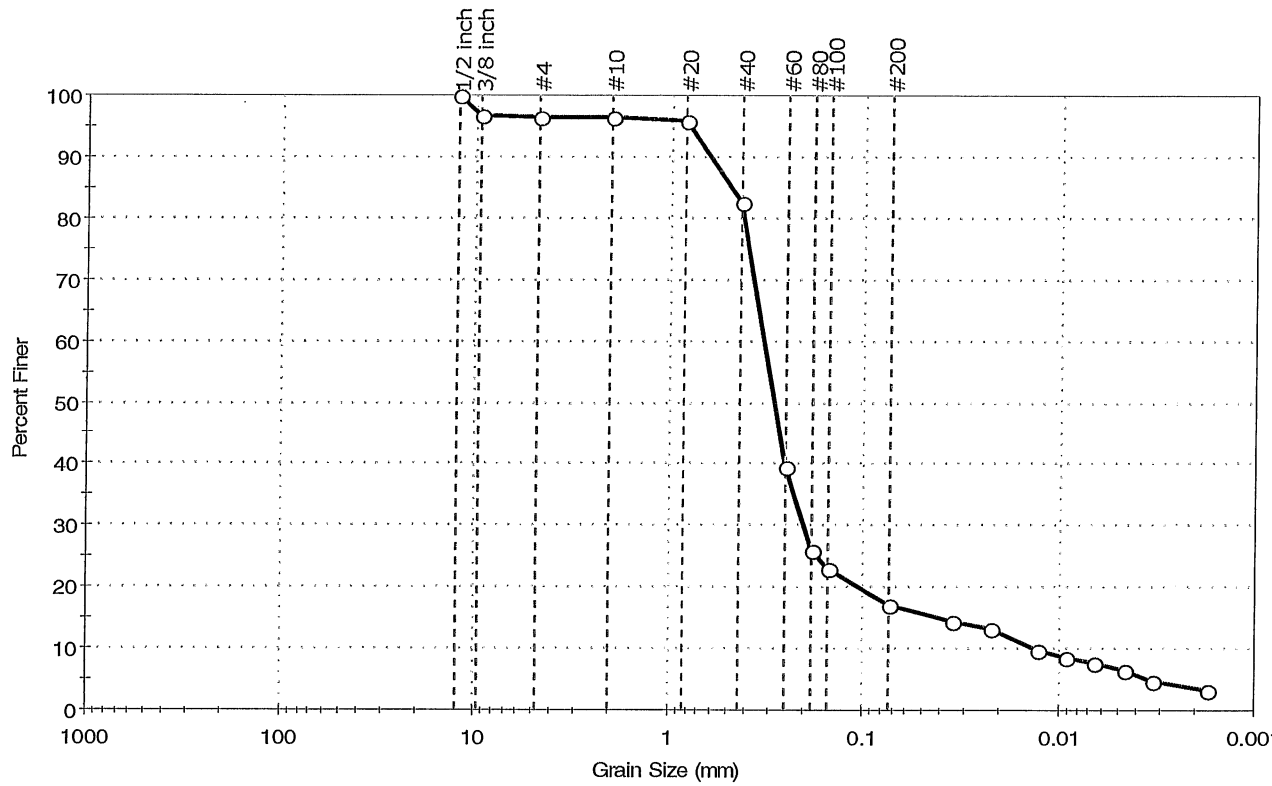
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-4	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86446		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	3.5	79.3	17.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 inch	12.50	100		
3/8 inch	9.51	97		
#4	4.75	97		
#10	2.00	96		
#20	0.84	96		
#40	0.42	83		
#60	0.25	39		
#80	0.18	26		
#100	0.15	23		
#200	0.074	17		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0351	15		
---	0.0221	13		
---	0.0130	10		
---	0.0092	8		
---	0.0065	8		
---	0.0046	6		
---	0.0033	5		
---	0.0017	3		

Coefficients

D_{85} = 0.4804 mm D_{30} = 0.1989 mm
D_{60} = 0.3219 mm D_{15} = 0.0394 mm
D_{50} = 0.2846 mm D_{10} = 0.0133 mm
C_u = 24.203 C_c = 9.241

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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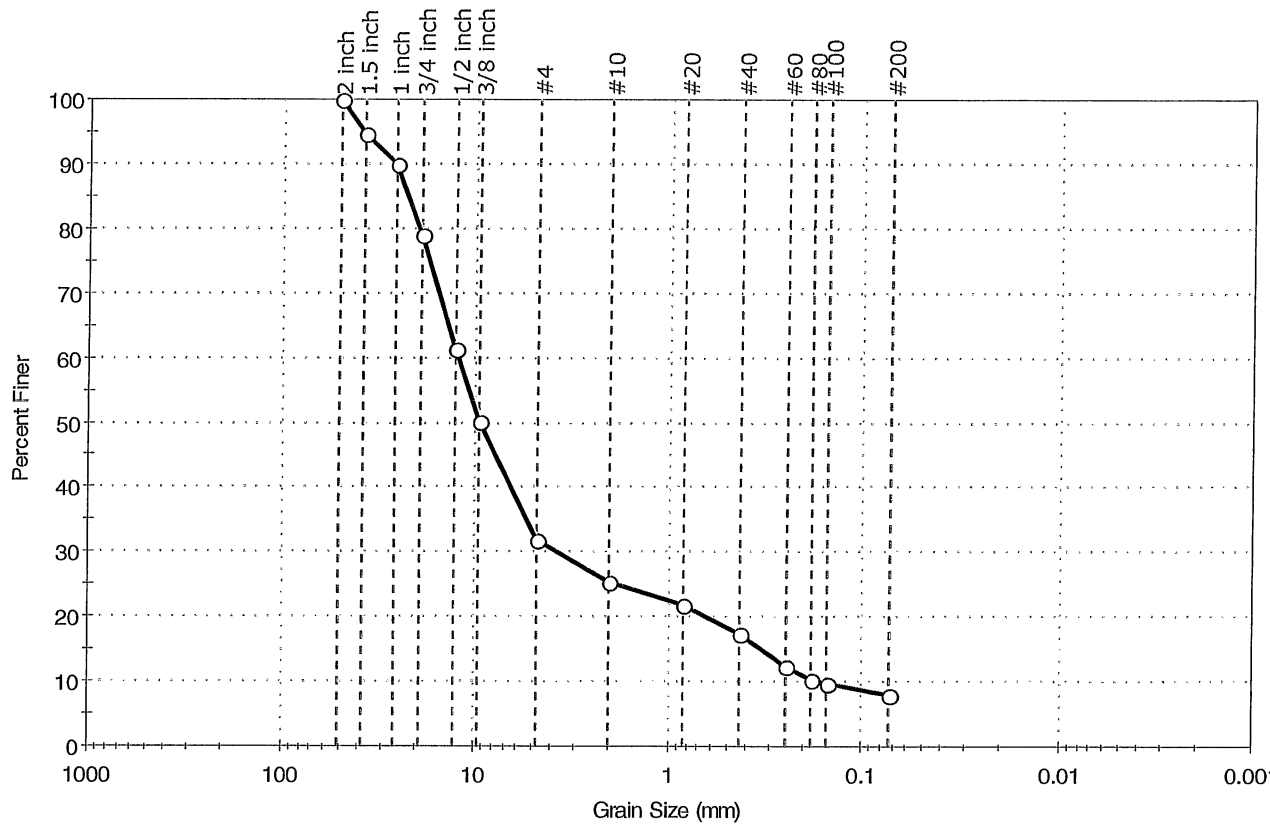
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-5	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86447		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	68.2	23.7	8.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 Inch	50.80	100		
1.5 Inch	38.10	95		
1 Inch	25.70	90		
3/4 Inch	19.00	79		
1/2 Inch	12.70	61		
3/8 Inch	9.51	50		
#4	4.75	32		
#10	2.00	25		
#20	0.84	22		
#40	0.42	17		
#60	0.25	12		
#80	0.18	10		
#100	0.15	10		
#200	0.074	8		

Coefficients

D_{85} = 22.4679 mm	D_{30} = 3.7347 mm
D_{60} = 12.2894 mm	D_{15} = 0.3279 mm
D_{50} = 9.4214 mm	D_{10} = 0.1596 mm
C_u = 77.001	C_c = 7.111

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

Dispersion Device :

Dispersion Period : 1 minute

Specific Gravity : 2.65

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GeoTesting express
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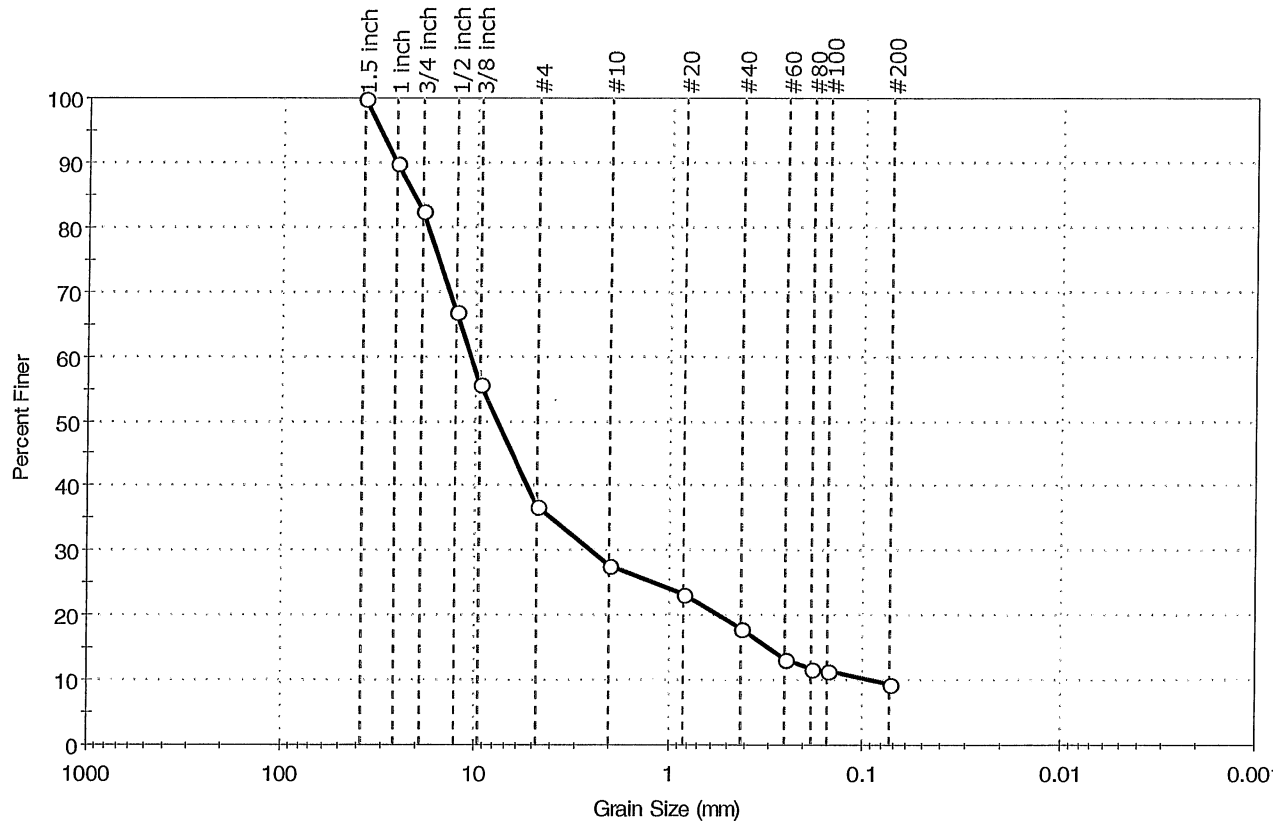
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-5A	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86448		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	63.1	27.4	9.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 inch	38.10	100		
1 inch	25.70	90		
3/4 inch	19.00	83		
1/2 inch	12.70	67		
3/8 inch	9.51	56		
#4	4.75	37		
#10	2.00	28		
#20	0.84	23		
#40	0.42	18		
#60	0.25	13		
#80	0.18	12		
#100	0.15	11		
#200	0.074	9		

Coefficients

D_{85} = 20.9282 mm	D_{30} = 2.4728 mm
D_{60} = 10.6326 mm	D_{15} = 0.2987 mm
D_{50} = 7.7167 mm	D_{10} = 0.0897 mm
C_u = 118.535	C_c = 6.411

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

Dispersion Device :

Dispersion Period : 1 minute

Specific Gravity : 2.65

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GeoTesting express
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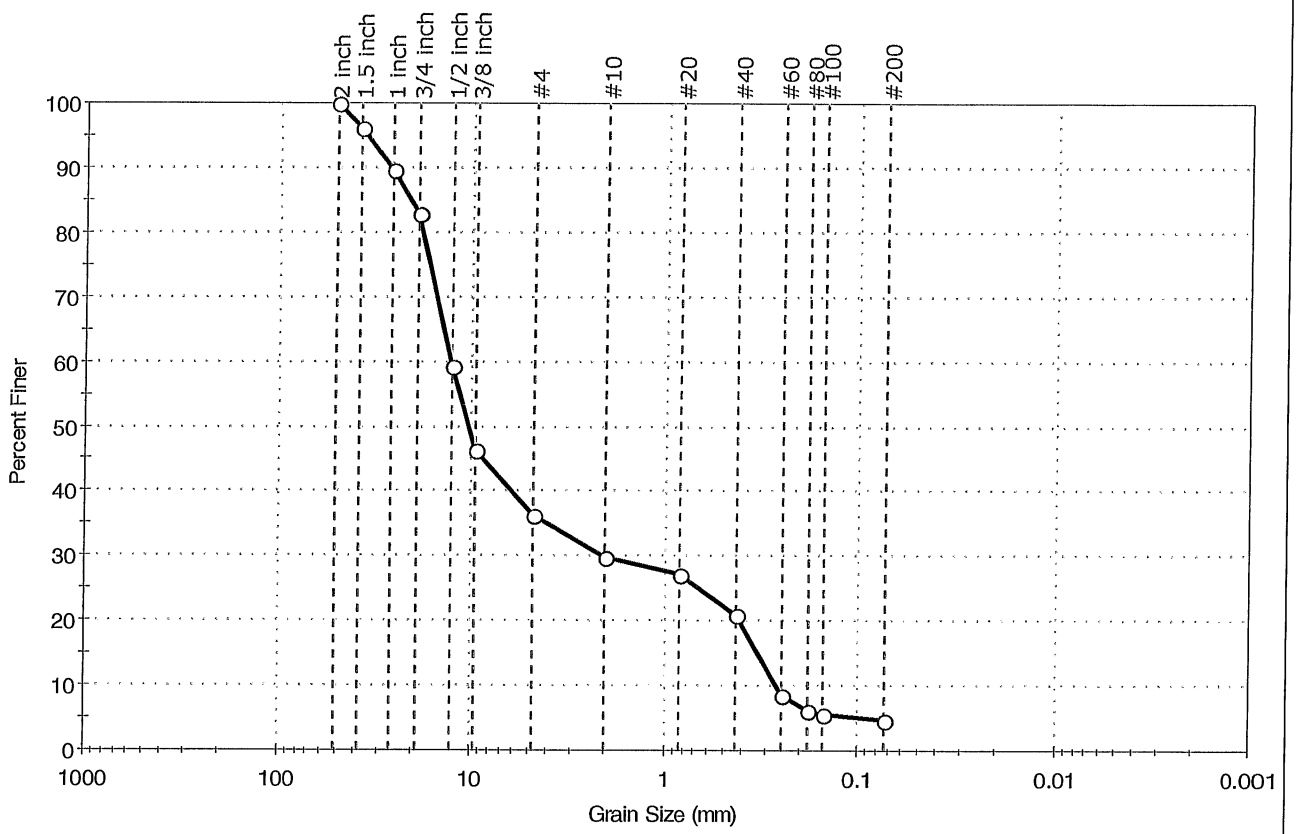
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-6	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86449		
Test Comment:	---		
Sample Description:	Moist, dark brown gravel with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	63.6	31.8	4.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 Inch	50.80	100		
1.5 Inch	38.10	96		
1 Inch	25.70	90		
3/4 Inch	19.00	83		
1/2 Inch	12.70	59		
3/8 Inch	9.51	46		
#4	4.75	36		
#10	2.00	30		
#20	0.84	27		
#40	0.42	21		
#60	0.25	9		
#80	0.18	6		
#100	0.15	6		
#200	0.074	5		

Coefficients

D_{85} = 20.8409 mm D_{30} = 2.0489 mm
D_{60} = 12.8688 mm D_{15} = 0.3298 mm
D_{50} = 10.3278 mm D_{10} = 0.2660 mm
C_u = 48.379 C_c = 1.226

Classification

ASTM Well-graded gravel with sand (GW)

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED
Sand/Gravel Hardness : HARD
Dispersion Device :
Dispersion Period : 1 minute
Specific Gravity : 2.65

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GeoTesting express
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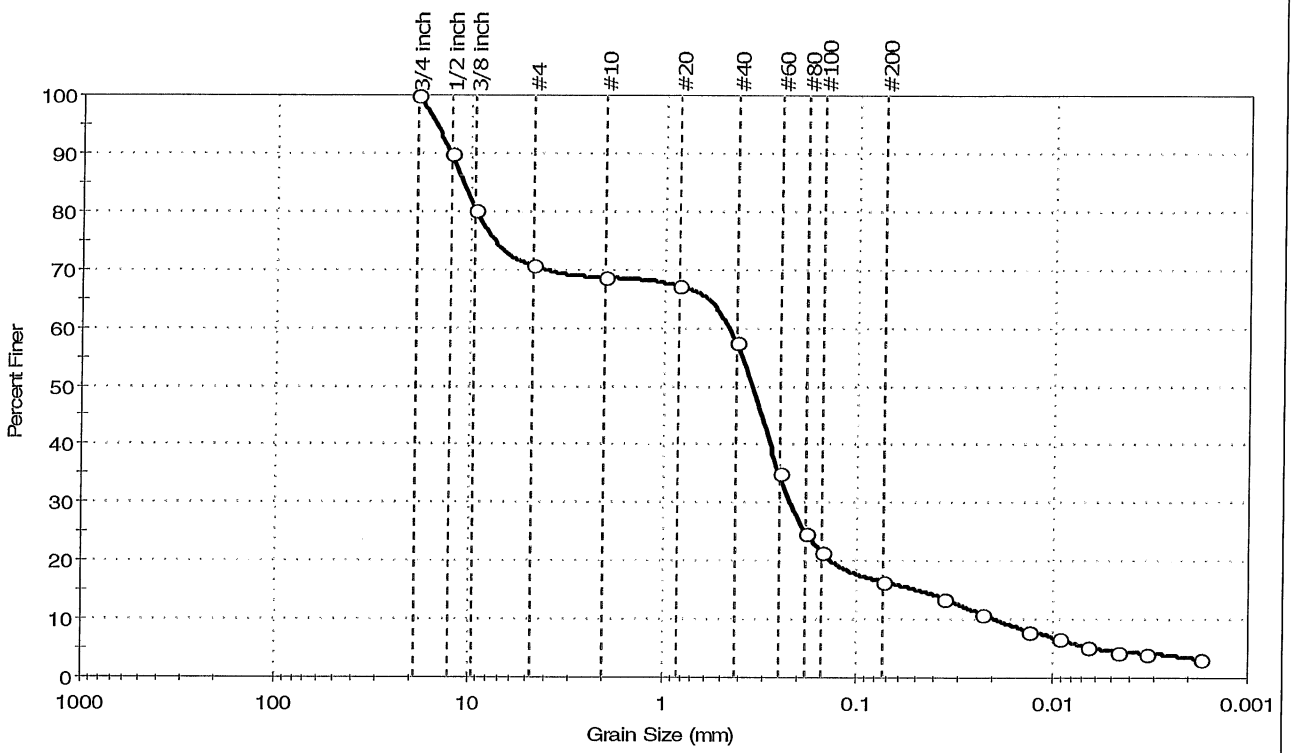
Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-6A	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86450		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	29.3	54.1	16.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 Inch	19.00	100		
1/2 Inch	12.70	90		
3/8 Inch	9.51	80		
#4	4.75	71		
#10	2.00	69		
#20	0.84	67		
#40	0.42	58		
#60	0.25	35		
#80	0.18	25		
#100	0.15	21		
#200	0.074	17		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0362	14		
---	0.0226	11		
---	0.0130	8		
---	0.0092	7		
---	0.0066	5		
---	0.0047	5		
---	0.0033	4		
---	0.0017	3		

Coefficients

D_{85} = 10.9635 mm D_{30} = 0.2127 mm
D_{60} = 0.4999 mm D_{15} = 0.0504 mm
D_{50} = 0.3525 mm D_{10} = 0.0191 mm
C_u = 26.173 C_c = 4.738

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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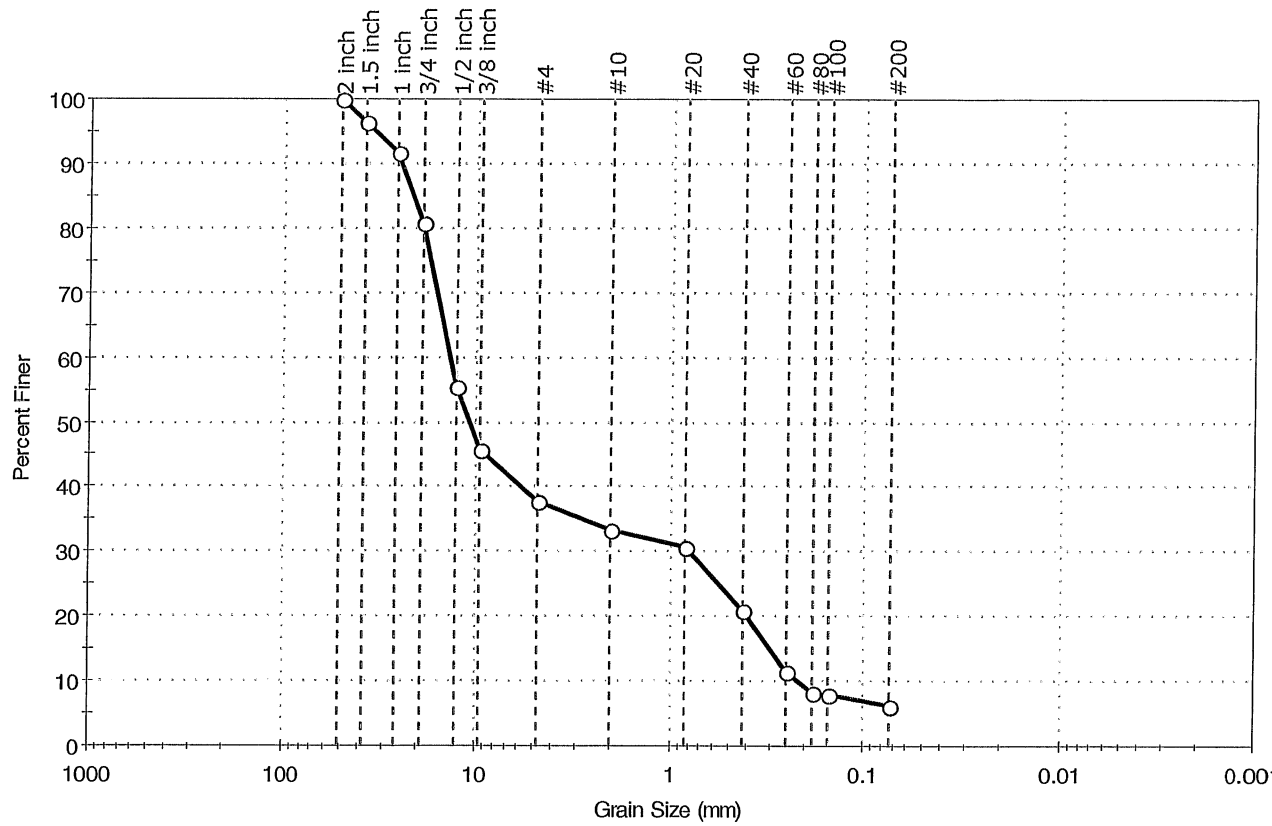
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-7	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86451		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	62.2	31.7	6.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 Inch	50.80	100		
1.5 Inch	38.10	96		
1 Inch	25.70	92		
3/4 Inch	19.00	81		
1/2 Inch	12.70	55		
3/8 Inch	9.51	46		
#4	4.75	38		
#10	2.00	33		
#20	0.84	31		
#40	0.42	21		
#60	0.25	12		
#80	0.18	8		
#100	0.15	8		
#200	0.074	6		

Coefficients

D_{85} =21.3720 mm	D_{30} =0.8053 mm
D_{60} =13.6544 mm	D_{15} =0.3018 mm
D_{50} =10.8022 mm	D_{10} =0.2119 mm
C_u =64.438	C_c =0.224

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

Dispersion Device :

Dispersion Period : 1 minute

Specific Gravity : 2.65

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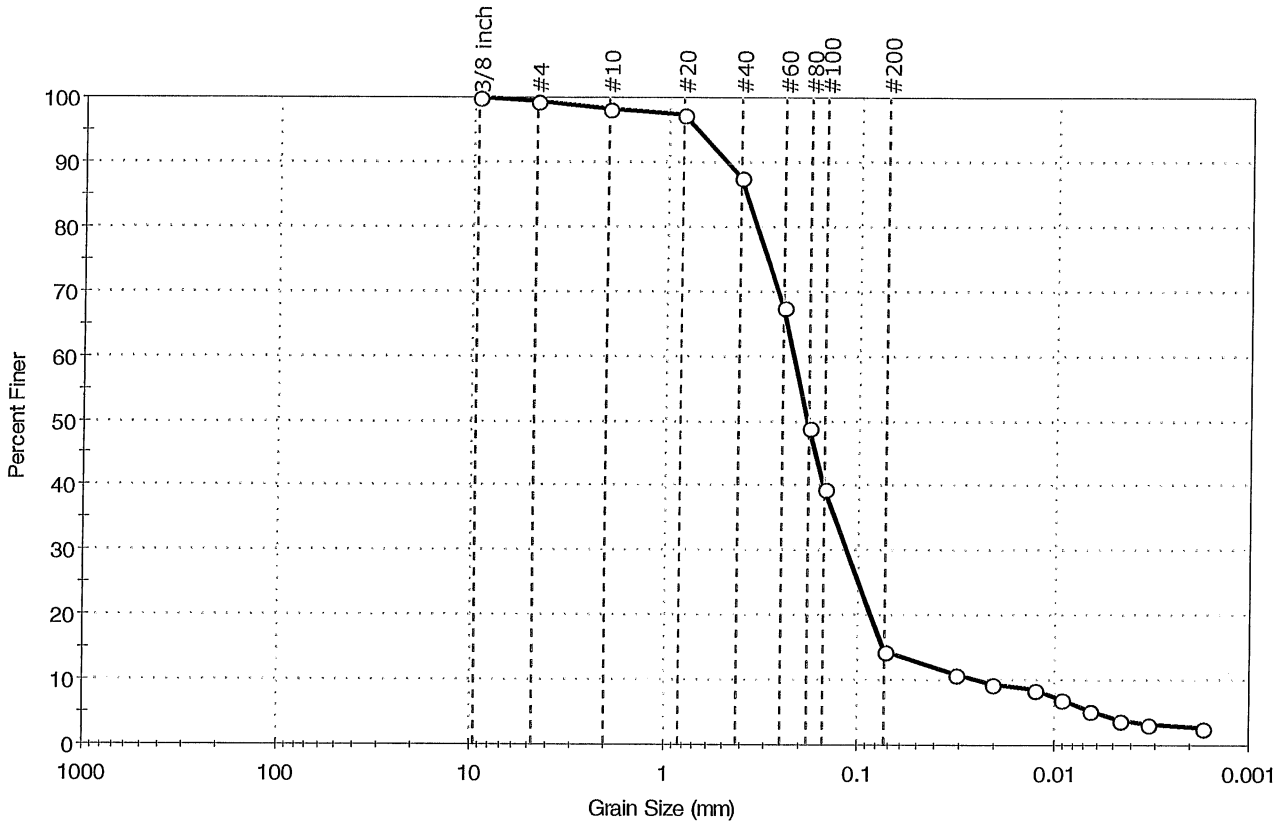
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates				
Project:	GVP				
Location:	Endicott, NY			Project No:	GTX-6513
Boring ID:	06-36	Sample Type:	bag	Tested By:	pcs
Sample ID:	S-8	Test Date:	03/07/06	Checked By:	jdt
Depth :	---	Test Id:	86452		
Test Comment:	---				
Sample Description:	Moist, dark brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.7	84.9	14.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	99		
#10	2.00	98		
#20	0.84	97		
#40	0.42	87		
#60	0.25	67		
#80	0.18	49		
#100	0.15	40		
#200	0.074	14		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0316	11		
---	0.0209	9		
---	0.0127	9		
---	0.0092	7		
---	0.0066	5		
---	0.0047	4		
---	0.0033	3		
---	0.0017	3		

Coefficients

D_{85} = 0.3939 mm D_{30} = 0.1141 mm
D_{60} = 0.2190 mm D_{15} = 0.0753 mm
D_{50} = 0.1832 mm D_{10} = 0.0251 mm
C_u = 8.725 C_c = 2.368

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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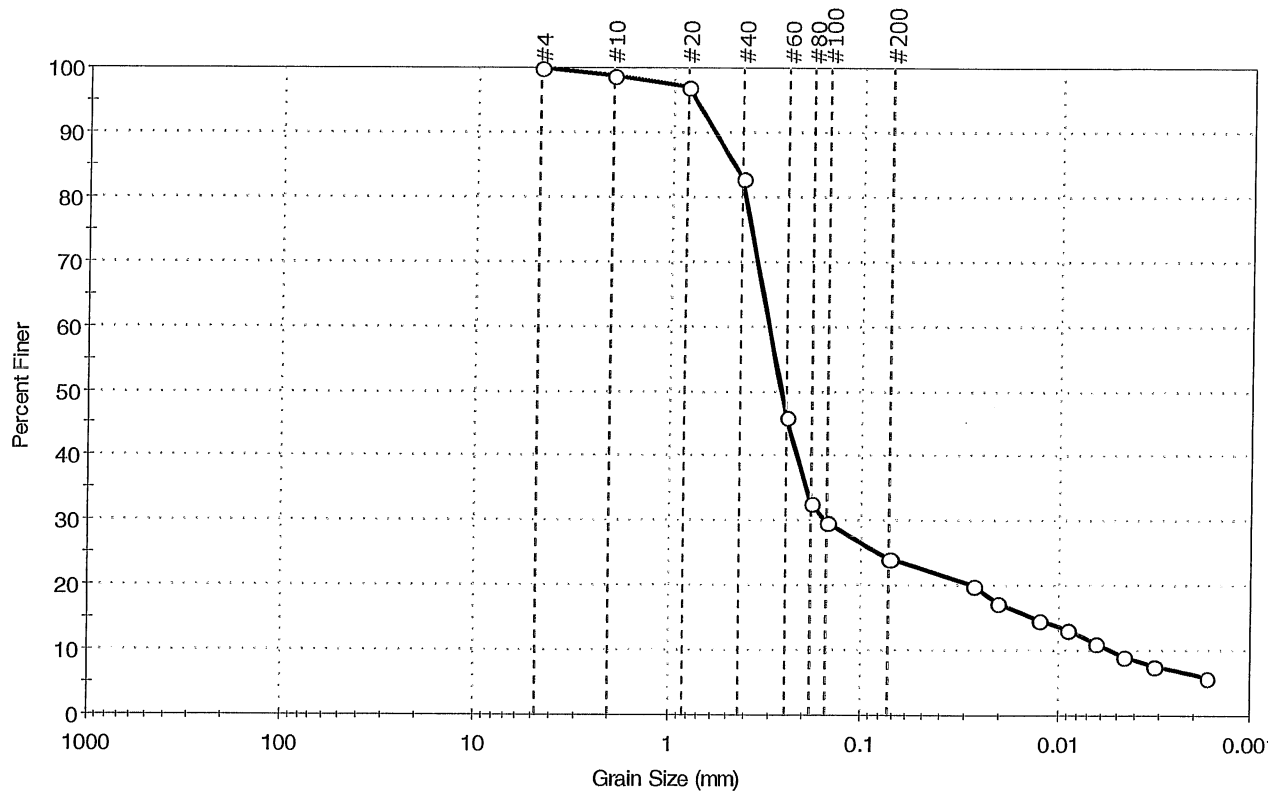
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-8A	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86453		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.1	75.6	24.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.84	97		
#40	0.42	83		
#60	0.25	46		
#80	0.18	33		
#100	0.15	30		
#200	0.074	24		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0277	20		
---	0.0205	17		
---	0.0124	15		
---	0.0090	13		
---	0.0064	11		
---	0.0046	9		
---	0.0032	8		
---	0.0017	6		

Coefficients

D_{85}=0.4681 mm D_{30}=0.1496 mm
D_{60}=0.3054 mm D_{15}=0.0133 mm
D_{50}=0.2645 mm D_{10}=0.0053 mm
C_u =57.623 C_c =13.827

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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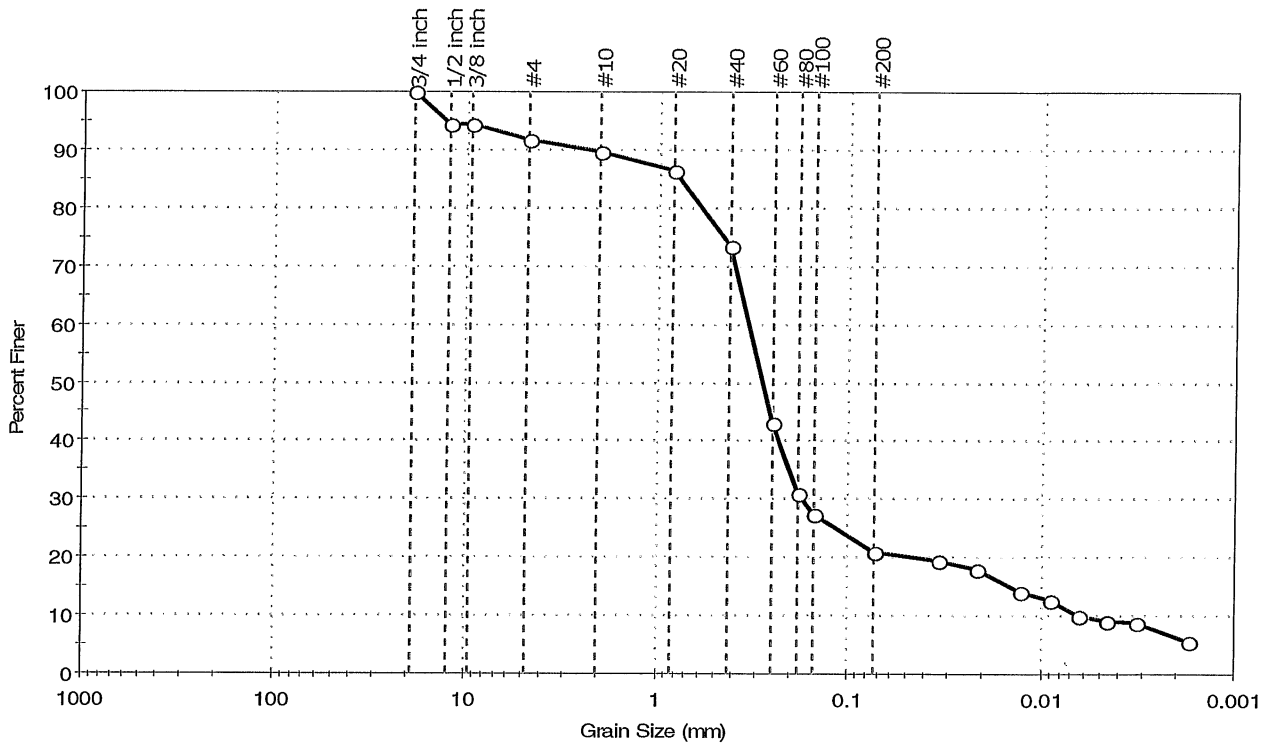
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-9	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86454		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	8.2	70.8	21.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 inch	19.00	100		
1/2 inch	12.50	94		
3/8 inch	9.50	94		
#4	4.75	92		
#10	2.00	90		
#20	0.84	86		
#40	0.42	73		
#60	0.25	43		
#80	0.18	31		
#100	0.15	28		
#200	0.074	21		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0339	19		
---	0.0220	18		
---	0.0128	14		
---	0.0091	13		
---	0.0065	10		
---	0.0046	9		
---	0.0032	9		
---	0.0017	6		

Coefficients

D_{85} = 0.7770 mm D_{30} = 0.1699 mm
D_{60} = 0.3341 mm D_{15} = 0.0142 mm
D_{50} = 0.2818 mm D_{10} = 0.0066 mm
C_u = 50.621 C_c = 13.091

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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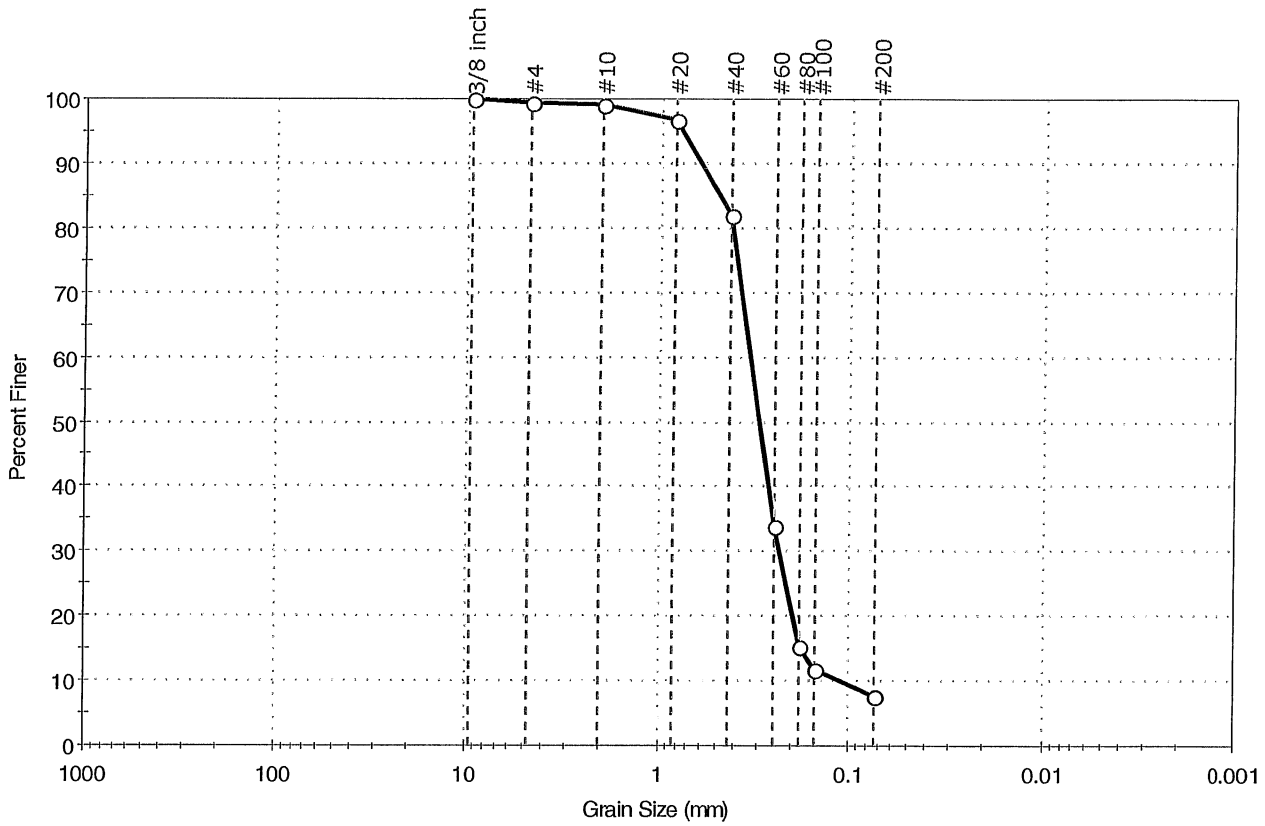
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-10	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86473		
Test Comment:	Less than 10% fines, Hydrometer not required		
Sample Description:	Moist, dark brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.6	91.8	7.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	99		
#10	2.00	99		
#20	0.84	97		
#40	0.42	82		
#60	0.25	34		
#80	0.18	15		
#100	0.15	12		
#200	0.074	8		

Coefficients

D_{85} = 0.4889 mm D_{30} = 0.2331 mm
D_{60} = 0.3334 mm D_{15} = 0.1766 mm
D_{50} = 0.2985 mm D_{10} = 0.1110 mm
C_u = 3.004 C_c = 1.468

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD
Dispersion Device :
Dispersion Period : 1 minute
Specific Gravity : 2.65

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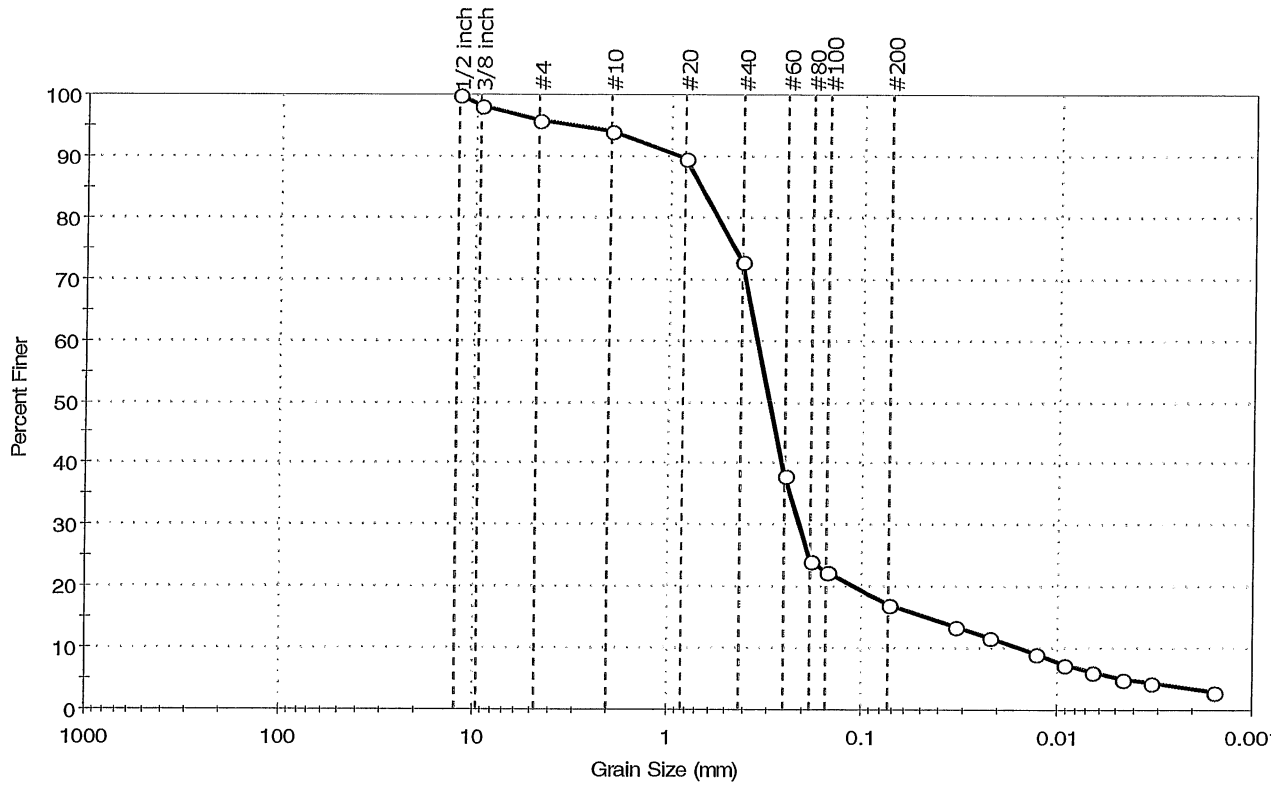
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-11	Test Date: 03/06/06	Checked By:	jdt
Depth : ---	Test Id: 86474		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	4.1	78.9	17.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 inch	12.50	100		
3/8 inch	9.50	98		
#4	4.75	96		
#10	2.00	94		
#20	0.84	90		
#40	0.42	73		
#60	0.25	38		
#80	0.18	24		
#100	0.15	22		
#200	0.074	17		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0334	14		
---	0.0221	12		
---	0.0127	9		
---	0.0091	7		
---	0.0065	6		
---	0.0046	5		
---	0.0033	4		
---	0.0016	3		

Coefficients

D_{85} = 0.6915 mm D_{30} = 0.2063 mm
D_{60} = 0.3471 mm D_{15} = 0.0467 mm
D_{50} = 0.2989 mm D_{10} = 0.0151 mm
C_u = 22.987 C_c = 8.120

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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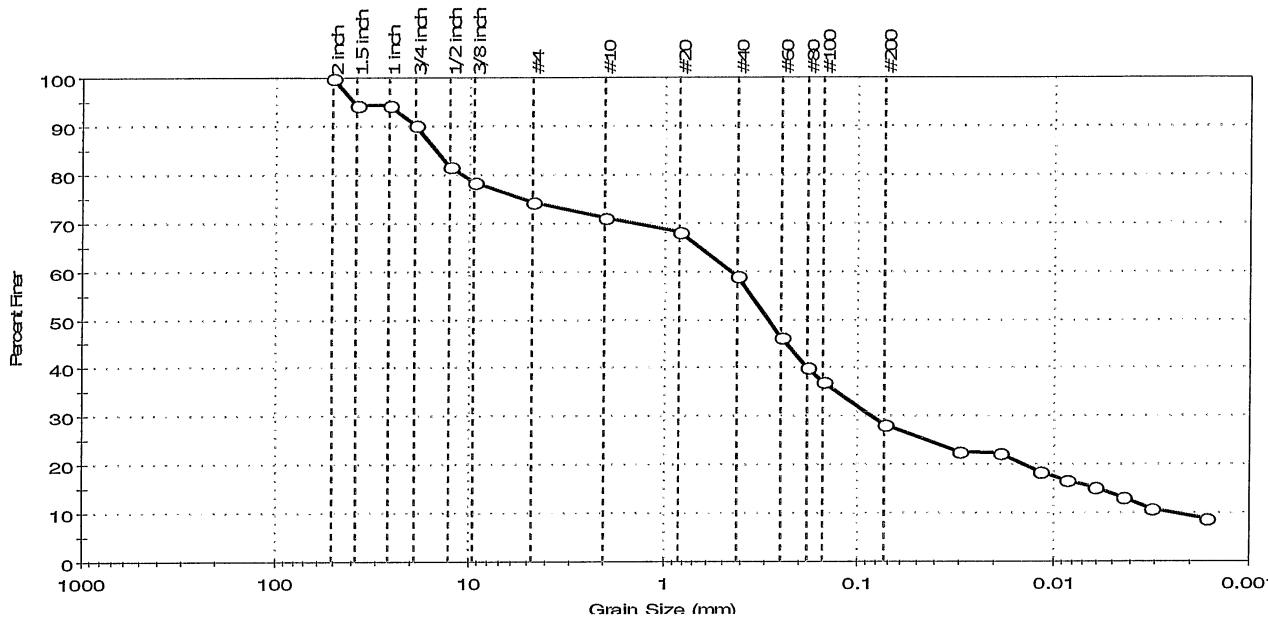
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Sanborn, Head & Associates		
Project:	GVP		
Location:	Endicott, NY	Project No:	GTX-6513
Boring ID: 06-36	Sample Type: bag	Tested By:	pcs
Sample ID:S-12	Test Date: 03/07/06	Checked By:	jdt
Depth : ---	Test Id: 86475		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	25.6	46.1	28.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 Inch	50.80	100		
1.5 Inch	38.10	94		
1 Inch	25.70	94		
3/4 Inch	19.00	90		
1/2 Inch	12.70	82		
3/8 Inch	9.51	78		
#4	4.75	74		
#10	2.00	71		
#20	0.84	68		
#40	0.42	59		
#60	0.25	46		
#80	0.18	40		
#100	0.15	37		
#200	0.074	28		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0300	23		
---	0.0188	22		
---	0.0117	19		
---	0.0086	17		
---	0.0061	15		
---	0.0044	13		
---	0.0031	11		
---	0.0016	9		

Coefficients

D_{85} = 14.8254 mm D_{30} = 0.0843 mm
D_{60} = 0.4554 mm D_{15} = 0.0059 mm
D_{50} = 0.2901 mm D_{10} = 0.0024 mm
C_u = 189.750 C_c = 6.502

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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APPENDIX D

DATA USABILITY ASSESSMENT

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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: 0512425A

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. NC.R

Date: January 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. Samples EN0420S121405 and EN0420I121405 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. In addition, samples EN0416D121405, EN0417D121405, EN0533I21121405, and EN0533I29121405 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 six samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

Sample EN0416S121405 was inadvertently pressurized to 7 psi rather than 5 psi by the laboratory prior to analysis (as noted in the project narrative). The laboratory correctly adjusted the sample RLs to account for this; therefore, no action was required except to note this sample handling anomaly.

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: 12/14/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425A
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	✓	✓	✓	✓	✓	✓	✓	6 samples
Except:								DF>2

Comments: All Canister field + lab receipt vacuums OK + there were no COC issues noted.

Samples were all analyzed within 14 days of collection → HT met - No Action

ICAL = Instrument 5 on 12/23/05 - 6-level ICAL for all 11 Targets from 0.5 → 200 ppbV - %RSD all < 30% → Valid ICAL

CCAL: 5122702 - %Rec 70-130% → All OK - No Action

Date 1/19/06

Data Reviewer [illegible]

New Environmental Horizons, Inc.

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

Lab: Air Toxics Ltd.
Date Sampled: 12/14/05

Work Order #: 0512425A
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5122707
EB: EBSC65121405 (W.O. # 0512425D) } 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 1/19/06	

Date 1/19/06

Data Reviewer MJC.RK

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

Lab: Air Toxics Ltd.
Date Sampled: 12/14/05

Work Order #: 0512425A
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tunes: 2 (1ICAL + 1CCAL): All Abundances OK => No Action

All 3 Surrogate % Rec + 3 IS Areas / RTs were in criteria for all Smpls + QC => No Action Required.

LCS/LCSD : 5122703 / 5122704 - % Rec + RPDs all OK => No Action

LD performed on EN0417D121405 - Smpl/LD shown at the bottom of page 4 - LD precision was acceptable for all 4 detected VOCs => No action required - ~~EN~~ 1/19/06 LD precision OK.

2 FD pairs: 1) EN0418S121405 + DU2204121405 shown at the top of page 4 — FD precision could not be assessed for these Smpls since all results were ND - No Action required.
2) EN0421S121405 + DU2137121405 shown at the top of page 4A - All Results either ND or < 5xRL => Unable to assess FD precision for these data — No Action required.

There were no "J" data reported for samples. Narrative indicated that smpl EN0416S121405 was inadvertently pressurized to 7 psi rather than 5 psi prior to analysis. RLs were adjusted by lab properly => No action required.

All RLs were ≤ expected RLs (Table 2 of Soil Vapor Monitoring Plan) (i.e. DF ≤ 2) except: EN0416D121405 (DF = 8.92), EN0417D121405 (DF = 12.2), EN0533I21121405 (DF = 6.44) + EN0533I29121405 (DF = 10.9) due to dilutions made at instrument to ensure all results within range; and EN0420S121405 (DF = 2.18) + EN0420I121405 (DF = 2.15) due to secondary repressurization of ~~the~~ new canisters since initial analysis was not acceptable

The database was unchanged as a consequence of this review.

Date 1/19/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 12/14/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425A
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0418S121405 FD = DU2204121405

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		2.2	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	3.3	3.3	U	RL		3.4	U	RL	NA	None
Freon 113	76-13-1	6.4	6.4	U	RL		6.6	U	RL	NA	None
Methylene Chloride	75-09-2	2.9	2.9	U	RL		3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.4	3.4	U	RL		3.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.3	3.3	U	RL		3.4	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.6	4.6	U	RL		4.7	U	RL	NA	None
Trichloroethene	79-01-6	4.5	4.5	U	RL		4.6	U	RL	NA	None
Tetrachloroethene	127-18-4	5.7	5.7	U	RL		5.8	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.3	3.3	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 (1.71/1.68)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0417D121405

Analyte Name	CAS No.	DF= 12.2 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	16	16	U	RL		16	U	RL	NA	None
Chloroethane	75-00-3	16	16	U	RL		16	U	RL	NA	None
1,1-Dichloroethene	75-35-4	24	26		>RL but < 5xRL		24		>RL but < 5xRL	8.0	None
Freon 113	76-13-1	47	47	U	RL		47	U	RL	NA	None
Methylene Chloride	75-09-2	21	21	U	RL		21	U	RL	NA	None
1,1-Dichloroethane	75-34-3	25	25	U	RL		25	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	24	130		> 5 x RL		120		> 5 x RL	8.0	None
1,1,1-Trichloroethane	71-55-6	33	500		> 5 x RL		480		> 5 x RL	4.1	None
Trichloroethene	79-01-6	33	7900		> 5 x RL		7600		> 5 x RL	3.9	None
Tetrachloroethene	127-18-4	41	41	U	RL		41	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	24	24	U	RL		24	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 1/19/06

Data Reviewer MJC. RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 12/14/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425A
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0421S121405 FD = DU2137121405

Analyte Name	CAS No.	DF= 1.58* RL (µg/m^3)	Sample µg/m^3	Q	Sample Result Level		FD µg/m^3	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	2	2	U	RL		2	U	RL	NA	None
Chloroethane	75-00-3	2.1	2.1	U	RL		2.1	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.1	3.1	U	RL		3.1	U	RL	NA	None
Freon 113	76-13-1	6	6	U	RL		6	U	RL	NA	None
Methylene Chloride	75-09-2	2.7	2.7	U	RL		2.7	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.2	3.2	U	RL		3.2	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.1	3.1	U	RL		3.1	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.3	4.3	U	RL		4.3	U	RL	NA	None
Trichloroethene	79-01-6	4.2	4.6		>RL but < 5xRL		4.2	U	RL	NA	None
Tetrachloroethene	127-18-4	5.4	5.4	U	RL		5.4	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.1	3.1	U	RL		3.1	U	RL	NA	None

*This is the sample and FD DF and RLs

Date 1/19/06

Data Reviewer [illegible]

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 1/19/06

Data Reviewer [signature]

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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: 0512425B

Number of Samples: 17 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. NCR

Date: January 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. Samples EN0422D121505 and EN0432D121205 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.

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
EN0422S121505	0512425B-21A	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: 12/12 + 12/15/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425B
No. Samples 16 + 1FD

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	Accept 1"J"
Except:								2DF>2

Comments: All Canister field + lab receipt vacuums were acceptable => No Action - No COC issue noted either.

Samples were analyzed within 10 days of collection => HT met - No Action

ICAL = Instrument 5 on 12/21/05 - All 11 Targets had %RSD < 30% + levels analyzed as required - No Action
Instrument 5 on 11/28 - 12/05/05 - All Targets had %RSD < 30% + levels as requested => No Action

Date 1/19/06

Data Reviewer [signature]

New Environmental Horizons, Inc.

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

Lab: Air Toxics Ltd.
Date Sampled: 12/12 + 12/15/05

Work Order #: 0512425B
No. Samples 16 + 1 FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5122120 + 5122206
EB: EBSC8412120 5 + EB9461121505 (both reported in 0512425D)
All Targets ND

Blank ID	Contaminant / Level (µg/m³)		Action Level DF=		Sample and reported result (µg/m³)	Corrected Database Result
					No Blank	
					Action Required	
					NEH 1/19/06	

Date _____

Data Reviewer _____

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

Lab: Air Toxics Ltd.
Date Sampled: 12/12 + 12/15/05

Work Order #: 0512425B
No. Samples 16 + 1 FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

CCALs: 5122202 + 5122111a - %Rec OK for both => No Action
BFB Tune: Inst. 5 - 4 (3 ICAL + 1 CCA) + Inst. 5 - 2 (1 ICAL + 1 CCAL) - All Abundances OK => No Action

3 Surrogates %Rec + 3 IS Area/RTs OK (note - Inst. 5 IS' on same form as Inst. 5) - No Action
LCS/LCSD: 5122119/5122117 + 5122203/5122205 - %Rec + RPDs all OK

2 LDs with W.O. 1) EN0422D121505 Sample/LD shown at the bottom of page 4 - LD precision was acceptable for all 4 non-1,1,1-TCE detected VOCs => No Action Required.
2) EN0432D121205 Sample/LD shown at the top of page 4A - LD precision OK for both VOCs detected => No Action required.

FD pair = EN0432S121205 + DU9332121205 shown at the top of page 4 - FD precision was acceptable for 2 detected VOCs in these Samples => No action required.

EN0422S121505 reported a "J" value for 1,1-Dichloroethane - This J was accepted with Indeterminate bias due to reporting at level below calibration range (i.e. Result ≤ RL).

All RLs ≤ expected RLs (i.e. DF ≤ 2) except: EN0422D121505 (DF = 6.84) + EN0432D121205 (DF = 6.08) due to dilutions made at instrument level to ensure all detects within calibration range.

Narrative did not raise any additional issues.

Date 1/19/06

Data Reviewer [signature]

New Environmental Horizons, Inc.

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 12/12/05 & 12/15/05
Method of Analysis: TO-15 Full Scan

Work Order #: 052425B
No. Samples 16 + 1FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0432S121205 FD = DU9332121205

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		2.1	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	3.4	3.4	U	RL		3.3	U	RL	NA	None
Freon 113	76-13-1	6.6	6.6	U	RL		6.4	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL		2.9	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL		3.4	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.4	3.4	U	RL		3.3	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.7	21		>RL but < 5xRL		20		>RL but < 5xRL	4.9	None
Trichloroethene	79-01-6	4.6	810		> 5 x RL		820		> 5 x RL	1.2	None
Tetrachloroethene	127-18-4	5.8	5.8	U	RL		5.7	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.4	3.4	U	RL		3.3	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.68 and RLs are RLs shown x (1.68/1.71)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0422D121505

Analyte Name	CAS No.	DF= 6.84 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	8.7	8.7	U	RL		8.7	U	RL	NA	None
Chloroethane	75-00-3	9	9	U	RL		9	U	RL	NA	None
1,1-Dichloroethene	75-35-4	14	14	U	RL		14	U	RL	NA	None
Freon 113	76-13-1	26	26	U	RL		26	U	RL	NA	None
Methylene Chloride	75-09-2	12	12	U	RL		12	U	RL	NA	None
1,1-Dichloroethane	75-34-3	14	14	U	RL		14	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	14	3400		> 5 x RL		3300		> 5 x RL	3.0	None
1,1,1-Trichloroethane	71-55-6	19	68		>RL but < 5xRL		64		>RL but < 5xRL	6.1	None
Trichloroethene	79-01-6	18	870		> 5 x RL		890		> 5 x RL	2.3	None
Tetrachloroethene	127-18-4	23	23	U	RL		23	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	14	70		> 5 x RL		66		> 5 x RL	5.9	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 1/19/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 12/12/05 & 12/15/05
Method of Analysis: TO-15 Full Scan

Work Order #: 052425B
No. Samples 16 + 1FD

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0432D121205

Analyte Name	CAS No.	DF= 6.08 RL (µg/m^3)	Sample µg/m^3	Q	Sample Result Level		LD µg/m^3	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	7.8	7.8	U	RL		7.8	U	RL	NA	None
Chloroethane	75-00-3	8	8	U	RL		8	U	RL	NA	None
1,1-Dichloroethene	75-35-4	12	12	U	RL		12	U	RL	NA	None
Freon 113	76-13-1	23	23	U	RL		23	U	RL	NA	None
Methylene Chloride	75-09-2	10	10	U	RL		10	U	RL	NA	None
1,1-Dichloroethane	75-34-3	12	12	U	RL		12	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	12	12	U	RL		12	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	16	98		> 5 x RL		87		> 5 x RL	11.9	None
Trichloroethene	79-01-6	16	3200		> 5 x RL		3200		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	21	21	U	RL		21	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	12	12	U	RL		12	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 1/19/06

Data Reviewer [signature]

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 1/19/06

Data Reviewer [illegible]

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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: 0512425C

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. NC. R

Date: January 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. Samples EN0429D121305, EN0411D121305, EN0533D121405, EN047D121305, and DU2064121305 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 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 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
EN047D121305	0512425C-52A	Trichloroethene	J	I	FD imprecision
DU2064121305	0512425C-53A	Trichloroethene	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 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: 12/12 - 12/14/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425C
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	✓	✓	✓	✓	✓	✓		DF>2
Except:								for 5
EN047D121305 +						J	J	Sample
DU2064121305						TCE	TCE	
						NCM 1/19/06		

Comments: All Canister field + lab receipt vacuums were OK + there were no COC issues noted => No Action Required.

Samples were all analyzed within 11 days of Collection => HT met - No Action

ICAL - Inst. S 11/28 - 12/05/05 - All 11 Targets 90RSD<30% + level analyzed as required - No Action
CCALs: S122202 + S122302 - 90Rec all OK => No Action
BFB Tun: 6 (4 ICAL + 2 CCAL): Abundances all OK => No Action

Date 1/19/06

Data Reviewer [signature]

New Environmental Horizons, Inc.

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

Lab: Air Toxics Ltd.
Date Sampled: 12/12 - 12/14/05

Work Order #: 0512425C
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MBs: S122206 + S122305
EBs: EBSC84121205, EBSC51121305 + EBSC65121405 (all reported in 0512425D) 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 NMC 1/19/06	

Date 1/19/06

Data Reviewer NMC. RM

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

Lab: Air Toxics Ltd.
Date Sampled: 12/12-12/14/05

Work Order #: 0512425C
No. Samples 18 + 2 FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

3 Surrogates %Rec + 3 IS Area / RTs were in criteria for all Smpls + QC => No Action
LCS/LCSD: S122203/S122205 + S122303/S122304 - %Rec + RPD all OK => No Action Required.

2 LDs 1) EN043D121205 Smpl/LD shown at the bottom of page 4 - LD precision was not able to be evaluated since all results non-detect => No Action
2) EN0533D121405 Smpl/LD at the bottom of page 4A - LD precision OK for all 4 detected VOCs - not cis-1,2-dichloroethene RPD 25% but since both results < 5xRL, no action required.

2 FDs: 1) EN043S121205 + DU34641121205 shown at the top of page 4 - All Results were ND => unable to assess FD precision - No Action

2) EN047D121305 + DU20641213 05 shown at the top of page 4A - FD precision was acceptable for 4 out of 5 detected VOCs - FD precision (RPD) > 30% for Trichloroethene with both Smpls reporting Results > 5xRL

*Action: Trichloroethene estimated (J) in this FD pair with Indeterminate bias due to imprecision observed.

No "J" data reported + Narrative did not raise any issues.

RLs were ≤ expected RLs (i.e. DF ≤ 2) except: EN0429D121305 (DF=9.21), EN0411D121305 (DF=2.26) EN0533D121405 (DF=10.7), EN047D121305 (DF=5.37) + DU20641213 05 (DF=3.74) due to dilutions made at instrument to ensure all results reported within calibration range

Date 1/19/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 12/12/05 - 12/14/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425C
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN043S121205 FD = DU34641121205

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		2.3	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	3.3	3.3	U	RL		3.6	U	RL	NA	None
Freon 113	76-13-1	6.4	6.4	U	RL		7	U	RL	NA	None
Methylene Chloride	75-09-2	2.9	2.9	U	RL		3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.4	3.4	U	RL		3.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.3	3.3	U	RL		3.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.6	4.6	U	RL		5	U	RL	NA	None
Trichloroethene	79-01-6	4.5	4.5	U	RL		4.9	U	RL	NA	None
Tetrachloroethene	127-18-4	5.7	5.7	U	RL		6.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.3	3.3	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 (1.83/1.68)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN043D121205

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		2.1	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	3.2	U	RL		3.2	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.5	4.5	U	RL		4.5	U	RL	NA	None
Trichloroethene	79-01-6	4.4	4.4	U	RL		4.4	U	RL	NA	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

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 1/19/06

Data Reviewer MJC RK

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 12/12/05 - 12/14/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425C
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN047D121305 FD = DU2064121305

Analyte Name	CAS No.	DF= 5.37* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	6.9	6.9	U	RL		4.8	U	RL	NA	None
Chloroethane	75-00-3	7.1	7.1	U	RL		4.9	U	RL	NA	None
1,1-Dichloroethene	75-35-4	11	31		>RL but < 5xRL		25		>RL but < 5xRL	21.4	None
Freon 113	76-13-1	20	20	U	RL		14	U	RL	NA	None
Methylene Chloride	75-09-2	9.3	9.3	U	RL		6.5	U	RL	NA	None
1,1-Dichloroethane	75-34-3	11	11		RL		8.3		>RL but < 5xRL	28.0	None
cis-1,2-Dichloroethene	156-59-2	11	51		>RL but < 5xRL		38		>RL but < 5xRL	29.2	None
1,1,1-Trichloroethane	71-55-6	15	340		> 5 x RL		260		> 5 x RL	26.7	None
Trichloroethene	79-01-6	14	3800		> 5 x RL		2800		> 5 x RL	30.3	J Both
Tetrachloroethene	127-18-4	18	18	U	RL		13	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	11	11	U	RL		7.4	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 3.74 and RLs are RLs shown x (3.74/5.37)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0533D121405

Analyte Name	CAS No.	DF= 10.7 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	14	14	U	RL		14	U	RL	NA	None
Chloroethane	75-00-3	14	14	U	RL		14	U	RL	NA	None
1,1-Dichloroethene	75-35-4	21	21	U	RL		21	U	RL	NA	None
Freon 113	76-13-1	41	41	U	RL		41	U	RL	NA	None
Methylene Chloride	75-09-2	18	18	U	RL		18	U	RL	NA	None
1,1-Dichloroethane	75-34-3	22	22	U	RL		22	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	21	45		>RL but < 5xRL		35		>RL but < 5xRL	25.0	None
1,1,1-Trichloroethane	71-55-6	29	500		> 5 x RL		400		> 5 x RL	22.2	None
Trichloroethene	79-01-6	29	6600		> 5 x RL		5300		> 5 x RL	21.8	None
Tetrachloroethene	127-18-4	36	280		> 5 x RL		220		> 5 x RL	24.0	None
trans-1,2-Dichloroethene	156-60-5	21	21	U	RL		21	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 1/9/06

Data Reviewer [signature]

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 1/19/06

Data Reviewer [illegible]

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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: 0512425D

Number of Samples: 10 soil vapor samples + 4 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: January 20, 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 EN0410D121505 and EN0412D121305 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.

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
EN0426S121305	0512425D-62A	1,1,1-Trichloroethane	J	I	FD imprecision
EN0426S121305	0512425D-62A	Trichloroethene	J	I	FD imprecision
DUSC87121305	0512425D-63A	1,1,1-Trichloroethane	J	I	FD imprecision
DUSC87121305	0512425D-63A	Trichloroethene	J	I	FD imprecision
EN0414D121305	0512425D-67A	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: 12/12-12/15/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425D
No. Samples 9 + 1 FD + 4 EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	DF>2 for 2 samples
Except:								
EN0426S121305 +							J TCE + TCA	
DUSC87121305								
EN0414D121305								J TCE

Comments: All Canister vacuums in the field + upon receipt at the lab were acceptable + there were no COC issues noted => No Action.

HT - All Samples except EN0414D121305 Duplicate were analyzed within 14 days of collection - No Action since this LD will not be reported in the validated database => No Action

ICAL - Instrument 5 on 11/28 - 12/05/05 - 11 Targets had % RSDs < 30% + blanks analyzed as required => No Action

Date 1/20/06

Data Reviewer [signature]

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

Lab: Air Toxics Ltd.
Date Sampled: 12/12-12/15/05

Work Order #: 0512425D
No. Samples 9 + 1FD + 4EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5122305 + 5122708
EBs: EBSC4121205, EBSC5121305, EBSC6512140 5 + EB9461121505 } 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.
NCR 1/20/06

Date 1/20/06

Data Reviewer MJC. RR

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

Lab: Air Toxics Ltd.
Date Sampled: 12/12 - 12/15/05

Method of Analysis: TO-15 Full Scan

Work Order #: 0512425D
No. Samples 9 + 1 FD + 4 EB

Additional Notes:

CCALs: S122302 + S122703 - % Rec OK => No Actn
BFB Tuns: 6 (4 ICAL + 2 CCAL): All Abundances OK => No Actn.

All 3 Surrogate % Rec + 3 IS Areas / RTs were in control for all Smpls + QC => No Actn.
LCS/LCSD: S122303 / S122304 + S122704 / S122705 - % Rec OK + RPDs all OK => No Actn

LD dup on EN0414D121305 - Smpl/LD shown at the bottom of page 4 - LD precision OK for all 3 detected VOCs => No Actn

FD pair = EN0426S121305 + DUSC87121305 - shown at the top of page 4 - FD precision was not acceptable (i.e., RPD > 30% for results > 5xRL) for both detected VOCs

* Actn: 1,1,1-Trichloroethane + Trichloroethene estimated (J) in the FD pair w/ Indeterminate Bias.

Trichloroethene in EN0414D121305 was reported at a level above the calibration range (flagged "E" by lab). This result was considered estimated (J) with Indeterminate bias due to Reporting of Level above range (note - LD within Range but out of HT gave comparable data).

There were no "J" data reported + narrative only mentioned EN0414D121305 LD outside of HT.

All RLs were ≤ Expected RLs (i.e. DF ≤ 2) except: EN0410D121505 (DF = 77.5) + EN0412D121305 (DF = 2.48) due to dilutions made at instrument level to ensure all results reported within range. Note EN0414D121305 should have been diluted; however, lab must have decided not to since dilution analysis would have been outside HT as it was for the Lab Dup.

Date 1/20/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 12/12/05 - 12/15/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425D
No. Samples 9 + 1FD + 4EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0426S121305 FD = DUSC87121305

Analyte Name	CAS No.	DF= 1.49* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	1.9	1.9	U	RL		2.3	U	RL	NA	None
Chloroethane	75-00-3	2	2	U	RL		2.4	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3	3	U	RL		3.6	U	RL	NA	None
Freon 113	76-13-1	5.7	5.7	U	RL		7	U	RL	NA	None
Methylene Chloride	75-09-2	2.6	2.6	U	RL		3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3	3	U	RL		3.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3	3	U	RL		3.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.1	41		> 5 x RL		61		> 5 x RL	39.2	J Both
Trichloroethene	79-01-6	4	410		> 5 x RL		610		> 5 x RL	39.2	J Both
Tetrachloroethene	127-18-4	5	5	U	RL		6.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3	3	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 (1.83/1.68)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0414D121305

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		7.3	U	RL	NA	None
Chloroethane	75-00-3	2.3	2.3	U	RL		7.5	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.5	3.5	U	RL		11	U	RL	NA	None
Freon 113	76-13-1	6.7	6.7	U	RL		22	U	RL	NA	None
Methylene Chloride	75-09-2	3	3	U	RL		9.9	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.5	3.5	U	RL		12	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.5	16		>RL but < 5xRL		18		>RL but < 5xRL	11.8	None
1,1,1-Trichloroethane	71-55-6	4.8	240		> 5 x RL		250		> 5 x RL	4.1	None
Trichloroethene	79-01-6	4.7	3600	E	> 5 x RL		4100		> 5 x RL	13.0	None
Tetrachloroethene	127-18-4	5.9	5.9	U	RL		19	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.5	3.5	U	RL		11	U	RL	NA	None

* The DF for the LD was 5.69

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 1/20/06

Data Reviewer [illegible]

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 1/20/06

Data Reviewer [illegible]

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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: 0512415E

Number of Samples: 10 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. NC.R

Date: January 20, 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 EN048D121505, EN049S121505, EN049D121505, DU31761121505, and EN0410S121505 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 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: 12/14 - 12/15/05
Method of Analysis: TO-15 Full Scan

Work Order #: 05124256
No. Samples 9 + 1 FD

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	✓	DF > 2
Except:								1-5
								single

Comments: All Canister field + lab receipt vacuums OK + no COC issues noted => No Actn

Samples were analyzed within 14 days of collection => HT met - No Actn

ICAL = Instrument S on 11/28 - 12/05/05 - 11 Targets all had %RSD ≤ 30% + 1 subs analyzed as required.
CCAL : 5122802 - %Rec all OK => No Actn
BFB Tune : 5 (4 ICAL + 1 CCAL) : All Abundances OK => No Actn

Date 1/20/06

Data Reviewer [illegible]

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

Lab: Air Toxics Ltd.
Date Sampled: 12/14 - 12/15/05

Work Order #: 0512425E
No. Samples 9 + 1 FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: S122809a
EB: EBSC65121405 & EB9461121505 (W.O. # 0512425D) } 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. NMR 1/20/06	

Date 1/20/06

Data Reviewer [illegible]

New Environmental Horizons, Inc.

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

Lab: Air Toxics Ltd.
Date Sampled: ~~12/14~~ NM 1/20/06 12/14-12/15/05

Work Order #: 0512425E
No. Samples 9 + 1FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

3 Surrogate %Rec + 3 IS Areas / RTs were in criteria in all smpls + QC => No Action required.

LCS/LCSD = 5122803 / 5122804 - %Rec + RPD all OK => No Action Required.

LD done on EN049D121505 - Smpl/LD shown at the bottom of page 4. LD precision was acceptable for all 7 detected VOCs => No Action required.

FD pair: EN048D121505 + DU31761121505 - shown at the top of page 4. FD precision was acceptable for all 7 detected VOCs => No Action required.

There were no "J" or "E" data reported + narrative did not raise any issue.

All RLs were ≤ expected RLs (i.e. DF ≤ 2) except: EN048D121505 (DF = 9.24), EN049S121505 (DF = 4.62), EN049D121505 (DF = 41), DU31761121505 (DF = 8.96) + EN041S121505 (DF = 26.5) all due to dilutions made at instrument level to ensure all detects reported within the instrument calibration range.

The database was unchanged as a consequence of this review.

Date 1/20/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 12/14/05 - 12/15/05
Method of Analysis: TO-15 Full Scan

Work Order #: 0512425E
No. Samples 9 + 1FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN048D121505 FD = DU31761121505

Analyte Name	CAS No.	DF= 9.24* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	12	12	U	RL		11	U	RL	NA	None
Chloroethane	75-00-3	12	12	U	RL		12	U	RL	NA	None
1,1-Dichloroethene	75-35-4	18	110		> 5 x RL		100		> 5 x RL	9.5	None
Freon 113	76-13-1	35	74		>RL but < 5xRL		75		>RL but < 5xRL	1.3	None
Methylene Chloride	75-09-2	16	16	U	RL		16	U	RL	NA	None
1,1-Dichloroethane	75-34-3	19	360		> 5 x RL		370		> 5 x RL	2.7	None
cis-1,2-Dichloroethene	156-59-2	18	180		> 5 x RL		170		> 5 x RL	5.7	None
1,1,1-Trichloroethane	71-55-6	25	2100		> 5 x RL		2000		> 5 x RL	4.9	None
Trichloroethene	79-01-6	25	5600		> 5 x RL		5400		> 5 x RL	3.6	None
Tetrachloroethene	127-18-4	31	320		> 5 x RL		320		> 5 x RL	0.0	None
trans-1,2-Dichloroethene	156-60-5	18	18	U	RL		18	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 8.96 and RLs are RLs shown x (8.96/9.24)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN049D121505

Analyte Name	CAS No.	DF= 41 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	52	52	U	RL		52	U	RL	NA	None
Chloroethane	75-00-3	54	54	U	RL		54	U	RL	NA	None
1,1-Dichloroethene	75-35-4	81	4300		> 5 x RL		3800		> 5 x RL	12.3	None
Freon 113	76-13-1	160	400		>RL but < 5xRL		360		>RL but < 5xRL	10.5	None
Methylene Chloride	75-09-2	71	71	U	RL		71	U	RL	NA	None
1,1-Dichloroethane	75-34-3	83	3000		> 5 x RL		2600		> 5 x RL	14.3	None
cis-1,2-Dichloroethene	156-59-2	81	6500		> 5 x RL		5600		> 5 x RL	14.9	None
1,1,1-Trichloroethane	71-55-6	110	9400		> 5 x RL		8300		> 5 x RL	12.4	None
Trichloroethene	79-01-6	110	27000		> 5 x RL		23000		> 5 x RL	16.0	None
Tetrachloroethene	127-18-4	140	2200		> 5 x RL		1800		> 5 x RL	20.0	None
trans-1,2-Dichloroethene	156-60-5	81	81	U	RL		81	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 1/20/06

Data Reviewer [signature]

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 1/20/06

Data Reviewer [illegible]

RECEIVED MAR 3 2006

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: 0601542

Number of Samples: 8 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: February 16, 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 0611012606 was analyzed at a dilution to ensure that all of the results were reported within the linear range of the instrument calibration. As a consequence of the dilution made for analysis, several non-detected results in this one sample 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: 1/26/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0601542
No. Samples 8 + 1EB

	Canister Receipt	HT	GC/MS Tunes + Calibrations	Internal Stds + Surrogates	LCS	Lab Dup (LCS and LD)	Field Duplicates	RL & Quant.
All Results OK	✓	✓	✓	✓	✓	✓	NA	✓
Except:								
0611012606								DF=2.48

Comments: All Canister field + lab receipt vacuums were OK + there were no COC issues noted by the lab.
All Samples were analyzed within 7 days of collection => HT met. No Action
ICAL: Instrument i 1/17 - 1/24/06 - 6-level ICAL for 0.5 ppbv -> 200 ppbv + all 11 Targets had %RSD < 30% => Valid ICAL - No Action
CCAL: i013002 - %Rec all OK => No Action

Date 2/16/06

Data Reviewer [illegible]

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

Lab: Air Toxics Ltd.
Date Sampled: 1/26/06

Work Order #: 0601542
No. Samples 8 + 1 EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: i013006
EB - EB9487012606 > All 11 Target VOCs were ND

Blank ID	Contaminant / Level (µg/m³)		Action Level DF=		Sample and reported result (µg/m³)	Corrected Database Result
					No Blank Action Required.	
					NM 2/16/06	

Date 2/16/06

Data Reviewer NJC. RM

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

Lab: Air Toxics Ltd.
Date Sampled: 1/26/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0601542
No. Samples 8 + 1 EB

Additional Notes:

BFB Tunes: 4 - 3 ICAL + 1 CCAL - All Abundances OK - No Action.

All 3 Surrogate % Rec + 3 IS Area + RTs were in criteria for all samples + QC ⇒ No Action
LCS/LCSD: i013003 / i013004 - % Rec + RPDs are OK ⇒ No Action

2 sets of LDs done 1) 0611012606 Sample/LD shown at the bottom of page 4 - LD precision was acceptable for 1 detected VOC in this LD pair - No Action required

2) 0612AD012606 Sample/LD shown at the top of page 4A - LD precision was OK for all 5 detected VOCs ⇒ No Action required.

There were no Field Duplicates associated with the samples in this Work Order ⇒ unable to assess precision from the field through analysis.

There were no "J" data reported + all results were within range. The project narrative did not raise any issues.

All RLs were ≤ expected RLs given in Table 2 of the Soil Vapor Monitoring Plan except sample 0611012606 (DF = 2.48) due to dilution made at the instrument to ensure all results reported within range.

The database was unchanged as a consequence of this review.

Date 2/16/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 1/26/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0601542
No. Samples 8 + 1EB

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					NCR 2/16/06				
1,1,1-Trichloroethane	71-55-6									
Trichloroethene	79-01-6									
Tetrachloroethene	127-18-4									
trans-1,2-Dichloroethene	156-60-5									

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: 611012606

Analyte Name	CAS No.	DF= 2.48 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	4.3	U	RL	4.3	U	RL	NA	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	4.9	U	RL	4.9	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	6.8	6.8	U	RL	6.8	U	RL	NA	None
Trichloroethene	79-01-6	6.7	1600		> 5 x RL	1600		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	8.4	8.4	U	RL	8.4	U	RL	NA	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 2/16/06

Data Reviewer MJC.RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 1/26/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0601542
No. Samples 8 + 1EB

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: 0612AD012606

Analyte Name	CAS No.	DF= 1.55 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	U	RL	NA	None
Chloroethane	75-00-3	2	2	U	RL		2	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.1	5.2		>RL but < 5xRL		5.1		>RL but < 5xRL	1.9	None
Freon 113	76-13-1	5.9	5.9	U	RL		5.9	U	RL	NA	None
Methylene Chloride	75-09-2	2.7	2.7	U	RL		2.7	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.1	7.1		>RL but < 5xRL		6.8		>RL but < 5xRL	4.3	None
cis-1,2-Dichloroethene	156-59-2	3.1	18		> 5 x RL		18		> 5 x RL	0.0	None
1,1,1-Trichloroethane	71-55-6	4.2	600		> 5 x RL		590		> 5 x RL	1.7	None
Trichloroethene	79-01-6	4.2	490		> 5 x RL		500		> 5 x RL	2.0	None
Tetrachloroethene	127-18-4	5.2	5.2	U	RL		5.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.1	3.1	U	RL		3.1	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 2/16/06

Data Reviewer [illegible]

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 2/16/06

Data Reviewer [signature]

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: 0602391AR1

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: March 20, 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 EN041S021406, EN041D021406, EN0411S021406, EN0411D021406, EN0635S021506, EN0635I16021506, EN0635I24021506, and EN0635D021506 were initially pressurized and analyzed but required re-pressurization for a secondary analysis. In addition, samples EN0429D021406 and EN0411D021406 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 nine samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

Results were originally reported in Work Order 0602391A with the incorrect sample ID for EN0431D021406. The sample ID was corrected and the data report re-issued as Work Order 0602391AR1.

The Chain-of-custody (COC) for sample EN0635I24021506 misreported the identification number for the canister (COC indicated canister #31768 while the canister tag on this sample indicated the canister number was 31763). The laboratory used the canister number that appeared on the canister tag for reporting of results.

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: 2/14 - 2/15/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391AR1
No. Samples 17 + 3FD

	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 -	✓
Except:							All ND	9 samples
								DF>2

Comments: All Canister field & lab receipt vacuums were acceptable. The COC information for sample EN0635I24021506 did not match the canister tag with respect to canister identification (COC has canister # as 31768 but tag had 31763) - Canister tag of 31763 used to identify canister in project.
Work Order was reissued as 0602391AR1 to correct the original reporting of sample ID for sample EN0431D021406 (ID was mis-reported in original submission).
Samples were analyzed within 9 days of collection => HT met - No Action

Date 3/20/06

Data Reviewer [signature]

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

Lab: Air Toxics Ltd.
Date Sampled: 2/14-2/15/06

Work Order #: 0602391AR1
No. Samples 17 + 3FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5622306
EBs: EBSC4021406 (W.O. # 0602391CR1) + EB9366021506 (W.O. # 0602391E) } All 11 Targets are 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	
					3/20/06	

Date 3/20/06

Data Reviewer MC. RM

Lab: Air Toxics Ltd.
Date Sampled: 2/14-2/15/06

Work Order #: 0602391AR1
No. Samples 17 + 3FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

ICAL: Instrument 5 on 1/31-2/18/06 - 6-level ICAL for 0.5 → 200 ppbV for all 11 Targets - %RSD ≤ 30% ⇒ Valid ICAL
CCAL: 5022303 - %Rec all OK ⇒ No Action
BFB Tune: 3 - 2 ICAL + 1 CCAL - All Abundances OK ⇒ No Action

All 3 Surrogates %Rec + 3 IS Areas + RTs were OK ⇒ No Action required.
LCS/LCSD: 5022304 / 5022305 - %Rec + RPD all OK ⇒ No Action

2 LDs done: 1) Sample/LD for EN0435021406 shown at the bottom of page 4. Sample + LD were all ND ⇒ unable to assess LD precision - No Action
2) Sample/LD for EN0429D021406 shown at the bottom of page 4A. LD precision was acceptable for all 3 detected VOCs ⇒ No Action required

3 FD pairs 1) EN0435021406 + DU9476021406 shown at the top of page 4 2) EN0465021506 + DU3464802150 6 shown at the top of page 4A + 3) EN046D021506 + DU1843021506 shown at the top of page 4B. All results in these FD pairs were either ND + 1 result just above RL in 1 sample ⇒ unable to assess FD precision based on these results - No Action required.

No "J" data were reported + narrative did not raise any issues not already addressed.

RLs were ≤ reported RLs as shown in Table 2 of the Soil Vapor Monitoring Plan except for the following: EN0429D021406 (DF = 10.9) due to dilution made at instrument to ensure all results reported within calibration range; EN0415021406 (DF = 2.31), EN041D021406 (DF = 2.29), EN0411502140 6 (DF = 2.58), EN0635021506 (DF = 2.38), EN0635I16021506 (DF = 2.23), EN0635I24021506 (DF = 2.12) + EN0635D021506 (DF = 2.2) due to repressurization of canisters since initial analysis was unsuccessful; and EN0411D021406 (DF = 3.7) due to dilution at instrument + need for repressurization of the canister.

The database was unchanged as a consequence of this assessment.

Date 3/20/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/14/06 - 2/15/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391AR1
No. Samples 17 + 3FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN043S021406 FD = DU9476021406

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	U	RL	NA	None
Chloroethane	75-00-3	2.1	2.1	U	RL		2.1	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	6.2	6.2	U	RL		6.2	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	3.2	3.2	U	RL		3.2	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.2	3.2	U	RL		3.2	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.4	4.4	U	RL		4.4	U	RL	NA	None
Trichloroethene	79-01-6	4.3	4.3	U	RL		4.3	U	RL	NA	None
Tetrachloroethene	127-18-4	5.5	5.5	U	RL		5.5	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: EN043S021406

Analyte Name	CAS No.	DF= 1.61* 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		3	U	RL	NA	None
Chloroethane	75-00-3	2.1	2.1	U	RL		3.1	U	RL	NA	None
1,1-Dichloroethene	75-35-4	3.2	3.2	U	RL		4.6	U	RL	NA	None
Freon 113	76-13-1	6.2	6.2	U	RL		8.9	U	RL	NA	None
Methylene Chloride	75-09-2	2.8	2.8	U	RL		4	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.2	3.2	U	RL		4.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.2	3.2	U	RL		4.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.4	4.4	U	RL		6.3	U	RL	NA	None
Trichloroethene	79-01-6	4.3	4.3	U	RL		6.2	U	RL	NA	None
Tetrachloroethene	127-18-4	5.5	5.5	U	RL		7.9	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.2	3.2	U	RL		4.6	U	RL	NA	None

* The LD DF was 2.32
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 3/20/06

Data Reviewer MJC, RM

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/14/06 - 2/15/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391AR1
No. Samples 17 + 3FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN046S021506 FD = DU34648021506

Analyte Name	CAS No.	DF= 1.91* 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	3.8	3.8	U	RL		3.6	U	RL	NA	None
Freon 113	76-13-1	7.3	7.3	U	RL		7	U	RL	NA	None
Methylene Chloride	75-09-2	3.3	3.3	U	RL		3.2	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.9	3.9	U	RL		3.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.8	3.8	U	RL		3.6	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	5.2	5.2	U	RL		5	U	RL	NA	None
Trichloroethene	79-01-6	5.1	5.1	U	RL		4.9	U	RL	NA	None
Tetrachloroethene	127-18-4	6.5	6.5	U	RL		6.2	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	3.8	3.8	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 (1.83/1.91)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0429D021406

Analyte Name	CAS No.	DF= 10.9 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	14	14	U	RL		14	U	RL	NA	None
Chloroethane	75-00-3	14	14	U	RL		14	U	RL	NA	None
1,1-Dichloroethene	75-35-4	22	22	U	RL		22	U	RL	NA	None
Freon 113	76-13-1	42	42	U	RL		42	U	RL	NA	None
Methylene Chloride	75-09-2	19	19	U	RL		19	U	RL	NA	None
1,1-Dichloroethane	75-34-3	22	22	U	RL		22	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	22	46		>RL but < 5xRL		36		>RL but < 5xRL	24.4	None
1,1,1-Trichloroethane	71-55-6	30	680		> 5 x RL		660		> 5 x RL	3.0	None
Trichloroethene	79-01-6	29	7900		> 5 x RL		7500		> 5 x RL	5.2	None
Tetrachloroethene	127-18-4	37	37	U	RL		37	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	22	22	U	RL		22	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 3/20/06

Data Reviewer [illegible]

New Environmental Horizons, Inc.

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/14/06 - 2/15/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391AR1
No. Samples 17 + 3FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN046D021506 FD = DU11893021506

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		3.5	U	RL	NA	None
Freon 113	76-13-1	6.7	6.7	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	3.5	3.5	U	RL		3.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.8	4.8	U	RL		4.9	U	RL	NA	None
Trichloroethene	79-01-6	4.7	4.7	U	RL		4.8	U	RL	NA	None
Tetrachloroethene	127-18-4	5.9	5.9	U	RL		16		>RL but < 5xRL	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 1.79 and RLs are RLs shown x (1.79/1.75)

Date 3/20/06

Data Reviewer MCR

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 3/20/06

Data Reviewer [illegible]

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: 0602391B

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. N.C.R.

Date: March 20, 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 EN0417D021506, EN047D021506, DU2035021506, EN045D021506, and EN0419D021605 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 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: 2/15 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 06023918
No. Samples 19 + 1 FD

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

Comments: Canister field + lab receipt vacuums all OK + no COC issues noted.

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

ICAL = Instrument 8 on 2/22 - 2/23/06 - All 11 Targets had %RSD ≤ 30%, all had 6-level calibrations from 0.5 - 200 ppbv ⇒ ICAL supported RLs - ICAL Valid - No Action.
CCAL: 8022402 - %Rec all OK ⇒ No Action

Date 3/20/06

Data Reviewer MJC.RK

New Environmental Horizons, Inc.

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

Lab: Air Toxics Ltd.
Date Sampled: 2/15 - 2/16/06

Work Order #: 0602391B
No. Samples 19 + 1FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 8022408
EBs: EB9366021506 + EB94915021606 - both reports in W.O. # 0602391E

All 11 Targets ND

Blank ID	Contaminant / Level (µg/m³)		Action Level DF=		Sample and reported result (µg/m³)	Corrected Database Result
					No Blank Action	
					Required.	
					NCR to 3/20/06	

Date 3/20/06

Data Reviewer [signature] C. R/[illegible]

Lab: Air Toxics Ltd.
Date Sampled: 2/15 - 2/16/06

Work Order #: 0602391B
No. Samples 19 + 1 FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

Tunes: 3 (2 1ccal + 1 ccal) - All Abundances OK => No Action.

All 3 Surrogate %Rec + 3 IS Areas / RTs were OK for all Smpl + QC => No Action Required.
LCS/LCSD: 8022404 / 8022405 - %Rec + RPD all OK => No Action

LD performed on EN0417D021506 - Smpl/LD shown at the bottom of page 4. LD precision was acceptable for all 4 detected VOCs => No Action required.

FD pair: EN047D021506 + DU2035021506 - shown at the top of pg. 4. FD precision was OK for all 4-5 detected VOCs => No Action required.

There were no "J" data reported by lab + all results were in range.

The narrative did not raise any issues.

All RLs were ≤ expected RLs (i.e. DF <2) except: EN0417D021506 (DF=15), EN047D021506 (DF=9.6), DU2035021506 (DF=6.84), EN045D021506 (DF=4.56) and EN0419D021605 (DF=2.74), due to dilutions made at instrument level to ensure all results reported within the instrument calibration range.

The database was unchanged as a consequence of this review.

Date 3/20/06

Data Reviewer [illegible]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/15/06 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391B
No. Samples 19 + 1FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN047D021506 FD = DU2035021506

Analyte Name	CAS No.	DF= 9.6* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	12	12	U	RL		8.7	U	RL	NA	None
Chloroethane	75-00-3	13	13	U	RL		9	U	RL	NA	None
1,1-Dichloroethene	75-35-4	19	36		>RL but < 5xRL		41		>RL but < 5xRL	13.0	None
Freon 113	76-13-1	37	37	U	RL		26	U	RL	NA	None
Methylene Chloride	75-09-2	17	17	U	RL		12	U	RL	NA	None
1,1-Dichloroethane	75-34-3	19	19	U	RL		17		>RL but < 5xRL	NA	None
cis-1,2-Dichloroethene	156-59-2	19	52		>RL but < 5xRL		56		>RL but < 5xRL	7.4	None
1,1,1-Trichloroethane	71-55-6	26	370		> 5 x RL		410		> 5 x RL	10.3	None
Trichloroethene	79-01-6	26	4200		> 5 x RL		5000		> 5 x RL	17.4	None
Tetrachloroethene	127-18-4	32	32	U	RL		23	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	19	19	U	RL		14	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 6.84 and RLs are RLs shown x (6.84/9.6)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0417D021506

Analyte Name	CAS No.	DF=15 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	19	19	U	RL		19	U	RL	NA	None
Chloroethane	75-00-3	20	67		>RL but < 5xRL		54		>RL but < 5xRL	21.5	None
1,1-Dichloroethene	75-35-4	30	30	U	RL		30	U	RL	NA	None
Freon 113	76-13-1	57	57	U	RL		57	U	RL	NA	None
Methylene Chloride	75-09-2	26	26	U	RL		26	U	RL	NA	None
1,1-Dichloroethane	75-34-3	30	30	U	RL		30	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	30	110		>RL but < 5xRL		88		>RL but < 5xRL	22.2	None
1,1,1-Trichloroethane	71-55-6	41	380		> 5 x RL		320		> 5 x RL	17.1	None
Trichloroethene	79-01-6	40	7400		> 5 x RL		6200		> 5 x RL	17.6	None
Tetrachloroethene	127-18-4	51	51	U	RL		51	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	30	30	U	RL		30	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 3/20/06

Data Reviewer [illegible]

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 3/20/06

Data Reviewer [illegible]

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: 0602391CR1

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: March 21, 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 EN0533I21021606, EN0533I29021606, EN0533D021606, EN0426D021606, EN0412D021506, and EN049S021606 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 six samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

Results were originally reported in Work Order #0602391C with the incorrect sample ID for EN0533I21021606. The laboratory re-reported the Work Order as #0602391CR1 correcting this sample ID.

The eCVP submitted with 0602391CR1 contained the Chain-of-custody (COC) for samples associated with Work Order 0602391D. A resubmittal request, see page 1A of the attached data review checklist, was made on March 20, 2006 to obtain a copy of the executed COCs associated with this Work Order. A copy of the executed COC was received electronically on March 21, 2006 from SHA, Inc.

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

The soil vapor Field Duplicate pair, EN0418D021506 and DU31775021506 were analyzed in two separate Work Orders. Sample EN0418D021506 was reported in Work Order 0602391D while sample DU31775021506 was reported in this Work Order.

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: 2/15 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391CR1
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	Resubmitt Request	✓	✓	✓	✓	✓	✓	DF>2 for 6 smpl.
Except:	page 1A							

Comments: W.O. was reissued as 0602391CR1 to correct the smpl ID EN0533I21021606 which was misreported in ~~0602391~~ NOR 3/20/06 0602391C. The COC in the eCVP was that for smpl reported in W.O. # 0602391D - all other W.O. #'s checked & the COC associated with the smpls reported for this W.O. was not found. A resubmittal request, see page 1A, was made to obtain the corrected eCVP + COC. pdf of COC received 3/21/06 from SHA - All Canister field + lab receipt vacuums OK => LD Action required.

Smpls were all analyzed within 10 days of collection => No Action required. HT met

Date 3/21/06

Data Reviewer MJC.RK

34 Pheasant Run Drive
Skillman, NJ 08558
Phone: (908)874-5686; Fax: (908)874-4786
E-mail: n.rothman@patmedia.net

New Environmental Horizons, Inc.

Email Resubmittal

To:	Kelly Buettner	**From:**	Nancy C. Rothman, Ph.D.
Email:	k.buett@airtoxics.com	**Pages:**	1
Phone:	800-985-5955	**Date:**	March 20, 2006
Re:	Soil Vapor Monitoring Project	**CC:**	Betsy Tomaswick, SHA

X **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

Work Order 0602391CR1

The Chain-of-Custody on the eCVP for W.O. #0602391CR1 is for the samples reported in W.O. #0602391D. I was unable to find an executed copy of the COC for the samples associated with W.O. #0602391CR1 in any of the eCVPs provided.

Please provide the COC to me via pdf file. The eCVP for this Work Order should be re-issued to SHA to include the correct COC.

page 1A

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

Lab: Air Toxics Ltd.
Date Sampled: 2/15 - 2/16/06

Work Order #: 0602391CR1
No. Samples 18 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: I022405
EBs: EB9366021506 + EB94915021606 (W.O.# 0602391E) - 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 NUR 3/20/06	

Date 3/21/06

Data Reviewer [signature]

Lab: Air Toxics Ltd.
Date Sampled: 2/15 - 2/16/06

Work Order #: 0602391CR1
No. Samples 18 + 1FD + 1EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

ICAL = Instrument i on 2/22/06 - All 11 Targets had %RSD<30% + 6 level ICAL for 0.5 -> 200 ppbv - OK
CCAL: i022402 - % Rec all OK - No Action
BFB Tune: 2 - 1 ICAL + 1 CCAL - All Abundances OK => No Action

All 3 Surrogate % Rec + 3 IS Areas + RTs all OK => No Action
LCS/LCSD: i022403 / i022404 - % Rec + RPD all OK => No Action.

3 LDs done: 1) EN0533I21021606 shown at the bottom of page 4 - All 3 VOCs met LD precision => No Action
2) EN0533I29021606 shown at the top of page 4A - All 4 VOCs met LD precision => No Action
3) EN0533D021606 shown at the bottom of page 4A - All 4 VOCs met LD precision
Objective => LD precision acceptable for all => No Action

FD pair = EN0418D021506 (reported in W.O.# 0602391D) + DU31775021506 - shown at the top of page 4 - FD precision acceptable for all 5-6 detected VOCs => No Action.

- There were no "J" data reported + all Sample data reported in-range (LD EN0533D021606 flagged "E" since result out-range but lab didn't dilute since validated data does not include LD results).

- All RLs were ≤ expected RLs except (i.e. DF<2): EN0533I21021606 (DF=4.29), EN0533I29021606 (DF=7.9), EN0533D021606 (DF=12.9), EN0426D021606 (DF=2.33), EN0412D021506 (DF=6.44) + EN0495021606 (DF=3.16) due to dilutions made at instrument to ensure all results reported within range.

The database was unchanged as a consequence of this review.

Date 3/21/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/15/06 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391CR1
No. Samples 18 + 1FD + 1EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0418D021506 (reported in W.O. #0602391D) FD = DU31775021506

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		2.2	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	3.3	8.4		>RL but < 5xRL		3.4	U	RL	NA	None
Freon 113	76-13-1	6.4	6.4	U	RL		6.6	U	RL	NA	None
Methylene Chloride	75-09-2	2.9	2.9	U	RL		3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.4	6.8		>RL but < 5xRL		6		>RL but < 5xRL	12.5	None
cis-1,2-Dichloroethene	156-59-2	3.3	31		> 5 x RL		27		> 5 x RL	13.8	None
1,1,1-Trichloroethane	71-55-6	4.6	160		> 5 x RL		170		> 5 x RL	6.1	None
Trichloroethene	79-01-6	4.5	1800		> 5 x RL		1800		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	5.7	15		>RL but < 5xRL		12		>RL but < 5xRL	22.2	None
trans-1,2-Dichloroethene	156-60-5	3.3	3.3	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 (1.71/1.68)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0533I21021606

Analyte Name	CAS No.	DF= 4.29 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	5.5	U	RL		5.5	U	RL	NA	None
Chloroethane	75-00-3	5.7	5.7	U	RL		5.7	U	RL	NA	None
1,1-Dichloroethene	75-35-4	8.5	8.5	U	RL		8.5	U	RL	NA	None
Freon 113	76-13-1	16	16	U	RL		16	U	RL	NA	None
Methylene Chloride	75-09-2	7.4	7.4	U	RL		7.4	U	RL	NA	None
1,1-Dichloroethane	75-34-3	8.7	8.7	U	RL		8.7	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	8.5	8.5	U	RL		8.5	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	12	170		> 5 x RL		170		> 5 x RL	0.0	None
Trichloroethene	79-01-6	12	3400		> 5 x RL		3500		> 5 x RL	2.9	None
Tetrachloroethene	127-18-4	14	110		> 5 x RL		100		> 5 x RL	9.5	None
trans-1,2-Dichloroethene	156-60-5	8.5	8.5	U	RL		8.5	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 3/20/06

Data Reviewer [illegible]

Lab: Air Toxics Ltd.
Date Sampled: 2/15/06 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391CR1
No. Samples 18 + 1FD + 1EB

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0533I29021606

Analyte Name	CAS No.	DF= 7.9 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	10	10	U	RL		10	U	RL	NA	None
1,1-Dichloroethene	75-35-4	16	16	U	RL		16	U	RL	NA	None
Freon 113	76-13-1	30	30	U	RL		30	U	RL	NA	None
Methylene Chloride	75-09-2	14	14	U	RL		14	U	RL	NA	None
1,1-Dichloroethane	75-34-3	16	16	U	RL		16	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	16	38		>RL but < 5xRL		36		>RL but < 5xRL	5.4	None
1,1,1-Trichloroethane	71-55-6	22	540		> 5 x RL		520		> 5 x RL	3.8	None
Trichloroethene	79-01-6	21	7400		> 5 x RL		7600		> 5 x RL	2.7	None
Tetrachloroethene	127-18-4	27	280		> 5 x RL		280		> 5 x RL	0.0	None
trans-1,2-Dichloroethene	156-60-5	16	16	U	RL		16	U	RL	NA	None

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0533D021606

Analyte Name	CAS No.	DF=12.9* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	16	16	U	RL		10	U	RL	NA	None
Chloroethane	75-00-3	17	17	U	RL		11	U	RL	NA	None
1,1-Dichloroethene	75-35-4	26	26	U	RL		16	U	RL	NA	None
Freon 113	76-13-1	49	49	U	RL		31	U	RL	NA	None
Methylene Chloride	75-09-2	22	22	U	RL		14	U	RL	NA	None
1,1-Dichloroethane	75-34-3	26	26	U	RL		16	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	26	43		>RL but < 5xRL		48		>RL but < 5xRL	11.0	None
1,1,1-Trichloroethane	71-55-6	35	620		> 5 x RL		710		> 5 x RL	13.5	None
Trichloroethene	79-01-6	35	8400		> 5 x RL		9400	E	> 5 x RL	11.2	None
Tetrachloroethene	127-18-4	44	350		> 5 x RL		390		> 5 x RL	10.8	None
trans-1,2-Dichloroethene	156-60-5	26	26	U	RL		16	U	RL	NA	None

* LD DF was 8.05
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 3/20/06

Data Reviewer [illegible]

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 3/20/04

Data Reviewer MC. Rh

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: 0602391D

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. N.C.R.

Date: March 21, 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 EN049D021606, EN0410S021606, EN0410D021606, EN0414D021406, EN0422D021506, EN0416D021506, and DU9302021506 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 seven samples are reported at levels exceeding the Expected Field Sample Laboratory Reporting Limits (RL) given in Table 2 of the Work Plan.

The soil vapor Field Duplicate pair, EN0418D021506 and DU31775021506 were analyzed in two separate Work Orders. Sample EN0418D021506 was reported in this Work Order while sample DU31775021506 was reported in Work Order 0602391CR1.

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: 2/15 - 2/16/06 + 2/14/06
Method of Analysis: TO-15 Full Scan

Work Order #: 06023910
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:								7 smpls DF>2

Comments: All Canister field + lab receipt vacuums were OK and there were no COC issues noted.

All Smpls were analyzed within 11 days of collection => HT met - No Action.

ICAL = Instrument 5 on 1/31/06 + 2/18/06 - All 11 Targets had %RSD < 30% + Ions analyzed as expected => Valid ICAL - No Action

CCAL: 5022402 - 90 Rec all OK => No Action

Date 3/21/06

Data Reviewer [illegible]

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

Lab: Air Toxics Ltd.
Date Sampled: 2/15 - 2/16/06 + 2/14/06

Work Order #: 0602391D
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5022405
EB: EB9366021506 + EB9491502160 6 - both reported in W.O. # 0602391E
EBSC4021406 (W.O. #0602391CR1)

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 6/21/06	

Date 6/21/06

Data Reviewer NCR

Lab: Air Toxics Ltd.
Date Sampled: 2/15 - 2/16/06 + 2/14/06

Work Order #: 0602391D
No. Samples 18 + 2FD

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tuns: 3 - 2 ICAL + 1 CCAL - All Abundances were OK => No Action

3 Surrogate %Rec + 3 IS Area + RTs were in criteria for all smpls + QC => No Action required.
LCS/LCSD = 5022403 / 5022404 - %Rec + RPD

3 LDs performed 1) EN049D021606 Smpl / LD shown at the bottom of page 4 - All 7-8 VOCs had acceptable precision
2) EN041OS021606 Smpl / LD shown at bottom of page 4A - All 8 VOCs had acceptable precision - Note chloroform RPD = 26.49%; however, both Smpl / LD results were < 5xRL => RPD limit of 25% Not Applicable
3) EN042ZD021506 Smpl / LD shown at the bottom of page 4B - All 7-8 detect VOCs had acceptable Precision -
For all 3 LD pairs, precision was acceptable => No Action required

3 FDs : 1) EN041GS021506 + DU9372021506 shown at the top of page 4 - FD precision OK for 1 detected VOC
2) EN041GD021506 + DU9302021506 shown at the top of page 4A - FD precision OK for all 4 detected VOCs
3) EN041BD021506 + DU3177S021506 (reported in W.O. # 0602391(R1)) - shown at the top of page 4B - FD precision OK for all 5-6 detected VOCs - All FD pairs: acceptable precision => No Action Required.

There were no "J" results reported + narrative did not raise any issues.

The RLs were ≤ expected RLs (i.e. DF<2) except: EN049D021606 (DF=25.3), EN041OS021606 (DF=16.1), EN041OD021606 (DF=62), EN041HD021406 (DF=6.32), EN042ZD021506 (DF=3.22), EN041GD021506 (DF=9.2) + DU9302021506 (DF=9.37) due to dilutions made at the instrument to ensure all detects reported within the instrument calibration range.

The database was unchanged as a consequence of this review.

Date 3/21/06

Data Reviewer MJC.RR

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/14/06 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391D
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0416S021506 FD = DU9372021506

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		2.1	U	RL	NA	None
Chloroethane	75-00-3	2.1	2.1	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	6.2	6.2	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	3.2	3.2	U	RL		3.3	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	3.2	3.2	U	RL		3.2	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	4.4	4.4	U	RL		4.5	U	RL	NA	None
Trichloroethene	79-01-6	4.3	4.3	U	RL		4.4	U	RL	NA	None
Tetrachloroethene	127-18-4	5.5	7.2		>RL but < 5xRL		7.1		>RL but < 5xRL	1.4	None
trans-1,2-Dichloroethene	156-60-5	3.2	3.2	U	RL		3.2	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 1.64 and RLs are RLs shown x (1.64/1.61)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN049D021606

Analyte Name	CAS No.	DF=25.3 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	32	32	U	RL		32	U	RL	NA	None
Chloroethane	75-00-3	33	33	U	RL		33	U	RL	NA	None
1,1-Dichloroethene	75-35-4	50	1600		> 5 x RL		1600		> 5 x RL	0.0	None
Freon 113	76-13-1	97	130		>RL but < 5xRL		140		>RL but < 5xRL	7.4	None
Methylene Chloride	75-09-2	44	44	U	RL		44	U	RL	NA	None
1,1-Dichloroethane	75-34-3	51	1400		> 5 x RL		1500		> 5 x RL	6.9	None
cis-1,2-Dichloroethene	156-59-2	50	3500		> 5 x RL		3600		> 5 x RL	2.8	None
1,1,1-Trichloroethane	71-55-6	69	4200		> 5 x RL		4200		> 5 x RL	0.0	None
Trichloroethene	79-01-6	68	17000		> 5 x RL		16000		> 5 x RL	6.1	None
Tetrachloroethene	127-18-4	86	1400		> 5 x RL		1300		> 5 x RL	7.4	None
trans-1,2-Dichloroethene	156-60-5	50	50	U	RL		54		>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 3/21/06

Data Reviewer MJC.RR

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/14/06 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391D
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0416D021506 FD = DU9302021506

Analyte Name	CAS No.	DF= 9.2* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	12	12	U	RL		12	U	RL	NA	None
Chloroethane	75-00-3	12	12	U	RL		12	U	RL	NA	None
1,1-Dichloroethene	75-35-4	18	18	U	RL		18	U	RL	NA	None
Freon 113	76-13-1	35	35	U	RL		36	U	RL	NA	None
Methylene Chloride	75-09-2	16	16	U	RL		16	U	RL	NA	None
1,1-Dichloroethane	75-34-3	19	19	U	RL		19	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	18	28		>RL but < 5xRL		33		>RL but < 5xRL	16.4	None
1,1,1-Trichloroethane	71-55-6	25	320		> 5 x RL		340		> 5 x RL	6.1	None
Trichloroethene	79-01-6	25	8300		> 5 x RL		8800		> 5 x RL	5.8	None
Tetrachloroethene	127-18-4	31	320		> 5 x RL		340		> 5 x RL	6.1	None
trans-1,2-Dichloroethene	156-60-5	18	18	U	RL		18	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 9.37 and RLs are RLs shown x (9.37/9.2)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0410S021606

Analyte Name	CAS No.	DF=16.1 RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	20	20	U	RL		20	U	RL	NA	None
Chloroethane	75-00-3	21	30		>RL but < 5xRL		23		>RL but < 5xRL	26.4	None
1,1-Dichloroethene	75-35-4	32	2600		> 5 x RL		2400		> 5 x RL	8.0	None
Freon 113	76-13-1	62	310		> 5 x RL		270		> 5 x RL	13.8	None
Methylene Chloride	75-09-2	28	28	U	RL		28	U	RL	NA	None
1,1-Dichloroethane	75-34-3	32	2300		> 5 x RL		2000		> 5 x RL	14.0	None
cis-1,2-Dichloroethene	156-59-2	32	2200		> 5 x RL		2000		> 5 x RL	9.5	None
1,1,1-Trichloroethane	71-55-6	44	6700		> 5 x RL		6100		> 5 x RL	9.4	None
Trichloroethene	79-01-6	43	14000		> 5 x RL		12000		> 5 x RL	15.4	None
Tetrachloroethene	127-18-4	55	120		>RL but < 5xRL		120		>RL but < 5xRL	0.0	None
trans-1,2-Dichloroethene	156-60-5	32	32	U	RL		32	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 3/21/06

Data Reviewer MC.RM

New Environmental Horizons, Inc.

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/14/06 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391D
No. Samples 18 + 2FD

Field Duplicate Evaluation_ Sample IDs: Sample = EN0418D021506 FD = DU31775021506 (reported in W.O. #0602391CR1)

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		2.2	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	3.3	8.4		>RL but < 5xRL		3.4	U	RL	NA	None
Freon 113	76-13-1	6.4	6.4	U	RL		6.6	U	RL	NA	None
Methylene Chloride	75-09-2	2.9	2.9	U	RL		3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	3.4	6.8		>RL but < 5xRL		6		>RL but < 5xRL	12.5	None
cis-1,2-Dichloroethene	156-59-2	3.3	31		> 5 x RL		27		> 5 x RL	13.8	None
1,1,1-Trichloroethane	71-55-6	4.6	160		> 5 x RL		170		> 5 x RL	6.1	None
Trichloroethene	79-01-6	4.5	1800		> 5 x RL		1800		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	5.7	15		>RL but < 5xRL		12		>RL but < 5xRL	22.2	None
trans-1,2-Dichloroethene	156-60-5	3.3	3.3	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 (1.71/1.68)

Laboratory Duplicate Evaluation: Sample Used for LD Analysis: EN0422D021506

Analyte Name	CAS No.	DF= 3.22* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		LD µg/m³	Q	LD Result Level	RPD	Action
Vinyl Chloride	75-01-4	4.1	7.8		>RL but < 5xRL		6.9		>RL but < 5xRL	12.2	None
Chloroethane	75-00-3	4.2	4.2	U	RL		2.1	U	RL	NA	None
1,1-Dichloroethene	75-35-4	6.4	11		>RL but < 5xRL		12		>RL but < 5xRL	8.7	None
Freon 113	76-13-1	12	12	U	RL		12		>RL but < 5xRL	NA	None
Methylene Chloride	75-09-2	5.6	5.6	U	RL		2.8	U	RL	NA	None
1,1-Dichloroethane	75-34-3	6.5	8.2		>RL but < 5xRL		8.3		>RL but < 5xRL	1.2	None
cis-1,2-Dichloroethene	156-59-2	6.4	2200		> 5 x RL		2200	E	> 5 x RL	0.0	None
1,1,1-Trichloroethane	71-55-6	8.8	41		>RL but < 5xRL		44		>RL but < 5xRL	7.1	None
Trichloroethene	79-01-6	8.6	660		> 5 x RL		710		> 5 x RL	7.3	None
Tetrachloroethene	127-18-4	11	11	U	RL		5.5	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	6.4	53		> 5 x RL		52		> 5 x RL	1.9	None

* The LD DF was 1.61
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 3/21/06

Data Reviewer [illegible]

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 3/21/06

Data Reviewer MCR

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: 0602391E

Number of Samples: 10 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: March 21, 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 EN0432D021406, DU2109021406, and EN0430D021406 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.

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: 2/14-2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391E
No. Samples 8+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	✓	✓	✓	✓	✓	✓	✓	✓
Except:								3 Samples
								DF>2

Comments: All Canister field + lab receipt vacuums were OK + there were no COC issues noted.

All Samples were analyzed within 11 days of collection => HT met - No Action

ICAL: Instrument 5 on 1/31 + 2/18/06 - All 11 Targets had %RSD < 30% + 6-level from 0.5 -> 200 ppbv => ~~Valid~~ Now 3/21/06 Valid ICAL => No Action

CCAL: 5022502 - %Rec all OK => No Action

Date 3/21/06

Data Reviewer [signature]

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

Lab: Air Toxics Ltd.
Date Sampled: 2/14 - 2/16/06

Work Order #: 0602391E
No. Samples 8 + 2FD + 2EB

Method of Analysis: TO-15 Full Scan
Associated Blanks: MB: 5022506
EB: EBSC4021402 (reported in W.O. # 0602391(R1)).
2 EBs associated with this W.O. are not associated with the samples reported here.

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.	
					Nam 3/21/06	

Date 3/21/06

Data Reviewer [illegible]

Lab: Air Toxics Ltd.
Date Sampled: 2/14 - 2/16/06

Work Order #: 0602391E
No. Samples 8 + 2FD + 2EB

Method of Analysis: TO-15 Full Scan

Additional Notes:

BFB Tune: 3 - 2 ICAL + 1 CCAL - All Abundances OK => No Action Required.

All 3 Surrogate %Recs + 3 IS Area / RTs were in criteria for all Smpls + QC => No Action Required.
All LCS/LCSD (5022503 / 5022504) - %Rec + RPDs all OK => No Action.

There were no LDS performed with the smpls in this W.O. - LCS/LCSD precision acceptable => No Action Required.

FD pairs (2): 1) EN0445021406 + DU3462402140G shown at the top of page 4 - FD precision was ~~acceptable for all~~ NOT 3/21/06 not able to be assessed since all results in both samples were non-detect - No Action required.

2) EN0432D021406 + DU2109021406 shown at the top of page 4A - FD precision was acceptable for both VOCs positively detected => No Action required.

There were no "J" data reported + narrative did not raise any issues.

All RLs were ≤ expected RLs (i.e. DF < 2) except: EN0432D021406 (DF = 4.37), DU2109021406 (DF = 4.2) and EN0430D021406 (DF = 3.28) due to dilutions made at instrument to ensure all results reported within the calibration range.

The database was unchanged as a consequence of this review.

Date 3/21/06

Data Reviewer [signature]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/14/06 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391E
No. Samples 8 + 2FD + 2EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN044S021406 FD = DU34624021406

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: There were no Laboratory Duplicates associated with the samples in this Work Order

Analyte Name	CAS No.	DF= RL (µg/m³)	Sample µg/m³	Q	Sample Result Level	LD µg/m³	Q	LD 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					NM				
cis-1,2-Dichloroethene	156-59-2					3/21/06				
1,1,1-Trichloroethane	71-55-6									
Trichloroethene	79-01-6									
Tetrachloroethene	127-18-4									
trans-1,2-Dichloroethene	156-60-5									

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 3/21/06

Data Reviewer [illegible]

Soil Vapor Monitoring, Endicott, NY
Air Data Review Checklist

Lab: Air Toxics Ltd.
Date Sampled: 2/14/06 - 2/16/06
Method of Analysis: TO-15 Full Scan

Work Order #: 0602391E
No. Samples 8 + 2FD + 2EB

Field Duplicate Evaluation_ Sample IDs: Sample = EN0432D021406 FD = DU2109021406

Analyte Name	CAS No.	DF=4.37* RL (µg/m³)	Sample µg/m³	Q	Sample Result Level		FD µg/m³	Q	FD Result Level	RPD	Action
Vinyl Chloride	75-01-4	5.6	5.6	U	RL		5.4	U	RL	NA	None
Chloroethane	75-00-3	5.8	5.8	U	RL		5.5	U	RL	NA	None
1,1-Dichloroethene	75-35-4	8.7	8.7	U	RL		8.3	U	RL	NA	None
Freon 113	76-13-1	17	17	U	RL		16	U	RL	NA	None
Methylene Chloride	75-09-2	7.6	7.6	U	RL		7.3	U	RL	NA	None
1,1-Dichloroethane	75-34-3	8.8	8.8	U	RL		8.5	U	RL	NA	None
cis-1,2-Dichloroethene	156-59-2	8.7	8.7	U	RL		8.3	U	RL	NA	None
1,1,1-Trichloroethane	71-55-6	12	77		> 5 x RL		80		> 5 x RL	3.8	None
Trichloroethene	79-01-6	12	3300		> 5 x RL		3300		> 5 x RL	0.0	None
Tetrachloroethene	127-18-4	15	15	U	RL		14	U	RL	NA	None
trans-1,2-Dichloroethene	156-60-5	8.7	8.7	U	RL		8.3	U	RL	NA	None

*This is the sample DF and RLs, the FD DF was 4.2 and RLs are RLs shown x (4.2/4.37)

Date 3/21/06

Data Reviewer [illegible]

A

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 3/21/04

Data Reviewer [illegible]